SEPTEMBER 25–27, 2014

SPQR: SIMPLIFICATION, PREDICTABILITY, QUALITY TO ACHIEVE RESULTS

CHAIRMEN: LUCA CORDARO AND BJÖRN KLINGE

In collaboration with
AIO (Italian Dental Association)
AIOP (Italian Academy of Prosthetic Dentistry)
ANDI (Italian Dentists National Association)
SIDCO (Italian Society of Oral Surgery and Implantology)
SIDP (Italian Society of Periodontology and Implantology)
SICOI (Italian Society of Oral Surgery and Implantology)
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Dear colleagues,

It is an honor for me to welcome you to our annual congress of the EAO. After 13 years, the congress will be back in Italy: in Rome, the eternal city. The Congress Committee and the Board of the European Association for Osseointegration have put a great effort to design a new format for the very successful annual congress.

Over 3 full days, sessions will be organized around one main theme, SPQR (Simplicity, Predictability, Quality to achieve Results), that is the backbone of the program with dedicated plenary sessions in the middle of each congress day. The scientific works will show more interactivity with the participants with open discussion between speakers on the podium that indicate different approaches to the same clinical problem. The whole programme is designed to be a critical debate, based on evidence, and on various clinical experiences. Several new sessions have been designed such as dedicated sessions for the implantologist of tomorrow, 3 research sessions open to abstract submission for studies focused on basic research, surgical topics or prosthetic problems and also 3 oral presentation sessions. Hands on courses will also take place. As usually large trade exhibitions as well as industry satellite symposia will be organized.

Rome needs no introduction and it is impossible to describe all the possible sightseeing opportunities. The Vatican, the ancient Roman ruins including the Coliseum, the marvelous buildings and paintings of the Renaissance or just the incredible flavor of a walk in the old downtown area will help in transforming the participation to the EAO congress into an unforgettable experience.

We expect a very pleasant weather at the end of September with temperatures around 25°C. Besides all this, the scientific committee has worked hard to propose a very attractive program.

The local scientific societies, that in Italy have a long standing tradition of high scientific and clinical level, will have dedicated sessions in English, and guest countries from outside Europe will also be part of the scientific programme.

The new format of the EAO congress will be there for you, we will start our new adventure from the city where a big part of the European culture and tradition comes from: Rome.

So let’s meet in Rome next September, the scientific committee is sure that you will have an exciting and professionally rewarding experience.

Luca Cordaro
Chairman of the Scientific Committee
# Final Programme EAO 2014

## Congress Overview

<table>
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<th>Wednesday Sept. 24</th>
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<th>Friday</th>
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<tr>
<td>Santa Cecilia</td>
<td>Sinopoli</td>
<td>Petrassi</td>
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<tr>
<td>Theatre Studio</td>
<td>Choir Hall</td>
<td>Santa Cecilia</td>
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### Monday, Sept. 22
- **9:00 - 15:00**: Opening Ceremony
- **16:00 - 18:00**: Reception
- **19:00 - 22:00**: EAO Members’ and Speakers’ Dinner

### Tuesday, Sept. 23
- **10:00 - 12:00**: Main Session
- **14:00 - 18:00**: Symposium
- **19:00 - 22:00**: Congress Reception

### Wednesday, Sept. 24
- **09:00 - 12:00**: Main Session
- **13:00 - 17:00**: Symposium
- **19:00 - 22:00**: Congress Reception

### Thursday, Sept. 25
- **10:00 - 12:00**: Main Session
- **13:00 - 17:00**: Symposium
- **19:00 - 22:00**: Congress Reception

### Friday, Sept. 26
- **09:00 - 12:00**: Main Session
- **13:00 - 17:00**: Symposium
- **19:00 - 22:00**: Congress Reception
HISTORY
The European Association for Osseointegration (EAO) is a non-profit organisation founded in 1991. It was formed as an international, interdisciplinary and independent science based forum for all professionals interested in the art and science of osseointegration and has now become one of the most regarded international reference for osseointegration in the world. Bridging the gap between science and clinical practice, EAO aims to improve the quality of patient care as the leading voice and resource centre in the field of implant dentistry in Europe.

MISSION
- To promote and facilitate clinical applications of osseointegration for the benefit of patients throughout the world.
- To promote the advancement of methods of treatment in reconstructive surgery and prosthetic rehabilitation based on the principles of osseointegration and related disciplines.
- To promote and initiate research into improved clinical procedures for rehabilitation as a consequence of osseointegration.
- To promote international exchange of knowledge and understanding of the techniques and research in the field of osseointegration and related disciplines.
- To promote the publication of research findings and other materials as part of continuing education for the benefit of members and interested organizations.

For further information about the EAO and the membership benefits, visit EAO website: www.eao.org

EAO BOARD MEMBERS (2013–2014)

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EAO OFFICE

TEL: +33 1 44 64 15 32
FAX: +33 1 44 64 15 16
EMAIL: eao@clq-group.com
Discover the benefits of EAO membership

Join the EAO and become part of Europe’s leading organisation for promoting clinical excellence and patient care in implant dentistry.

As an EAO member, you will receive a range of benefits including a discount of close to 50% off the registration fee for Rome 2014.

Other benefits include:

- free access to the online edition of Clinical Oral Implants Research
- inclusion of your practice address in the EAO’s online ‘search for a dentist’ tool, designed to help increase patient referrals
- exclusive use of a series of online tools developed by the EAO to help you increase case acceptance for implant treatment
- access to a VIP lounge at the Rome meeting where you can relax with colleagues

To join visit [www.eao.org](http://www.eao.org), email [eao@clq-group.com](mailto:eao@clq-group.com) or phone +33 1 44 64 15 32
Current concepts in bone grafting and soft tissue management
Advanced surgical procedures with autogenous bone

Prof. Dr. Fouad Khoury, DMD, PhD
20–21 March 2015, Paris

The EAO is pleased to announce a Master Clinicians’ Course, hosted by Professor Fouad Khoury, on current concepts in bone grafting and soft tissue management. Don’t miss this opportunity to take part in a practical course with this world-renowned practitioner.

Book by 30 November 2014 to secure your place at the early bird rate, and save 200 Euros.

EOA members receive a substantially discounted registration fee in addition to early bird savings.

Course fees

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<tr>
<td>990€ before 30.11.2014</td>
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<th>Non members:</th>
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<td>1,290€ before 30.11.2014</td>
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To reserve your place, please contact Soazig Daniel, EAO Secretariat at eao@clq-group.com or on +33 (0) 1 44 64 15 15
WEDNESDAY, 24TH SEPTEMBER [ EVENING ]

WELCOME COCKTAIL
AT THE AUDITORIUM PARCO DELLA MUSICA

A cocktail will be organized to welcome all participants and mark the opening of the 23rd annual meeting of the EAO. Open to all registered congress participants.

18:00 / 20:00
THURSDAY, 25TH SEPTEMBER

NUMBER IN FRONT THE LECTURE TITLE REFERS TO THE ABSTRACT NUMBER PUBLISHED IN THE COIR SUPPLEMENT

10:00 / 12:00

SATELLITE INDUSTRY SYMPOSIA (see detail page 23)

11:15 / 12:30 (THEATRE STUDIO)

THE JUNIOR COMMITTEE SUMMER CAMP REUNION SESSION

- Presentation of the 2014 EAO summer camp
  Group 1: Societies in the next 10 years
    Marco Clementini
  Group 2: Certifications in the next 10 years
    France Lambert and Sophie Dacquin
  Group 3: Continuing education in the next 10 years
    Kathrin Backer and Iva Mrnkovic
  Group 4: Innovation in the next 10 years
    Jordi Caballe Serrano
- Publishing strategies of the manuscripts
- Closing remarks and future outlooks in the JC activities

12:45 / 13:00 (SANTA CECILIA)

WELCOME ADDRESS
Pascal Valentini (France)

13:00 / 14:30 (SANTA CECILIA)

MAIN SESSION 1

SPQR – SURGICAL ALTERNATIVES
Chairpersons: Bjarni Pjetrusson (Iceland) and Luca Cordaro (Italy)

1 Flapped surgery, flapless surgery
Juan Blanco Carrion (Spain)

2 Transmucosal Healing and insertion depth: do we have guidelines?
Mario Roccuzzo (Italy)

3 Minimizing the patient morbidity in bone augmentations
Hendrik Terheyden (Germany)

4 Immediate placement revisited
Joseph Kan (United States)

15:00 / 16:30 (SANTA CECILIA)

IS GUIDED SURGERY HERE TO STAY?
Chairperson: Alberto Sicilia-Felechosa (Spain)

2 Session topic will be discussed by:
Ronald Jung (Switzerland), Marc Quirynen (Belgium), Ali Tahmasab (Netherlands), Ion J. I. Zabalegui (Spain)
TREATMENT OF TECHNICAL AND BIOLOGICAL COMPLICATIONS

Chairpersons: Henning Schliephake (Germany), Hans-Peter Weber (USA)

Elliott Ballantyne* (Ireland)

[54] The clinical research of maxillary sinus augmentation without using bone graft materials: a 1–3 years retrospective study with Bicon implants
Haipeng Sun* (China), Yun Liu, Ke Wang, Feilong Deng* (China)

[55] Opportunistic pathogens (E. faecalis and P. aeruginosa) at internal and external implant portions in peri-implant disease: a cross-sectional study
Luigi Canullo, Mia Rakic* (Italy), Paulo Rossetti, David Penarrocha, Alba Monreal, Ugo Covani

[56] Study of the relations between triggering factors of periimplantitis and clinical, radiographic and microbiological conditions of diseased implants
Luigi Canullo* (Italy), David Penarrocha, Juan Antonio Biaya-Tarraga, Markus Schlee, Ugo Covani

[57] Clinical investigation of dental implant treatments in patients administered with bisphosphonates
Akira Matsuo* (Japan), Kaori Yago, Joji Sekine, Soichiro Asanami, Kanchi Seto

[58] Inflammatory cytokines as diagnostic indicators of peri-implant diseases: systematic review and meta-analysis
Fernanda Fiolet* (Brazil), Gustavo Giacomelli Nascimento, Amália Machado Bielemann, Thiago Dias Campão, Raissa Micaela Marcelo Machado, Fábio Renato Manzolli Leite

IMPLANT INSERTION AFTER TOOTH EXTRACTION

Chairpersons: Claudio Arcuri (Italy), Enrico Gherlone (Italy)

[59] Patient satisfaction and esthetic outcome after immediate placement and provisionalization of single-tooth implants
Jens Hartev* (Denmark), Søren Schou, Flemming Isidor, Peter Kohberg, Søren Ahlmann

[60] Immediate Placement of Conical Connection Implant and Provisionalization in Anterior Area: A 4 years Prospective Clinical Study
Mario Imburgia* (Italy)

[61] Immediate implant placement to preserve alveolar ridge dimensions after tooth extraction: a systematic review and meta-analysis.
Marco Clementini* (Italy), Luca Tirava, Valeria De Risi, Gianluca Vittorini Orgeas, Alice Mannocci, Massimo De Sanctis

[62] Vertical ridge augmentation by callus distraction underneath HA-coated titanium plates – proof of principle and first clinical data
Daniel Rothamel* (Germany), Domonkos Horvath, Christoph Klemm, Uwe Behrens, Daniel Ferrari, Joachim E Zöller

Tiago Borges, Joana Xavier* (Portugal), Bruno Leitão, Miguel Pereira, Rui Amaral Mendes

[64] Radiographic evaluation of a novel socket preservation technique
Balint Mohar, Rita Marton* (Hungary), Peter Windisch, Kristof Orban, Boglarka Hermann, Gyorgy Gondocs, Balint Torok
LONG-TERM OUTCOME OF IMPLANT RESTORATIONS IN THE AESTHETIC ZONE

Chairpersons: Jaime Gil (Spain), Thomas D. Taylor (USA)

(65) Oral rehabilitation in patient with severe bone loss in the frontal area: clinical report on 10 consecutive treated patients.
Stefano Trasarti* (Italy)

(66) Immediate Function of OsseoSpeed Implants in the Anterior Dental Arch – 5-year data
Robert Noelken, Johannes Klement* (Germany), Martin Kunkel, Wilfried Wagner

(67) Rehabilitation of the severely atrophied alveolar ridge in the aesthetic region with corticocancellous grafts from the iliac crest and dental implants
Miikka Lehmijoki, Patricia Stoor* (Finland), Christian Lindqvist, Hanna Thören, Pekka Laine, Heli Holming

(68) Esthetic outcome of Maxillary single-tooth Implants
Tammaro Eccellente* (Italy), Armando Rossi, Michele D’Errico, Claudio Grande, Michele Ortolani, Raffaella Adaimo

(69) Tissue stability of implants placed in fresh extraction sockets: a 5-year prospective single cohort study.
Valentina Borgia* (Italy), Fortunato Alfonsi, Ugo Covani, Simone Marconcini, Paolo Tonelli, Antonio Barone

(70) Evaluation of a self cutting thread designed and non self cutting threaded implants placed in extraction sites with immediate temporization: a 5-year clinical study.
Ramesh Chowdhary* (India)

EAO CERTIFICATION PROGRAMME WORKSHOP

16:30 / 18:30

SATELLITE INDUSTRY SYMPOSIA (see detail page 23)

EAO MEMBERS’ AND SPEAKERS’ DINNER AT THE VATICAN MUSEUMS

You always dream of contemplating the Sistine Chapel without the noisy and pushy crowds? The EAO will make your dream come true. This year the EAO member’s and Speaker’s will start by a private visit of the Museums and the Sistine Chapel. During the guided tour masterpieces such as the Candelabrum Gallery, the Tapestries Gallery, the Geographical Maps Gallery, and Michelangelo’s masterpiece The Last Judgment can be admired.

Don’t miss this opportunity!

Members’ and Speakers’ Dinner is reserved for registered EAO Members at the additional fee of 50 €. Registration for the dinner may be done while registering.
FRIDAY, 26TH SEPTEMBER

07:45 / 08:45
INDUSTRY BREAKFAST SYMPOSIA (see detail page 27)

08:45 / 10:15 [SANTA CECILIA]
EXTRACTING TEETH IN MODERN DENTISTRY: CHANGE IN PARADIGM?
Chairperson: Ronald Jung (Switzerland)

- [6] What happens after tooth extraction and what do I need to know?
  Daniele Botticelli (Italy)
- [7] Why I do not like to perform alveolar ridge preservation and why I let it heal spontaneously?
  Stefan Fickl (Germany)
- [8] Why I like to perform Alveolar ridge preservation?
  Fabio Vignoletti (Spain)
  Discussion with an expert
  Ueli Grunder (Switzerland), Daniele Cardaropoli (Italy)

08:45 / 10:15 [SINOPOLI]
REDUCED NUMBER AND DIMENSION OF IMPLANTS
Chairperson: Ugo Consolo (Italy) and Karl-Andrea Schlegel (Germany)

- [18] Short introduction to the topic
  Karl Andreas Schlegel (Germany)
- [19] Augmentation prior to implant placement
  Fouad Khoury (Germany)
- [20] Reduced diameter implants
  Bilal Al Nawas (Germany)
- [21] Length reduced implants
  Daniel Thoma (Switzerland)
- [22] Reduced number of implants
  Bjarni Pjetursson (Iceland)

08:45 / 10:15 [PETRASSI]
CLINICAL RESEARCH COMPETITION – SURGICALLY RELATED
Chairperson: Daniel Buser (Switzerland), Wilfred Wagner (Germany)

- [71] An aesthetic evaluation of immediate loading versus delayed loading in single implant treatment
  Björn Gjelvold* (Sweden), Jenö Kisch, Ann Wannenber
- [72] Immediate loaded implants in the rehabilitation of maxilla with guided surgery vs. standard procedure: a two years randomized clinical trial.
  Leonardo Amorfini* (Italy), Stefano Storelli, Eugenio Romeo
- [73] Osteotome sinus floor elevation without grafting material: A 10-year study.
  Rabah Nedir* (Switzerland), Nathalie Nurdin, Lydia Vazquez, Mark Bischof
Clinical attachment level as a measure to detect changes in clinical peri-implant condition: a 12-year longitudinal study.
Melle Vroom* (Netherlands), Mark Timmerman

Three-year post loading results of a split-mouth clinical trial comparing marginal bone loss around two different implant designs
Alessandro Pozzi, Marco Tallarico* (Italy), Peter k Moy

Randomized controlled clinical trial of single immediate implants in the aesthetic zone with or without soft tissue grafting: preliminary results
Elise Zuiderveld* (Netherlands), Laurens den Hartog, Arjan Vissink, Gary Raghoeb, Henny Meijer

Titanium-zirconium narrow-diameter versus titanium regular-diameter implants for anterior and premolar single crowns: 3-year results of a randomized controlled study
Alexis Ioannidis* (Switzerland), German Galluci, Sary Borzangi, Ronald E Jung, Christoph HF Hämmerle, Hans-Peter Weber, Goran Benic

Basic Research Competition
Chairpersons: Friederich Neukam (Germany), Maurizio Tonetti (Italy)

Vertical bone augmentation induced by the novel bioactive coated mini implants in a rabbit calvarial model
Xin Wang* (Japan), Osama Zakaria, Marwa Wadi, Shohei Kusugai

Microbiological and clinical findings of healthy and diseased implants
Luigi Canullo, Paolo Rossetti, David Penarrocha* (Spain), Ugo Covani, Miguel Penarrocha

Can we predict early implant failure based on genetics?
Véronique Christiaens* (Belgium)

Osteogenic potential of human gingiva-derived mesenchymal stem cells and 3D bioactive glass scaffolds for bone tissue engineering applications
Siddharth Shanbhag* (Sweden), Geetanjali Tomar, Andreas Stavropoulos, Vivek Shanbhag, Mohan Wani

Differences in crestal bone to implant contact following under-drilling compared to over-drilling protocol. A study in the rabbit tibia
Omer Cohen* (Israel), Zeev Ormianer, Haim Tal, Miron Weinreb, Ofir Moses

Effect of intentional abutment disconnection on the micromovements of the implant-abutment assembly and screw thread morphology
Ana Messias* (Portugal), Salomão Rocha, Nuno Calha, Maria Augusta Neto, Pedro Nicolau, Fernando Guerra

Osseointegration with new bone in the sinus-lift and simultaneous implant placement without bone substitute: An experiment using canine frontal sinus
Takao Watanabe* (Japan), Ichiro Takano

Congress Ceremony
Antonella Polimeni (Italy), Pascal Valentini (France) and Luca Cordaro (Italy)

SPQR: Prosthetic Alternatives
Chairpersons: Luca Cordaro (Italy), Irena Sailer (Switzerland)

All Ceramic restorations or low precious alloys
Christophe Hammerle (Switzerland)

What overdenture type?
Jocelyne Féline (Canada)
EAO 2014 EAO PROGRAMME

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(1) CAD cam technology where are we?
Joerg Strub (Germany)

(1) Complications of FDPs. How do we prevent?
Dean Morton (USA)

12:15 / 13:15 [ PETRASSI ]

EAO GENERAL ASSEMBLY

13:15 / 16:30 [ CHOIR HALL / CORO ]

KOREAN SESSION

CUTTING EDGE OF IMPLANT DENTISTRY

Opening remarks
Je-Uk Park (Korea)

Part A - Smart Dental Implant Placement
Chairpersons: Je-Uk Park (Korea), Kil-Hyun Sung (Korea)

[ 38 ] Upgrade of computer Guided Flapless Implant Surgery
Byung-Ho Choi (Korea)

[ 39 ] Smart implant placement & computer-guided dentistry
Richard Leesungbok (Korea)

Part B - Novel approaches for alveolar Bone Regeneration
Chairpersons: In-Chul Rhyu (Korea), Seong-Ho Choi (Korea)

[ 40 ] Tooth-derived Bone Graft Material: Demineralized Dentin Matrix
Young-Kyun Kim (Korea)

[ 41 ] Recent Advances in application of rhBMP-2 for bone regeneration
Jung Ui-Won (Korea)

Part C - Toward natural beauty in implant prosthodontics
Chairpersons: Young-Jun Lim (Korea), Ginson Kim (Korea)

[ 42 ] Biology driven implant design for less invasive & more natural implant outcome
Park Kwang-Bum (Korea)

[ 43 ] Long term evaluation of alumina toughened zirconia abutments and its clinical application in implant dentistry
Lee Junseok (Korea)

Part D - Comprehensive management of complications following dental implant
Chairpersons: Je-Uk Park (Korea), Bu-Kyu Lee (Korea)

[ 44 ] A new paradigm for fast & complication-less implant therapy in the maxillary posterior area
Chong-Hwa Kim (Korea)

[ 45 ] Clinical trials for periimplant mucositis and peri-implantitis
Ham Byung-Do (Korea)

Closing remarks
Je-Uk Park (Korea)
13:15 / 14:45 (Santa Cecilia)
FULL ARCH RESTORATIONS: SEVERAL OPTIONS OR ONLY ONE PROTOCOL?
Chairperson: Björn Klinge (Sweden)

10. How many implants for a fixed restoration?
   Luca Francetti (Italy)

11. Treatment planning for the reconstruction of the Atrophic maxilla
    Matteo Chiapasco (Italy)

12. Individualized prosthetic solution for each edentulous patient
    German Gallucci (USA)

13. How to choose the prosthetic options for the edentulous case
    Nitzan Bichacho (Israel)

14. Quality of life aspect
    Pernilla Larsson Gran (Sweden)

13:15 / 14:45 (Sinopoli)
WHEN DO WE NEED TO SUBMERGE?
Chairpersons: Alberto Barlattani (Italy), Hugo De Bruyn (Belgium)

22. Influence of hardware and insertion protocol on hard and soft tissue healing
    Ryo Jimbo (Sweden)

23. Advantages of submerged approach in the aesthetic zone
    Jan Cosyn (Belgium)

24. Indications and limitations to the non-submerged approach
    Robert Haas (Austria)

13:15 / 14:45 (Theatre Studio)
BASIC RESEARCH COMPETITION
Chairpersons: Sandro Pelo (Italy) and Helena Francisco (Portugal)

107. Dental stem cells and angiogenesis: new strategies for tissue engineering
     Ivo Lambrecht* (Belgium), Petra Hilgans, Yanick Fanton, Jessica Rataczak, Wendy Martens,
     Pascal Gervois, Tom Struys, Constantinus Politis, Annelies Bronckaers

108. An osseointegration model in Titanium surfaces previously infected with
     Vanessa Sousa* (United Kingdom), Nikos Mardas, David Boniface, David Spratt, Michel Dard, Nikolaos Donos

     on healing of extraction sockets with buccal dehiscence in dogs
     Eriko Marukawa* (Japan), Ichiro Hatakeyama, Yukinobu Takahashi, Ken Omura

110. Osteoinductive biomimetic calcium phosphate bone substitute for bone regeneration
     Yuelian Liu* (Netherlands), Tie Liu, Gang Wu, Daniel Wismeijer

111. Porous silicon particles as a bioresorbable scaffold for dental pulp stem cells:
     preclinical application for bone tissue engineering
     Matthieu Renaud* (France), Pierre-Yves Collart Dutilleul, Coline Pons, Ivan Panayotov, Philippe Bousquet, Frédéric Cuisinier

112. Development of a novel Strontium containing injectable bone substitute for dental applications
     Alessia D’Onofrio* (United Kingdom), Niall Kent, Shakerel Shahdad, Robert Hill, Jie Liu, Simon Rawlinson

113. Novel biomimetic surfaces through protein selective adsorption via immobilised
     anti-Fibronectin aptamers
     Carlo Galli, Simone Lunetti, Edoardo Manfredi, Arianna Smerieri, Guido Macaluso, Carlo Galli* (Italy)
13:15 / 14:45 [Petrassi]

**ORAL COMMUNICATIONS**

**CLINICAL RESEARCH COMPETITION – PROSTHETICALLY ORIENTED (PART 1)**

Chairpersons: Hom Lay Wang (USA), Georg Watzek (Austria)

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**[85]** Retention of zirconium oxide restorations on titanium bases using different luting cements
Tommaso Linkovitz (Lithuania), Audrius Caplikas, Irma Dumbryste.

**[86]** Combined Alumina-Zirconia implant-supported single tooth restorations in anterior areas: A 8 Years Clinical Results
Mario Imburgia (Italy)

**[87]** Immediate loading of two dental implants, in edentulous mandibles, with Locator®-Attachments or Dolder® bars: 1-year results from a RCT
Stefanie Kappel (Germany), Lydia Eberhard, Nikolaos Nikitas Giannakopoulos, Peter Rammelsberg, Constantin Eiffler.

**[88]** Influence of abutment material on the color for patients with thin gingival biotype: a prospective evaluation
Diego Lopes, Bressan Erbierio (Italy), Romeo Eugenio.

**[89]** Implant infra-position after 15-year follow-up of Branemark implants in the anterior maxilla in young patients. A prospective cohort study
Nicole Wintsky (Sweden), Karsten Olgaard, Jan-Ivan Smedberg, Christi Engstrom, Torsten Jemt.

**[90]** Correlation between complications and satisfaction level for implant retained mandibular over-denture
Corina Marilena Cristache (Romania), Miha Birlbasa, Andrea Cristina Didilcescu, Gheorghe Cristache, Petru Armean.

**[91]** Platform switching vs regular platform implants. One year results from a RCT
Silvio Mario Meloni (Italy), Milena Psiano, Francesco Maria Lolli, Sascha A. Jovanovic.

**[92]** Microbial colonization of the implant connection with cemented versus screw-retained suprastructures
Jose Viña-Almunia (Spain).

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15:00 / 16:30 [Sinopoli]

**PRACTICE MANAGEMENT SESSION**

Chairpersons: Franck Renouard (France), Nitzan Bichacho (Israel)

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**[25]** Economical and demographic situation in european dentistry
Juan Carlos LLodra (Spain).

**[25]** Leadership and productive teams in dentistry
Elisabeth Kalenderian (United States).

**[25]** The management vision: Total success in dentistry
Primitivo Roig Jornet (Spain).

**[25]** Efficient communication within the team and with the patient for the ideal treatment outcome
Galip Gurel (Turkey).

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15:00 / 16:30 [Santa Cecilia]

**PARALLEL SESSION 1**

**EVALUATION OF AESTHETIC AND FUNCTIONAL LONG-TERM RESULTS.**

Chairpersons: Gil Alcoforado (Portugal) and Jean-Louis Giovannoli (France)

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**[26]** Objective evaluation of aesthetic outcome: different methods.
Rudolf Furrhauser (Austria).

**[27]** Is stable long term aesthetic outcome achievable?
Urs Belser (Switzerland).

**[28]** Could we reduce biologic long term complications of implant supported restorations.
Anne-Marie Roos-Jansåker (Sweden).

**[29]** A comparison of smooth and micro-rough titanium surface: are we on the right track?
Maurizio Tonetti (Italy).
15:00 / 16:30 (THEATRE STUDIO)

ORAL COMMUNICATIONS

CLINICAL RESEARCH COMPETITION – SURGICALLY RELATED

Chairpersons: Søren Schou (Denmark) and Ferruccio Torsello (Italy)

Carlos Eduardo Ferreira* (Brazil), Arthur Balém Novais Jr., Carolina Borges Martinelli,
Camila Cosar Guignone, Túlio Bonna Pignaton

[79] Surgical treatment of peri-implantitis: radiographic evaluation after 12 months follow-up.
David Anssari Moin* (Netherlands)

[80] Commercially available zirconia implants up to and after 7 years of loading –
a retrospective clinical study with regard to survival and success rates.
Stefan Roehling* (United States), Hannette Engelhardt, Stefan Hicklin, Heinz Krähe, Michael Gahlert

[81] The effect of particulated autogenous bone layer combined with bone substitute for
guided bone regeneration in dogs.
In-kyeong Lee* (South Korea), Hyun-chang Lim, Jung-seok Lee, Seong-ho Choi, Jung-kiu Chai, Ui-won Jung

[82] Immediate implant placement with simultaneous socket grafting in the esthetic zone –
10-year clinical and radiographic outcomes.
Ulrike Kuchler* (Switzerland), Reinhard Gruber, Vivianne Chappuis, Daniel Buser, Niklaus P. Lang, Giovanni e Salvi

Yvonne De Waal* (Netherlands)

[84] The “brushing” technique: a novel approach for the coronal advancement of the buccal flap.
Claudio Stacchi, Marco Ronda* (Italy)

15:00 / 16:30 (Petrassi)

ORAL COMMUNICATIONS

CLINICAL RESEARCH COMPETITION – PROSTHETICALLY ORIENTED (PART 2)

Chairpersons: Hom Lay Wang (USA), Georg Watzek (Austria)

[93] Oral-health-related quality of life changes of immediately loaded single implants
in the esthetic zone: a 5-year prospective study.
Stefanie Raes* (Belgium), Filip Raes, Lyndon Cooper, Luis Giner-Tarrida, Joan Soliva-Garriga,
Jan Cosyn, Hugo De Bruyn

[94] Customized pick-up technique and reproducibility of periimplant soft tissues architecture
in anterior area: a 2-years prospective study.
Diego Lops* (Italy), Nicolò Cea, Eugenio Romeo

[95] Improved cementation technique for implant restorations to avoid periimplant cement remnants :
clinical and microscopical evaluation with two different abutment design.
Roberto Cocchetto* (Italy)

[96] Clinical and radiographic outcomes in maxillary single-implant treatment with different
customized abutments: a 1-year prospective study.
Tiago Borges*, Joana Xavier (Portugal), Agata Carvalho, Vasco Carvalho

[97] Influence of crown-implant ratio on implant success rates and crestal bone levels after
3- to 5- years of follow-up.
Alessandro Cucchi* (Italy), Giovanni Rigoni, Manuele Ricci, Daniele De Santis

[98] Single crowns supported by short (6 mm) dental implants in the posterior region:
a 3-year prospective study.
Gustavo Frainer Barbosa* (Brazil), Eduardo Aydos Villaninho, Diego Fernandes Triches, Fernando
Rizzo Alonso, Luis André Mazzomo, Eduardo Rolim Teixeira, Rosemary Sadami Arai Shinkai

[99] Clinical evaluation of Implant position accuracy with intraoral and laboratory scanners.
Vygandas Rutkus* (Lithuania)

16:45 / 18:45

SATELLITE INDUSTRY SYMPOSIA (see detail page 23)
SATURDAY, 27TH SEPTEMBER

08:00 / 10:45 [PETRASSI]  COLLABORATIVE SOCIETIES PROGRAMME

SICOI, SIDCO & SIO: RISK FACTORS IN IMPLANT DENTISTRY: HOW TO PREVENT IMPLANT FAILURES
Chairpersons: Ugo Covani (Italy) Guiseppe Luongo (Italy) and Gilberto Sammartino (Italy)

[46] Implants and systemic diseases: current trends  
Carlo Maiorana (Italy)

[47] How to prevent surgical complications in oral implantology  
Alessandro Rossi (Italy)

[48] How to prevent implant aesthetic failures  
Matteo Capelli (Italy)

08:45 / 10:15 [SANTA CECILIA]  ARENA 4

REDUCING TREATMENT TIME: IS IT ALWAYS A MUST?
Chairpersons: Theodoros Kapos (United Kingdom), Jose Manuel Navarro (Spain)

[15-16-17] Session topic will be discussed by:  
Tiziano Testori (Italy), Paolo Casentini (Italy), Danis Tarnow (USA)

08:45 / 10:15 [SINOPOLI]  PARALLEL SESSION 2

BONE AUGMENTATION DILEMMAS
Chairpersons: Pascal Valentini (France), Carlo Maiorana (Italy)

[30] Prosthetic compensation to avoid augmentation procedures  
Eric Van Dooren (Belgium)

[31] When do we need autogenous bone?  
Andreas Stavropoulos (Denmark)

[32] Current indications to resorbable and non resorbable membranes in GBR  
Mario Beretta (Italy)

[33] Vertical ridge augmentation: limits and indications and long term results  
Massimo Simion (Italy), Frank Renouard (France)

08:45 / 10:15 [THEATRE STUDIO]  ORAL COMMUNICATIONS

POSTER PRESENTATION
Chairperson: Luigi Guida (Italy), Joseph Kan (USA)

[114] 5 year follow-up from a prospective multicentre study replacing single anterior teeth with narrow, 3.0 mm diameter, implants.  
Pablo Galindo-Moreno* (Spain), Peter Nilsson, Paul King, Jesper Øland, Carlo Maiorana, Alexander Schramm

[115] Pink Esthetic Score outcome of immediate and early implant placement in a randomized clinical trial.  
Dominik Rieder* (Germany), Friedrich Graef, Jochen Eggert, Manfred Wichmann, Siegfried Heckmann
Efficacy of different cleaning methods on the titanium surface in failed implants: in vitro study.
Burak Demiralp* (Turkey), Sema Sezgin Hakki, Gulsah Tatar, Niyazi Dundar

Thermal effects of a combined irrigation method during implant site drilling. A standardized in vitro study using a bovine rib model.
Georg D. Strbac* (Austria), Katharina Giannis, Ewald Unger, Manfred Bijak, Rene Donner, Martina Mittlboeck, Christoph Vasak, Werner Zechner

Esthetic evaluation of flapless single-tooth implants in the anterior maxilla using guided surgery: association of 3D accuracy and pink esthetic score.
Georg Malath-Pokorny* (Austria), Rudolf Forhauser, Robert Haas, Dieter Busenlechner, Georg Watzek, Bernhard Pommer

Potential risk indicators for pathological bone loss.
Mauricio Pereira* (Brazil), Haline Dalago, Guenther Schultd Filho, Abraão Prado, Mônica Rodrigues, Suzane Jacob, João Victor Furtado, Nilton De Bortoli Jr., Marco Aurélio Bianchini

Masticatory ability of overdentures wearers retained by conventional or mini dental implants.
Tatiana Cunha* (Brazil), Adriana Ribeiro, Maria Paula Della Vecchia, Danilo Sorgini, Andrea Reis, Valdir Muglia, Raphael De Souza, Carmen Cardoso, Rubens Albuquerque junior

Postoperative pain and discomfort following insertion of different implants for the retention of overdentures.
Adriana Ribeiro* (Brazil), Maria Paula Della Vecchia, Tatiana Cunha, Danilo Sorgini, Andrea Reis, Valdir Muglia, Rubens Albuquerque junior, Raphael De Souza

Stability of the trabecular metal dental implant in early loading cases - preliminary results of a prospective randomized clinical study.
Tasso Von Haussen* (Germany), Jürgen Becker, Torsten Reichert, Wilfried Wagner

Success rate of osseointegrated implants placed in atrophic maxillae reconstructed by means of autogenous bone grafts obtained from the calvaria.
Francisley A Souza* (Brazil), Janice C Quiles, Eduardo Vedovatto, Ana Paula F Bassi, Marilize A Carvalho, Marco T França, Edilmo R Garcia-Junior, Helena H Nínia, Renato S Nishioka, Paulo Sérgio P Carvalho

Onlay bone grafts fixation and integration with n-butil-2-cyanoacrilate, positional screws or lag screws. A biomolecular study in rabbits.
Luiz A. Salata, Evandro Carneiro Martins Neto, Alex Martins Machado* (Brazil), Antonio Azoube Antunes

SPQR: WHAT DO WE NEED FOR OUR PATIENT: WHEN DO WE NEED IMPLANTS AND WHAT ARE THE HEALTH AND SOCIAL IMPLICATIONS?
Chairpersons: Luca Cordaro (Italy), Björn Klinge (Sweden)

What else than implants?
Alberto Fonzar (Italy)

Cost benefit of tooth replacement.
Hugo De Bruyn (Belgium)

Implants in the elderly population with reduced financial income.
Frauke Muller (Switzerland)

SIDP & AIOP: ESTHETIC AND FUNCTIONAL REHABILITATION OF THE PERIODONTALLY COMPROMISED TOOTH/DENTITION: THE CONTRIBUTION OF PERIODONTAL TISSUE ENGINEERING AND BIOMIMETIC RECONSTRUCTIONS.
Chairpersons: Leonello Biscaro (Italy) and Mario Roccuzzo (Italy)

The expanding limits of periodontal regeneration in changing tooth prognosis.
Pierpaoalo Cortellini (Italy)
13:00 / 13:15 (SANTA CECILIA)  

AWARDS CEREMONY  
Pascal Valentini (France)

13:15 / 15:15 (SANTA CECILIA)  

PARALLEL SESSION 3  
SOFT TISSUE RECESSIONS AROUND IMPLANTS: PREVENTION AND TREATMENTS  
Chairperson: Franck Schwarz (Germany)

15:15 / 15:20 (SANTA CECILIA)  

CLOSING CEREMONY AND EAO 2015 PRESENTATION  
Björn Klinge (Sweden)
The European Journal of Oral Implantology aims to publish clinical articles related to the science and practice of oral implantology and related areas. The goal is to provide up-to-date evidence-based information to help clinicians in taking the best decisions for their patients. The focus is on reliable clinical articles. Manuscripts describing clinical conditions, patient management, clinical experience, treatment and diagnostic procedures or techniques, economic evaluation, new products and methods are welcome. All manuscripts are peer-reviewed, and priority is given to high-quality studies.

Within the scope, the European Journal of Oral Implantology publishes: systematic reviews and clinical guidelines; clinical studies – randomised controlled clinical trials, cohort and case-control studies; and case reports and clinical procedures.

**Website:** http://ejoj.quintessenz.de/

**Vital statistics**
After four years in print, the European Journal of Oral Implantology received an improved impact factor of 2.571 in 2012.

**Recent issues**
- **Eur J Oral Implantol 2014 Issue 3:** 3 RCTs and 3 clinical articles
- **Eur J Oral Implantol 2014 Supplements:**
  1) XXII SIO International Congress, Digital Technology for Good Clinical Practice in Implant and Prosthetic Dentistry, Milan 7th and 8th February 2014
  2) Patient centered management and optimal number of implants in the treatment of edentulism, A consensus conference, University of Mainz, Germany, 27th and 28th March 2014
GEISTLICH BIOMATERIALS
MANAGEMENT OF EXTRACTION SOCKETS. INSPIRED BY SCIENCE, ESTABLISHED IN DAILY PRACTICE

THE EXTRACTION SOCKET AND ITS RECOVERY
Speaker: Jan Lindhe (Sweden)

It is a well-established fact that after the loss of one or several teeth the alveolar process becomes transformed into an edentulous ridge. In this process the extraction site undergoes quantitative as well as qualitative changes. Thus, (i) the socket walls become remodeled and the volume of the site is reduced to varying degree, (ii) the bundle bone gradually disappears and the space previously occupied by the root complex is replaced with woven bone and subsequently by marrow and a network of lamellar bone.

Attempts were made to counteract the above described tissue alterations by placing various filler material in the fresh extraction socket. The current report will describe aspects of the process in which deproteinized bovine bone mineral becomes integrated in host bone during socket healing and how hereby the volume of the extraction site will remain more or less unchanged. Findings from animal experiments as well as data from trial in humans will be analyzed and discussed.

CLINICAL CONCEPTS IN HANDLING EXTRACTION SOCKETS
Speaker: Dietmar Weng (Germany)

Appropriate management of extraction sockets in implant sites has become a paramount issue in implant dentistry. The knowledge of wound healing sequences after tooth extraction has triggered a series of surgical ideas to deal adequately with the consequences of naturally healing sockets. Since implant insertion with simultaneous bone augmentation always requires high surgical skills and advanced patient compliance, easier protocols for the practitioner are desirable for a predictable and stable result of periimplant hard and soft tissue maintenance. Clinical scenarios which ease surgical demands, avoid excessive augmentation procedures and maximize the esthetic and functional long term success are presented.

For more information please visit: www.geistlich-biomaterials.com/congresses

STRAUMANN
PATIENT EXPECTATIONS CHALLENGE TREATMENT STANDARDS

Moderator: Bjarni Pjetursson (Iceland)

Hard and soft tissue management in periodontology and oral implantology – is there an alternative to autogenous grafts?
Ralf Smeets, Germany

Dental implants and reconstructions: everything in ceramics or as far as we can go to being metal-free
Daniel Thoma, Switzerland

Providing quality of life: meeting patients’ needs for fixed full arch restorations with Straumann® Bone Level components
Paolo Casentini, Italy

Scientific evidence and clinical benefits of titanium-zirconium implants
Stephen Chen, Australia

Please check our website for the speakers’ abstracts, CVs and program updates:
www.straumann.com/eao2014
THURSDAY, 25TH SEPTEMBER
(MORNING)

SUNSTAR GUIDOR
“LESS IS MORE” – A MINIMALLY INVASIVE TECHNIQUE FOR SINUS LIFT SURGERY IN CONJUNCTION WITH IN-SITU HARDENING ALLOPLASTIC BONE GRAFT SUBSTITUTES

Speakers: Angelo Troedhan (Vienna, Austria)

BACKGROUND
Sinus lift procedures follow a trend from invasive surgical protocols with a lateral approach and window preparation towards minimal invasive surgical techniques. DDr Angelo Troedhan and five co-workers with intentionally mixed implant experience reported a 97.65% success rate across 627 implant insertions using piezo-ultrasonics and a novel transcrestal hydrodynamic protocol with simultaneous bone augmentation and implant placement. DDr Angelo Troedhan will outline the protocol, describe the techniques and materials of choice to achieve lower trauma leading to higher consent rates and improved patient satisfaction.

GUIDOR easy-graft alloplastic bone graft system features mouldable from the syringe, alloplastic bone graft materials with unique in-situ hardening. A choice of resorption profiles and graft volumes allow clinicians to select an option perfectly matched to need.

THURSDAY, 25TH SEPTEMBER
(AFTERNOON)

BIOMET 3i

BIOMET 3i INNOVATIVE TREATMENT SOLUTIONS

Moderator: Tiziano Testori

Presented by renowned international speakers:

PERI-IMPLANT HEALTH MANAGEMENT AND TREATMENT
Associate Professor Stefan Fickl, DMD, Priv.-Doz. Dr. med. dent

Dental implants have developed into a successful treatment modality for patients with failing or missing dentition. This also accounts for the periodontally compromised patient, as these patients are often in need of dental implant therapy. As systemic risk factors can hardly be controlled, local considerations have gained interest and will be the focus of clinicians and researchers. This presentation focuses on concepts to reduce biological complications around implants using preventive strategies for soft- and hard-tissue structures including considerations about the implant micro- and macromorphology.

EXTRACTION SITE MANAGEMENT IN THE AESTHETIC ZONE
Daniele Cardaropoli, DDS

After tooth extraction, varying amounts of bone resorption occurs as the edentulous alveolar process undergoes both qualitative and quantitative changes. Particularly in the aesthetic zone, it is important to preserve the dimensions of the post-extraction socket.

The immediate placement of dental implants in fresh extraction sites cannot prevent the natural resorption of the ridge, but grafting any gaps between the bone and implant with a bone substitute can better compensate for marginal ridge remodelling than implant installation alone.

PROSTHETIC STRATEGIES FOR GUIDED TISSUE PRESERVATION™ OF IMMEDIATE POSTEXTRACTION SOCKET IMPLANTS IN THE AESTHETIC ZONE
Associate Professor Stephen J. Chu, DMD, MSD, CDT

Implant dentistry is continuously evolving, offering new and more predictable forms of therapy with minimally invasive protocols. Innovative techniques now allow for better aesthetics, decreased treatment time, and greater patient comfort. However, these new techniques and therapies continue to raise questions and concerns regarding the risk and rewards of each. This lecture will address current concepts, techniques, clinical research, histologic evidence, and innovations in immediate implant placement and provisional restoration, exploring how they can enhance treatment procedures, time, and clinical outcomes for greater patient comfort, care, and satisfaction.
DENTSPLY IMPLANTS
QUALITY OF LIFE AND EVOLUTION IN IMPLANT DENTISTRY

Speakers: Irena Sailer (Switzerland), Anne Benhamou (France), Ingeborg De Kok (USA), Jocelyne Feine (Canada)
Moderator: Irena Sailer

We invite you to meet four experienced and dedicated dental professionals discussing quality of life and solutions designed and proven to provide lifelong function and esthetics – implant system evolution featuring surgical simplicity and restorative ease, integrated digital workflows beyond CAD/CAM, and state-of-the-art regenerative solutions.

For this Satellite Symposium, DENTSPLY Implants has developed an exciting new format. Look forward to inspirational talks of the speakers, encouraging dialog and discussions with active participation of the audience.

Inspiration Talks:

**IS GOING «DIGITAL» THE «CONVENTIONAL WAY» OF TOMORROW?**
Irena Sailer (Switzerland)

**REGENERATION IN THE ESTHETIC ZONE – A CLINICAL APPROACH**
Anne Benhamou (France)

**IMPROVING PATIENT CARE – ENHANCEMENTS DRIVE SIMPLICITY**
Ingeborg De Kok (USA)

**SEEING IMPLANT TREATMENT THROUGH THE EYES OF A DENTURE WEARER**
Jocelyne Feine (Canada)

For more information, please visit www.dentsplyimplants.com.

USHIO
PHOTOFUNCTIONALIZATION OF IMPLANT SURFACES: A NOVEL METHOD TO OPTIMIZE IMPLANT–TISSUE COMPATIBILITY

Speakers: Wael Att (School of Dentistry, University of Freiburg, Germany), Takahiro Ogawa (UCLA School of Dentistry, USA), Akiyoshi Funato (Nagisa Clinic, Japan)
Moderator: Wael Att (School of Dentistry, University of Freiburg, Germany)

This symposium will discuss the scientific fundamentals of a chairside, rapid conditioning of dental implants via ultraviolet light (UV) immediately before use. This process, termed as photofunctionalization, induces marked physico-chemical changes of implant surfaces, which manifest biologically an enhanced strength of osseointegration and optimized bone-implant contact when compared to untreated implants. Photofunctionalization has been proven as effective and safe on any titanium-based implant surfaces or materials. Clinically, the speed of osseointegration evaluated by an increase in implant stability per month was 3 to >20 times greater in photofunctionalized implants. Pre-clinical and clinical studies revealed that quality and stability of periimplant marginal bone are improved around photofunctionalized implants. Clearly, the photofunctionalization is gaining a particular importance as it could have a significant impact on therapeutics using implant-related materials. In this context, the application spectrum of photofunctionalization is not only limited to implants, but also to implant abutments and titanium mesh. Although long-term studies are still needed, the current results suggest that photofunctionalization can enhance the outcome of implant therapy.
**FRIDAY, 26TH SEPTEMBER (AFTERNOON)**

**BTI**

**THE TREATMENT OF PERIIMPLANTITIS: EFFECTIVE TREATMENT FOR PERIIMPLANTITIS WITH A HIGH RATE OF SUCCESS USING PREDICTABLE TECHNIQUES**

Speakers: Eduardo Anitua and Daniele Botticelli

BTI’s research team has been working on the prevention and treatment of periimplantitis for the last 15 years. During this conference we will outline our treatment algorithm, which shows significant differences with respect to what is currently being used. We will also present an effective technique for implant extraction and subsequent regeneration of the posterior alveolus with immediate placement of implants.

**NOBEL BIOCARE**

**HELP TREAT MORE PATIENTS’ BETTER IMMEDIATE IMPLANT PLACEMENT**

Take the opportunity to gain insights into the latest technologies and protocols that enable you to treat more patients better. Experiences from world-renowned clinicians and researchers will be shared during the two-hour session.

Moderator: Egon Euwe

Topics and questions to be addressed by the experts include:

**THE SCIENCE AND BIOLOGY OF IMMEDIATE IMPLANT PLACEMENT AND TOOTH REPLACEMENT IN ANTERIOR REGION**
Dr. Joseph Kan

Immediate implant and tooth replacement have become a viable treatment option for replacing failing maxillary anterior teeth. However, potential challenges such as implant and esthetic complications may be encountered. This presentation will focus on the current science, philosophies, and methodologies surrounding these indications including the optimization of esthetic results for immediate tooth replacement procedures.

**MAXIMIZING TREATMENT OUTCOMES FOR IMMEDIATE IMPLANTS USING DIGITAL TOOLS**
Dr. Roland Glauser

Topics to be covered:
How to effectively use 3D imaging in planning for the tooth to be immediately replaced and restored.
Does real time diagnosis and evaluation of treatment complexity provide immediate gratification for Doctor and patient?
Use of digital tools in communication with patient to improve understanding and treatment acceptance.

**MOLAR IMPLANTS: AS SIMPLE AS POSSIBLE, AS EFFECTIVE AS NECESSARY**
Dr. Georg Watzek

This lecture will focus on the advantages and disadvantages of placing single implants in the posterior region at the time of tooth extraction.
Emphasis will be placed on decision and what techniques to be used to minimize the number of treatments. Scientific support for procedure and protocol will also be discussed in this session.

**MANAGING FAILING DENTITIOUS AND THEIR TRANSITIONS TO EDENTULISM**
Dr. Enrico Agliardi

What are the goals in surgical and prosthodontic therapy for the fully edentulous patient when using the All-on-4® treatment concept? Clinical management of patients will be presented by treatment planning, surgical protocols, and fabrication of both provisional and definitive implant-retained prostheses.
BREAKEAST INDUSTRY SYMPOSIUM

FRIDAY, 26TH SEPTEMBER
(MORNING)

OSSTELL ISQ
MONITOR OSSEOINTEGRATION
Moderator: Prof. Mariano Herrero Climent (Spain)

MONITORING OSSEOINTEGRATION: HOW DO YOU PLAN PREDICTABLE LOADING PROTOCOLS?
Monitoring osseointegration is critical to predictable and successful loading protocols. Osstell ISQ is the only objective, reliable and non-invasive way to monitor osseointegration.

THE ISQ-SCALE IN DAILY PRACTICE
Prof. Peter K. Moy (USA)
This presentation will outline the clinical benefits of RFA and Osstell ISQ in daily practice. If you are monitoring osseointegration, you will often be able to reduce treatment time and avoid premature loading. In addition, you will be able to treat risk patients in a more predictable way. The presentation will include an explanation of the ISQ Scale, and the evidence which supports it. In addition, you will learn how to use the scale to achieve real clinical benefits in your practice.

MONITORING OSSEOINTEGRATION: A DYNAMIC BIOLOGICAL PROCESS
Prof. Mauro Labanca (Italy)
Osseointegration is a dynamic and biological process that should be monitored in order to develop predictable loading protocols customized for each of your implant patients. Torque is a one-time, static measurement of mechanical stability, shear forces and friction. This presentation will also describe the relationship between ISQ and other factors such as micro mobility and BIC (bone to implant contact). The presentation will include information about how ISQ can be integrated with other implant diagnostics to provide the best quality treatment plans and care for your patients.

Kick-start your Friday morning with the latest in science, a cup of coffee and some pastry!
HANDS-ON SESSIONS:
(ORGANISED BY THE INDUSTRY)

One of the major objectives of EAO congress new format is to provide opportunity to get in contact with new technologies and promote more practical oriented approaches. EAO has therefore decided to offer the opportunity to attend practical “Hands-On” session. The aim of these sessions is to promote new techniques, bring a personal training with rich experience on patient work by most renowned experts. These courses are organized by EAO’s partners.

Attendance: only upon registration (90€ VAT excluded).

FRIDAY, 26TH SEPTEMBER

CORTEX
NEW CORTEX «WINGED» IMPLANT (SATURN)

Speaker: Paolo Trisi, Italy

7:45 / 10:15
or 13:15 / 15:45
AUDITORIUM ARTE 2

DENTSPLY IMPLANTS
EFFECTIVE BONE REGENERATION: FROM ATRAUMATIC EXTRACTION TO KHOURY’S SPLIT BONE BLOCK TECHNIQUE

Speaker: Thomas Dietrich (United Kingdom)

Participants will get an overview on effective augmentation techniques for preparing suitable sites for an implantation. Starting with preventive techniques of atraumatic extraction, peri-implant GBR, one- and two-stage bone splitting, and augmentation according to Prof. Khoury's biological technique using split bone blocks will be presented. Learn how to establish a manageable and effective concept as well as a related decision tree for augmentations before implant placement in your daily practice!

In the hands-on training, XiVE® implants will be placed and peri-implant defects grafted with one graft material resorbable membranes. Bone splitting as well as the Khoury technique will be demonstrated using the FRIOS® MicroSaw for alveolar ridge augmentation.

GEISTLICH BIOMATERIALS
EXTRACTION SOCKETS IN DAILY PRACTICE – SIMPLIFY YOUR AUGMENTATION BY BENEFITTING FROM SCIENTIFIC KNOWLEDGE

Speaker: Dietmar Weng (Germany)

- The most important scientific insights at a glance.
- Why to use well documented biomaterials.
- Straightforward surgical technique for your daily practice.
**Nobel Biocare**

**Temporary Solutions – How to Avoid Pitfalls in the Design for an Optimal Provisional Restoration**

Speaker: Roland Glauser

**Learning Objectives:**
- Biologic & prosthetic rationales behind ideal implant positioning
- What to take into consideration to optimize provisional restorations and final outcomes
- Protocols & products for optimally and non-optimally positioned implants

**Zimmer Dental**

**Advanced Soft Tissue Management in Ridge Augmentation**

**Part I: Interactive Lecture**

Speaker: Marco Ronda (Italy)

- Treatment planning and patient/site selection for grafting procedures
- Flap design, incision and suturing
- Resorbable and non-resorbable membranes for vertical and horizontal ridge augmentation
- Simultaneous implant placement
- Soft tissue management after graft healing
- Graft augmentation complications and their treatment

**Part II: Hands-on Workshop on Pig Jaws**

Speaker: Marco Ronda (Italy)

Topics:
- Soft tissue management and flap design
- Bone regeneration with resorbable membrane
- Horizontal ridge augmentation with simultaneous implant placement (Tapered Screw-Vent® Implant System) and resorbable membrane (CopiOs® Pericardium Membrane)
- Connective graft technique

**Dentsply Implants**

**The Complete Digital Workflow Becomes Reality: A Hands-on Workshop Combining SIMPLANT® and ATLANTIS™ Abutment**

Speaker: Goran Benic (Switzerland)

Participants will experience a clinical and technical application of the combination of computer guided implant treatment and a customized abutment in one treatment step. By using SIMPLANT® planning and guided surgery, ASTRA TECH Implant System™ EV implants can be placed with predictability and the pre-operatively delivered ATLANTIS Abutment is accurately positioned. Participants to this workshop don’t require any technical knowledge or previous experience with SIMPLANT® or ATLANTIS™. Discover the complete digital workflow!

**Geistlich Biomaterials**

**Fence Technique: A New Regenerative Procedure with Biomaterials for 3D Reconstruction. Indications, Advantages and Limits**

Speaker: Mauro Merli, (Italy)

- Scientific background of indications, advantages and limits.
- Surgical videos illustrating the technique step by step.
- Hands-on exercise on animal models.
SATURDAY, 27TH SEPTEMBER

DENTSPLY IMPLANTS
IMMEDIATE LOADING WITH THE WELDONE(TM) TECHNIQUE

Speaker: Marco Degidi (Italy)

7:45 / 10:15
STUDIO 1

The WeldOne treatment concept enables implant professionals to create temporary as well as durable restorations, reinforced by titanium frameworks welded directly in the mouth of the patient. It is a fast and economical solution to deliver stable, passively fitting partial- and full-arch restorations, suitable for immediate or late loading. Learn about the benefits of this unique concept first hand from the developer and experience the application in a practical hands-on training.

NOBEL BIOCARE
IMPROVING CONFIDENCE IN HARD AND SOFT TISSUE MANAGEMENT

Speaker: Giorgio Tabanella

7:45 / 10:15 or 13:15 / 15:45
STUDIO 2

LEARNING OBJECTIVES:
- Biological and clinical evaluations and protocols to optimize the esthetic results with implant therapy
- Manipulation of hard and soft tissues: practical tips and trick

STRAUMANN
MUCO–GINGIVAL TREATMENTS FOR THE MANAGEMENT OF SOFT TISSUES AROUND TEETH AND IMPLANTS

Speaker: Giovanni Zucchelli (Italy)

7:45 / 10:15
STUDIO 3

Recessions around teeth as well as the appearance of the metallic structure of implants through the thin buccal soft tissues are common reasons for patients esthetic complaints.

Soft tissue plastic surgical procedures and the bilaminar technique in particular can be successfully used to increase the volume of the interdental soft tissue, to treat buccal gingival recessions and soft tissue dehiscences around dental implants, and to provide the implant supported crown - together with the appropriate prosthetics - with an esthetic transmucosal emergence profile.

The expert, Prof. Giovanni Zucchelli, will present 3D videos of surgical techniques to manage soft tissue around teeth and implants. A hands on session on pig jaws will follow, giving the participants the opportunity to practice the coronally advanced flap technique with the application of Straumann® Prefgel® and Straumann® Emdogain®.

STRAUMANN
NEW SURGICAL AND PROSTHETIC SOLUTIONS FOR THE TREATMENT OF FULLY EDENTULOUS PATIENTS: A SIMPLIFIED PROSTHETICALLY-DRIVEN PROTOCOL

Speakers: Paolo Casentini (Italy) and Sergio Piano (Italy)

13:15 / 15:45
STUDIO 3

What are the main needs today of our totally edentulous patients?

Patients are frequently asking for a fixed prosthesis with an esthetically pleasing result and excellent function, with the main goal being to improve their quality of life. Furthermore it is an expectation of many patients that the overall treatment time is minimized and that the associated costs are acceptable.

The experts, Dr. Paolo Casentini and Dr. Sergio Piano, will present a protocol which they have developed in their practice to treat totally edentulous patients or patients with a hopeless residual dentition. The treatment protocol includes immediately loaded temporary or definitive prosthesis which is supported by a reduced number of implants.

The protocol is based on a prosthetically guided concept that starts with a prosthetically driven treatment plan. Newly developed Screw-retained prosthetic components are now available for the Straumann Dental Implant System to optimize the connection between implants and the prosthetic framework. To ensure a result with optimal learning from this workshop, the presentations will be supported with the aid of high-definition video-films showing a practical example of the surgical and prosthetic procedures.

Participants will have the opportunity to practice the procedure in a hands-on session. In this session, participants will insert implants into models with the help of a surgical stent. The new Straumann Screw-retained Prosthetic Components will then be connected to implants in order to compensate for disparralism. Finally, the impression procedure to finalize the prosthesis will be simulated.
INVITED SPEAKERS & CHAIRPERSONS OVERVIEW

FACULTY

CHAIRPERSONS
Gil Alcoforado, (Portugal)
Claudio Arcuri, (Italy)
Alberto Bariattini, (Italy)
Hugo De Bruyn, (Belgium)
Nitzan Bichacho, (Israel)
Leonello Biscaro, (Italy)
Lee Bu-Kyu, (Korea)
Daniel Buser (Switzerland)
Ugo Consolo, (Italy)
Luca Cordaro, (Italy)
Ugo Covani, (Italy)
Helena Francisco (Portugal)
Enrico Gherlone, (Italy)
Jaime Gil, (Spain)
Kim Ginson, (Korea)
Jean-Louis Giovannoli, (France)
Luigi Guida, (Italy)
Rhyu In-Cheol, (Korea)
Park Je-Uk, (Korea)
Ronald Jung, (Switzerland)
Joseph Kan, (USA)
Theodoros Kapos, (United Kingdom)
Sung Kil-Hyun, (Korea)
Björn Klinge, (Sweden)
Guiseppe Luongo, (Italy)
Carlo Maiorana, (Italy)
Jose Manuel Navarro, (Spain)
Ferruccio Torsello, (Italy)
Leonardo Trombetti, (Italy)
Pascal Valentini, (France)
Wilfried Wagner, (Germany)
Hom-Lay Wang, (United States)
Georg Watzek, (Austria)
Hans-Peter Weber, (USA)
Lim Young-Jun, (Korea)

INVITED SPEAKERS
Bilal Al Nawas, (Germany)
Jürgen Becker, (Germany)
Urs Belser, (Switzerland)
Mario Beretta, (Italy)
Nitzan Bichacho, (Israel)
Juan Blanco Carrion, (Spain)
Daniele Botticelli, (Italy)
Kwang Burn Park, (Korea)
Choi Byung-Ho, (Korea)
Francesco Cairo, (Italy)
Paolo Casentini, (Italy)
Emanuele Risiotti, (Italy)
Carlo Maiorana, (Italy)
Park Je-Uk, (Korea)
Ryo Jimbo, (Sweden)
Lee Juneseok, (Korea)
Ui-Won Jung, (Korea)
Ronald Jung, (Switzerland)
Elisabeth Kalenderian, (United States)
Joseph Kan, (United States)
Fouad Khoury, (Germany)
Luca Landi, (Italy)
Pernilla Larsson Gran, (Sweden)
Juan Carlos Llodra, (Spain)
Carlo Maiorana, (Italy)
Paolo Manicone, (Italy)
Dean Morton, (United States)
Frauke Muller, (Switzerland)
Bjarni Pjetursson, (Iceland)
Marc Quirynen, (Belgium)
Leesungbok Richard, (Korea)
Alessandro Rossi, (Italy)
Primitivo Roig Jornet, (Spain)
Anne-Marie Roos-Jansåker, (Sweden)
Friederich Neu kam, (Germany)
Friederich Neukam, (Germany)
Sandro Pelo, (Italy)
Bjarni Pjetursson, (Iceland)
Franck Renouard, (France)
Mario Roccuzzo, (Italy)
Irena Sailer, (Switzerland)
Gilberto Sammartino, (Italy)
Karl Andreas Schlegel, (Germany)
Henning Schliefhake, (Germany)
Søren Schou, (Denmark)
Franck Schwarz, (Germany)
Choi Seong-ho, (Korea)
Alberto Sicilia-Felechosa, (Spain)
Thomas D. Taylor, (USA)
Maurizio Tonetti, (Italy)
Elisabeth Kalenderian, (United States)
Joseph Kan, (United States)
Fouad Khoury, (Germany)
Luca Landi, (Italy)
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Juan Carlos Llodra, (Spain)
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Anne-Marie Roos-Jansåker, (Sweden)
Alessandro Rossi, (Italy)
Karl Andreas Schlegel, (Germany)
David Schneider, (Switzerland)
Massimo Simion, (Italy)
Andreas Stavropoulos, (Denmark)
Joerg Strub, (Germany)
Ali Tahmaseb, (Netherlands)
Denis Tarnow, (United States)
Hendrik Terheyden, (Germany)
Tiziano Testori, (Italy)
Daniel Thoma, (Switzerland)
Maurizio Tonetti, (Italy)
Eric Van Dooren, (Belgium)
Fabio Vignoletti, (Spain)
Hom-Lay Wang, (United States)
Kim Young-Kyun, (Korea)
Ion J. L. Zabalegui, (Spain)
Giovanni Zucchelli, (Italy)
SATELLITE INDUSTRY SYMPOSIUM FACULTY

Enrico Agliardi, (Italy)
Edouardo Anitua, (Spain)
Wael Att, (Germany)
Anne Benhamou, (France)
Daniele Botticelli, (Italy)
Daniele Cardaropoli, (Italy)
Paolo Casentini, (Italy)
Stephen Chen, (Australia)
Stephen Chu, (United States)
Ingeborg De Kok, (United States)
Egon Euwe, (Netherlands)
Joyceline Feine, (Canada)
Stefan Fickl, (Germany)
Akiyoshi Funato, (Japan)
Roland Glauser, (Switzerland)
Mariano Herrero Climent, (Spain)
Joseph Kan, (United States)
Peter K. Moy, (United States)
Mauro Labanca, (Italy)
Jan Lindhe, (Sweden)
Takahiro Ogawa, (United States)
Bjarni Pjetursson, (Iceland)
Irena Sailer, (Switzerland)
Ralf Smeets, (Germany)
Daniel Thoma, (Switzerland)
Angelo Troedhan, (Austria)
Georg Watzek, (Austria)
Dietmar Weng, (Germany)

INDUSTRY SPONSORED HANDS-ON SESSION FACULTY

Goran Benic, (Switzerland)
Paolo Casentini, (Italy)
Marco Degidi, (Italy)
Thomas Dietrich, (United-Kingdom)
Roland Glauser, (Switzerland)
Mauro Merli, (Italy)
Sergio Piano, (Italy)
Marco Ronda, (Italy)
Giorgio Tabanella, (Italy)
Paolo Trisi, (Italy)
Dietmar Weng, (Germany)
Giovanni Zucchelli, (Italy)
THURSDAY, 25TH SEPTEMBER

13:00 / 14:30 (SANTA CECILIA)

MAIN SESSION 1

SPQR – SURGICAL ALTERNATIVES

CHAIRPERSONS

BJARNI PJETURSSON
Prof. Pjetursson, received his DDS from University of Iceland in 1990. From 1990 to 2000 he worked as a general dentist in his private clinic in Iceland. In 2000 he started his postgraduate training in Periodontology and Implant Dentistry at the University of Bern, Switzerland. He received his specialist certificate (EFP & SSP) and Masters of Advanced Studies in Periodontology and Doctorate in Dentistry (Dr. med. dent) from the Faculty of Medicine, University of Bern, Switzerland. From 2003 to 2005 he did his postgraduate training in Prosthodontics at the University of Berne, Switzerland. In 2014 he received his PhD from Faculty of Odontology, University of Iceland. From 2005 he was Assistant Professor and Senior lecturer at the Department of Periodontology and Fixed Prosthodontics, University of Berne. Presently he is a Professor and Chairman of the Department of Reconstructive Dentistry and Dean, Faculty of Odontology, University of Iceland. Dr. Pjetursson is an ITI Fellow and member of the editorial board of Clinical Oral Implants Research, European Journal for Oral Implantology. He has published extensively in resent years. He has also given over 500 lectures in more than 40 countries around the world. His research interests are clinical studies in implant dentistry and evidenced based evaluation of different treatment modalities in implant- and prosthetic dentistry.

LUCA CORDARO
Dr. Luca Cordaro is chair of the Department of Periodontology and Prosthodontics at the Eastman Dental Hospital in Rome. He graduated in Medicine at the University of Roma “La Sapienza” where he also got a degree in Dentistry. He holds a Ph. D. degree and is a certified specialist in oral surgery. He also works, together with his brother, in a private practice founded in 1957 by his father. Dr Cordaro is author or co- author of more than 70 papers published in Italian or international journals and has lectured in Europe, Asia, North and South America. In 2007 he won the H. Goldman Prize for Clinical Research of the Italian Society of Periodontology. He is author of different book chapters and coauthor of the books“The SAC classification in Implant Dentistry” and ITI Treatment Guide 7 -edited by Quintessence. He is active member of the Italian Society of Osseointegration and Fellow of the ITI (International Team for Implantology). In the ITI he serves as member of the Board of Directors, Chairman of the Study Club Committee and Chairman for the Italian Section. He has been elected in the EAO Board in 2010 and serves as Chair of the Congress committee and Secretary General. His professional interests are Periodontology, Implantology and Oral surgery with a special interest regarding the reconstructive treatament of alveolar atrophies.
SPEAKERS

**JUAN BLANCO CARRION**
- 1986 - Graduated in Medicine (MD), University of Santiago de Compostela (USC)
- 1988 - Specialist in Stomatology (DDS). (USC)
- 1995 - Doctor (PhD) in Odontology (UCM).
- Director of the Master in Periodontology and Implantology (USC).
- Director of the Continuing Education Program of Periodontology (USC).
- President of the ITI Iberian Section. (2010-2014)

**JOSEPH KAN**
Dr. Kan completed Prosthodontics and Implant Surgery from Loma Linda University School of Dentistry. He is a Professor and maintains a private practice. He is on the Editorial Board of The International Journal of Periodontics and Restorative Dentistry, and The International Journal of Esthetic Dentistry. Dr. Kan honors include the 1997 Best Research Award from the Academy of Osseointegration, the 2003 Judson Hinckey Award from the Journal of Prosthetic Dentistry and the 2005 Robert James Implant Achievement Award. He has published over 75 reference articles and textbooks chapters with emphasis on periodontal tissue management, immediate and delayed tooth replacement, and esthetics implant treatment planning.

**MARIO ROCCUZZO**
Mario Roccuzzo is Lecturer in Periodontology at the University of Siena, member of the attending staff in Department of Maxillofacial Surgery at the University of Torino, Italy. He is an active member of the Italian Society of Periodontology, an ITI fellow, a member of the University Programs Committee, and the ITI Study Club director in Torino. He serves on the editorial board of Clinical Oral Implants Research and the International Journal of Esthetic Dentistry. He has lectured extensively in Europe, Russia, South Africa, Americas, Far East and maintains a private practice limited to Periodontology and Implantology in Torino. Awarded for the best clinical presentation on implants in periodontally compromised patients at the 2009 EAO Congress in Montecarlo and for the best published research article on the same subject by the DGP (German Society of Periodontology) in 2010. Winner of the 2013 Osteology Clinical Research Prize on Long-term stability of soft tissues around implants following ridge preservation.

**HENDRIK TERHEYDEN**
Professor Dr. Dr. Hendrik Terheyden is Oral & Maxillofacial surgeon and chairman of the Department of Oral & Maxillofacial Surgery at the Red Cross Hospital, Kassel, Germany. After a dental and medical education at the university of Kiel, he specialised in oral and maxillofacial surgery at the university hospital of Kiel, where he worked until 2007 as vice director. His academic teachers were Prof. Dr. Dr. F. Härle and Prof. Dr. J. Wiltfang. His clinical and scientific focuses are bone reformation in proprosthetic / dental implant surgery and reconstructive surgery in oncology. He published more than 300 scientific papers, including several on the application of recombinant BMP for prefabrication of mandibles. Actually Prof. Terheyden is past president of the German Association of Dental Implantology (DGI) and board member of the ITI and the Camlog foundation. He is section editor for implantology of the International Journal of Oral & Maxillofacial Surgery and Co-editor of Implantologie.

**SESSION ABSTRACT:**
There are several hot topics in the surgical phases of implant treatment. A group of experts will be challenged by specific questions asked by the chairmen and will provide answers based on the evidence and on their experience.

What do we know about flapless surgery? Is it really beneficial?
What is the ideal depth of insertion of the implants? How should we deal with uneven crest or with a periodontally compromised tooth adjacent to the planned implant position?
When do we really need extraoral bone harvesting for our augmentation? With simplified surgical reconstructive approach do we still need an expert in bone augmentation in our team?
What are the indications to immediate implants? What about the esthetic outcome with immediate implants?
This session is designed as a debate with an open discussion between the experts and the chairmen. The use of voting devices will help the audience to actively participate.
THURSDAY, 25TH SEPTEMBER

15:00 / 16:30 (SANTA CECILIA) ARENA 1

IS GUIDED SURGERY HERE TO STAY?

CHAIRPERSONS

ALBERTO SICILIA- FELECHOSA
Born in Rome in 23-02-1956, Prof. Claudio Arcuri graduated with distinction as Medical Doctor in 1980 and specialised Professor and Head Section of Periodontology, University Clinic of Dentistry, Faculty of Medicine and Health Sciences of Oviedo, Spain. Medical Director Clinica Sicilia, Oviedo, Spain. Board Director of the European Association of Osseointegration.

SPEAKERS

RONALD JUNG
Ronald Jung is trained in oral surgery, prosthodontics and implant therapy. He is currently Vice Chairman of the Department of Fixed & Removable Prosthodontics and Dental Material Sciences at the University of Zurich in Switzerland (Chairman: Prof. Dr. Ch Hämmerle). In 2008 he was working as Visiting Associate Professor at the Department of Periodontics at the University of Texas Health Science Center at San Antonio, USA (Chairman: Prof. Dr. D. Cochran). He finalized his “Habilitation” (venia legendi) in dental medicine and was appointed associate professor at the University of Zurich. In 2011 he became his PhD doctorate degree of the University of Amsterdam, ACTA dental school, The Netherlands. In 2013 he worked as visiting Associate Professor at the Department of Restorative Dentistry and Biomaterials Sciences at Harvard School of Dental Medicine in Boston, USA. He is an accomplished and internationally renowned lecturer and researcher, best known for his work in the field of hard and soft tissue management and his research on new technologies in implant dentistry.

MARC QUIRYNEN
Professor M. Quirynen graduated in 1980 as dentist at the Catholic University of Leuven and finished in 1984 his training in periodontology at the department of Periodontology (Catholic University Leuven). In 1986 he presented his Ph. D. entitled: Anatomical and inflammatory factors influence bacterial plaque growth and retention in man. In 1990 he was appointed professor at the Faculty of Medicine of the Catholic University of Leuven to teach periodontology and anatomy. His research deals mainly with oral microbiology (with special attention to the influence of surface characteristics on bacterial adhesion and the effect of antiseptics), oral malodour, simplification & optimization of periodontal therapy including implant surgery. He published over 300 full papers in international peer-reviewed journals. He is member of the editorial board of the Journal of Clinical Periodontology (associate editor), Clinical Oral implants Research, Journal of Dental Research, Periodontal Practice Today & Parodontologie.

ALI TAHMASEB
Ali Tahmaseb began his dental education at the university of Ghent (Belgium) in 1988 and graduated as dentist in 1993. He followed postgraduate program in orthodontics, till 1996. He followed trainings in implant dentistry in different academic centers in US and Europe (UCLA, NYU, University of Bern) between 1996 and 2000. He started his PhD program in 2007 at University of Amsterdam, ACTA under supervision of Prof. Wismeijer and completed in 2011, where he also has been teaching as associate professor in the special master program for implantology. He is a Dutch Implantology Association (NVOI) registered implantologist and works, since 2000, in his referral offices for dental implants in Tilburg, Netherlands and Antwerp, Belgium. He is primary in guided surgery at the university of Amsterdam. As ITI-fellow and Officer, he has participated in several education and research protocols and Consensus meeting in different topics. He is also currently associate editor of Forum Implantologicum, ITI’s official scientific journal. His main research interest is in the fields of guided surgery, CAD/CAM; bone regeneration around dental implants and guided bone regeneration. He has authored and co-authored in several publications and have lectured in different international occasions around the world.
SESSION ABSTRACT

There are different approaches in dental implant therapy to achieve the same goal: best final outcome for the patient from an aesthetic, biological and functional perspective. The key to success comes from the ability of the dental professional to be able to place the head of the implant fixture in the most adequate position in the 3 axes of the space in relation to the final prostheses. In order to help to achieve this with accuracy, the dental profession has developed different tools from surgical stents to guided surgical protocols. On one hand, guided implant surgery hasn’t been able to break in routine clinical practice despite its enormous potential applications. The accuracy of these techniques has varying results that really call into question its reliability. These inaccuracies occur during different steps from preparing and planning to the actual surgery. However, through new developments in digital technology in dentistry, there could be new opportunities, which could contribute in improving the shortcomings of these techniques. On the other, the so-called “mental navigation” is widely used among experienced clinicians. Whether guided surgical protocols are more accurate than a mentally-driven protocols depends on many variables, including the experience of the surgeon in both protocols. We will be discussing the pros and cons of each protocol taking into account accuracy, cost, patient satisfaction and final outcome. The point of view of four different experienced therapists will be presented in an interactive way, while they give answer to the most relevant questions you could have related to this topic. In this lecture there will be emphasis on the possible reasons for inaccuracies and potential solutions based on clinical research and on the surgeons clinical experience.
THURSDAY, 25TH SEPTEMBER

15:00 / 16:15 [ SINOPOLI ]

TREATMENT OF TECHNICAL AND BIOLOGICAL COMPLICATIONS

CHAIRPERSONS

HENNING SCHLIEPHAKE
Henning Schliephake received his training in Oral Maxillofacial Surgery and Facial Plastic Surgery from 1989 to 1996 at the Medical University Hannover, where he also did his PhD degree on in-vivo cultivation of bone in 1995. He became full professor and chair of the Department of Oral Maxillofacial Surgery at the Georg August University in Göttingen in 2001. He has chaired several scientific associations. Currently he is president of the German Society of Dental Oral and Craniomandibular Sciences (DGZMK) and is chairing the Straßburg Osteosynthesis Research Group (S.O.R.G.). He is member of the editorial board of a couple of scientific journals such as the International Journal of Oral and Maxillofacial Surgery and Oral Oncology. His research foci are reconstructive microsurgery and Quality of Life in head and neck oncology as well as tissue engineering, growth factors and biomaterials.

HANS-PETER WEBER
Dr. Weber is Professor and Chair of the Department of Prosthodontics and Operative Dentistry at Tufts School of Dental Medicine. He holds dental degrees from the University of Berne, Switzerland (1976) and the Harvard School of Dental Medicine (1990), as well as Certificates in Prosthodontics (1979) and Periodontology (1984) from the University of Berne. Besides his administrative duties as department chair, he is actively involved in research and teaching at Tufts and sees patients for dental implant and prosthodontic care in part-time private practice in Boston. He has made numerous contributions to the scientific literature and is a regularly invited presenter at national and international meetings. He is a Co-Editor of "Clinical Oral Implants Research" and serves on the review boards of several other journals. Dr. Weber is the Immediate Past President of the Academy of Prosthodontics and an Honarary Member of the American College of Prosthodontists. He also serves on the Board of Directors of the International Team for Implantology (ITI).

SPEAKERS

(53) ELLIOTT BALLANTYNE
BISPHOSPHONATES: POSSIBLE MODES OF ACTION AND IMPLICATIONS FOR DENTAL IMPLANT TREATMENT. A REVIEW OF THE LITERATURE

(55) MIA RAKIC
OPPORTUNISTIC PATHOGENS (E. FAECALIS AND P. AERUGINOSA) AT INTERNAL AND EXTERNAL IMPLANT PORTIONS IN PERI–IMPLANT DISEASE: A CROSS–SECTIONAL STUDY

(57) AKIRA MATSUO
CLINICAL INVESTIGATION OF DENTAL IMPLANT TREATMENTS IN PATIENTS ADMINISTERED WITH BISPHOSPHONATES

(54) HAIPENG SUN
THE CLINICAL RESEARCH OF MAXILLARY SINUS AUGMENTATION WITHOUT USING BONE GRAFT MATERIALS: A 1–3 YEARS RETROSPECTIVE STUDY WITH BICON IMPLANTS

(56) LUIGI CANULLO
STUDY OF THE RELATIONS BETWEEN TRIGGERING FACTORS OF PERIIMPLANTITIS AND CLINICAL, RADIOGRAPHIC AND MICROBIOLOGICAL CONDITIONS OF DISEASED IMPLANTS

(58) FERNANDA FAOT
INFLAMMATORY CYTOKINES AS DIAGNOSTIC INDICATORS OF PERI–IMPLANT DISEASES: SYSTEMATIC REVIEW AND META–ANALYSIS
IMPLANT INSERTION AFTER TOOTH EXTRACTION

CHAIRPERSONS

CLAUDIO ARCURI
Born in Rome in 23-02-1956, Prof. Claudio Arcuri graduated with distinction as Medical Doctor in 1980 and specialised in Dentistry in 1985 at the University of Rome “Sapienza”. During 1983-1987 he served as Consultant of Parodontology at the S. Giovanni Calibita - Fatebenefratelli Hospital in Rome. Thereafter he was appointed in 1987 as Resident of the Department of Dentistry at the same Hospital and from 2006 he is the Chief of the same Department. In 1990 winner of the public competitive examination for university researcher at Medicine and Surgery Faculty, Class of Degree in Dentistry and Dental Prosthesis of “Tor Vergata” University of Rome. The first of March 2001 enters as second degree professor at C.D.D.D.P. of “Tor Vergata” University of Rome, called by faculty of Medicine and Surgery as regular of chair of Special Odontostomatologic Pathology. From the 1st of November 2003 he is professor of Periodontology of the C.D.D.D.P. of Dentistry in «Tor Vergata» University of Rome. From 01 Feb 2006 he is the Chairman and Director of the Unity of Dentistry in “S. Giovanni Calibita” Fatebenefratelli Hospital of Rome. He took part as reporter in several national and international Conference. He is author of more than 100 scientific publications.

ENRICO GHERLONE
MD and DDS, has dedicated his practice to fixed prosthetodntics and implant rehabilitation. Head of the Department of Dentistry of San Raffaele Hospital in Milan and Full Professor of Clinical Dentistry at the Vita Salute University San Raffaele, Milan, Italy. Vice-Dean of the Faculty of Medicine and Surgery, Dean of the Masters Degree in Dentistry and Dental Implantology, Dean of the Bachelor’s Degree in Dental Hygiene, Vita-Salute San Raffaele University, Milan, Italy. Actually he is President-elect of the Italian College of Professors in Dentistry. From 2009 He is codirector of the Bone Physiopathology Program (BoNetwork), He is Author of several scientific publications (292), with 139 impact-factor papers, and 5 books on Implant and Prosthetic Dentistry. He directed a Research Project of National Interest and he was Coordinator and Scientific Director of 3 Research Project for the Italian Ministry for Health. From 2009 to 2011 he was referee for dentistry area «programming commission» for the Italian Ministry for Health. From 2010 to 2013 he was member of the Italian Superior Council for Health, and from 2012 he is Member of the "Technical Group for Dentistry" of the Italian Ministry of Health. Speaker at many Italian and International meetings and congresses.

SPEAKERS

(59) JENS HARTLEV
PATIENT SATISFACTION AND ESTHETIC OUTCOME AFTER IMMEDIATE PLACEMENT AND PROVISIONALIZATION OF SINGLE-TOOTH IMPLANTS

(61) MARCO CLEMENTINI
IMMEDIATE IMPLANT PLACEMENT TO PRESERVE ALVEOLAR RIDGE DIMENSIONS AFTER TOOTH EXTRACTION: A SYSTEMATIC REVIEW AND META-ANALYSIS.

(60) MARIO IMBURGIA
IMMEDIATE PLACEMENT OF CONICAL CONNECTION IMPLANT AND PROVISIONALIZATION IN ANTERIOR AREA: A 4 YEARS PROSPECTIVE CLINICAL STUDY

(62) DANIEL ROTHAMEL
VERTICAL RIDGE AUGMENTATION BY CALLUS DISTRACTION UNDERNEATH HA-COATED TITANIUM PLATES – PROOF OF PRINCIPLE AND FIRST CLINICAL DATA

(63) JOANA XAVIER
MARGINAL BONE SUPPORT AND SOFT TISSUE OUTCOMES OF IMMEDIATE SINGLE-TOOTH MAXILLARY IMPLANTS: A 1-YEAR PROSPECTIVE STUDY.

(64) RITA MARTON
RADIOPHIC EVALUATION OF A NOVEL SOCKET PRESERVATION TECHNIQUE
LONG-TERM OUTCOME OF IMPLANT RESTORATIONS IN THE AESTHETIC ZONE

CHAIRPERSONS

JAIME GIL
Professor and chairman of prosthodontics. University of the basque country (bilbao – spain).
Member of the ifed executive council.
Board member of the european association for osseointegration (2007-2011).
President of the international college of prosthodontics (2007-2009).
President of the spanish society of prosthodontics (1990-1992).

MEMBER OF THE FOLLOWING INTERNATIONAL ORGANIZATIONS :
- European Academy of Esthetic Dentistry – E.A.E.D.
- European Association for Osseointegration – E.A.O.
- International College of Prosthodontics – I.C.P.
- Spanish Society of Periodontics and Oseointegration – S.E.P.A.
- Spanish Society of Prosthodontics – S.E.P.E.S.
- American Academy of Esthetic Dentistry – A.A.E.D.
- American Academy of Restorative Dentistry – A.A.R.D.
- American Academy of Fixed Prosthodontics – A.A.F.P.

EDITORIAL ACTIVITY:
- Editor in Chief of the Spanish version of the European Journal of Esthetic Dentistry.

Private Practice: Prof. JAIME A. GIL is the Director of the Department of Esthetic Dentistry and Full Mouth Rehabilitation on teeth and implants at the ALBIA DENTAL INSTITUTE in Bilbao.

THOMAS TAYLOR
Dr. Taylor is a graduate of the University of Iowa College Of Dentistry and received his prosthodontic training at the Mayo Clinic. He is currently Professor and Head of the Department of Reconstructive Sciences and serves as Chairman of the Division of Prosthodontics and Operative Dentistry at the University of Connecticut School of Dental Medicine. He is involved in both clinical and laboratory research and has published extensively in the prosthodontic literature. Dr. Taylor is the former prosthodontic editor and abstract editor for the International Journal of Oral and Maxillofacial Implants. He is a diplomate and past president of the American Board of Prosthodontics and currently serves as the Board’s executive director. He is a fellow and past president of the American College of Prosthodontists and immediate past president of the International College of Prosthodontists. He is past president of the Academy of Prosthodontics and president-elect of the Greater New York Academy of Prosthodontics. He is also past president of the International Team for Oral Implantology (ITI).

SPEAKERS

(65) STEFANO TRASARTI
ORAL REHABILITATION IN PATIENT WITH SEVERE BONE LOSS IN THE FRONTAL AREA: CLINICAL REPORT ON 10 CONSECUTIVE TREATED PATIENTS.

(66) JOHANNES KLEMENT
IMMEDIATE FUNCTION OF OSSEOSPEED IMPLANTS IN THE ANTERIOR DENTAL ARCH – 5-YEAR DATA

(67) PATRICIA STOOR
REHABILITATION OF THE SEVERELY ATROPHIED ALVEOLAR RIDGE IN THE AESTHETIC REGION WITH CORTICOCANCELLOUS GRAFTS FROM THE ILIAC CREST AND DENTAL IMPLANTS

(68) TAMMARO ECCELLENTE
ESTHETIC OUTCOME OF MAXILLARY SINGLE-TOOTH IMPLANTS CONSECUTIVE TREATED PATIENTS.

(69) VALENTINA BORGIA
TISSUE STABILITY OF IMPLANTS PLACED IN FRESH EXTRACTION SOCKETS. A 5-YEAR PROSPECTIVE SINGLE COHORT STUDY.

(70) RAMESH CHOWDHARY
EVALUATION OF A SELF CUTTING THREAD DESIGNED AND NON SELF CUTTING THREADED IMPLANTS PLACED IN EXTRACTION SITES WITH IMMEDIATE TEMPORIZATION: A 5-YEAR CLINICAL STUDY.
THURSDAY, 25TH SEPTEMBER

15:00 / 16:15 (CHOIR HALL / CORO)

EAO CERTIFICATION PROGRAMME WORKSHOP

CHAIRPERSONS

GEORG MAILATH-POKORY

- 1979 MD degree, Medical School, University of Vienna
- Specialty board examination in dentistry (DDS)
- 1987 Graduation Special Dentistry and Oral and Maxillofacial Surgery
- 1991 PhD degree oral and maxillofacial medicine, in particular oral surgery.
- 1992 Deputy Head of the Department of oral Surgery at the Dental School of the Medical University of Vienna (Head Univ. Prof. DDr. Georg Watzek).
- 2003 President of the Austrian society for oral surgery and implantology.
- 2004 Opening of the “Academy of oral Implantology” in Vienna
- 2005 Representing Prof. Watzek as head of the postgraduate training for oral implantslogy at the medical university of Vienna
- 2006 - 2009 Board member of the EAO
- 2010 Award of the Ministry of Science for University Professor
- 2011 Managing Partner of the Academy of oral Implantology

Author and co-author of 5 Textbooks and over 100 national and international Publications on oral surgery.

CHANTAL MALEVEZ

M.D, D.D.S, specialist in Maxillo-facial Surgery, Honorary Professor at the Faculty of Medicine (Free University of Brussels : ULB) having been teaching the management of the edentulous patient and implant technologies including bone grafting and zygoma implants protocols.

Clinical chief consultant at the department of Maxillo-facial Surgery and Dentistry at the Children's hospital of Brussels treating congenital maxillo-facial deformities.

Consultant in Implant-based therapy at the Hospital St Jean in Brussels
Member of the team of the cleft palate center at the children’s hospital of Brussels
Member of scientific Societies: E.A.O, Royal Belgian Society of Maxillo-facial Surgery

Lectures internationally and publishes in the fields of implant surgery especially concerning edentulous patients as well as in the field of maxillo-facial congenital deformities

SESSION ABSTRACT

This workshop has been created to help candidates complete the three stages required to obtain the EAO’s Certificate in Implant-based Therapy. It will provide step-by-step guidance on each of the stages.

1. Collecting the data that is required and submitting it to the EAO online:
   - how to fill in the questionnaire
   - what to mention and where
   - how to take the pictures (face, profile right, profile left, etc).
   - which pictures to send
   - which cases to choose

2. Completing the written exam
   Examples of multiple choice questions will be shown from the past exams. Participants will receive 20 questions and answers and will be able to evaluate their own scores, based on these 20 questions.

3. Completing the oral exam
   During this interactive session, G. Mailath, Ch. Malevez and H. Meijer will each present a case and be asked questions about it. This will demonstrate the importance of using scientific rationale to answer the questions. A candidate who has completed the programme will describe the process from his perspective.
EXTRACTING TEETH IN MODERN DENTISTRY: CHANGE IN PARADIGM?

CHAIRPERSONS

RONALD JUNG
Ronald Jung is trained in oral surgery, prosthetodontics and implant therapy. He is currently Vice Chairman of the Department of Fixed & Removable Prosthodontics and Dental Material Sciences at the University of Zurich in Switzerland (Chairman: Prof. Dr. Ch Hämmerle). In 2006 he worked as Visiting Associate Professor at the Department of Periodontics at the University of Texas Heath Science Center at San Antonio, USA (Chairman: Prof. Dr. D. Cochran). 2008 he finalized his „Habilitation“ (venia legendi) in dental medicine and was appointed associate professor at the University of Zürich. In 2011 he became his PhD doctorate degree of the University of Amsterdam, ACTA dental school, The Netherlands. In 2013 he worked as Visiting Associate Professor at the Department of Restorative Dentistry and Biomaterials Sciences at Harvard School of Dental Medicine in Boston, USA. He is an accomplished and internationally renowned lecturer and researcher, best known for his work in the field of hard and soft tissue management and his research on new technologies in implant dentistry.

SPEAKERS

DANIELE BOTTICELLI
Degree in medicine and surgery at the University of Bologna (Italy), specialist license in General Surgery at the University of Modena (Italy), Odont. Dr. (PhD) at Göteborg University (Sweden). Director of “Ariminum Research & Dental Education Center (ARDEC)” in Rimini, (Italy) and Head of the division of Oral Surgery at “ARDEC” (Ariminum Odontologica), Rimini (Italy). Permanent Professor at the post-graduate course, University of the State of São Paulo (UNESP), Faculty of Araçatuba (Brazil). Invited professor at the University of Medical Science of Havana (Cuba). Visiting professor at the University of Lisbon. Professor in the Master of Implantology at Murcia University (Spain). Member of the Editorial Board of the Journal of Clinical Periodontology and of Clinical Oral Implants Research. He has published more than 80 scientific articles on experimental and clinical studies in international scientific journals. His main fields of interest in research are the healing of hard and soft tissues around implants and the healing at implants installed in compromised sites.

WHAT HAPPENS AFTER TOOTH EXTRACTION AND WHAT DO I NEED TO KNOW?

After tooth extraction, a series of events occurs that results in the healing of the alveolus. The intra-alveolar healing starts with the formation of a coagulum that occupies the alveolus immediately after tooth extraction. The clot is progressively substituted by a provisional matrix that functions as scaffold for the woven bone, that forms from the lateral walls and the bottom of the alveolus, to fill completely the extraction socket. Subsequently, the immature bone is converted into mature alveolar bone. The extra-alveolar healing results in vertical and horizontal resorption of the walls of the extraction sockets, process that is more pronounced at the buccal compared to the lingual aspect. The pattern of the intra-alveolar healing is partly modified by the presence of an implant placed immediately into the extraction socket. In fact, the woven bone formation from the lateral walls of the extraction socket stops in close vicinity of the implant surface. The first contact with the newly formed bone, however, starts from the apical regions of the implant surface in primary contact with the native bone and, from there, osseointegration proceeds coronally. This process takes longer time compared to that needed for the healing of a pristine extraction socket without implant. The osteoconductive characteristics of the surface are of great importance.

STEFAN FICKL
Stefan Fickl, DMD, Priv.-Doz. Dr. med. dent

- 2003 Dental degree at University Erlangen, Germany
- 2004 Doctor Thesis
- 2004-2007 Postgraduate Education in Periodontology and Implant Dentistry at the Institute of Periodontology and Implantology (IP), Munich, Germany
- 2007-2009 Assistant Professor in the Department of Periodontology and Implant Dentistry (Chair: Dr. Dennis Tarnow) at New York University, New York, United States
- Since 2009 Associate Professor in the Department of Periodontology, University of Wuerzburg, Germany
- 2011 Habilitation (Privat-Dozent) and Venia legendi
- Dr. Fickl is part of the editorial board of various dental journals, international speaker in the field of Periodontology and Implant Dentistry and author of more than 50 publications and book chapters.

WHY I DO NOT LIKE TO PERFORM ALVEOLAR RIDGE PRESERVATION AND WHY I LET IT HEAL SPONTANEOUSLY?

Tooth extraction is followed by tissue atrophy of surrounding soft- and hard tissues. In particular in the last decade techniques to limit tissue alterations have been proposed (alveolar ridge preservation). Today, it is general consensus, that ridge preservation techniques are able to limit but not entirely avoid tissue shrinkage after tooth removal. However, the advantage of less tissue atrophy when using ridge preservation techniques is also associated with certain disadvantages: First, these techniques are cost-intensive and prolong treatment times when compared to simple tooth extraction. Secondly, clinical evidence has shown that following ridge preservation a re-augmentation during implant surgery is nevertheless frequently necessary. The goal of this presentation is to discuss to pros and cons of alveolar ridge preservation and to show indications where a spontaneous extraction socket healing might be advantageous.
FABIO VIGNOLETTI
DDS. Verona, Italia. CAGS in Periodontology, Universidad Complutense de Madrid. EFP (European federation of Periodontology) Certificate of advanced Periodontal training, European PhD (Dr. Odont),Universidad Complutense de Madrid. Researcher and invited Professor of the Post-graduate program in Periodontology of the Universidad Complutense de Madrid. Active member of the Italian Society of Periodontology. Specialist member of the Spanish Society of Periodontology.

WHY I LIKE TO PERFORM ALVEOLAR RIDGE PRESERVATION?
Over the past 20 years, increasing interest has arisen regarding a therapeutic concept called “alveolar ridge preservation”. This may be defined as any procedure carried out immediately after tooth extraction aimed to preserve the alveolar socket architecture to provide the maximum hard and soft tissues availability. This surgical approach has been introduced into clinical practice with the goal of reducing physiologic hard and soft tissue alterations that occur after tooth extraction. Such reduction should have a potential impact on future restorative treatments. Unfortunately, there are no data suggesting the potential benefit of socket preservation therapies on the long-term survival and success rates of implant supported dental restorations, and no evidence exists on cost-effectiveness, or patients’ quality of life following socket preservation therapy. Nevertheless, there are different clinical indications in which this surgical approach allows the clinician to achieve optimal clinical conditions that may eventually represent a benefit for the patient in terms of lower surgical invasivity or more predictable aesthetic outcomes. The presentation will focus on the indications and benefits of socket preservation as well as the limits of this therapeutical approach.

UELI GRUNDER
Dr. Ueli Grunder received his DMD degree from the University of Zurich, Switzerland, in 1982. His post-graduate education in advanced fixed prosthodontics also came from the University of Zurich, where he is senior lecturer since 1987. He maintains a private practice together with Thomas Gaberthüel from 1989 – 2014 and with David Schneider and Ronald Jung since 2014 in Zollikon-Zurich and has published numerous papers and extensively lectured nationally and internationally on the surgical and prosthetic aspects of implant dentistry. Dr. Grunder is Past-president of the Swiss Society of Oral Implantology (SSOI) and Past-President of the European Academy of Esthetic Dentistry (EAED).

DANIELE CARDAROPOLI
Doctor in Dentistry and Certificate in Periodontology at the University of Torino, Italy. Active Member of Italian Society of Periodontology, European Federation of Periodontology, Italian Society of Osseointegrated Implantology, Academy of Osseointegration and American Academy of Periodontology, Scientific Director of PROED - Institute for Professional Education in Dentistry and Director of the Oral Implantology Department at the “Sedes Sapientae” Clinic in Torino. Winner of the Goldman Award for the Clinical Research and of the National Award in Clinical Orthodontics. Member of the Editorial Board of The International Journal of Periodontics and Restorative Dentistry and of American Journal of Orthodontics & Dentofacial Orthopedics. He lectured in Italy, Europe, US, Asia and Australia. Author of several articles published on peer-reviewed international journals, he has focused his interest on Periodontology, Implantology, Regenerative Therapy and Ortho-Perio Interdisciplinary treatment. Private practice in Torino, Italy

DISCUSSION WITH AN EXPERT
Reduced number and dimension of implants

**Chairpersons**

**Ugo ConsoLO**

**Karl Andreas Schlegel**
KARL ANDREAS SCHLEGEL

SHORT INTRODUCTION TO THE TOPIC

Clinical bone conditions on patients often exhibit prolonged absence of teeth narrow and / or vertically reduced bone situations. On the other hand the rising number of compromised patients, i.e. bisphosphonate patients require a reconsideration of treatment concepts towards a minimised surgical approach. The desire of the surgeon within these cases to use diameter-reduced or short implants is tempting. The presentation will provide an overview of the current state of knowledge regarding reduced diameter and short implants, give respect biomechanical and physiological aspects of this treatment option and its whereabouts in today's implantology.

FOUAD KHOURY

Born in Lebanon 1978: DMD, St. Joseph University, Beirut.
1978-1979: Department of Oral & Maxillofacial Surgery of the University of Freiburg, Germany. 1979-1988: Department of Oral & Maxillofacial Surgery of the University of Muenster, Germany
1984: Diploma in Oral Surgery
1985: Doctorate in Dental Science (German PhD)
1988: Habilitation
1988-1994: Associated Professor at the Department of Oral & Maxillofacial Surgery of the University of Münster, Germany
since 1994: Full Professor at the Department of Oral & Maxillofacial Surgery of the University of Münster, Germany and Chairman of the Privatklinik Schloss Schellenstein, Olsberg, Germany.
Member of Editorial Board of different journals. Several patents and more than 110 Publications, 3 Textbooks and 800 lectures / courses.

AUGMENTATION PRIOR TO IMPLANT PLACEMENT

Autogenous Bone graft is still the gold standard for the reconstruction of severe atrophy of the maxilla or the mandible. Two & 3 dimensional bony defects need for the reconstruction special surgical procedures with autogenous bone grafts to assure at long term an acceptable functional and esthetical result. Autogenous bone graft harvested from inboraal sites and used following the splitted bone block (SBB) technique, is offering many possibilities for intra operative facilities and stable long term results. Splitting the thick cortical block to 2 or 3 thin blocks is augmenting the number of blocks allowing the reconstruction of larger atrophic crest and giving a better adaptation to the recipient site with individual determination of the width and the volume of the grafted area.
Filling the space and gaps between the thin block and the remaining crest with particulate bone chips is reducing the time needed for revascularization of the graft improving its vitality compared to the original thick block. Tunnel approach is reducing the risk of graft exposure in vertical bone augmentation. 10 years results on more of 1381 grafting procedure for horizontal and vertical bone augmentation present a low complication rate and showed that changes of the volume of the grafted bone occurred up to one year after the grafting procedures and stayed stable for more than 10 years. Limited bone resorptions were observed, especially when the bone block was grafted outside the bone contours, but without negative influence on the definitive treatment. Implants inserted in this grafted bone presented similar osseointegration as implants placed in non grafted bone.

BILAL AL NAWAS

Professor Dr. med. Dr. med. dent. Bilal Al-Nawas Full time Professor and Medical Director at the Department of Oral, Maxillofacial and Plastic Surgery at the J. Gutenberg University of Mainz. Since September 2009 Adjunctive Associate Professor at Kyung Hee University School of Dentistry, Seoul, Korea Graduated in Dentistry and Medicine and affiliated to the University of Mainz for more than 15 years. His mayor clinical and scientific focus in dental implantology are clinical studies and basic research. Clinical workfields are compromised patients with risk factors or local bone deficiency, but also tumor and cleft reconstructions. He published over 100 publications in peer reviewed journals and is a Fellow of the ITI Section Germany. In 2006 & 2010 he was awarded: “Best Teacher at the Medical Faculty”. Since 2012 he is speaker of the University Medical Center Focus: BiomaTICS – Biomaterials, Tissues and Cells

REDUCED DIAMETER IMPLANTS

“Minimally invasive surgery” has become a catchword in implant dentistry. Choice of the most appropriate implant diameter remains an important questing in this aspect. Hardware modifications of classical implants as well as the popularity of single piece mini-implants have led to increased interest in this topic. Especially the possible reduction of the rate of augmentations is of high interest and might reduce patient morbidity and costs. On the other hand the use of narrow diameter implants might lead to more technical complications like screw fractures and abutment failures. Based on a meta analysis separate indications for the one-piece, so called “mini-Implants”, compared to the standard two-piece implants have been defined. The other important topic is two piece narrow diameter implants of 3.3 – 3.5 mm, which are within the focus of discussion regarding their use in “highly load bearing” regions. The question whether to augment and insert a regular diameter implant or to insert a narrow diameter implant into native bone has not been studied in a comparative way. Narrow diameter implants offer new treatment options in dental implantology, if used within their specific indications.
DANIEL THOMA

Daniel Thoma is an Associate Professor at the Clinic for Fixed and Removable Prosthodontics and Dental Material Sciences, University of Zurich, Switzerland. He graduated in 2000 at the University of Basel, Switzerland and was trained in implant dentistry and prosthodontics at the Clinic for Fixed and Removable Prosthodontics and Dental Material Sciences, University of Zurich, Switzerland. Dr. Thoma was the recipient of an ITI scholarship and spent 1 year at the Department of Periodontics, University of Texas, Health Science Center, San Antonio, USA. Between 2008 and 2012, he was a full-time Assistant Professor at the Clinic for Fixed and Removable Prosthodontics and Dental Material Science at the University of Zurich, Switzerland. In 2013, he got his venia legendi (Privatdozent) at the University of Zurich and since then serves as an Associate Professor at the Clinic for Fixed and Removable Prosthodontics and Dental Material Science at the University of Zurich, Switzerland.

LENGTH REDUCED IMPLANTS

Implant therapy in sites with a limited ridge height presents challenges to the clinician. At present, sinus floor elevation procedures in the posterior maxilla and vertical ridge augmentation in the posterior mandible in combination with the placement of longer implants are considered as the treatment strategies of choice. In order to overcome limitations and disadvantages associated with these procedures, the use of shorter dental implants has been proposed to avoid extensive bone augmentation surgeries. Newest findings from randomized controlled clinical trials and systematic reviews reveal that the use of shorter dental implants render similar implant survival rates and marginal bone levels changes. However, the use of shorter dental implants might be associated with a reduced patient morbidity and benefits with reduced treatment costs and surgical time.

BJARNI PJETURSSON

Prof. Pjetursson, received his DDS from University of Iceland in 1990. From 1990 to 2000 he worked as a general dentist in his private clinic in Iceland. In 2000 he started his postgraduate training in Periodontology and Implant Dentistry at the University of Bern, Switzerland. He received his specialist certificate (EFP & SSP) and Masters of Advanced Studies in Periodontology and Doctorate in Dentistry (Dr. med. dent) from the Faculty of Medicine, University of Bern, Switzerland. From 2003 to 2005 he did his postgraduate training in Prosthodontics at the University of Berne, Switzerland. In 2014 he received his PhD from Faculty of Odontology, University of Iceland. From 2005 he was Assistant Professor and Senior lecturer at the Department of Periodontology and Fixed Prosthodontics, University of Berne. Presently he is a Professor and Chairman of the Department of Reconstructive Dentistry and Dean, Faculty of Odontology, University of Iceland. Dr. Pjetursson is an ITI Fellow and member of the editorial board of Clinical Oral Implants Research, European Journal for Oral Implantology. He has published extensively in recent years. He has also given over 500 lectures in more than 40 countries around the world. His research interests are clinical studies in implant dentistry and evidenced based evaluation of different treatment modalities in implant- and prosthetic dentistry.

REDUCED NUMBER OF IMPLANTS

In daily practice, dentists routinely face the challenge of making fast and difficult decisions. These are mostly influenced by paradigms dictated by basic dental education and many years of clinical practice. In the dental literature there is a major difference in how many implants are recommended to support different types of reconstructions. For totally edentulous patients the number of implants recommended to support full arch reconstructions in the maxilla ranged from 4 to 22. In the mandible the number of implants utilized for full arch reconstruction ranged from 3 to 18. Hence, it is difficult for clinicians to base their decision on the evidence from the dental literature. When it comes to number of implants needed to support reconstructions concepts like one implant per root and one implant per tooth have been presented. Other authors present the principle of considering the implants as good solid abutments and hence the number of implants needed should not be more then the number of abutment teeth needed to support the same kind of reconstructions. In this lectures the prerequisite for deciding the number of implants needed to support different types of reconstructions will be discussed. Moreover, the question how far we can go in using short and narrow diameter implants in avoiding complicated bone augmentation procedure will be discussed. During this lecture several common clinical situations by partially and totally edentulous patients will be presented and attempts will be made to perform evidence based treatment planning in respect to number and size of implants needed.
FRIDAY, 26TH SEPTEMBER

08:45 / 10:15 (CHOIR HALL / CORO)

CLINICAL RESEARCH COMPETITION – SURGICALLY RELATED

CHAIRPERSONS

DANIEL BUSER
Dr. Daniel Buser is Professor and Chairman at the Department of Oral Surgery at the University of Bern in Switzerland. He spent 3-times a sabbatical at Harvard University in Boston, at Baylor College of Dentistry in Dallas, and at the University of Melbourne. He served as President of various academic associations including the European Association for Osseointegration (EAO) in 1996/97, the Swiss Society of Oral Implantology (SSOI) in 1999-2002, the Swiss Society of Oral Surgery and Stomatology (SSOS) in 2002-07. Most recently, he was President of the ITI (2009-13), the world’s largest association in the field of implant dentistry. He received several scientific awards by professional organizations such as the ITI, the AO, the AAP and the AAOMS. Recently, he was honored by an Honorary Professorship by the University of Buenos Aires (2011) and the Brånemark Osseointegration Foundation in the USA (2013).

WILFRED WAGNER

SPEAKERS

(71) BJÖRN GJELVOLD
AN AESTHETIC EVALUATION OF IMMEDIATE LOADING VERSUS DELAYED LOADING IN SINGLE IMPLANT TREATMENT

(72) LEONARDO AMORFINI
IMMEDIATE LOADED IMPLANTS IN THE REHABILITATION OF MAXILLA WITH GUIDED SURGERY VS. STANDARD PROCEDURE: A TWO YEARS RANDOMIZED CLINICAL TRIAL.

(73) RABAH NEDIR
OSTEOTOME SINUS FLOOR ELEVATION WITHOUT GRAFTING MATERIAL: A 10-YEAR STUDY.

(74) MELLE VROOM
CLINICAL ATTACHMENT LEVEL AS A MEASURE TO DETECT CHANGES IN CLINICAL PERI-IMPLANT CONDITION: A 12-YEAR LONGITUDINAL STUDY.

(75) MARCO TALLARICO
THREE-YEAR POST LOADING RESULTS OF A SPLIT-MOUTH CLINICAL TRIAL COMPARING MARGINAL BONE LOSS AROUND TWO DIFFERENT IMPLANT DESIGNS

(76) ELISE ZUIDERVELD
RANDOMIZED CONTROLLED CLINICAL TRIAL OF SINGLE IMMEDIATE IMPLANTS IN THE AESTHETIC ZONE WITH OR WITHOUT SOFT TISSUE GRAFTING: PRELIMINARY RESULTS

(77) ALEXIS IOANNIDIS
TITANIUM-ZIRCONIUM NARROW-DIAMETER VERSUS TITANIUM REGULAR-DIAMETER IMPLANTS FOR ANTERIOR AND PREMOLAR SINGLE CROWNS: 3-YEAR RESULTS OF A RANDOMIZED CONTROLLED STUDY
FRIDAY, 26TH SEPTEMBER

08:45 / 10:15  (PETRASSI)

ORAL COMMUNICATIONS

BASIC RESEARCH COMPETITION

CHAIRPERSONS

FRIEDERICH NEUKAM
Professor Friedrich Neukam received a DMD degree from Mainz University in 1976 and the MD degree in 1984 and PhD in 1994 from Hannover University. He trained in Oral and Maxillofacial Surgery and was a Senior Staff member at Hannover University Medical School. Since 1995 he has served as Chairman and Head at the Department of Oral and Cranio-Maxillofacial Surgery at Erlangen-Nuremberg University Dental School. He served as President of the Germany Society of Implantology, General Secretary and President of the European Association of Osseointegration and has been Editor-in-Chief of the Journal Oral and Maxillofacial Surgery since 2008. He has lectured nationally and internationally and is the author of numerous publications. In June 2010 Athens Medical University awarded him an honorary doctorate. Prof. Neukam has been Vice-Dean for Finances at the Medical Faculty of Erlangen-Nuremberg University. His clinical work focuses on the treatment of cleft lip and palate, orthognatic surgery, tumour surgery, implant dentistry and bone grafting in combination with implants.

MAURIZIO TONETTI
Qualifications: DMD (Genova, Italy), PhD (Berne, Switzerland), MMSc (Harvard, USA), FRCPs, FRCs(England) Current position: Executive Director, European Research Group on Periodontology (EJGOradi). Formerly, professor and Head, Department of Periodontology, School of Dental Medicine, University of Connecticut Health Science Centre. Professor and Head, Department of Periodontology at University College London – UK. Adjunct Professor, University of Berne – Switzerland, and University of North Carolina at Chapel Hill – USA. He serves as Editor in Chief of the Journal of Clinical Periodontology and President of the Italian Society of Periodontology and Implant Dentistry (SIdP). Clinical activity: a specialist in Periodontology maintains a part-time private practice limited to Periodontology and implant surgery with emphasis on regeneration, minimally invasive surgery and microsurgery. The focus of his recent research activities has been twofold: regeneration and bio-engineering of lost periodontal structures and incorporation of dental implants in the management of periodontal patients. The research of his team has spanned from fundamental discovery to clinical translation. He has been widely recognized for his contributions to improved periodontal diagnosis and risk assessment, control of periodontitis, the practice of periodontal regeneration and design and execution of large clinical trials in Periodontology and Implant Dentistry. He is considered as one of the most influential periodontists worldwide. He has been engaged worldwide in the planning and delivery of advanced educational programs in the fields of Periodontology and Implant Dentistry.

SPEAKERS

(100) XIN WANG
VERTICAL BONE AUGMENTATION INDUCED BY THE NOVEL BIOACTIVE COATED MINI IMPLANTS IN A RABBIT CALVARIAL MODEL

(101) DAVID PENARROCHA
MICROBIOLOGICAL AND CLINICAL FINDINGS OF HEALTHY AND DISEASED IMPLANTS

(102) VÉRONIQUE CHRISTIAENS
CAN WE PREDICT EARLY IMPLANT FAILURE BASED ON GENETICS?

(103) SIDDHARTH SHANBHAG
OSTEOGENIC POTENTIAL OF HUMAN GINGIVAL-DERIVED MESENCHYMAL STEM CELLS AND 3D BIOACTIVE GLASS SCAFFOLDS FOR BONE TISSUE ENGINEERING APPLICATIONS

(104) OMER COHEN
DIFFERENCES IN CRESTAL BONE TO IMPLANT CONTACT FOLLOWING UNDER-DRILLING COMPARED TO OVER-DRILLING PROTOCOL. A STUDY IN THE RABBIT TibIA

(105) ANA MESSIAS
EFFECT OF INTENTIONAL ABUTMENT DIS-CONNECTION ON THE MICROMOVEMENTS OF THE IMPLANT-ABUTMENT ASSEMBLY AND SCREW THREAD MORPHOLOGY

(106) TAKAO WATANABE
OSSEOINTEGRATION WITH NEW BONE IN THE SINUS-LIFT AND SIMULTANEOUS IMPLANT PLACEMENT WITHOUT BONE SUBSTITUTE. AN EXPERIMENT USING CANINE FRONTAL SINUS
FRIDAY, 26TH SEPTEMBER

킵 10:45 / 12:15 (SANTA CECILIA)

SPQR: PROSTHETIC ALTERNATIVES

CHAIRPERSONS

LUCA CORDARO
Dr. Luca Cordaro is chair of the Department of Periodontology and Prosthodontics at the Eastman Dental Hospital in Rome. He graduated in Medicine at the University of Roma “La Sapienza” where he also got a degree in Dentistry. He holds a Ph. D. degree and is a certified specialist in oral surgery. He also works, together with his brother, in a private practice founded in 1957 by his father. Dr Cordaro is author or co-author of more than 70 papers published in Italian or international journals and has lectured in Europe, Asia, North and South America. In 2007 he won the H. Goldman Prize for Clinical Research of the Italian Society of Periodontology. He is author of different book chapters and co-author of the books “The SAC classification in Implant Dentistry” and ITI Treatment Guide 7 -edited by Quintessence. He is active member of the Italian Society of Osseointegration and Fellow of the ITI (International Team for Implantology). In the ITI he serves as member of the Board of Directors, Chairman of the Study Club Committee and Chairman for the Italian Section. He has been elected in the EAO Board in 2010 and serves as Chair of the Congress committee and Secretary General. His professional interests are Periodontology, Implantology and Oral surgery with a special interest regarding the reconstructive treatment of alveolar atrophies.

IRENA SAILER
- Prof. Dr. med. dent., Head
- Division of Fixed Prosthodontics and Biomaterials at the University of Geneva.
- Adjunct Associate Professor
- Department of Preventive and Restorative Sciences, Robert Schattner Center, School of Dental Medicine, University of Pennsylvania, Philadelphia, USA (Head: Prof. Dr. M.B. Blatz)

Irena Sailer received her dental education and Dr. med. dent. degree from the Faculty of Medicine, University of Tübingen, Germany in 1997/1998. In 2003 Dr. Sailer received an Assistant Professorship at the Clinic of Fixed and Removable Prosthodontics and Dental Material Sciences in Zurich. Since 2010 she is an Associate Professor at the same clinic. In 2007 Dr. Sailer was a Visiting Scholar at the Department of Biomaterials and Biomimetics, Dental College, New York University, USA. Additionally, since 2009 she holds an Adjunct Associate Professorship at the Department of Preventive and Restorative Sciences, Robert Schattner Center, School of Dental Medicine, University of Pennsylvania, Philadelphia, USA.

Irena Sailer is a Specialist for Prosthodontics (Swiss Society for Reconstructive Dentistry), and holds a specialization degree for Dental Implantology (WBA) of the Swiss Society for Dentistry. Since September 2013 she is the Head of the Division of Fixed Prosthodontics and Biomaterials at the University of Geneva.

SPEAKERS

CHRISTOPHE HAMMERLE
Christoph Hammerle is certified in prosthodontics as well as in periodontics. His clinical focus is on the comprehensive treatment of complex, partially edentulous patients applying all available options of reconstructive dentistry including dental implants. Prof. Hammerle's main scientific interests encompass biological and prosthetic aspects of fixed reconstructions on teeth and implants as part of the overall restorative treatment concept. Prof. Hammerle is a member of various scientific organizations. Presently, he is Board Member of the Swiss Society for Reconstructive Dentistry, Chairman of the Committee for Specialization in Reconstructive Dentistry in Switzerland. He has served on the organizing committees of several national and international conferences including: Swiss Society of Periodontology, European Association for Osseointegration (including chairmanship of the 15th Annual Congress of the EAO 2006 in Zurich, co-chairmanship of the 1st and 2nd Consensus Conferences of the EAO in 2006 and 2009), Implantologie Aktuell, ITI World Symposium. He has published numerous scientific and clinical articles and served on the review boards of several scientific journals in the field.

ALL CERAMIC RESTORATIONS OR LOW PRECIOUS ALLOYS

JOCELYNE FEINE
Jocelyne Feine is Professor in the Faculty of Dentistry and Associate Member in the Department of Epidemiology & Biostatistics and the Department of Oncology, Faculty of Medicine, McGill University, Canada. Professor Feine is a recognized world leader in the assessment of therapies for chronic orofacial conditions, particularly pain and tooth loss. Her national and international studies emphasize the quality of life and patient-based outcomes most relevant for palliative therapeutic goals. From randomized clinical trials to technology assessment, knowledge transfer and health care management, her work covers the continuum of discovery to action. A proponent of interdisciplinary research, Professor Feine works with expert teams of local and international collaborators in relevant fields. The manuscripts produced from these studies have been published in high quality, peer-reviewed international dental and medical journals. Professor Feine’s work has been presented to university and professional audiences worldwide.

WHAT OVERDENTURE TYPE?
JOERG STRUB  
Prof. Dr. Jörg R. Strub, DDS, Dr Med Dent Habil, Dr. h.c.  Prof. Dr. J. R. Strub, born in 1948, received his D.D.S., Dr. Med. Dent. and Dr. Med. Dent. Habil. (PhD equiv) degrees from the University of Zurich, Switzerland in 1975/1985 and the Dr. h.c. from the National and Kapodistrian University, Athens, Greece, in 2008. He was a Visiting Assistant Professor of Biomaterials at Tulane University and Louisiana State University, New Orleans, USA, 1982-1983. From 1982-1988 he was Associate Professor and co-director of the Graduate Programme in Periodontal Prosthetics at the University of Zurich. Since 1988 Dr. Strub has been Professor and Chair of the Department of Prosthodontics at the Albert-Ludwigs University in Freiburg, Germany. He was a Visiting Clinical Professor of Fixed Prosthodontics at the Osaka University in Osaka, Japan in 1996. Since 2009 he is Visiting Professor at the University of Pennsylvania (Dept. Preventive and Restorative Sciences), Philadelphia, USA. Since 2010 Sun Yat-sen University, Guanghua, School of Stomatology, Guangzhou, China and King Saud University, School of Dentistry, Riyadh, Saudi Arabia. Since 2005 he is Associate Dean for Clinical Affairs at the Albert-Ludwigs University in Freiburg, Germany. Dr. Strub is married and has one child.

CAD CAM TECHNOLOGY WHERE ARE WE?

DEAN MORTON  
Dr. Morton is Professor and Chair of the Department of Oral Health and Rehabilitation at the University of Louisville, and concurrently Director, Advanced Education Program in Prosthodontics. He is also Chairman of the US Section of the ITI. Dr. Morton is a Diplomate of the American Board of Prosthodontics and a Fellow of the American College of Prosthodontists, Academy of Prosthodontics, International College of Dentists, and the International Team for Implantology (ITI). He is an Associate Editor of the International Journal of Oral and Maxillofacial Implants, and has authored numerous peer-reviewed scientific articles and abstracts. Dr. Morton lectures nationally and internationally on implants and esthetic dentistry, and maintains a practice limited to Prosthodontics, Implant and Esthetic Dentistry in Louisville.

COMPLICATIONS OF FDPs. HOW DO WE PREVENT?

SESSION ABSTRACT  
The prosthetic part of implant treatment has been influenced by several technological innovations in the last decade.  
Still many points need an answer.  
What are the limitations and indications to cad cam procedures for fixed dental prosthesis?  
When should we use all ceramic and when metal ceramic restorations?  
What do we know about monolithic prostheses?  
How many implants and what type of attachments should we use for an overdenture?  
What are the most common prosthetic complications and how should we avoid them?  
A group of very experienced speakers will provide the audience with cutting edge information that may be clinically usable and based on scientific evidence.  
A lively discussion among the panelists will be the core of this session.
FRIDAY, 26TH SEPTEMBER

13:15 / 16:30 (CHOIR HALL / CORO)

CUTTING EDGE OF IMPLANT DENTISTRY

CHAIRPERSONS

JE-UK PARK
Position 1. Dean of Graduate School of Clinical Dental Science, The Catholic University of Korea
2. President of Seoul St. Mary’s Dental Hospital CV
1. D.D.S, Seoul National University, Seoul, Korea
2. Postgraduate in the Dept. of Orthodontics, Seoul National University, Seoul, Korea (M.S)
3. Residentship in the Dept. of Craniomaxillofacial Surgery, Zurich University Hospital, Switzerland (D.M.D)
4. Member-at-large on the executive committee of the Asian AOCS 5. Director of International affairs, KAOMS (Korean Assoc of Oral and Maxillofac Sur)

OPENING REMARKS
It is great honor and opportunity for us to be able to present the present reality of implantology of Korea, which is considered one of the best over the world. From the research prospect, many new innovates and a brand new method of manufacturing implants using 3-D printer and bioengineering techniques are under way and presented at many international academic meetings. From the clinical prospect, new operation technique regarding not only maxillary sinus but also the inferior alveolar nerve will be discussed, and new surgical instrument which put the implant into bone and remove the fixture if needed be introduced. And cutting edge of the surgical and prosthodontic concept of implantology will be presented. Again, we hope this will be a good chance to exchange our knowledge and good clinical results with colleagues from all Europe.

Sung Kil-Hyun DDS, MSD, PhD.
Dr. Kilhyun Sung holds a Bachelor’s degree from Seoul National University, College of Dentistry, a MSD and PhD from Wonkwang University, College of Dentistry, Department of Oral and Maxillofacial Surgery.
Dr. Kilhyun Sung served as a President of the Korean Academy of Osseointegration and is a Auditor of the Korean Association of Maxillofacial Aesthetic Treatment.

SPEAKERS

CHOI BYUNG-HO
- 1982 - 1985 Training at the Oral & Maxillofacial Surgery Dept., Yonsei University, Korea
- 1989 - 1991 Training at the Oral and Maxillofacial Surgery Dept., Freiburg University, Germany
- 1992 Present Professor, College of Dentistry and Wonju College of Medicine, Yonsei University Book publications:

UPGRADE OF COMPUTER GUIDED FLAPLESS IMPLANT SURGERY
In computer guided flapless implant surgery, the position, angle and depth of drilling as well as implant placement are guided through the use of surgical instruments in combination with surgical guides. The major concern for using the guided implant surgery system is the maximum deviation between the planned implant position and the postoperative result. Indeed, even if such deviation only occurs once, it can be fatal and have legal implications. Another concern is how to implement guided implant surgery on patients with a limited mouth opening capability. In addition, one widespread practice used in conventional drilling techniques to avoid thermal damage is to apply water or saline irrigation to the drill bit to prevent the bit and the surrounding tissue from overheating. But patients suffer from inconvenience caused by the water in their mouth. A new concept of the guided implant surgery system is necessary to improve the accuracy of implant placement and to solve the inconvenience. In this talk, new idea is presented for computer guided flapless implant surgery to improve accuracy of guided implant surgery, patient convenience and dentist convenience.
**LEESUNGBOK RICHARD**  
DMD, MSD, PhD 1978-1984. Graduation at the Kyung Hee University School of Dentistry, Seoul, South Korea. 1984-1987. Served 1-year internship and 2-year residency at the department of Prosthodontics, Kyung Hee University Dental Hospital, Seoul, South Korea 1997-1999. Visiting Associate Professor, Department of Restorative Dentistry, Division of Implant Dentistry, Harvard School of Dental Medicine, Boston, MA, USA 1993-Present. Full Professor, Kyung-Hee University School of Dentistry, Seoul, South Korea. 2002-Present. ITI fellow, Education Delegate at ITI-section in Korea, Executive Member of Education Committee at ITI 2012-2020, Director & Executive member of IPG(Implant Research Group) in IADR Present. Professor & Chair, Department of Biomaterials & Prosthodontics. Present. Head, Chair of Implant & Esthetic Dentistry Present. President, Kyung Hee University Dental School Hospital at Gangdong, Seoul, South Korea 1992-1997: Full-time Lecturer, Assistant Professor, Dept. of Oral and Maxillofacial Surgery, College of Dentistry, Chosun University. 1997-1999: Visiting Associate Professor, Department of Restorative Dentistry, Division of Implant Dentistry, Department of Oral and Maxillofacial Surgery, College of Dentistry, Chosun University. 2002-Present. ITI fellow, Education Delegate at ITI-section in Korea, Executive Member of Education Committee at ITI 2012-2020, Director & Executive member of IPG(Implant Research Group) in IADR Present. Professor & Chair, Department of Biomaterials & Prosthodontics. Present. Head, Chair of Implant & Esthetic Dentistry Present. President, Kyung Hee University Dental School Hospital at Gangdong, Seoul, South Korea 1992-1997: Full-time Lecturer, Assistant Professor, Dept. of Oral and Maxillofacial Surgery, College of Dentistry, Chosun University. 1997-1999: Visiting Associate Professor, Department of Restorative Dentistry, Division of Implant Dentistry, Department of Oral and Maxillofacial Surgery, College of Dentistry, Chosun University. 2002-Present. ITI fellow, Education Delegate at ITI-section in Korea, Executive Member of Education Committee at ITI 2012-2020, Director & Executive member of IPG(Implant Research Group) in IADR Present. Professor & Chair, Department of Biomaterials & Prosthodontics. Present. Head, Chair of Implant & Esthetic Dentistry Present. President, Kyung Hee University Dental School Hospital at Gangdong, Seoul, South Korea

**SMART IMPLANT PLACEMENT & COMPUTER-GUIDED DENTISTRY**

**RHYU IN-CHUL**  
Pf. In-Chul Rhyu received his degree in Doctor of Dental Surgery before completing a 4 year residency program in periodontology at Seoul National University and its affiliated Seoul National University Dental Hospital. He specialized in periodontal tissue regeneration, periodontal figuration as well as implant surgery. He went through an assistant professor, associate professor of Seoul National University from 1997 to 2006. He has been appointed as a professor at Seoul National University Dental Hospital since 2006. From 2011 to 2013 he was a President of the Korean Academy of Periodontology. He is filling various posts as a President of the Korean Academy of Implant Dentistry and a President of Seoul National University Dental Hospital from 2013.

**CHOI SEONG-HO**  
Professor; Yonsei University College of Dentistry, Seoul, Korea  
Associate Dean of Academic Affairs; Korean Academy of Periodontology  
International Director; Korea Society of Biomaterials  
Vice-President; International Congress of Oral Implantologists  
Vice-President; Korean Academy of Infection Control in Dentistry  
Vice-President; The Korean Academy of Oral & Maxillofacial Implantology  
Vice-President; The Korean Officials Dental Association

**KIM YOUNG-KYUN**  
I was graduated from Seoul National University, College of Dentistry in 1986. I have completed master’s and doctor’ course at Seoul National University Dental College as an oral and maxillofacial surgeon between 1987 and 1994. And also I have educated many dental students and dentists at since 1992. My major fields of study are dentofacial deformity, temporomandibular disorder and endosseous implant. I published 513 articles (SOC(E) 78) and 58 books at present. I acquired a variety of domestic and foreign patency about the biomaterials. Recently I developed new bone graft material using autogenous teeth. 1992 – 1997: Full-time Lecturer, Assistant Professor, Dept. of Oral and Maxillofacial Surgery, College of Dentistry, Chosun University 1997 – 2003: Chairman, Dept. of Oral and Maxillofacial Surgery, Section of Dentistry, Bundang Jaesong General Hospital 2003 – 2013: Associate Professor, Chairman, Dept. of Oral and Maxillofacial Surgery, Section of Dentistry, Seoul National University Bundang Hospital 2013 – Present: Professor, Chairman, Department of Oral and Maxillofacial Surgery, Section of Dentistry, Seoul National University Bundang Hospital, School of Dentistry, Seoul National University
TOOTH-DERIVED BONE GRAFT MATERIAL: DEMINERALIZED DENTIN MATRIX

Tooth-derived Bone Graft Material: Demineralized Dentin Matrix (DDM) With successful extraction of growth factors and bone morphogenetic proteins from mammalian teeth, many researchers have supported development of a bone substitute using tooth-derived substances. Some studies have also expanded the potential use of teeth as a carrier for growth factors and stem cells. A broad overview of the published findings with regard to tooth-derived regenerative tissue engineering technique is outlined. Considering more than 100 published papers, our research team has developed the protocols and techniques for processing of bone graft material using extracted teeth. Based on current studies, we can anticipate development of scaffolds, homogenous and xenogenous tooth bone grafts, and dental restorative materials using extracted teeth. I would like to present the moving and ongoing research and scientific background and clinical efficacy of tooth-derived bone graft material. 1. Osteoinduction of DDM A variety of studies provided an evidence of osteoinductivity of DDM through noncollagenous proteins. 2. Osteoconduction Excellent osteoconductive healing of DDM was confirmed. 3. Clinical application Autogenous DDM has been applied in guided bone regeneration (GBR), sinus bone graft, extraction socket graft, ridge augmentation, cleft alveolar defect and peri-implant defect successfully. 4. Conclusion It is obvious that autogenous DDM is safer than allogeneic and xenogeneic bone graft materials; the fact that they are compared with the healing performance of free autogenous bone graft in histological view is clear evidence. Autogenous DDM can be used safely in a variety of bone reconstructive procedures such as sinus bone graft, GBR, ridge augmentation and extraction socket graft. JUNG UI-WON

Dr. Jung is currently working as an associate professor at Department of Periodontology, Yonsei University, College of Dentistry, Seoul, South Korea, where he was trained as a specialist in Periodontology. After his Ph.D. in Periodontology at Yonsei University, he attended the ITI scholar program at Clinic for Fixed and Removable Prosthodontics, Center for Dental and Oral Medicine and Cranio-Maxillofacial Surgery, University of Zurich from 2007 to 2008. Dr. Jung is an active member of the Korean Academy of Periodontology and a director of international affair of Korean Academy of Oral & Maxillofacial Implantology. He has been an ITI fellow since 2009, and is working as a communication officer for ITI Korea. Dr. Jung is an expert in animal experiments and his interests in research are mainly in tissue regeneration and development of dental implants. He published over 30 papers as the main author and over 70 papers as a coauthor in international peer reviewed journals including Clinical Oral Implants Research, Journal of Clinical Periodontology, Journal of Periodontology, Journal of Periodontal and Implant Science, Periodontology 2000, etc. He has received the “best poster award” with his research on BMP at the EAO in Munich, 2005.

RECENT ADVANCES IN APPLICATION OF RH BMP-2 FOR BONE REGENERATION

RhBMP-2 has mostly been produced by using a mammalian cell expression system (Chinese Hamster Ovarian cell). In spite of there being good prospects for BMP applications, the gap between research and the clinical use of BMP still remains. The mammalian cell expression system is very expensive negatively affecting commercialization and low yields of rhBMP-2 (ng ml-1 range) are another problem. Large-scale production of rhBMP-2 at low cost with high yield could be achieved by the development of rhBMP-2 expressed in E. coli. As a result, many patients could benefit from the reliable bone regeneration procedure. There have been many attempts using the rhBMP-2 as an osteoinductive factor to accelerate bone regeneration, and rhBMP-2 with an absorbable collagen sponge (ACS) was approved for clinical use in sinus augmentation and ridge augmentation by the United States Food and Drug Administration (FDA) in 2007. However, because of rapid resorption rate and lack of structural durability of the ACS, the clinical use of the ACS with rhBMP-2 has some limitations in sinus augmentation procedures. It has been shown that the regenerative potential of growth and differentiation factors depends upon the carrier material. Therefore, current main focus lies on the development of an optimal carrier system for rhBMP-2. Such a carrier material should be biocompatible, plastic so as to easily fill the defects with the desired shape, and eventually replaced by newly formed bone. In addition, it should also have mechanical stability in bone defects. I will review the preclinical and clinical outcomes using the E. coli expressed rhBMP-2 with various carrier systems for sinus augmentation and ridge augmentation procedure.

PART C : Toward Natural Beauty in implant prosthodontics

CHAIRPERSONS

YOUNG-JUN LIM

Dr. Young-Jun Lim is associate professor at the Dept. of Prosthodontics, School of Dentistry, Seoul National University. He gained his DDS in 1992, MSD in 2000 from School of Dentistry, Indiana Univ., USA, completed his prosthodontic training at the same school and Ph.D. at Dental Biomaterials science of SNU in 2004. He has been teaching predoctoral and postdoctoral students in Dept. of Prosthodontics, school of dentistry, SNU since 2004, contributing to the evolution of the curriculum in Prosthodontics. His current work consists of clinical research, teaching and intramural practice of all phases of implant dentistry and Prosthodontics. Currently, he is a vice president of “The Korean academy of Osseointegration”, “Korean academy of stomatognathic function and Occlusion” and “Korean Academy of Esthetic dentistry”

GINSON KIM

PhD Graduation of Wonkwang University Adjunctive Professor of Wonkwang University Postgraduate in Implantology at Tokyo Medical and Dental University Vice president of ICOI Korea Vice president at Korean Academy of Osseointegration Honorary President of New Millennium Implant Club
**SPEAKERS**

**PARK KWANG BUM**
Dr. Kwang Bum Park graduated the Kyungpook National University, School of Dentistry in 1985 in Korea. He finished training at the department of Periodontics in 1988. He worked at the same dental school as a teaching faculty until 1993. He started a private institute named as "Perio-Line" to teach the clinical periodontics and implant dentistry to the other private practitioners. In 2000, he went to UCLA, department of periodontics, to study further as a visiting researcher. After returning from United States, he and his colleagues started one of the biggest private dental hospital called 'MIR Dental Hospital' in 2002. He also established an Implant manufacturing company named as ‘MegaGen’ at the same time, and tried to make new concepts on the implant design under the concept of ‘less invasive, but more efficient implant systems’. At present he is serving as the president of MIR Dental Hospital, Daegu, and co-CEO of MegaGen Co. Also he is working as the director of MINEC education center. He is an international member of AAP, an active member of AO and an honored doctor of Japanese society of gnathology and occlusion.

**BIOLOGY DRIVEN IMPLANT DESIGN FOR LESS INVASIVE & MORE NATURAL IMPLANT OUTCOME**
Re-establishment and/or maintenance of healthy peri-implant mucosa with beautiful implant crowns are major concerns in implant dentistry, as well as strong and fast osseointegration and stable prosthetics, especially for the long-term result. There are many factors that affect the peri-implant tissue healthiness, such as prosthetic accuracy and emergence profile, biologic width and platform switching, oral hygiene, occlusion, habits and biotypes. Among them, biotype and biologic width are considered as the most important points we need to consider before and after the implant treatment. So all of implantologists tried to make better biotype on the peri-implant tissue via FGG or CTG, and to minimize biologic width by choosing better implant systems, even those works are quite difficult and technic-sensitive. This presentation will be prepared to show the ideal design of a fixture from evidences in the literatures, which can give us most of necessities of the implant treatment, for example, excellent initial stability, wide surface area, less invasive surgery, much more esthetic and stable peri-implant mucosa, etc.

**LEE JUNESEOK**
Junesoek Lee DDS, MSD, PhD, FICD Dr. Junesoek Lee holds a Bachelor’s degree from Seoul National University, College of Dentistry, a M.S.D and PhD from Seoul National University, College of Dentistry, Department of Prosthodontics. Dr. Junesoek Lee specializes in the areas of Prosthodontics and Dental Implantology. He stepped the Internship and Residency in Seoul National University Dental Hospital, Department of Prosthodontics. He was in the Fellowship program at Samsung Medical Center, Department of prosthodontics, and U of Chicago Hospital, Department of Surgery. Zoller Dental Clinic for Maxillofacial prosthetics. Dr. Junesoek Lee is vice president of the Korean Academy of Osseointegration and served as a treasurer of the Korean Academy of Stomatognathic function and occlusion for three years and is also a member or director of a number of professional, scientific, community, and civic organizations. He served as a director of the National Police Hospital, Department of Dentistry. He is a Director of the Chicago Dental Clinic, Seoul, Korea. He frequently lectures in the areas of Prosthothodontics and Dental Implantology. He leads the Implant education program at Shinhungh company.

**LONG TERM EVALUATION OF ALUMINA TOUGHENED ZIRCONIA ABUTMENTS AND ITS CLINICAL APPLICATION IN IMPLANT DENTISTRY**
The traditional design of implant superstructure in functional aspect has been changed to focusing esthetic demands. Needs for the ceramic abutments were frequently highlighted with relation to the insufficient amount of remaining soft tissue, and the concerns of current implant dentistry has become interested in zirconia material in this aspect. Alumina oxide abutment, first developed to prevent unnatural bluish appearance reflected from titanium abutment, could not catch popularity in clinic due to frequent chipping and radiolucency around the connection area. Densely sintered zirconia introduced in the next, is a biocompatible material and has better mechanical properties than aluminia. However it shows low temperature degradation and its opacity is even greater than that of alumina ceramics. Newly developed alumina-zirconia composite abutment exhibits tooth-like color, sufficient flexural strength and fracture toughness without low temperature degradation phenomenon. Furthermore it demonstrates no phase transformation from tetragonal to monoclinic after aging process. Prefabricated alumina-toughened zirconia abutments exhibit an excellent clinical profile for long-term survival rate and sufficient stability to support fixed implant restorations. However single tooth replacement at the molar region may require special care and attention. No adverse soft tissue reactions and crestal bone resorptions were demonstrated during function. Within the limits of study, alumina-toughened zirconia abutment can be one viable option in restoring edentulous ridges in implant dentistry.

**PART D : Comprehensive management of complications following dental implant**

**CHAIRPERSONS**

**JE-UK PARK**
Position 1. Dean of Graduate School of Clinical Dental Science, The Catholic University of Korea 2. President of Seoul St. Mary’s Dental Hospital 3. CV 1. D.D.S, Seoul National University, Seoul, Korea 2. Postgraduate in the Dept. of Orthodontics, Seoul National University, Seoul, Korea(M.S) 3. Residentship in the Dept. of CranioMaxillofacial Surgery, Zurich University Hospital, Switzerland(D.M.D) 4. Member-at-large on the executive committee of the Asian AOMS 5. Director of International affairs, KAOMS(Korean Assoc of Oral and Maxillofac Sur)
JE-UK PARK

CLOSING REMARKS

The prospect of implantology in Korea is very promising. There are good clinicians, able researchers, and efficient companies. They will compete, share the knowledge, and cooperate for the common purpose if needed. In the future, there will be good results. And it is also mandatory to cooperate internationally to hasten the development and improvement in the implantology and thereby to give all patients perfect and very satisfactory clinical results.

A NEW PARADIGM FOR FAST & COMPLICATION-LESS IMPLANT THERAPY IN THE MAXILLARY POSTERIOR AREA

A New Paradigm for Fast & Complication-less Implant Therapy in the Maxillary Posterior Region Chonghwa Kim (Abstract) Restoring maxillary posterior teeth with dental implants has become a predictable and evidence-based treatment modality. This, however, was not achieved until advances in both surgical and prosthetic techniques were made. Dental implant treatment has generally been accepted as the treatment of choice for full or partial edentulism in most cases. As such, performing dental implant therapy in the maxillary posterior region has been avoided for many reasons. The maxillary posterior region has frequently been considered the weakest link in implant dentistry due to the low success rate often seen as a consequence of poor bone quality and quantity in this region. As a consequence, the success rate of dental implant treatment, as well as the application of accelerated loading protocols in the maxillary posterior region, is often less. Additionally, the presence of the maxillary sinus is frequently associated with insufficient quantity and quality of bone for implant placement, therefore requiring bone augmentation of the maxillary sinus. Sinus-related complications are frequently reported in the literature. This often becomes the topic of much debate regarding the credibility and predictability of implant treatment in the maxillary posterior region. As the desire for increasing the success rate of implant treatment in the maxillary posterior region increases, fresh concepts and techniques are continually being developed to achieve this goal. This presentation will review the fundamental concepts necessary for efficient and predictable posterior implant placement, therefore allowing the use of an accelerated loading protocol in the maxillary posterior region.

CLINICAL TRIALS FOR PERI-IMPLANT MUCOSITIS AND PERI–IMPLANTITIS

Clinical Trials for Peri-implant Mucositis and Peri-implantitis Byung Do Ham DDS, PhD The more dentists move deeply into the implant dentistry, the more there are many challenging cases and they face numerous difficulties in treating patients who present with failing and failed implants. They need to identify the etiology of complication, search for a recommended protocol to save the implant and the restoration, and replace occasionally the failed implant to meet the standard of implant dentistry. Through this presentation contemporary clinical guidelines as well as practical strategies are going to be suggested for treating common types of complication in terms of peri-implant mucositis and peri-implantitis. With the introduction of devices and instruments the consensus concept of periodontology will be presented like the followings; (1) subgingival debridement for peri-implant mucositis, (2) open flap debridement for peri-implants. In EAO Academic Meeting 2014, 20 years follow up clinical cases of non-surgical and surgical intervention for peri-implant mucositis and peri-implantitis will be reported. I would also like to share strategies I have learned through experience for reducing prosthetic, surgical, and technical complications. Through this presentation, attendants will be able to summarize simple strategies to overcome challenging implant complications of failing and failed implants and to face those with more confidence.

LEE BU-KYU

He is a professor in the department of oral and maxillofacial surgery at Asan Medical Center, College of Medicine, Ulsan University, Seoul, Korea from 2002. He received D.D.S., M.S.D. and Ph.D. from Seoul National University in 1992, 1995 and 2005 respectively and trained as a specialist of oral and maxillofacial surgery at Seoul National University hospital from 1992 to 1996. After serving as a military surgeon on duty from 1996 to 1999, he had studied as a research fellow in Erlangen-Nuremberg University, Germany, from 1999-2001. He worked at Wakeforest Institute for Regenerative Medicine(WFIRM) for his sabbatical years from 2009 to 2011. Currently, he has served as the director of academic affairs for KAO from 2012 and designed the program of 2014 EAO Korean session. He has published over 20 SCI papers and books regarding basic and clinical aspects of oral and maxillofacial surgery and tissue engineering/regenerative medicine. He is living in Seoul with his family.

KIM CHONG-HWA

Practices full time in a private practice in downtown Seoul, Korea, specializing in prosthodontics and implant dentistry. Graduated from the University of Michigan School of Dentistry in 1997 and completed prosthodontic training at the University of Minnesota in 2004. Co-director of the Global Academy of Osseointegration and lectures to both domestic and international dentists. Have been an accredited member of the Korean Academy of Esthetic Dentistry and currently serves as a secretary of KAED. A fellow of the International College of Dentist Can be contacted at kimchonghwa@hotmail.com

HAM BYUNG DO

Byung Do Ham, D.D.S., Ph.D. Visiting from Seoul, South Korea. Dr. Ham is presently Affiliated Professor of the Department of Periodontology at Seoul National University College of Dentistry. He is also Affiliated Professor of the Department of Prosthodontics at Korea University Medical Center. Dr. Ham has a certificate in Periodontics not only at Seoul National University College of Dentistry in Korea, but also at University of Washington College of Dentistry in USA. He has a private practice in the City of Seoul. He is founder and director of the Institute of Periodontics and Implant Dentistry. Dr. Ham has published articles on periodontics and implant dentistry and has lectured extensively both in Korea and abroad. Nowadays he has been focusing on histology study of different types of bone substitute for alveolar augmentation.

JE-UK PARK

The prospect of implantology in Korea is very promising. There are good clinicians, able researchers, and efficient companies. They will compete, share the knowledge, and cooperate for the common purpose if needed. In the future, there will be good results. And it is also mandatory to cooperate internationally to hasten the development and improvement in the implantology and thereby to give all patients perfect and very satisfactory clinical results.
FULL ARCH RESTORATIONS: SEVERAL OPTIONS OR ONLY ONE PROTOCOL?

CHAIRPERSONS

BJÖRN KLINGE
Björn Klinge is Dean at the Faculty of Odontology and Professor in Periodontology, Malmö University and Professor in Periodontology at the Department of Dental Medicine, Division of Periodontology and Implant Dentistry, Karolinska Institutet, Stockholm, Sweden. He is also Director of the National Research School in Clinical Dental Medicine at Karolinska Institutet. He obtained his D.D.S. and his Ph.D/Odont. Dr from Lund University, Faculty of Dentistry in Malmö, Sweden. He has been a Licensed Dental Surgeon since 1977 and a Licensed Specialist in Periodontology since 1988. Professor Klinge worked first as general dentist in public and private office. He was then lecturer in Periodontology at Loma Linda University, California, USA and Assoc Chief Dental Officer in Oral & Maxillofacial Surgery at the County Hospital of Halmstad, Sweden. He held the position of Associate Dean for Undergraduate Curriculum at the Center for Oral Health Sciences, Lund University and headed the Department of Lab Animal Resources/Experimental Surgery and was an associate Professor in Periodontology department in Malmö, before being appointed Professor by the Swedish Government at Karolinska Institutet. Björn Klinge is Honorary Fellow, Singapore Dental Hospital and Honorary Professor, Ji-Lin University, China. He is President of the Swedish Periodontal Society, board member Scandinavian Society of Periodontology and President elect of the European Association for Osseointegration (EAO).

LUCA FRANCETTI
Prof. Luca Francetti earned his degree cum laude in Medicine and Surgery at the University of Milano (Italy) in 1986, and in 1989 specialized in Odontostomatology at the University of Pavia (Italy). He was Clinical Researcher at the University of Milano since 1997, Associate Professor from 2005 at the same University where he has been teaching Periodontology and implant Dentistry since 1990 when he was Honorary Lecturer. Actually Chairman of the Department of Odontology at IRCSS Galeazzi, University of Milano, Director of the Research Centre in Oral Implantology and Director of the Post-graduate School in Oral Surgery at the same University. He is an Active Member of the Italian Society of Periodontology (SiDIP) and Past-President in SiDIP for the 2010-2011 two-year term; Active Member of the the European Federation of Periodontology (EFP), of the European Association for Osseointegration (EAO) and of the Italian Society of Odontology and Maxillo-Facial Surgery. Author or co-author of more than 120 scientific papers, Prof. Francetti lectures in National and International conferences and courses. Together with his mentor Prof. Roberto Weinstein runs a private practice in Milano, founded by Prof. Weinstein’s father Leo in 1946, dedicating his clinical activity mainly to periodontology and implant dentistry.

HOW MANY IMPLANTS FOR A FIXED RESTORATION?
The implant-prosthetic treatment plan of a completely edentulous jaw depends on aesthetical, anatomical, functional and economical aspects. On the basis of these factors, several solutions (implant number, distribution…) have been proposed to sustain full fixed implant supported dental prosthesis. Ideally the placement of a large number of implants (>6) is a preferable solution in terms of masticatory strain distribution. Studies on patient’s perception of treatment on dental implants reported that high costs and need of surgery are the most unfavourable events associated to the rehabilitation. Furthermore severe alveolar bone atrophy may limit the implant number. For these reasons full-fixed implant prosthesis restorations supported by only 4 to 6 implants have been proposed. Initially these prostheses were on axial implants placed in the anterior area of upper and lower maxilla to avoid the sinus and mental foramina. More recently, implants were tilted and distally oriented to reduce the cantilever length and to avoid these anatomical structures. Clinical studies reported that the use of tilted implants to support immediately loaded fixed prostheses for the rehabilitation of edentulous jaws can be considered a predictable technique, with an excellent prognosis in the short-medium term. Furthermore, compared to dentate controls, FFP patients display a global neuromuscular equilibrium in statics.

MATTEO CHIAPASCO
Graduated in Medicine and specialized in maxillofacial surgery at the University of Milan, Italy. Head Unit of Oral Surgery - Department of Health Sciences -University of Milan – Italy Visiting Professor, Loma Linda University, Los Angeles, California , USA Member of the European Board of Oral and Maxillo-Facial Surgeons. Active Member EAO, ITI Fellow and Past President Italian Section ITI Active Member and President Elect Italian Society of Osseointegration. His main fields of interest are Oral and maxillofacial surgery, with particular attention to advanced preprosthetic surgery (reconstructions for severe atrophy, tumor defects, trauma sequelae, congenital malformations). He is an International lecturer on these topics. He is the author or co-author of approximately 85 papers published on peer-reviewed international journals and approximately 100 papers published in Italian Journals. He is the author or co-author of 10 textbooks related to oral and maxillofacial surgery.

TREATMENT PLANNING FOR THE RECONSTRUCTION OF THE ATROPHIC MAXILLA
Partially or totally edentulous maxillae, because of sinus expansion and/or resorption of the alveolar ridge, may render implant placement difficult or impossible or, even if possible, inappropriate from a prosthetic point of view. Whenever short or tilted implants as well as zygoma implants are not indicated, a reconstruction of the atrophic maxilla may be indicated. Aim of this lecture is to present rational, prosthetically driven protocols in order to optimize the reconstruction/regeneration of the atrophic maxilla. Data related to the personal experience of the author based on a relevant number of clinical cases treated over the last 20 years as well as data from the scientific literature will be presented, highlighting advantages, disadvantages and limits of each technique.
GERMAN GALLUCCI
Dr. Gallucci is the Interim Chair of the department of Restorative Dentistry and Biomaterials Sciences and the Head of the Division of Regenerative and Implant Sciences at Harvard School of Dental Medicine. He obtained his Doctorate in Dental Medicine at the department of Prosthodontics, School of Dental Medicine at the University of Geneva, Switzerland. Dr. Gallucci actively participates in clinical research related to implant-prosthodontics and Digital Dentistry. His work has been published in International peer reviewed journals and is member of the editorial board for several scientific dental journals. Dr. Gallucci participates as invited lecturer in international and national conferences and congresses. He is fellow of the International Team for Implantology (ITI, Switzerland, and active member of the Academy of Osseointegration (AOI) - USA, European Academy of Osseointegration (EAO), Greater New York Academy of Prosthodontics, (GNYAP) and International Academy of Dental Research (IADR).

INDIVIDUALIZED PROSTHETIC SOLUTION FOR EACH EDENTULOUS PATIENT
This lecture focuses on clinically relevant guidelines for designing implant/prosthetic rehabilitations in edentulous patients. In this context, treatment regulators such as implant site, implant size and shape, implant surface, implant allocation, primary stability, and loading procedures, etc. will be analyzed according to their role in successfully achieving osseointegration. Current clinical trials on fixed implant prosthesis for edentulous patients will be analyzed according to their corresponding prosthetic designs. This will allow for proposing a systematic way of selecting the most appropriate clinical protocol based on the scientific evidence available for each clinical situation. Objectives: 1- Select the most appropriate clinical protocol for different clinical indications 2- Review the scientific evidence leading to translational clinical recommendations 3- Assess patient centered outcomes for fixed rehabilitation of the edentulous jaws.

NITZAN BICHACHO
Professor Bichacho heads the Ronald E. Goldstein Center for Aesthetic Dentistry and Clinical Research at the Prosthodontics Department of the Faculty of Dental Medicine at the Hadassah Medical Campus in Jerusalem, Israel. Prof. Bichacho is a Life Member and past President of the European Academy of Esthetic Dentistry. He also serves as Scientific Editor and as an editorial board member of several international publications. Professor Bichacho has been publishing and lecturing worldwide in the fields of dental implant therapy, fixed prosthodontics, and innovative treatment modalities in aesthetic dentistry. He is also the conceptor and inventor of several clinical techniques and dental and implant products, widely used the world over. His private practice in Tel Aviv is focused on interdisciplinary treatments, where he collaborates with multinational colleagues and dental technicians.

HOW TO CHOOSE THE PROSTHETIC OPTIONS FOR THE EDENTULOUS CASE
Restoring implants placed in a resorbed ridge should take into consideration not only the obvious occlusal requirements, but also biological principles, esthetic demands, functional restrictions and not less important - the ease of use for the dentist as well as for the patient. All the above might lead to choose the treatment modality of screw retained bridge over multi-unit abutments, connected to the implants. The lecture will highlight the advantages and the pitfalls of this prosthetic solution.

PERNILLA LARSSON GRAN
C.V. Pernilla Larsson Gran Graduated 1996 as D.D.S from Karolinska Institute, Stockholm, Sweden and became a Specialist in Prosthodontics 2003 at Institute for Postgraduate Education in Jönköping, Sweden. After combining clinical work as a prosthodontist and research she gained her PhD in Odontology from University of Malmö in 2010. Her thesis was entitled “Methodological studies of orofacial aesthetics, orofacial function and oral health related quality of life”. Pernilla is senior consultant at Centre of Oral Rehabilitation in Norrköping, Sweden and affiliated to Malmö University and Scandinavian Center for Orofacial Neurosciences.

QUALITY OF LIFE ASPECT
Tooth loss and edentulism can be disabling and handicapping and has a profound impact on the lives of many people. The outmost reason for treating patients with implant supported prostheses is to increase their oral health and quality of life. Health is something everyone can relate to and conceive and is a primary goal in dentistry. But concepts of health and quality of life are elusive and abstract- while we intuitively grasp their meaning, they are difficult to define. Awareness of the impact of health and treatment on the quality of human life has grown. Therapeutic efforts in medicine and dentistry are directed primarily toward improvement of the quality, not the quantity of life. Based on scientific methodology, methods are developed to measure what was previously thought immeasurable. This lecture addresses the burden of edentulism and how dental implants give edentulous, disabled individuals another chance.
When do we need to submerge?

Chairpersons

Alberto Barlattani

Prof. Alberto Barlattani was born in Rome on the 24 of August 1944. He has a degree in medicine and specialization in odontostomatlogy to the same University of Rome “La Sapienza”. Professor of prosthesis of CLSOPD to the University of Rome “Tor Vergata”. Since 1999 he was head physician in the same university to the San Giovanni Calibita F.b.F. hospital Rome. From February 2005 he is head physician in the General Hospital of Rome “Tor Vergata”. President of CLSOPD to the University of Rome “Tor Vergata”. President of the Italian CLSOPD Presidents. From 2008 Editor in Chief of the Journal “ORAL & Implantology”. Scientific activity is proved by many national and international publications. And he was relator of several congress. He has particular interest about T.M.J., in fact he studied anatomy, physiology and pathology and possible therapy in T.M.J. dysfunctions. He has many documentation about autopic research with micro and macroscopic section of human T.M.J. samples. In the last years scientific activity is about implant prosthesis. Experience to the F.E.M. let him know the biomechanic mechanism in implant prosthesis with different aesthetic materials, also analyzing different design of marginal geometry variable. Other studies are photoelastomeric tests to evaluate different materials for prosthesis on implant.

Hugo De Bruyn

Hugo De Bruyn is graduated as dentist in 1983 at Leuven University Belgium and obtained a PhD at the University of Groningen in the Netherlands in 1987 and a Master Degree at Lund University Sweden in 1988. From 1988 until 2014 he owned a private specialist referral clinic in Brussels Belgium. In 2014 he became full professor and chairman of the department of periodontology & oral implantology at the Ghent University in Belgium. Currently he teaches for undergraduates and postgraduate students and is chairman of the educational committee responsible for the undergraduate dental education. He is furthermore course director of the 1-year postgraduate program oral health sciences, the 2-years international postgraduate oral implantology program and the 3-years postgraduate specialist program in periodontology and oral implantology. He is leading the research cluster Periodontology & Oral Implantology, Implant & Removable Prosthetics (POI-IRP). Clinical research of this cluster focuses on factors related to implant success, effect of smoking, immediate implant loading, soft and hard periodontal and peri-implant tissues, digital dentistry and implant prosthodontics. He has given more than 500 national-international lectures/courses in the field of implantology/periodontology and published more than 100 international peer reviewed papers. He is currently also visiting Professor at the Department Prosthodontics of Malmo University Sweden.

Influence of hardware and insertion protocol on hard and soft tissue healing

Implant treatment has significantly improved the patients' quality of life. What once started as a method to restore the function has evolved to even restore the aesthetics. Moreover, the treatment period has significantly shortened, and today immediate and early loading of implants function as good as the conventional delayed protocol. It can be said that extensive research in the field has significantly contributed in improving both soft and the hardware of dental implants and the published evidences support the successful transition in the treatment modality. Reportedly, it is suggested that the macro geometry of the implant and the drilling protocol are one of the decisive factors for achieving primary (mechanical) stability necessary for implant loading. Different macro thread designs present unique stress distribution during immediate/early functional loading and different drilling protocols have an impact on the fit of the implants. Furthermore, the advancements in the field of implant macro and nano topography is said to be responsible for the enhancement of the secondary (biologic) stability under static conditions, however it is less understood that the proper interplay between surgical instrumentation and implant macrogeometry has an impact on these smaller length scale designs. Moreover, it has been suggested that the effect of abutment modifications has great influence on the soft tissue alterations and aesthetics. Not only the material properties and the geometry, but also the topography and chemistry of the abutment seems to have an influence on the soft tissue responses although their features may be different from the hard tissue modifications. This lecture will present the scientific evidence with regards to the interplay between implant hardware and surgical instrumentation, which has some influence on both soft tissue responses and osseointegration.
JAN COSYN
Prof. Dr. Jan Cosyn received his degree in Dentistry at the Free University of Brussels in 2000. He specialized in Periodontology and Oral Implantology at the same institution and combined his training with a PhD program. Since 2006, Dr. Cosyn combines a private practice and an academic position. At the University of Ghent he teaches Epidemiology, Oral Microbiology, Periodontology and Oral Implantology in the Bachelor- and Masterprogram in Dentistry. He is also involved in education of specialists in training and assists them in scientific research. This has already lead to 5 PhD projects. At the Free University of Brussels Dr. Cosyn is appointed Professor and since 2014 he became chairman of the Department of Periodontology and Oral Implantology. As his main task involves clinical research he published over 60 scientific articles. Dr. Cosyn is frequently invited as a speaker at national and international conferences. He has a particular interest in regenerative periodontal surgery and aesthetic aspects of single implant restorations.

ADVANTAGES OF SUBMERGED APPROACH IN THE AESTHETIC ZONE
It has been shown in literature that a non-submerged approach is a viable alternative for the traditional submerged approach in terms of implant survival and marginal bone resorption. The need for only one surgical intervention and the possibility of immediate loading are particular advantages of the former. Consequently, non-submerged healing has become common practice. On the other hand, a traditional submerged approach may still offer advantages in the aesthetic zone under certain conditions. Guided bone regeneration performed at the time of implant surgery requires primary wound closure for membrane coverage, making a submerged approach warranted. Also when multiple soft tissue augmentation procedures are needed for aesthetic purposes, submerged healing is often the treatment concept of choice. In this session, the indications for submerged healing in the aesthetic zone will be discussed and illustrated on the basis of representative clinical cases.

ROBERT HAAS

INDICATIONS AND LIMITATIONS TO THE NON-SUBMERGED APPROACH
Implant placement with subsequent non-submerged healing would improve patient acceptance of treatment needs because of reduced patient morbidity and the possibility of immediate functional loading of implants with a resultant reduction of treatment time. On the other hand, non-submerged healing may facilitate bacterial growth on the implant surface and down growth of epithelium in the gap surrounding immediately placed implants. The presentation will give a detailed overview of the currently available knowledge of the benefits and drawbacks of non-submerged implants during the healing phase with particular focus on some of the following parameters: time of implant placement, time of loading, implant system and aesthetics in the anterior maxilla. Special attention will be given to the development and preservation of soft tissue structures. The presentation is intended to provide the clinician with a detailed checklist for identifying settings in which it will be preferable not to submerge implants but much rather switch the planned treatment to the non-submerged approach in order to improve treatment outcome. These findings will be based on a profound overview of currently available dental literature as well as on the author's own clinical experience with more than 16000 implants placed during the last ten years.
FRIDAY, 26TH SEPTEMBER

13:15 / 14:45 (THEATRE STUDIO)

BASIC RESEARCH COMPETITION

ORAL COMMUNICATIONS

CHAIRPERSONS

SANDRO PELO

EDUCATION
- 1976: Degree in Medicine and Surgery, University of Rome “La Sapienza”
- 1981: Specialty degree in General Surgery
- 1984: Specialty degree in Odontostomatology

PROFESSIONAL WORK EXPERIENCE
- 1980: Maxillofacial Surgery Assistant, Department of Oral and Maxillofacial Surgery Dental Clinic, University “La Sapienza”, Rome
- 1993: Chief, Department of Oral and Maxillofacial Surgery, George Eastman Hospital, Rome
- 2003: Chief, Department of Maxillofacial Surgery CIC – Association Columbus Catholic University “Sacro Cuore”, Rome.

TEACHING ACTIVITY
- 1995: Professor of Orthognatic Surgery at the Orthodontics Specialization School, Medicine and Surgery Faculty, Catholic University “Sacro Cuore”, Rome
- 2000/2010: Associate Professor, Dental Clinic I – Odontostomatology Institute - General Hospital “A. Gemelli”, Catholic University “Sacro Cuore”, Rome
- 2010: Professor of Maxillofacial Surgery at the School of Medicine and Surgery, at the School of Dental Medicine Dentistry, and at the Dental Hygienist School, Medicine and Surgery Faculty of the Catholic University “Sacro Cuore”, Rome
- Past President of the Italian Odontostomatology and Maxillofacial Surgery Society.

HELENA FRANCISCO

PhD Student - University of Lisbon, College of Dentistry
Master of Sciences - University of Lisbon, College of Dentistry (2008-2009)
Post-Graduate Fellowship in Periodontology and Implant Dentistry (3 years full-time program) - New York University College of Dentistry (2005-2008)
Assistant Lecturer and co-Coordinator of the Implant Program - University of Lisbon, College of Dentistry
Biomedical and Oral Sciences Research Unit (UICOB) - University of Lisbon, College of Dentistry
Private practice limited to Periodontology and Implant Dentistry

SPEAKERS

(107) IVO LAMBRICHTS
DENTAL STEM CELLS AND ANGIogenesis: NEW STRATEGIES FOR TISSUE ENGINEERING

(108) VANESSA SOUSA
AN OSSEOINTEGRATION MODEL IN TITANIUM SURFACES PREVIOUSLY INFECTED WITH A PERI-IMPLANTITIS MICROCOSSMIC BIOFILM: A PILOT STUDY.

(109) ERIKO MARUKAWA
EFFECTS OF PLATELET-POOR PLASMA, PLATELET-RICH PLASMA, AND PLATELET-RICH FIBRIN ON HEALING OF EXTRACTION SOCKETS WITH Buccal DEHISCENCE IN DOGS.

(110) YUELIAN LIU
OSTEOINDUCTIVE BIOMIMETIC CALCIUM PHOSPHATE BONE SUBSTITUTE FOR BONE REGENERATION

(111) MATTHIEU RENAUD
POROUS SILICON PARTICLES AS A BIOSORBABLE SCAFFOLD FOR DENTAL PULP STEM CELLS: PRECLINICAL APPLICATION FOR BONE TISSUE ENGINEERING

(112) ALESSIA D’ONOFRIO
DEVELOPMENT OF A NOVEL STRONTIUM CONTAINING INJECTABLE BONE SUBSTITUTE FOR DENTAL APPLICATIONS

(113) CARLO GALLI
NOVEL BIOMIMETIC SURFACES THROUGH PROTEIN SELECTIVE ADSORPTION VIA IMMOBILISED ANTI-FIBRONECTIN APTAMERS
FRIDAY, 26TH SEPTEMBER

13:15 / 14:45 (PETRASSI)

ORAL COMMUNICATIONS

CLINICAL RESEARCH COMPETITION – PROSTHETICALLY ORIENTED

CHAIRPERSONS

HOM-LAY WANG
Hom-Lay Wang, DDS., MSD., Ph D., Collegiate Professor of Periodontics, Professor and Director of Graduate Periodontics at the University of Michigan. He published more than 25 book chapters/invited reviews and more than 350 scientific articles. Dr. Wang is a member of Leadership Development and Qualification Committee as well as a Consultant of Scientific Oversight Committee for the American Academy of Periodontology and also serves as a Chair of website Educational Committee as well as a member of Clinical Innovation Committee for the Academy of Osseointegration, is a Diplomat and a Former Co-Chair and Director of the American Board of Periodontology and a Fellow of American College of Dentists. He serves as an Associate Editor for The International Journal of Oral & Maxillofacial Implants and Founding Editorial board member for Clinical Advances in Periodontics, Editorial Board member for the Journal of Periodontology, Clinical Oral Implants Research, International Journal of Periodontics & Restorative Dentistry, Journal of Clinical Periodontology; Compendium of Continuing Education in Dentistry and many others. Dr. Wang is the recipient of following awards/honors: AADS clinical research fellowship award (1992), Best Faculty Award (2003), The Charles E. English Annual Award in Clinical Science and Techniques (2004), Best papers in Journal of Oral Implantology (2004) and Implant Dentistry (2004), Morton L. Perel Annual Award for Dental Implant Educator (2007), AAP University of Michigan Outstanding Teaching and Mentoring in Periodontics (2010), AAP special citation award (2013) and ITI Andre Schroeder Research Prize (2014).

GEORG WATZEK
Georg Watzek received the MD degree, DDS degree and PhD and performed the the Specialty board examination in Oral and Maxillofacial Surgery at the Medical University of Vienna, was Head of the Department of Oral Surgery and Dean of the University Clinic of Dentistry in Vienna up until 2012. He was for years President of the Austrian Society of Oral Surgery and Implantology and Acting President of the European Association for Osseointegration (EAO) 2003-2004 . His research and patient therapy has focused on all parts of Oral and Maxillofacial Surgery and in the last ten years especially on implantology and bone grafts in combination with implants. He is the author of more than 300 publications, including 9 textbooks.

SPEAKERS

(85) TOMAS LINKEVICIUS
Retention of zirconium oxide restorations on titanium bases using different luting cements

(86) MARIO IMBURGIA
Combined alumina–zirconia implant–supported single tooth restorations in anterior areas: a 8 years clinical results

(87) STEFANIE KAPPEL
Immediate loading of two dental implants, in edentulous mandibles, with Locator®-attachments or Dolder® bars: 1–year results from a RCT

(88) ERIBERTO BRESSAN
Influence of abutment material on the color for patients with thin gingival biotype: a prospective evaluation

(89) NICOLE WINITSKY
Implant infra–position after 15–year follow–up of Branemark implants in the anterior maxilla in young patients: a prospective cohort study

(90) CORINA MARILENA CRISTACHE
Correlation between complications and satisfaction level for implant retained mandibular over–denture

(91) SILVIO MARIO MELONI
Platform switching vs regular platform implants. One year results from a RCT

(92) JOSE VIÑA–ALMUNIA
Microbial colonization of the implant connection with cemented versus screw–retained suprastructures
FRIDAY, 26TH SEPTEMBER

**15:00 / 16:30 (Sinopoli)**

**PRACTICE MANAGEMENT SESSION**

**CHAIRPERSONS**

**FRANCK RENOUARD**
Franck Renouard is graduated of the Dental University of Paris V in 1982. He was assistant of Jean-François Tulasne in the Cranio-Maxillo-Facial Team of Paul Tessier from 1983 to 1988 in Paris. He has published several articles and book chapters. He is author of 2 Text Books with Bo Rangert. The first one « Risk Factors in Implant Dentistry: Simplified Clinical Analysis for predictable Treatment» was published in 10 languages. His new book, co-written with a professional pilot, Jean Gabriel Charrier, is about Human Factors and medical errors. He lectures intensively on Simplification on Implants Dentistry (including short implants), Complications, Biomechanics and Bone Grafting procedure. Dr. Renouard was elected to the European Association for Osseointegration executive board in Amsterdam in 2000, and is Past President-for the organization (2006-2008). He is member of Osteology Foundation board. He is in Private Practice in Paris limited of Oral and Implant Surgery. He is visiting Professor at the Medicine Faculty of Lieges, Belgium.

**NITZAN BICHACHO**
Professor Bichacho heads the Ronald E. Goldstein Center for Aesthetic Dentistry and Clinical Research at the Prosthodontics Department of the Faculty of Dental Medicine at the Hadassah Medical Campus in Jerusalem, Israel. Prof. Bichacho is a Life Member and past President of the European Academy of Esthetic Dentistry. He also serves as Scientific Editor and as an editorial board member of several international publications. Professor Bichacho has been publishing and lecturing worldwide in the fields of dental implant therapy, fixed prosthodontics, and innovative treatment modalities in aesthetic dentistry. He is also the conceptor and inventor of several clinical techniques and dental and implant products, widely used the world over. His private practice in Tel Aviv is focused on interdisciplinary treatments, where he collaborates with multinational colleagues and dental technicians.

**SPEAKERS**

**JUAN CARLOS LLODRA**
*Permanent Professor of Preventive and Community Dentistry University of Granada * Visiting Professor of Preventive Dentistry. University of Lyon * Chief Dental Officer for Spain in the European Commission of Chief Dental Officers (CECDO), * General Secretary and Executive Director.

**ECONOMICAL AND DEMOGRAPHIC SITUATION IN EUROPEAN DENTISTRY**

**ELISABETH KALENDERIAN**
Elisabeth (Elisabeth) Kalenderian was born in the Netherlands. She received her DDS-degree in 1983 from Rijks Universiteit Groningen, The Netherlands. She moved to Boston as a Fulbright Scholar, completing an internship and residency in Oral and Maxillofacial Surgery from Boston University in 1986. In 1989, she received a Master’s in Public Health from Harvard School of Public Health. In 2007, Dr. Kalenderian made the transition to an academic career at the Harvard School of Dental Medicine, starting as Assistant Dean for Clinical Affairs and rising to Associate Professor and Chair of the Department of Oral Health Policy and Epidemiology. She recently obtained a PhD defending her thesis “EZCodes: a diagnostic terminology as the foundational step of quality for the dental profession”. Dr. Kalenderian has published more than 30 scientific publications in peer-reviewed journals and is frequently asked to be a speaker at conferences for Quality Improvement, Dental Diagnostic Terminologies, Meaningful Use, Leadership, and Patient Safety. She currently is Principle Investigator on three NIH funded R01 grants. Dr. Kalenderian administrative career included leadership positions as Administrator at Children’s Medical Center, Boston, MA (1990-1995); Director of Strategic Planning and Provider Relations, Vice President, Medical Management and Patient Care Services at North Shore Medical Center (Salem, USA) (1995-2001); Executive Director of Transition House (Cambridge, USA) (2001-2004); and Vice President for Quality Improvement Initiatives and Senior Vice President for Health Strategies at the American Heart Association (2004-2007).

**LEADERSHIP AND PRODUCTIVE TEAMS IN DENTISTRY**
PRIMITIVO ROIG JORNET
Dentist with clinical practice at the dentalDoctors Center in Valencia and main focus on comprehensive rehabilitation as well as motivating patients towards prevention. Education and training include an MBA in Health Management at the UCV, an Executive Management Program at the Kellogg’s Management School, a Preceptorship program in Periodontics and Aesthetic Continuum at UCLA, a Masters Program in Periodontics and Implant Dentistry at the Eastman Dental Hospital of Rome and an ITI Scholarship Program in Implant Dentistry at the School of Dental Medicine, University of Geneva. CEO of The dentalDoctors-Institute of Management, a leading dental management organization, and director of the “CE Program in Dental Leadership and Practice Management”. Regular contributing speaker at various institutions, lecturing on such topics as communication with patients, clinical management, professional development strategies, team organization, leadership and patient satisfaction. Recently appointed to a part-time faculty position as Lecturer at the Harvard School of Dental Medicine. Author of several articles and publications, including the Practical Booklets on Dental Practice Management or the Correspondence Course in Practice Management and Organization in Dentistry. Editor of the dDr E-newsletter, a monthly publication on management in dentistry with more than 7,000 subscribers.

THE MANAGEMENT VISION: TOTAL SUCCESS IN DENTISTRY

GALIP GUREL
Dr. Galip Gurel graduated from the University of Istanbul, Dental School in 1981. He continued his education at the University of Kentucky, Department of Prosthodontics. Received his MSc degree from Yeditepe University in, Istanbul. Dr. Gurel is the founder and the honorary president of EDAD (Turkish Academy of Aesthetic Dentistry). He was the President of the European Academy of Esthetic Dentistry (EAD) for 2011 & 2012. He is also a member of the American Society for Dental Aesthetics (ASDA) and American Academy of Restorative Dentistry (AARD) and the honorary diplomate of the American Board of Aesthetic Dentistry (ABAD). He is a visiting professor at the New York University (USA), Marseille Dental University (France) and Istanbul Yeditepe University (Turkey). He is the author of “The Science and Art of Porcelain Laminate Veneers” published by Quintessence publications in 2003 translated into 10 different languages. He has been practicing in his own clinic in Istanbul, specializing in Aesthetic Dentistry, since 1984.

EFFICIENT COMMUNICATION WITHIN THE TEAM AND WITH THE PATIENT FOR THE IDEAL TREATMENT OUTCOME

SESSION ABSTRACT
Practice Management and leadership in Dentistry are two elements which are becoming increasingly relevant in the profession. Despite the fact that management has turned into an essential cornerstone of praxis, the majority of dentists have yet to integrate these skills—which have such enormous impact on their professional growth and the quality of care they give to their patients—with their clinical training.

Management has become an essential accessory to clinical quality and continuous improvement. Nowadays, the use of financial criteria, leadership, organization, business management and patient communication optimization, which all make a significant competitive difference, has become imperative.

Every professional, whether they have their own practice or not, who want to give better quality service, satisfy the demands of today’s patients, surround themselves with an efficient and motivated team, achieve success, enjoy their professional activity and have enough financial solvency to be able to constantly reinvest in training and in the latest technology, should know how to direct their practice and/or professional career.

In this session, we will start from a macro-economical point of view and continue on through the topics of leadership, team building and management and dental marketing considerations to finally end off with in-clinic communication: a subject that will make participants see how excellence in dentistry, in today’s world, is influenced by more than just clinical knowledge and manual skills.
FRIDAY, 26TH SEPTEMBER

15:00 / 16:30 (SANTA CECILIA)

PARALLEL SESSION 1

EVALUATION OF AESTHETIC AND FUNCTIONAL LONG-TERM RESULTS.

CHAIRPERSONS

GIL ALCOFORADO
Graduated in Dentistry in 1980 – University of Lisbon Specialty in Periodontology – University of Bergen, Norway - 1983 Visiting Researcher at the U. of Pennsylvania with Prof. Jorgen Slots, Sture Nyman and Max Listgarten – 1986 (Full time) Visiting Professor at the University of Michigan in Ann Arbor – 1989/1990 (Full Time) Ph.D. in Periodontology at the University of Lisbon – 1995 Visiting Professor at the U. of Southern California – 2000 - Today Chairman and Full Professor, Depart. of Periodontology and Director of the Master Program in Periodontology (3 years program), U. of Lisbon Vice-Dean Lisbon Dental School, University of Lisbon -2000 – 2004 Founder and President of the Portuguese Periodontal Society Past-President of the European Federation of Periodontology Fellow of the International College of Dentists (since 1985) and Regent for Portugal since 2009 Chairman of the Philip Dear Foundation – ICD – European Section – since 2013 Fellow of the Pierre Fauchard Academy Fellow of the International Team for Implantology, Past-Chairman of the Iberian ITI Section Fellow of the American College of Dentists – Since 2009 Board Member of the EAO (European Association of Osseointegration) – since 2012

JEAN-LOUIS GIOVANNOLI
Dental School - University of Paris VI (France)
Residency in Periodontology - University of Washington (USA)
Master in Education - University of Florida (USA)
Former Assistant Professor - University of Florida (USA)
Chargé de Cours - University of Paris VII
Former President of the French Society of Periodontology
Former President of the European Federation of Periodontology
Private practice limited to Periodontics and Oral Implantology
Scientific Director of Quintessence International

SPEAKERS

RUDOLF FURHAUSER
Rudolf Fürhauser, MD, DMD / 1977-1983 Study of Medicine, Medical Faculty, University of Vienna, MD / 1983-1987 General practitioner / 1987-1989 Study of Dentistry at the Dental School of Vienna, DMD / 1990-2010 Assistant Professor - Prosthodontic Department of Dental School of Vienna since / 2004 Member of the Academy of Oral Implantology / since 2011 Medical Director of the Academy of Oral Implantology / Main topics: implant prosthetics, aesthetics, biomechanics, partial denture design

OBJECTIVE EVALUATION OF AESTHETIC OUTCOME: DIFFERENT METHODS

Objective evaluation of the aesthetic outcome is still a controversial issue and, by far, a universal standard is not established. However, there is a need for data to compare the aesthetic outcome of different treatment modalities. In this lecture one particular implant will be evaluated by ten available scores to give an overview. In order of publication date the following scores will be presented: Papilla-Index (Jemt 1997), Pink Esthetic Score (Fürhauser et al. 2005), Implant Crown Aesthetic Index (Mejer et al. 2005), Implant Aesthetic Score (Testori 2005), Subjective Esthetic Score (Evans & Chen 2008), Pink and White Esthetic Score (Belser et al. 2009), Complex Esthetic Index (Juodzbalys and Wang 2010) and Copenhagen Index Score (Hosseini and Gotfredsen 2012). The impact of these scores in literature and the usablity in daily work will be discussed.

URS BELSER
Graduated at the Dental Institute, Faculty of Medicine, University of Zurich, Switzerland. Postgraduate specialty training in Reconstructive Dental Medicine (board certified specialist) at the University of Zurich, Assistant Professor and then, Senior Lecturer at the Department of Fixed Prosthodontics and Dental Materials of the University of Zurich (Chairman: Prof. Dr. Peter Schaerer, M.S.), from 1976 to 1980. Visiting Assistant Professor (1980-1982) at the Departments of Oral Biology (Chairman: Prof. Dr. A.G. Hannam) and Clinical Dental Sciences (Chairman: Prof. Dr. W. A. Richter), Faculty of Dentistry, University of British Columbia (Canada). 1983-2012: Professor and Chairman of the Department of Fixed Prosthodontics and Occlusion at the University of Geneva School of Dental Medicine. President of the Swiss Association of Prosthetic Dentistry from 1984 to 1988. 2002: Recipient of the Scientific Research Award of the Greater New York Academy of Prosthodontics. President of the European Association of Prosthodontics (EPA) from 2002 to 2003. 2006 Visiting Professor, Harvard University, School of Dental Medicine (Boston, USA), Department of Restorative Dentistry and Biomaterials Sciences (Prof. Dr. H. P. Weber). 2005-2009: President of the School of Dental Medicine, University of Geneva. Since November 2012: Guest Professor, Department of Oral Surgery and Stomatology (Prof. Dr. D. Buser), and Department of Fixed Prosthodontics (Prof. Dr. U. Braegger), School of Dental Medicine, University of Bern. April 2013: Honorary Fellow of the ITI and Editor-in-Chief of the Forum Implantologicum of the ITI. Research activities in the fields of implant dentistry, with special emphasis on esthetics and latest developments in the field of CAD/CAM technology and high performance dental ceramics, as well as on adhesive reconstructive dental medicine.
IS STABLE LONG TERM AESTHETIC OUTCOME ACHIEVABLE?

This presentation will focus on treatment protocols currently used to replace missing teeth in the anterior maxilla with implant-borne fixed dental prostheses (FDPs) to predictably restore function and esthetics. In this context, long term data of anterior implants, specifically addressing esthetic parameters, will be presented. Based on these results, the rationale for an early placement / early loading concept will be discussed in detail, comprising the related preoperative analysis, decision-making process and clinical / laboratory step-by-step procedures. In particular, the fundamental difference between single-tooth sites, two adjacent missing anterior maxillary teeth, and more extended edentulous segments, often accompanied by significant horizontal and vertical tissue deficiencies, will be addressed. Furthermore, a critical appraisal of the recent evolution in implant design and novel restorative components, such as CAD/CAM derived high-strength ceramic elements will be made. Finally, the prevention and management of esthetic implant complications / failures will be presented.

ANNE-MARIE ROOS–JANSÅKER

Dr. Ann-Marie Roos-Jansäker received her DDS from Malmö University, Sweden in 1986. She worked with general dentistry at the national Public Dental Health Service until 1997. She became a certified specialist in periodontology in 2002 and was awarded the degree of Odont.Dr. (PhD) in 2007. Her thesis is entitled «Long time follow up of implant therapy and treatment of peri-implantitis». She currently works at the Centre for Specialist Dentistry in Kristianstad and collaborates with Kristianstad University Collage and Malmö University in clinical research on peri-implantitis, periodontitis and impacted teeth.

COULD WE REDUCE BIOLOGIC LONG TERM COMPLICATIONS OF IMPLANT SUPPORTED RESTORATIONS

Today we know that long term biological complications around dental implants are common. The dentist must penetrate the patients’ risk factors and decide whether the patient should be a candidate for implants or not, before implant treatment. Implants are today sometimes placed in periodontitis patients, smokers and sometimes without control of the patients oral hygiene, which we know are risk factors. Even if we have control of risk factors ant the patient is cooping with the plaque control, we can only imagine the width of the problem when the patients get older and less cooperative with their oral hygiene habits due to illness, less strength and reduced manual dexterity. Is the dental profession prepared? The primary etiological factor of peri-implant disease is bacteria and all efforts should be accomplished to reduce the biofilm. It is of great importance to teach all patients with dental implants proper oral hygiene habits and recommend efficient preventive dental care products and also give the patient individualized maintenance programme depending on the risk factors. When the patient gets supportive care regularly, early signs of inflammation can be detected, and in that way, it is possible to prevent the development of peri-implantitis, which has been shown to be difficult to treat and may lead to implant loss. The peri-implant mucosa should regularly be monitored. The peri-implant pocket needs to be probed to register deepened pockets, bleeding on probing and pus. Radiographs are needed to detect peri-implant bone loss. Bleeding on probing is a predictor for bone loss and pus indicates bone loss. All efforts must be done to reduce the long term complications once they are manifest around the implants. However, presently the results following treatment of tissue destructive inflammation seems very limited. The question remains whether it is at all possible to successfully treat this condition.

MAURIZIO TONETTI

Qualifications: DMD (Genova, Italy), PhD (Berne, Switzerland), MMSc (Harvard, USA), FRCPS, FRCS(England) Current position: Executive Director, European Research Group on Periodontology (ERGOPerio). Formerly, professor and Head, Department of Periodontology, School of Dental Medicine, University of Connecticut Health Science Centre. Professor and Head, Department of Periodontology at University College London – UK. Adjunct Professor, University of Berne – Switzerland, and University of North Carolina at Chapel Hill – USA. He serves as Editor in Chief of the Journal of Clinical Periodontology and President of the Italian Society of Periodontology and Implant Dentistry (SIdIP). Clinical activity: a specialist in Periodontology maintains a part-time private practice limited to Periodontology and implant surgery with emphasis on regeneration, minimally invasive surgery and microsurgery. The focus of his recent research activities has been twofold: regeneration and bio-engineering of lost periodontal structures and incorporation of dental implants in the management of periodontal patients. The research of his team has spanned from fundamental discovery to clinical translation. He has been widely recognized for his contributions to improved periodontal diagnosis and risk assessment, control of periodontitis, the practice of periodontal regeneration and design and execution of large clinical trials in Periodontology and Implant Dentistry. He is considered as one of the most influential periodontists worldwide. He has been engaged worldwide in the planning and delivery of advanced educational programs in the fields of Periodontology and Implant Dentistry.

A COMPARISON OF SMOOTH AND MICRO–ROUGH TITANIUM SURFACE: ARE WE ON THE RIGHT TRACK?

The latest generation of implant surfaces have undoubtedly improved the short term success of osseointegrated implants and have widened the area of application of implant dentistry significantly. It is important however to consider if this evolution has come with adverse events that may manifest themselves medium to long term. This presentation will address the fundamental and preclinical data as well as the scientific clinical evidence. The objective is to frame the issues related to implant surface, geometry and design as they relate to tissue health and stability of the result. This is of great importance at a time of great interest to peri-implant diseases, to their prevention, early diagnosis and treatment.
FRIDAY, 26TH SEPTEMBER

15:00 / 16:30 [ THEATRE STUDIO ]

ORAL COMMUNICATIONS

CLINICAL RESEARCH COMPETITION – SURGICALLY RELATED

CHAIRPERSONS

SOREN SCHOU
Dr Søren Schou is Professor and Chairman at the Department of Oral and Maxillofacial Surgery and Oral Pathology, School of Dentistry, University of Aarhus, Denmark. He gained his DDS in 1988, PhD in 1993, board certification in oral and maxillofacial surgery in 1999, and DrOdont in 2004. Between 1988 and 1989 he undertook military dental service and from 1989 to 2002 he was a PhD student, Assistant Professor and finally Associate Professor at the School of Dentistry, University of Copenhagen and University Hospital, Rigshospitalet, Denmark. Subsequently, he was full-time consultant at Aalborg Hospital, Aarhus University Hospital, Denmark, until 2007. Professor Schou has published in national and international scientific journals, focusing on oral and maxillofacial surgery and oral implantology, with special emphasis on peri-implantitis. He is secretary general of the European Association for Osseointegration and associate editor of European Journal of Oral Implantology. His current research interests are oral implantology, including implant treatment of individuals with congenitally missing teeth and periodontitis-associated tooth loss, as well as bone biology, bone regeneration, and surgical endodontics.

SPEAKERS

(78) CARLOS EDUARDO FERREIRA
MEMBRANE PERFORATION DURING SINUS GRAFT PROCEDURE: A CLINICAL AND HISTOMORPHOMETRIC STUDY

(79) DAVID ANSSARI MOIN
SURGICAL TREATMENT OF PERI-IMPLANTITIS: RADIOGRAPHIC EVALUATION AFTER 12 MONTHS FOLLOW-UP.

(80) STEFAN ROEHLING
COMMERCIALY AVAILABLE ZIRCONIA IMPLANTS UP TO AND AFTER 7 YEARS OF LOADING – A RETROSPECTIVE CLINICAL STUDY WITH REGARD TO SURVIVAL AND SUCCESS RATES

(81) IN-KYEONG LEE
THE EFFECT OF PARTICULATED AUTOGNENS BONE LAYER COMBINED WITH BONE SUBSTITUTE FOR GUIDED BONE REGENERATION IN DOGS

(82) ULRRIKE KUCHLER
IMMEDIATE IMPLANT PLACEMENT WITH SIMULTANEOUS SOCKET GRAFTING IN THE ESTHETIC ZONE – 10-YEAR CLINICAL AND RADIOGRAPHIC OUTCOMES

(83) YVONNE DE WAAL
FACTORS ASSOCIATED WITH SUCCESS OR FAILURE OF SURGICAL PERI-IMPLANTITIS TREATMENT

(84) MARCO RONDA
THE “BRUSHING” TECHNIQUE: A NOVEL APPROACH FOR THE CORONAL ADVANCEMENT OF THE BUCCAL FLAP.
FRIDAY, 26TH SEPTEMBER

15:00 / 16:30 (PETRASSI)  
ORAL COMMUNICATIONS

CLINICAL RESEARCH COMPETITION – PROSTHETICALLY ORIENTED

CHAIRPERSONS

HOM-LAY WANG  
Hom-Lay Wang, DDS., MSD., Ph D., Collegiate Professor of Periodontics, Professor and Director of Graduate Periodontics at the University of Michigan. He published more than 25 book chapters/invited reviews and more than 350 scientific articles. Dr. Wang is a member of Leadership Development and Qualification Committee as well as a Consultant of Scientific Oversight Committee for the American Academy of Periodontology and also serves as a Chair of Website Educational Committee as well as a member of Clinical Innovation Committee for the Academy of Osseointegration, is a Diplomat and a Former Co-Chair and Director of the American Board of Periodontology and a Fellow of American College of Dentists. He serves as an Associate Editor for The International Journal of Oral & Maxillofacial Implants and Founding Editorial board member for Clinical Advances in Periodontics, Editorial Board member for the Journal of Periodontology, Clinical Oral Implants Research, International Journal of Periodontics & Restorative Dentistry, Journal of Clinical Periodontology, Compendium of Continuing Education in Dentistry and many others. Dr. Wang is the recipient of following awards/honors: AADS clinical research fellowship award (1992), Best Faculty Award (2003), The Charles E. English Annual Award in Clinical Science and Techniques (2004), Best papers in Journal of Oral Implantology (2004) and Implant Dentistry (2004), Morton L. Perel Annual Award for Dental Implant Educator (2007), AAP University of Michigan Outstanding Teaching and Mentoring in Periodontics (2010), AAP special citation award (2013) and ITI Andre Schroeder Research Prize (2014).

GEORG WATZEK  
Georg Watzek received the MD degree, DDS degree and PhD and performed the the Specialty board examination in Oral and Maxillofacial Surgery at the Medical University of Vienna, was Head of the Department of Oral Surgery and Dean of the University Clinic of Dentistry in Vienna up until 2012. He was for years President of the Austrian Society of Oral Surgery and Implantology and Acting President of the European Association for Osseointegration (EAO) 2003-2004 . His research and patient therapy has focused on all parts of Oral and Maxillofacial Surgery and in the last ten years especially on implantology and bone grafts in combination with implants. He is the author of more than 300 publications, including 9 textbooks.

SPEAKERS

(93) STEFANIE RAES  
Oral-health-related quality of life changes of immediately loaded single implants in the esthetic zone: a 5-year prospective study.

(94) DIEGO LOPS  
Customized pick-up technique and reproducibility of periimplant soft tissues architecture in anterior area: a 2–years prospective study.

(95) ROBERTO COCCHETTO  
Improved cementation technique for implant restorations to avoid periimplant cement remnants: clinical and microscopical evaluation with two different abutment design.

(96) TIAGO BORGES  
Clinical and radiographic outcomes in maxillary single-implant treatment with different customized abutments: a 1–year prospective study.

(97) ALESSANDRO CUCCHI  
Influence of crown-implant ratio on implant success rates and crestal bone levels after 3– to 5–years of follow-up.

(98) GUSTAVO FRAINER BARBOSA  
Single crowns supported by short (6 mm) dental implants in the posterior region: a 3–year prospective study.

(99) VYGANDAS RUTKUNAS  
Clinical evaluation of implant position accuracy with intraoral and laboratory scanners.
SATURDAY, 27TH SEPTEMBER

08:00 / 10:45 (Petrassi)

**COLLABORATIVE SOCIETIES PROGRAMME**

**SICOI, SIDCO & SIO: RISK FACTORS IN IMPLANT DENTISTRY: HOW TO PREVENT IMPLANT FAILURES**

**CHAIRPERSONS**

**GILBERTO SAMMARTINO**
- Head of the Unit of Oral Surgery and Implantology University of Naples “Federico II”
- Past Chief of the School of Oral Surgery, University of Naples “Federico II”
- Past President of the Italian Society of Oral Surgery (S.I.d.C.O.)
- President of the S.E.N.A.M.E implantology Association
- President of the I.C.O.I Italy Association
- President of ANTHEC - Academy of Non Transfusional Hemo-components
- Co-Chairman of the I.C.O.I Europe Association
- Author of more than 250 articles published on national and international journals
- Lecturer in national and international courses and conferences
- Co-Editor of Poseido Journal
- Guest editor of Case Report in Dentistry
- Guest Editor of Special issues of Journal of Biomedical Research
- Member of the Editorial Board of different Journals
- Referee of International Scientific Journals

**GUISEPPE LUONGO**
- Degree in medicine and surgery from the University of Naples in 1980.
- Post-graduate specialization in Odontostomatology from the University of Rome in 1983, Specialization in Maxillo-Facial Surgery from the University of Naples in 1988.
- Since 1988, his main interest is intra- and extra-oral rehabilitative and reconstructive surgery through the use of osteo-integrated implants.
- Visiting Professor at the School of Maxillo-Facial Surgery of the University Federico II of Naples From 1999.
- Member of several Italian and international professional associations, and author of numerous publications on implantology.
- Member of the Biomaterial International Club.
- President of the SIO (Italian Society of Osteointegration), 2009-2011
- Private practice in Rome.

**SPEAKERS**

**CARLO MAIORANA**
- Degree in medicine and surgery
- Specialty in stomatology and orthodontics
- Chairman, oral surgery, University of Milan School of Dentistry
- Head, Department of Dental Implants, Hospital Fondazione Policlinico, University of Milan
- Director, School of Specialty in Oral Surgery, 2010-2013
- Director, School of Specialty in Orthodontics, 2014-2017
- President, Italian Society of Specialists in Oral Surgery

**IMPLANTS AND SYSTEMIC DISEASES: CURRENT TRENDS**

The treatment of patients affected by different systemic diseases is becoming more and more routinely practice. Unfortunately, some conditions can represent a relative or absolute contraindications to implant therapy in the light of possible systemic and local complications. Some of the most common systemic diseases and their reflex onto the implant treatment will be discussed in the light of the recent literature.
ALESSANDRO ROSSI
Alessandro Rossi DDS, MSc Oral Surgeon Graduated in Odonto-Stomatology and Dental Prosthodontics, at the University of Milan. From 1997 member of the Department of Oral Surgery and Implantology (Head Prof. M. Chiapasco) at the Dental Clinic -San Paul Hospital - University of Milan. Just visiting professor in dental implant rehabilitation at the School of Odonto-Stomatology at the University of Milan. Lecturer in post-graduate courses of Oral Surgery and Implant-prosthodontic - Dental Clinic University of the study of Milano. From 2006 fellow of the International Team for Implantology (ITI). In 2007 he obtained the graduate diploma in Oral Surgery at the University of Milan. Active Member of the Italian Society of Oral Surgery and Implantology (SIOI). His clinical activity is focused on oral surgery, with particular attention to implant-prosthetic and preprosthetic surgery. He is the author or co-author of papers published in international and in Italian journals. He is co-author of some textbooks related to oral and maxillofacial surgery.

HOW TO PREVENT SURGICAL COMPLICATIONS IN ORAL IMPLANTOLOGY
Implant therapy has undergone an incredible expansion in the last decades, due to the predictability of this surgical modality for the rehabilitation of both partially and totally edentulous patients. Before undergoing such interventions, the risks of complications and failure as well as treatment alternatives need to be carefully evaluated between the patient and the dentist. Some complications, both intraoperative and postoperative, may arise also in experienced hands. Surgical complications such as injury of the inferior alveolar nerve, perforation of the floor of the mouth and the sinus cavity and damage of adjacent teeth may occur at time of implant placement. The aim of this lecture is to present an overview of the most frequent surgical complications related to implant placement as well as of biological complications and to provide recommendations in order to avoid and manage such complications. In particular, information concerning the identification and protection of important anatomical structures will be discussed during this presentation.

MATTEO CAPELLI
Dr. Matteo Capelli received his DDS degree in 1990 from the University of Milan (Italy). In 1992, he has a private practice in Milan, Italy, limiting his activities to periodontology and implantology. Since 1998, he is a visiting surgeon teacher at the Department of Implantology, IRCCS Hospital Galeazzi, University of Milan. He is active member of the Italian Society of Endodontics (SIE), the Italian Oral Surgery and Implantology (SIOI), European Society of Esthetic Dentistry (EASE), International Academy of Piezosurgery (IAP) and he is an International Member of the AAP (American Academy of Periodontology). He has contributed several articles in the field of endodontics, implantology and oral surgery. In 2006 he was a contributing writer in Dr. Testori’s book, Sinus Lift (Quintessence ed.), where he wrote a chapter about mandibular bone graft. In 2008 he was a contributing writer in Dr. Testori’s book “The immediate loading” (Quintessence ed.) where he wrote a chapter about post extraction implants. Is author of a book: Implantologia. Tecniche implantari mininvasive ed innovative Acme ed. 2012. He is a lecturer on topics related to implant surgery.

HOW TO PREVENT IMPLANT AESTHETIC FAILURES
Nowadays the implant surgical challenge is represented by the implant aesthetic integration related to soft tissue in a high valence area. In order to obtain a good final result, a careful pre-surgical analysis of the surgical and prosthetic risk factors should be performed by the clinician. The different disciplines involved in the treatment should not be dealt with separately. The only way to achieve a satisfactory result is to take into consideration all clinical aspects during each phase of the treatment (treatment plan, surgical stage, prosthetic phase). A macro to mini analysis supported by a digital software for the ideal final prosthetic morphology and the implant 3D position represents a crucial step forward to reduce the pitfalls to final result.
REDUCING TREATMENT TIME : IS IT ALWAYS A MUST?

CHAIRPERSONS

THEODOROS KAPOS
Dr. Kapos received his dental degree (DMD) from Harvard School of Dental Medicine. He then completed a three-year specialty program once again, at Harvard School of Dental Medicine, where he earned an MMSc degree in Oral Biology and a Certificate in Prosthodontics. In order to further his skill and knowledge, Dr. Kapos joined a two year Advanced Graduate Implantology Program at Harvard from which he received a certificate in Implant Dentistry. Following completion of his Advanced Graduate training, he was then appointed as faculty at Harvard as a clinical instructor at the Department of Restorative Dentistry and Biomaterials Sciences. Currently he works as a private practitioner in Mayfair London, UK and he a Lecturer at the Department of Restorative Dentistry and Biomaterials Sciences at Harvard School of Dental Medicine. Dr. Kapos is a Fellow of the International Team for Implantology (ITI), the Chairman of the Junior Committee of the European Academy for Osseointegration (EAO), and an active member of the American College of Prosthodontics (ACP). He has been invited to lecture at local, national and international meetings, and his research has been published in international peer-reviewed journals.

JOSE MANUEL NAVARRO
Dr. José Manuel Navarro received a Certificate in Periodontology and Implant dentistry after completing a 3 year program at New York University College of Dentistry (Chairman Dennis Tarnow). He was also awarded a Master of Science degree in Biomaterials from NYUCD (Chairman Van Thompson) for his research on high strength ceramics. Dr. Navarro has received awards for his research from different societies, including the Academy of Osseointegration best presentation award in 2007 and the European Academy of Esthetic Dentistry Research Award in 2011. He has co-authored several peer-reviewed publications and book chapters and is Co-Editor of the book “High Strength Ceramics” Quintessence 2014. Presently, he is the chairman of the EAO Junior Committee, and practices periodontics, prosthodontics and implant dentistry in Las Palmas, Madrid and London.

SPEAKERS

TIZIANO TESTORI
Received his MD degree (1981), DDS degree (1984), Speciality in Orthodontics (1986) from University of Milan, Italy. Fellowship at the Division of Oral Maxillo-Facial Surgery (Head: Robert E. Marx, DDS), School of Medicine, University of Miami, Miami FL (2000). Currently Head of the Section of Implant Dentistry and Oral Rehabilitation Department of Biomedical, Surgical and Dental Science (Chairman: prof. R.L. Weinstein), IRCCS, Galeazzi Institute, University of Milan, Milan, Italy. Associate clinical professor School of Dentistry, University of Milan, Milan, Italy. Past President (2007 – 2008) of the Italian Society of Oral Surgery and Implantology (SICOI). Member of the Editorial Board of IJOMI, EJOI, IJPRD, Quintessence Publishing. Author of 93 peer-reviewed publications indexed in pub Med.

The ultimate goal of an immediate loading protocol is to reduce the number of surgical interventions and shorten the time frame between surgery and prosthetic delivery, all without sacrificing implant success rates. These new protocols will ultimately lessen patient’s reservations and result in increased acceptance of implant therapy. The lecture will address a variety of topics related to immediate loading in different clinical situations: edentulous mandible and maxilla, partially edentulous patients from single tooth to multiple units. A review of the available literature along with the biologic rationale for Immediate Loading will be presented.

PAOLO CASENTINI
Dr. Casentini graduated in Dentistry at the University of Milan – Italy. He is now teacher at the Post-Graduate Course in Oral Implantology and at the Course of Oral Surgery in the same University. He is Active member of the Italian Society of Osseointegration, Active member of the Italian Society of Oral Surgery and Implantology. Fellow of the ITI (International Team for Implantology) and Member of the Italian Society of Periodontology. He is Author or co-author of scientific papers about Implantology and Regenerative Surgery published on peer-reviewed international journals: co-author of 8 text-books about Implantology, Pre-Implant Surgery and Oral Surgery some of them published in English and/or translated in several other languages. He is co-author of the ITI Treatment Guide volume 4. His main fields of interest are the surgical and prosthetical aspects of Implantology, Periodontology and Prosthetic Rehabilitation in advanced and Esthetically demanding cases. He has extensively lectured on these topics in Europe, United States, South America and Asia.
Economical conditions of patients and commercial pressure from the implant companies often push clinicians to reduce treatment time of implant supported rehabilitations. Of course there are some clinical situations where reducing treatment time can represent a benefit for the patient in terms of quality of life. In patients with hopeless residual dentition, for example, an immediate loading protocol could be able to avoid a removable prosthesis. Reducing treatment time can, of course, represent a benefit also for the clinician. Nevertheless, in other clinical conditions, like in esthetically demanding cases, more time is needed in order to achieve optimal esthetical results. In general, an accurate diagnosis and previsualisation of treatment will allow to evaluate for the clinician and also for the patient, specific risk factors and limitations of treatment. Furthermore, a staged approach allows the clinician to evaluate the result and possible corrections at every step. On the other hand, usually, hard and soft tissues augmentation techniques require longer healing periods, as well as soft tissue conditioning and consequential prosthetic steps. The aim of this lecture is to show when a reduction of the treatment can time can be convenient and predictably achieved and when a staged and longer treatment time will help us to manage complex situations in the esthetically demanding cases.

DENIS TARNOW

Dennis P. Tarnow is currently Clinical Professor of Periodontology and Director of Implant Education at Columbia School of Dental Medicine. He is the former Professor and Chairman of the Department of Periodontology and Implant Dentistry at New York University College of Dentistry. Dr. Tarnow has a certificate in Periodontics and Prosthodontics and is a Diplomat of the American Board of Periodontology. He is a recipient of the Master Clinician Award from the American Academy of Periodontology and Teacher of the Year Award from New York University. Dr. Tarnow has a private practice in New York City, and has been honored with a wing named after him at New York University College of Dentistry. He has published over one hundred articles on perio-prosthodontics and implant dentistry and has coauthored three textbooks including one titled Aesthetic Restorative Dentistry. Dr. Tarnow has lectured extensively in the United States and internationally in over thirty countries.

Reducing treatment time is always very enticing for both the clinician and the patient. However, even though we know have ways to treat patients with immediate implants into fresh sockets and also do immediately loading on full arch cases, these procedures have clear problems if not executed well. The responsibility is with the clinician to choose the appropriate case for each procedure and also know when not to choose to do too many miracles at one time. This clinically oriented discussion will focus on where we are today and how and who should be doing these types of demanding procedures.
SATURDAY, 27TH SEPTEMBER

08:45 / 10:15 (THEATRE STUDIO)

POSTER PRESENTATION

ORAL COMMUNICATIONS

CHAIRPERSONS

LUIGI GUIDA
Graduate in Medicine and Surgery in 1979 and specialist in Odontostomatolog and Maxillo-Facial Surgery in 1982 and 1989 at the University «Federico II» of Naples (Italy). Head of the Periodontology Unit and Professor of Periodontology at the University of Bari from 1997 to 2000. Full Professor of Periodontology at the Second University of Naples from 2001. Head of the Implant Dentistry Unit and Director of the Master in Implant Dentistry at the Second University of Naples from 2005. President of the Italian Society of Osseointegrated Implantology (SIO) for the biennium 2013-2014. Author of a high number of scientific publications and invited speaker at various national and international conferences, he directs several research projects in the field of Periodontology and Implant Dentistry.

JOSEPH KAN
Dr. Kan completed Prosthodontics and Implant Surgery from Loma Linda University School of Dentistry. He is a Professor and maintains a private practice. He is on the Editorial Board of The International Journal of Periodontics and Restorative Dentistry, and The International Journal of Esthetic Dentistry. Dr. Kan honors include the 1997 Best Research Award from the Academy of Osseointegration, the 2003 Judson Hinckey Award from the Journal of Prosthetic Dentistry and the 2005 Robert James Implant Achievement Award. He has published over 75 reference articles and textbooks chapters with emphasis on periodontal tissue management, immediate and delayed tooth replacement, and esthetics implant treatment planning.

SPEAKERS

114 PABLO GALINDO-MORENO
5 YEAR FOLLOW-UP FROM A PROSPECTIVE MULTICENTRE STUDY REPLACING SINGLE ANTERIOR TEETH WITH NARROW, 3.0 MM DIAMETER, IMPLANTS

115 DOMINIK RIEDER
PINK ESTHETIC SCORE OUTCOME OF IMMEDIATE AND EARLY IMPLANT PLACEMENT IN A RANDOMIZED CLINICAL TRIAL

116 BURAK DEMIRALP
EFFICACY OF DIFFERENT CLEANING METHODS ON THE TITANIUM SURFACE IN FAILED IMPLANTS: IN VITRO STUDY

117 GEORG D. STRBAC
THERMAL EFFECTS OF A COMBINED IRRIGATION METHOD DURING IMPLANT SITE DRILLING. A STANDARDIZED IN VITRO STUDY USING A BOVINE RIB MODEL

118 BERNHARD POMMER
ESTHETIC EVALUATION OF FLAPLESS SINGLE-TOOTH IMPLANTS IN THE ANTERIOR MAXILLA USING GUIDED SURGERY: ASSOCIATION OF 3D ACCURACY AND PINK ESTHETIC SCORE

119 MAURICIO PEREIRA
POTENTIAL RISK INDICATORS FOR PATHOLOGICAL BONE LOSS

120 TATIANA CUNHA
Masticatory Ability of Overdentures Wearers Retained by Conventional or Mini Dental Implants.

121 ADRIANA RIBEIRO
POSTOPERATIVE PAIN AND DISCOMFORT FOLLOWING INSERTION OF DIFFERENT IMPLANTS FOR THE RETENTION OF OVERDENTURES.

122 TASSO VON HAUSSEN
STABILITY OF THE TRABECULAR METAL DENTAL IMPLANT IN EARLY LOADING CASES – PRELIMINARY RESULTS OF A PROSPECTIVE RANDOMIZED CLINICAL STUDY

123 FRANCISLEY SOUZA
SUCCESS RATE OF OSSEOINTEGRATED IMPLANTS PLACED IN ATROPHIC MAXILLAE RECONSTRUCTED BY MEANS OF AUTOGENOUS BONE GRAFTS OBTAINED FROM THE CALVARIA

124 ALEX MARTINS MACHADO
ONLAY BONE GRAFTS FIXATION AND INTEGRATION WITH N-BUTYL–2-CYANOACRYLATE, POSITIONAL SCREWS OR LAG SCREWS. A BIOMOLECULAR STUDY IN RABBITS.
**SATURDAY, 27TH SEPTEMBER**

**08:45 / 10:15 (Sinopoli)**

**BONE AUGMENTATION DILEMMAS**

**CHAIRPERSONS**

**PASCAL VALENTINI**

Pascal Valentini received his DDS of the University of Paris 7 Denis Diderot in 1982 and the post graduate in Oral Implantology from the same university in 1992. Director of the European Post Graduate Program of Oral Implantology at the University of Corsica (France). Adjunct Associate Professor of Implant Dentistry at the University of Loma Linda (USA) . Author of several articles in the field of osseointegration and bone regeneration with a special emphasis on President of the European Association for Osseointegration He maintains a private practice limited to oral and implant surgery in Paris (France).

**CARLO MAIORANA**

- Degree in medicine and surgery
- Specialty in stomatology and orthodontics
- Chairman, oral surgery, University of Milan School of Dentistry
- Head, Department of Dental Implants, Hospital Fondazione Poli clinico, University of Milan
- Director, School of Specialty in Oral Surgery, 2010-2013
- Director, School of Specialty in Orthodontics, 2014-2017
- President, Italian Society of Specialists in Oral Surgery

**SPEAKERS**

**ERIC VAN DOOREN**

Dr. Eric Van Dooren attended the Katholieke Universiteit Leuven, Belgium, where he received his degree in dentistry in 1982. After graduating he opened a private practice in Antwerp, Belgium, which is limited to periodontics, fixed prosthodontics, and implants. Currently Dr. Van Dooren is a Visiting Professor at University of Liege (Belgium) and University of Marseille. He is an active member of the European Academy of Esthetic Dentistry. Dr Van Dooren lectures nationally and internationally, mainly on aesthetics, implants and aesthetic periodontal surgery.

**PROSTHETIC COMPENSATION TO AVOID AUGMENTATION PROCEDURES**

Replacing missing teeth within the esthetic zone in an esthetically satisfactory fashion has been and still is a major challenge in dentistry. High esthetic expectations and the addition of implant therapy have only increased the challenge. It is, therefore, necessary for clinicians and technicians to fully understand all the available options and limitations as well as where, when and how to best utilize them.

**ANDREAS STAVROPOLOS**

Studied dentistry in Heidelberg, Germany, and Thessaloniki and Athens, Greece. Postgraduate training at the dept. of Periodontology, School of Dentistry, Aarhus University, Denmark. Received his Ph.D. in 2002 and his dr.odont. degree in 2011, from the same university, based on studies on guided tissue regeneration and bone substitute materials. Recipient of several awards, including the Anthony Rizzo Young Investigator Award from the Periodontal Research Group of the IADR (2006), the 1st Basic Research Prize of the European Association of Osseointegration (2011), and the Straumann Award for Periodontal Regenerative Medicine from the Periodontal Research Group of the IADR (2013). Author of several publications in international peer-reviewed journals and book chapters. Member of the Editorial Boards of several journals, including Journal of Clinical Periodontology and Clinical Oral Implants Research. Professor and Chair at the Department of Periodontology, Faculty of Odontology, Malmö University, Sweden, since December 2012.

**WHEN DO WE NEED AUTOGENOUS BONE?**

Presence of adequate amount of bone, allowing implant installation with sufficient initial stability and with its circumference completely covered by an adequate amount of bone is considered essential for successful osseointegration. However, patients often present with less than adequate amount of bone for proper implant installation; thus, there is often a need for bone augmentation procedures. Bone augmentation procedures most often involve grafting of bone, bone substitutes, or combinations thereof. Autogenous bone is often considered the “gold standard”. However, is autogenous bone indeed the best material for all clinical indications? Can autogenous bone be replaced? Or should it be used in combination with bone substitutes in some instances? The presentation will focus on the available evidence about what is the most indicative grafting material or combination for various clinical indications.
Current Indications to Resorbable and Non Resorbable Membranes in GBR

GBR is currently used to treat several bone defects in implantology, before or contemporarily to implant placement and can be performed with resorbable or non resorbable membranes, according to the type and extension of the bone defect. Resorbable membranes are commonly used in horizontal defects and provides for the association with autogenous bone chips and bone substitutes due to the absence of space making properties of the membrane.

Non resorbable Ti-reinforced membranes have a wider range of applications and their use is nowadays indicated in case of vertical bone defect, thanks to the capability to maintain a volume avoiding soft tissue collapse into the bone defect. The choice of the ideal membrane is related to the kind of bone defect that has to be treated. The most recent data from the literature will be the scientific background of the proposed concepts in terms of surgical protocol and indications.

Through the analysis of some clinical cases, the indications and the surgical techniques will be illustrated, focusing on the risk factors and the prevention of the possible complications.

Mario Beretta

Degree in Dentistry in 1999 at the University of Milan. Senior resident at the Department of Implantology and Esthetic Restoration (Head Prof. C. Maiaorana) at Dental Clinic (Head Prof. AB Giannì) PoliClinico Fondazione IRCCS Ca Granda. PhD in Implantology in 2003 at the University of Milan. Specialist in Oral Surgery. Visiting Professor at School of Oral Surgery University of Milan. Author of scientific publications and co-author of books concerning implants and bone augmentation. Speaker at National and International congresses.

Massimo Simion


He published several scientific papers and is international lecturer about the topic Periodontology, Osseointegration and Bone Regeneration.

Franck Renouard

Franck Renouard is graduated of the Dental University of Paris V in 1982. He was assistant of Jean-François Tulasne in the Cranio-Maxillo-Facial Team of Paul Tessier from 1983 to 1988 in Paris. He has published several articles and book chapters. He is author of 2 Text Books with Bo Rangert. The first one « Risk Factors in Implant Dentistry: Simplified Clinical Analysis for predictable Treatment» was published in 10 languages. His new book, co-written with a professional pilot, Jean Gabriel Charrier, is about Human Factors and medical errors. He lectures intensively on Simplification on Implants Dentistry (including short implants), Complications, Biomechanics and Bone Grafting procedure. Dr. Renouard was elected to the European Association for Osseointegration executive board in Amsterdam in 2000, and is Past-President-for the organization (2006-2008). He is member of Osteology Foundation board. He is in Private Practice in Paris limited of Oral and Implant Surgery. He is visiting Professor at the Medicine Faculty of Lieges, Belgium.

Vertical Ridge Augmentation: Limits and Indications and Long Term Results

Osseointegrated implants and guided bone regenerative techniques have been successfully used for almost 30 years. In the early nineties, with the use of titanium reinforced non-resorbable membranes Vertical Ridge Augmentation techniques have been proposed to treat patients with vertical bone deficiencies in order to allow implant placements in atrophic ridges and/or to improve the final esthetic results in the anterior regions of the jaws. These techniques have been proven to be predictable and characterized by high percentages of success with long term follow-up studies. From the year 2000 on, most of the companies started to produce the so called "active surfaces". The rationale was to promote faster osseointegration by roughening the implant surface, thus allowing reduced healing periods before implant loading or in some cases even immediate loading. A few years later some problems started to arise: a small percentage of patients began to show peri-implant soft tissue inflammations and progressive bone losses. Unfortunately, year by year the prevalence of peri-implantitis reported in the literature raised to the alarming levels of 12% to 43%. Horizontally and vertically augmented bone by means of GBR or onlay bone blocks seems to present higher risk of peri-implantitis when moderately rough implants are used, due to the higher rate of remodelling during the initial maturation phases. The lecture will present the date available in the literature and describe the techniques to prevent progressive peri-implant bone losses.
SATURDAY, 27TH SEPTEMBER

11:15 / 12:15 ( SANTA CECILIA )

MAIN SESSION 3

SPQR: WHAT DO WE NEED FOR OUR PATIENT : WHEN DO WE NEED IMPLANTS AND WHAT ARE THE HEALTH AND SOCIAL IMPLICATIONS?

CHAIRPERSONS

LUCA CORDARO
Dr. Luca Cordaro is chair of the Department of Periodontology and Prosthodontics at the Eastman Dental Hospital in Rome. He graduated in Medicine at the University of Roma “La Sapienza” where he also got a degree in Dentistry. He holds a Ph. D. degree and is a certified specialist in oral surgery. He also works, together with his brother, in a private practice founded in 1957 by his father. Dr Cordaro is author or co-author of more than 70 papers published in Italian or international journals and has lectured in Europe, Asia, North and South America. In 2007 he won the H. Goldman Prize for Clinical Research of the Italian Society of Periodontology. He is author of different book chapters and coauthor of the books “The SAC classification in Implant Dentistry” and ITI Treatment Guide 7 - edited by Quintessence. He is active member of the Italian Society of Osseointegration and Fellow of the ITI (International Team for Implantology). In the ITI he serves as member of the Board of Directors, Chairman of the Study Club Committee and Chairman for the Italian Section. He has been elected in the EAO Board in 2010 and serves as a Chair of the Congress committee and Secretary General. His professional interests are Periodontology, Implantology and Oral surgery with a special interest regarding the reconstructive treatment of alveolar atrophies.

BJÖRN KLINGE
Björn Klinge is Dean at the Faculty of Odontology and Professor in Periodontology, Malmo University and Professor in Periodontology at the Department of Dental Medicine, Division of Periodontology and Implant Dentistry, Karolinska Institutet, Stockholm, Sweden. He is also Director of the National Research School in Clinical Dental Medicine at Karolinska Institutet. He obtained his D.D.S. and his Ph.D/Odont. Dr from Lund University, Faculty of Dentistry in Malmö, Sweden. He has been a Licensed Dental Surgeon since 1977 and a Licensed Specialist in Periodontology since 1988. Professor Klinge worked first as general dentist in public and private office. He was then lecturer in Periodontology at Loma Linda University, California, USA and Assoc Chief Dental Officer in Oral & Maxillofacial Surgery at the County Hospital of Halmstad, Sweden. He held the position of Associate Dean for Undergraduate Curriculum at the Center for Oral Health Sciences, Lund University and headed the Department of Lab Animal Resources/Experimental Surgery and was an associate Professor in Periodontology department in Malmö, before being appointed Professor by the Swedish Government at Karolinska Institutet. Björn Klinge is Honorary Fellow, Singapore Dental Hospital and Honorary Professor, Ji-Lin University, China. He is President of the Swedish Periodontal Society, board member Scandinavian Society of Periodontology and President elect of the European Association for Osseointegration (EAO).

SPEAKERS

ALBERTO FONZAR
Dr. Fonzar was born in Gorizia in 1959 . He graduated Cum Laude in 1986 in Medicine and Surgery at the University of Trieste and in 1989 earned his specialization in Dentistry and Prosthodontics at the University of Pisa. Since 1996, he and his sister Dr. Federica Fonzar have directed their multidisciplinary private practice “Stomatologico Friulano “E.Fonzar” in Campoformido (Udine). Over the last 25 years, Dr. Fonzar has specialized in Periodontology, Implantology and Prosthodontics, becoming one of the top European experts in his field. He is an active member and the President of The Italian Society of Periodontology (S.I.d.P) where he has held the role of both Treasurer and Secretary on the Executive Board. He is also visiting professor at the University of Triest and Modena and a member of the Italian Academy of Prosthetic Dentistry (AIOP) and of the International College of Dentists. Dr. Fonzar is involved in numerous clinical studies. Several Italian and international publications have reported his scientific research projects. Dr. Fonzar frequently lectures throughout Europe at conferences and congresses dealing with Periodontology.

WHAT ELSE THAN IMPLANTS?
HUGO DE BRUYN
Hugo De Bruyn is graduated as dentist in 1983 at Leuven University Belgium and obtained a PhD at the University of Groningen in the Netherlands in 1987 and a Master Degree at Lund University Sweden in 1988. From 1988 until 2014 he owned a private specialist referral clinic in Brussels Belgium. In 2014 he became full professor and chairman of the department of periodontology & oral implantology at the Ghent University in Belgium. Currently he teaches for undergraduates and postgraduate students and is chairman of the educational committee responsible for the undergraduate dental education. He is furthermore course director of the 1-year postgraduate program oral health sciences, the 2-years international postgraduate oral implantology program and the 3-years postgraduate specialist program in periodontology and oral implantology. He is leading the research cluster Periodontology & Oral Implantology, Implant & Removable Prosthetics (POI-IRP). Clinical research of this cluster focuses on factors related to implant success, effect of smoking, immediate implant loading, soft and hard periodontal and peri-implant tissues, digital dentistry and implant prosthodontics. He has given more than 500 national-international lectures/courses in the field of implantology/periodontology and published more than 100 international peer reviewed papers. He is currently also visiting Professor at the Department Prosthodontics of Malmo University Sweden.

COST BENEFIT OF TOOTH REPLACEMENT

FRAUKE MULLER
Frauke Müller is professor and chair for gerodontology and removable prosthodontics at the University of Geneva. She was born in Kiel, Germany and studied dentistry in Bonn, where she received her Dental and Doctorate Degree. Until 2003, she worked at the Department of Prosthetic Dentistry of the University of Mainz, Germany where she received her habilitation (PD) in 1996. Thanks to fellowships, she had the opportunity to spend several years at the London Hospital Medical College, England (1998 and 1993/94). Professor Müller served on the board of several professional associations: ECG (European College of Gerodontology), GORG of IADR (Geriatric Oral Research Group) and the SSRD (Swiss Society for Reconstructive Dentistry). (SSRD). Since 2010 she is President of the Swiss Society for Dentistry for elderly and handicapped persons (SGZBB). She is Associate Editor of Gerodontology and the textbook “Oral Healthcare and The Frail Elder”. In 2013 she was awarded the IADR Distinguished Scientist Award in Geriatric Oral Research. Her research activity is mainly related to gerodontology, oral function as well as complete and implant prosthodontics.

IMPLANTS IN THE ELDERLY POPULATION WITH REDUCED FINANCIAL INCOME

SESSION ABSTRACT
The use of implants in oral réactualisation is still increasing. But when and how should we use implants? Are implants always the best solution? Or should we consider also some other treatment options to guarantee a reasonable outcome in the long term? What are the economical implications for the dentist and for the patient when we decide to use implants? And what will be the future in the treatment of elderly patients in an aging population with reduced financial possibilities? A group of renowned speakers will try to answer these questions and will discuss these points with the chairmen not only from a clinical point of view. The patient will be the center of the discussion with every pragmatic approach.
Saturdays, 27th September

12:15 / 15:15 (Sinopoli)

Collaborative Societies Programme


Chairpersons

Mario Roccuzzo
Mario Roccuzzo is Lecturer in Periodontology at the University of Siena, member of the attending staff in Department of Maxillofacial Surgery at the University of Torino, Italy. He is an active member of the Italian Society of Periodontology; an ITI fellow, a member of the University Programs Committee, and the ITI Study Club director in Torino. He serves on the editorial board of Clinical Oral Implants Research and the International Journal of Esthetic Dentistry. He has lectured extensively in Europe, Russia, South Africa, Americas, Far East and maintains a private practice limited to Periodontology and Implantology in Torino. Awarded for the best clinical presentation on implants in periodontally compromised patients at the 2009 EAO Congress in Montecarlo and for the best published research article on the same subject by the DGP (German Society of Periodontology) in 2010. Winner of the 2013 Osteology Clinical Research Prize on Long-term stability of soft tissues around implants following ridge preservation.

Leonello Biscaro
Dr. Biscaro graduated in 1985 at the Università of Bologna. Between 1990 and 1994 he attended private courses held by Dr Carnevale and DiFebo in Periodontal surgery and fixed prosthodontics respectively. From 1998 to 2000 he attended the “Center for functional occlusion” in San Francisco run by Prof. R. Roth and by Dr. R. Williams, graduating in August 2000. He is active member of the Italian Society of Parodontology (SIDP) and of the Italian Accademy of Prosthetic Dentistry (AIOP). Member of the board since 2004, he is currently the President of the Italian Academy of Prosthodontics. He is an International speaker on complex implant cases, and his private practice is limited to implant surgery and fixed prosthodontics in Adria (RO).

Speakers

Pierpaolo Cortellini
Dr. Pierpaolo Cortellini received his MD from the University of Florence (Italy) in 1980, and his DDS in 1984 from the University of Perugia (Italy). Dr. Cortellini is the Founder and Secretary of the Accademia Toscana di Ricerca Odontostomatologica, Firenze Italy, and Founder and Board Member of the European Research Group in Periodontology, Berne (CH). He is active Member and Past President of the Italian Society of Periodontology, active member and Past President of the European Federation of Periodontology, Promoter of “Project Periodontal Diagnosis” and Coordinator of six “National Educational Projects” from SIDP, he was Scientific Chairman of Europerio 6 and of the 1st EFP Master Clinic. He runs a multidisciplinary private practice in Florence (Italy), focusing his services to overall patient treatment plan and to periodontics. Dr. Cortellini is involved in clinical research in periodontology since 1982, with special emphasis to periodontal regeneration, aesthetics, and diagnosis. Dr. Cortellini lectures extensively on a national and international level; he is referee of the main scientific journals in the field of periodontology, and is the author of more than 100 original publications in scientific journals.

The Expanding Limits of Periodontal Regeneration in Changing Tooth Prognosis

Periodontal regeneration is an advanced treatment modality for the treatment of pockets associated to shallow and deep intrabony defects. Goal of regenerative therapy is pocket reduction through attachment and bone gain with minimal gingival recession. This surgical approach has been demonstrated able to change the prognosis of teeth severely compromised by periodontal destruction. Retaining natural teeth constitutes a biologic and economic advantage for the patient in the short and long term run. Today regenerative therapy can be well considered a predictable and efficient treatment approach. Moreover, the recent minimally invasive surgical techniques have greatly reduced invasivity, side effects and surgical chair-time, and, as a consequence, improved the cost benefit ratio for the patient. This lecture will focus on the “state of the art” of periodontal regeneration on intrabony defects. It is a clinically-oriented, scientifically sound presentation with the objective of sharing a step-by-step approach to optimize the incorporation of periodontal regeneration into a comprehensive treatment plan. Special emphasis will be given to diagnosis, indications, surgical technique, and patient management. Specific areas, like selection of the regenerative strategy according to the given defect, application of specifically designed surgical approaches and suturing techniques, will be discussed. Aesthetic implications will be carefully explored. The adjunctive benefit of using a surgical microscope, and microsurgical instruments will be discussed, along with the presentation of a novel “minimally invasive surgical technique”. Long-term outcomes of periodontal regeneration will be evaluated.
deficiencies lie and will help to define the most effective treatment. The restorative alteration of the tooth contour and the vertical dimension of occlusion, tooth form, position and proportion together with an alteration of periodontal structures.

Patient with compromised dentition frequently are affected by a disruption of several parameters ranging from esthetic aspects, are taken in consideration. Patient with compromised dentition frequently are affected by a disruption of several parameters ranging from inflammatory and hygiene indices, crown to root ration, strategic value and so forth to determine the role that every single element can play in the prosthetic rehabilitation of the case.

MODERN PERIO–PROSTHETIC APPROACHES TO THE COMPLEX REHABILITATION OF THE PERIODONTALLY COMPROMISED PATIENT Treatment planning approach and prosthetic abutment selection has been severely affected by the introduction of dental implants in the daily practice. Parallel to the introduction and evolution of osteointegrated implants, all the other dental disciplines evolved both clinically and technologically raising significantly their level of predictability and success. Therefore the question that is still to be answered is the following: should we treat periodontally or endodontically compromised teeth or should we extract them and replace with dental implants? Treatment of complex perio–prosthetic cases is still one of clinical challenge of the everyday practice. Only a complete and thorough diagnostic set up may allow the clinician to formulate a realistic prognosis so to be able to select the abutments to support the prosthetic rehabilitation. Clinical, radiographic or laboratory parameters used separately are useless to correctly assigned a reliable prognosis to single teeth unless in case of a clearly hopeless tooth. Therefore it is extremely important to gather the highest number of data such as, probing depth, attachment level, mobility, root anatomy, furation involvement, inflammatory and hygiene indices, crown to root ration, strategic value and so forth to determine the role that every single element can play in the prosthetic rehabilitation of the case.

THE ROLE OF PERIODONTAL PLASTIC SURGERY IN ENABLING IDEAL ESTHETICS IN THE COMPLEX RESTORATIVE CASE In the last decade treatment goal in mucogingival surgery is radically changed. The final target of the treatment has become the complete coverage of the recession along with soft tissue integration with the adjacent tissue. Furthermore, several clinical trials have shown the efficacy of different surgical procedures to obtain root coverage and new prognostic factors seem to predict the clinical outcomes. Finally, restorative treatment of CEJ area is often indicated to improve esthetic outcomes of treatment when gingival recession is associated with enamel abrasion. The presentation will be focused on the current evidence in root coverage procedures and surgical strategies leading to esthetic outcomes.

PROSTHETIC RECONSTRUCTION OF THE NATURAL DENTITION AND THE INTERDENTAL PAPILLA The rising prospect for quality of care and the increasing expectation for good treatment outcome lead the clinician to define a therapeutic approach where a comprehensive evaluation of multiple factors, including esthetic aspects, are taken in consideration. Treatment of complex perio–prosthetic cases is still one of clinical challenge of the everyday practice. Only a complete and thorough diagnostic set up may allow the clinician to formulate a realistic prognosis so to be able to select the abutments to support the prosthetic rehabilitation. Clinical, radiographic or laboratory parameters used separately are useless to correctly assigned a reliable prognosis to single teeth unless in case of a clearly hopeless tooth. Therefore it is extremely important to gather the highest number of data such as, probing depth, attachment level, mobility, root anatomy, furation involvement, inflammatory and hygiene indices, crown to root ration, strategic value and so forth to determine the role that every single element can play in the prosthetic rehabilitation of the case.

SATURDAY, 27TH SEPTEMBER

(?:13:15 / 15:15 (SANTA CECILIA)

SOFT TISSUE RECESSIONS AROUND IMPLANTS: PREVENTION AND TREATMENTS

CHAIRPERSONS

FRANCK SCHWARZ

From 1999 until 2002, Frank Schwarz has worked as Assistant Professor in the Department of Periodontology at the University Homburg as well as in the Dep. of Oral and Maxillofacial Surgery at the Ludwig Maximilians University, München. In 2002 he moved to the Department of Oral Surgery at the Heinrich Heine University, where he became Associate Professor in 2006 and Clinical Professor in 2010. Frank Schwarz has a special degree in Oral Surgery and Oral Implantology. He serves as an Associate Editor for the Journal of Clinical Periodontology and Editorial Board Member for Clinical Oral Implants Research and was awarded the André Schröder Research Prize in 2007 and the Miller Research Prize in 2012. His current h-index is 31.

SPEAKERS

HOM-LAY WANG

Hom-Lay Wang, DDS., MSD., Ph D., Collegiate Professor of Periodontics, Professor and Director of Graduate Periodontics at the University of Michigan. Dr. Wang published more than 25 book chapters/invited reviews and more than 350 scientific articles. Dr. Wang is a member of Leadership Development and Qualification Committee as well as a Consultant of Scientific Oversight Committee for the AAP and also serves as a Chair of Website Educational Committee and a member of Clinical Innovation Committee for the AO, is a Diplomate and a Former Co-Chair and Director of the American Board of Periodontology. He serves as an Associate Editor for JOMI and Founding Editorial board member for Clinical Advances in Periodontics, Editorial Board member for the JP, COIR, UPRD, JCP and many others. Dr. Wang is the recipient of following awards/honors: AADS clinical research fellowship award (1992), Best Faculty Award (2003), The Charles E. English Annual Award in Clinical Science and Techniques (2004), Best papers in Journal of Oral Implantology (2004) and Implant Dentistry (2004), Morton L. Perel Annual Award for Dental Implant Educator (2007), AAP University of Michigan Outstanding Teaching and Mentoring in Periodontics (2010), AAP special citation award (2013) and ITI Andre Schroeder Research Prize (2014).

RISK INDICATORS AND PREVENTION OF MUCOSAL RECESSIONS.

Soft tissue recession around dental implants has become a major concern among many implantologists. This lecture addresses the etiologies as well as the approaches to avoid this problem before they occur. An ideal implant 6-dimensional positioning to avoid this problem will be demonstrated. Research related to soft tissue recession around dental implants will be analyzed and discussed. The pros and cons of techniques used to treat soft tissue recession around dental implants such as various soft tissue grafts (e.g., connective tissue graft, acellular dermal matrix, free soft tissue graft, guided bone augmentation), as well as implant removal will be discussed.

GIOVANNI ZUCCHELLI

Doctor in Dentistry Professor of Periodontology Bologna University PHD in Medical Biotechnolgy applied to Dentistry Active member of Italian Society of Ostitegration, Italian Society of Periodontology and European Federation of Periodontology and American Academy of Periodontology Member of the Editorial Bord of the European Journal of Aesthetic Dentistry and International Journal of Periodontics and Restorative Dentistry Winner of scientific prizes for the research in periodontology in Italy, USA and Europe Authors of more than 100 scientific publications in the fields of Periodontology Co-author of an atlas text book on soft tissue plastic surgery (Ed. Martina) and of the chapter “Mucogingival therapy – periodontal plastic surgery” in the Jan Lindhe text-book “Clinical Periodontology and Implant Dentistry, 5th edition - (Ed. Wiley-Blackwell) Author of a book on esthetic mucogingival surgery (Ed. Quintessence)

SURGICAL TREATMENT OF MUCOSAL RECESSIONS AT IMPLANTS

The recession of the buccal soft tissue margin is a frequent complication of well integrated dental implants. The appearance of metallic structure or even their transparency through the thin buccal soft tissues are common reasons for patient aesthetic complaints. Moreover, bad implant installation frequently results in excessive apical dislocation of the buccal soft tissue margin of the implant supported crown. Soft tissue plastic surgical procedures and bilaminar techniques in particular, can be successfully used in combination with a pre and postsurgical prosthetic approaches to increase the volume of the interdental soft tissue, to treat buccal gingival recessions and soft tissue dehiscence around dental implants and to provide the new implant supported crown with an esthetic transmucosal emergency profile. A new mucogingival approach applied to immediate post-extraction implant placement and loading will be presented. The “submarginal connective tissue graft in area of bone dehiscence” will be suggested for areas with minimal buccal-lingual bone dimension.
DAVID SCHNEIDER
David Schneider runs a private practice together with Dr. Ueli Grunder and Dr. Ronald Jung, focusing on periodontology, implantology and prosthetic dentistry. Since 2009, he also holds the position of an assistant professor at the Clinic of Fixed and Removable Prosthodontics and Dental material science at the University of Zurich, Switzerland under the lead of Professor Christoph Hämmerle. After graduation and promotion in general medicine 1998 and dental medicine 2002 at the University of Zürich, he has been working as a full-time associate in a private practice. In 2006 he started his postgraduate education at the Clinic for Fixed and Removable Prosthodontics and Dental Material Science at the University of Zurich and became a senior lecturer 2009. Besides teaching undergraduate and postgraduate students, his main scientific activity is focused on computer-assisted implant dentistry as well as volumetric evaluation of GBR, soft tissue augmentation and ridge preservation procedures. He has accomplished a number of scientific publications and has been a speaker at national and international congresses. David Schneider is trained in implant dentistry and prosthetics and holds a Master of advanced studies in Periodontology.

PROSTHETIC COMPENSATION OF SOFT TISSUE DEFICIENCIES AT ImPLANTS
Deficiencies of mucosal tissue around implants can lead to esthetic, biological and functional problems. Missing soft tissue can include mucosal recessions, reduced papilla height and reduced tissue volume at the buccal aspect of the implant site. It can lead to exposure of implant- or prosthetic components, greyish appearance of the peri-implant tissue, long clinical crown, interproximal black holes and other esthetic impairments. The deficiencies may be caused by different factors like extensive resorption after tooth extraction, poor implant position, inappropriate tissue management etc. For their prevention, a comprehensive planning of the implant-prosthetic treatment including the complete sequence from extraction, eventually ridge preservation, preoperative soft tissue management, flap elevation, implant placement, guided bone regeneration procedures, soft tissue augmentation and conditioning as well as prosthetic design of the temporary and final reconstruction is mandatory. Depending on the etiology and the clinical findings, the treatment of soft tissue deficiencies around implants may sometimes be achieved by surgical means, like tissue grafting procedures. In some instances, however, compensation can be accomplished by prosthetic measures. This can include adaptation of the tooth shape at the implant the reconstruction or adjacent dentition, modification of the emergence profile of the implant abutment or reconstruction, the use of pink ceramics or buccal shield at removable prostheses and other. In the present lecture, the systematic analysis, strategic decisions and possibilities for compensation of soft tissue deficiencies will be addressed.

JÜRGEN BECKER

MANAGEMENT OF SOFT TISSUE RECESSIONS AT PERI-IMPLANTITIS SITES
Lin et al (2013) reported in a systematic review that a lack of adequate keratinized mucosa around endosseous dental implants is associated with more plaque accumulation, tissue inflammation, mucosal recessions and attachment loss. Mucosal recessions might be due to residual defect height defects following guided bone regeneration in dehiscence-type defects. Furthermore mucosal recessions are a common finding following surgical treatment of perimplantitis, thus compromising the overall esthetic outcome of implant therapy. Accordingly, the treatment of soft tissue dehiscences at implants and teeth is a common requirement because of aesthetic concern. At implant sites, a coronally advanced flap (CAF) and a connective tissue graft (CTG) resulted in a substantial aesthetic improvement, but failed to achieve a complete implant soft tissue dehiscence coverage (Burkhardt et al. 2008). A xenogenic resorbable collagen matrix has recently been introduced instead of autogenous connective tissue grafts. In a clinical cases serious it was possible to use a combined surgical therapy of advanced peri-implantitis lesions with concomitant soft tissue volume augmentation using implantoplasty at buccally and supracrestally exposed implant parts, the augmentation of the intrabony components using a natural bone mineral and a native collagen membrane after surface decontamination. A subepithelial connective tissue graft was harvested from the palate and adapted to the wound area to support transmucosal healing (Schwarz et al., 2012). This combined surgical procedure was effective in controlling advanced peri-implantitis lesions without compromising the overall esthetic outcome in the short term.
TOPICS

Poster Presentation Basic Research

Implant therapy outcomes, surgical aspects

Implant therapy outcomes, prosthetic aspects

Treatment of technical and biological complications

Implant insertion after tooth extraction: clinical outcomes with different approaches

Long-term outcome of implant restorations in the aesthetic zone

Bar
Help Desk
Poster authors will be presenting their works on Friday 26th from 12:15 to 13:15 and Saturday 27th from 10:15-11:15. Each poster refers to a specific topic. Each topic has been assigned with the following colors.

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<tr>
<th>Poster Presentation</th>
<th>114 to 124</th>
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<tr>
<td>Basic Research</td>
<td>125 to 327</td>
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<tr>
<td>Implant therapy outcomes, surgical aspects</td>
<td>328 to 505</td>
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<tr>
<td>Implant therapy outcomes, prosthetic aspects</td>
<td>506 to 590</td>
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<td>Treatment of technical and biological complications</td>
<td>591 to 627</td>
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<tr>
<td>Implant insertion after tooth extraction: clinical outcomes with different approaches</td>
<td>628 to 663</td>
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<tr>
<td>Long-term outcome of implant restorations in the aesthetic zone</td>
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Please refers to page 80 to find the location of the poster you would like to read.

**POSTER PRESENTATION**

(114) 5 YEAR FOLLOW-UP FROM A PROSPERTE MULTICENTRE STUDY REPLACING SINGLE ANTERIOR TEETH WITH NARROW, 3.0 MM DIAMETER, IMPLANTS
PABLO GALINDO-MORENO* (SPAIN), PETER NILSSON, PAUL KING, JESPER ØLAND, CARLO MAIORANA, ALEXANDER SCHRAMM

(115) PINK ESTHETIC SCORE OUTCOME OF IMMEDIATE AND EARLYImplant PLACEMENT IN A RANDOMIZED CLINICAL TRIAL
DOMINIK RIEDER* (GERMANY), FRIEDRICH GRAEF, JOCHEN EGGERT, MANFRED WICHMANN, SIEGFRIED HECKMANN

(116) EFFICACY OF DIFFERENT CLEANING METHODS ON THE TITANIUM SURFACE IN FAILED IMPLANTS: IN VITRO STUDY
BURAK DEMIRALP* (TURKEY), SEMA SEZGIN HAKKI, GÜLSAH TATAR, NIYAZİ DÜNDAR

(117) THERMAL EFFECTS OF A COMBINED IRIGATION METHOD DURING IMPLANT SITE DRILLING. A STANDARDIZED IN VITRO STUDY USING A BOVINE RIB MODEL
GEORGI D. STRABAC* (AUSTRIA), KATHARINA GIANNIS, EWALD UNGER, MANFRED BUAK, RENE DONNER, MARTINA MITTLOECK, CHRISTOPF VASAK, WERNER ZECHNER

(118) ESTHETIC EVALUATION OF FLAPLESS SINGLE-TOOTH IMPLANTS IN THE ANTERIOR MAXILLA USING GUIDED SURGERY: ASSOCIATION OF 3D ACCURACY AND PINK ESTHETIC SCORE
GEORG MAILATH-POKorny* (AUSTRIA), RUDOLF FURHAUSER, ROBERT HAAS, DIETER BUSENLECHNER, GEORG WATZEK, BERNHARD POMMER

(119) POTENTIAL RISK INDICATORS FOR PATHOLOGICAL BONE LOSS
MAURICIO PEREIRA* (BRAZIL), HALINE DALAGO, GUENTHER SCHULDT FILHO, ABRÁÃO PRADO, MÓNICA RODRIGUES, SULZIANE JACOB, JOÃO VICTOR FURTADO, NILTON DE BORTOLI JR., MARCO AURELIO BIANCHINI

(120) MASTICATORY ABILITY OF OVERDENTURES WEARERS RETAINED BY CONVENTIONAL OR MINI DENTAL IMPLANTS.
TATIANA CUNHA* (BRAZIL), ADRIANA RIBEIRO, MARA PAULA DELLA VECCHIA, DANilo SORGINI, ANDREa REIS, VALDiR MUGLIA, RUBENS ALBUQUErQUE JUNIOR

(121) POSTOPERATIVE PAIN AND DISCOMFORT FOLLOWING INSERTION OF DIFFERENT

IMPLANTS FOR THE RETENTION OF OVERDENTURES.
ADRIANA RIBEIRO* (BRAZIL), MARIA PAULA DELLA VECCHIA, TATIANA CUNHA, DANilo SORGINI, ANDREa REIS, VALDiR MUGLIA, RUBENS ALBUQUErQUE JUNIOR, RAPHAEL DE SOUZA

(122) STABILITY OF THE TRABECULAR METAL DENTAL IMPLANT IN EARLY LOADING CASES – PRELIMINARY RESULTS OF A PROSPECTIVE RANDOMIZED CLINICAL STUDY
TASSO VON HAUSSEN* (GERMANY), JÜRGEN BECKER, TORSTEN REICHERT, WILFRIED WAGNER

(123) SUCCESS RATE OF OSSEINTEGRATED IMPLANTS PLACED IN ATROPHIC MAXILLAE RECONSTRUCTED BY MEANS OF AUTOGENOUS BONE GRAFTS OBTAINED FROM THE CALVARIA
FRANCISLEY A SOLZA* (BRAZIL), JANICE C OUILES, EDUARDO VECIANNATTO, ANA PAULA F BASSI, MARILIZA A CARVALHO, MARCO T FRANÇA, IDELMO R GARCIA-JÚNIOR, HELÓISA H NIMIA, RENATO S NISHIOKA, PAULO SERGIO P CARVALHO

(124) ONLAY BONE GRAFTS FIXATION AND INTEGRATION WITH N-BUTYL-2-CYANOACRILATE, POSITIONAL SCREWS OR LAG SCREWS. A BIOMOLECULAR STUDY IN RABBITS.
LUIS A. SALATA, EVANDRO CAPEIRO MARTINS NETO, ALEX MARTINS MACHADO* (BRAZIL), ANTONIO AZOUEL ANTONES
BASIC RESEARCH

(125) CAN PRIMARY IMPLANT STABILITY BE INCREASED BY USING OSTEOTOMES? MATTHIAS KARL* (GERMANY), WERNER WINTER, MANFRED WICHMANN, TIM KRAFFT

(126) STATISTICAL AND CLINICAL STUDY ON BONE SUPPLY OF 6 YEARS MANDIBULAR MOLARS IMPLANT–PROSTHETIC REHABILITATED USING CT SCANS VICTOR TRAIŞTUARU* (ROMANIA), MATÉ TRAIŞTUARU, TEODOR TRAIŞTUARU, ANDREEA-ANGELA STETIU, DANA CRISTINA BOONAR, SIMION GEORGHE DUMITRU, CLAUDIA-CAMILA BURCEA, MIHAI BURLIBASA

(127) MORSE TAPER, INTERNAL HEXAGON, EXTERNAL HEXAGON AND INFLUENCE OF STRAIN OF STRAIGHT AND OFFSET IMPLANT PLACEMENT RENATO NISHIOKA* (BRAZIL), GABRIELA NISHIOKA, LUÍS VASCONCELLOS, FRANCISLEY SOUZA, LEA NISHIOKA

(128) EMPLOYMENT OF FINITE ELEMENT METHOD IN ORAL IMPLANTOLOGY – PRELIMINARY STUDY MIHAI DAVID* (ROMANIA), ION ALEXANDRU POPOVICI, GABRIELA TANASE, RUXANDRA IONELA SFEATCU, MIHAI DAVID* (ROMANIA), ION ALEXANDRU POPOVICI, GABRIELA TANASE, RUXANDRA IONELA SFEATCU, MIHAI BURLIBASA

(129) INVESTIGATION OF MICRO–ARC OXIDATION MODIFICATIONS ON SANDBLASTED/ACID-E TCHED TITANIUM SURFACES IN A BEAGLE DOG MODEL HAIPENG SUN* (CHINA), YUN LIU, FEILONG DENG* (CHINA), XIUMEI ZHUANG, QIN LIU

(130) ACCELERATION OF BONE REGENERATION BY LOCAL APPLICATION OF GLYCOCEN SYN- THASE KINASE-3 INHIBITORS MASAKI ARIKOA* (JAPAN), FUMI TAKAHASHI-YANAGA, MASANORI SASAKI, YOSHIKO INOUE, TOSHIYUKI SASAGURI

(131) THE DIAGNOSIS OF MANDIBULAR MIDLINGUAL FORAMEN AND THE CHIN RELATIONSHIP BY COMPUTED TOMOGRAPHY SCAN CHIA-MING HO* (TAIWAN)

(132) ORAL IMPLANT PLACEMENT AND RESTORATION BY UNDERGRADUATE STUDENTS: AN UP TO 2-YEAR RETROSPECTIVE STUDY FOCUSING ON STUDENT RELATED OUTCOMES. ANDY TEMMERMAN* (BELGIUM), MARC MEEUS, RUTGER DHONDT, ELS WIERINCK, VIM COUCKE, IGNACE NAERT , MARC QUIRYNEN

(133) MICROVIBRATION PROMOTES BONE FORMATION BY INCREASING β–CATENIN AND BMP2 EXPRESSION HAIYANG YU* (CHINA), HAO PENG WANG, YANG LIU, WEIKEI HOU

(134) PERIODONTOPATHOGENS INDUCE SOLUBLE P–SELECTIN RELEASE BY ENDOTHELIAL CELLS AND PLATELETS AZADEH ESFANDEYARI* (AUSTRIA)

(135) CHARACTERISTICS AND OSTEOSTIC EFFECT OF ZIRCONIA POROUS SCAFFOLD COATED WITH β-TCP/HA YOUNG-GYUN SONG* (SOUTH KOREA), IN-HO CHO, SEO-RYEON LIM, YOON-HEE SEO

(136) SINUS WIDTH ANALYSIS AND NEW CLASSIFICATION WITH CLINICAL IMPLICATIONS FOR AUGMENTATION MINHUA TENG* (CHINA), QIAN CHENG, ANCHUN MO, XIANG LING

(137) CLINICAL ACCURACY OF A COMPUTER–GENERATED SURGICAL GUIDE TEMPLATE IN SANDWICH OSTEOTOMY FOR POSTERIOR EDENTULOUS MANDIBLE MOHAMMED FARID SHEHAB* (EGYPT)

(138) BONE QUANTITY IN PATIENTS WITH AGENESIS OF THE LOWER SECOND PREMOLAR EVALUATED IN CT SCANS KRISTINA BERTL, MARIA BJURT, MICHAEL BERTL, PATRICK HEIMEL, ANDRÉ GAHLEITNER, WERNER KRISTINA BERTL, MARIA BURT, MICHAEL BURT, AKSHAY KUMAR KANGRA, MARIA BURT, MICHAEL BURT, AKSHAY KUMAR KANGRA

(139) FACIAL GINGIVAL PROFILES AROUND TEETH IN ASIANS WAI ZHEN LEE* (SINGAPORE), ALVIN YEO BOON KENG, MARIANNE ONG MENG ANN, GITA KRISHNASWAMY, LIM PENG LIM

(140) THE EFFECT OF NERVE GROWTH FACTOR ON ENDOTHELIAL CELLS SEEDED ON TITANIUM SURFACES IN VITRO AND IN VIVO MENGKAI GUANG* (CHINA), YANG YAO, LIANG ZHANG, BO HUANG, JIE QI JING, PING GONG

(141) BIOMECHANICAL ANALYSIS OF CHEMICALLY MODIFIED HYDROPILIC AND ANODICALLY OXIDIZED TITANIUM IMPLANTS IN EARLY BONE RESPONSE OF RABBIT TIBIA JUNG-TAE LEE, DEUK-WON JO, SHIN-YOUNG PARK, PIL-YOUNG YUN, YOUNG-KYUN KIM, IN-SUNG YEO, TAE-KI KWON, HYO-JUNG LEE

(142) INFLUENCE OF LOCAL ADMINISTRATION OF PAMIDRONATE ON EXTRACTION SOCKET HEALING – A HISTOMORPHOMETRIC PROOF–OF–PRINCIPLE PRECLINICAL IN VIVO EVALUATION. KAI FISCHERT* (GERMANY), ANDREAS STAVROPOLIOS, JOSE-LUIS CALVO GUARADO, DAVID SCHNEIDER, STEFAN FICKL

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(385) Clinical Handling and Histological Analysis of a Novel Biphasic Calcium Phosphate (BCP I) Bone Substitute (Vivos®). THOMAS ZIEBART* (Germany), BILAL AL-NAWAS, WILFRIED WAGNER

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(446) THE USE OF FREE GINGIVAL GRAFT TO MANAGE MUCOGINGIVAL PROBLEMS AROUND IMPLANTS. BEFORE AND AFTER PROSTHETIC IMPLANT REHABILITATION. SPIRIDON SILVESTROS* (GREECE), DIMITROS KOLOVOS, AIKATERINI PETROPOULOU, MARIA KALAITZOGLOU, VASILIOS CHRONOPOULOS

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(448) SURGICAL APPROACH FOR FULLY EDENTULOUS MANDIBLE. JORGE GALANTE* (ARGENTINA), NICOLAS RUBIO

(449) THE PROS OF THE STAGED APPROACH IN VERTICALLY GUIDED BONE AND SOFT TISSUE RECONSTRUCTION OF THE MANDIBULAR ATROPHY. FABRIZIO BELLEGGIA* (ITALY)

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(453) SIMULTANEOUS IMPLANT PLACEMENT WITH RIDGE-SPLIT TECHNIQUE IN ATROPHIC POSTERIOR MANDIBLE: CASE REPORT. JUN-MO YANG* (KOREA), HEE-JONG SHIN, DO-YOUNG PARK, SANG-JOUN YU, BYUNG-OCK KIM

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(460) DENTAL IMPLANT PLACED IN A PATIENT POST HYPOTHYOSOMA OPERATIVE: CASE REPORT. İSLAYLAN, ÖZEN TUNCER, CENKER ZEKI KÖYLUÇOĞLU* (TURKEY), SULEYMAN METIN, ZEYNEP YASSIBAŞ, SINAN HÖRASAN, ALPDOGAN KANTARO

(461) MINIMAL INVASIVE APPROACH TO SINUS LIFT. GOKPAL K GUPTA, REKHA GUPTA

(462) SOFT AND HARD TISSUE RESPONSE TO A SIMPLIFIED IMPLANT INSERTION TECHNIQUE AT THE TIME OF MOLAR EXTRACTION. SHANSHAN YUAN* (CHINA)

(463) THE CHANGE OF MAXILLARY MUCOSA WITH SINUS ELEVATION IN THE PRESENCE OF THICKENED AND NORMAL MAXILLARY MUCOSA: A PROSPECTIVE COHORT STUDY. SHANSHAN YUAN* (CHINA)

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(465) VIRTUALLY PLANNED IMMEDIATE LOADED IMPLANTS WITH CAM/CAM FABRICATED TEMPORIZATION. CHRISTIAN MERTENS, MISCHA KREBS* (GERMANY)

(466) THE TREATMENT OF THE IRREGULAR HETEROTOPIC OSSIFICATION IN MAXILLARY SINUS AUGMENTATION: A CASE REPORT. KUO-CHING HUANG* (TAIWAN), CHING-PING LIN

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(469) IMMEDIATE LOADING OF TWO INTERFORAMINAL BAR-CONNECTED IMPLANTS SUPPORTING AN OVERDENTURE: FIVE YEAR RESULTS FROM A PROSPECTIVE STUDY. ANDRES STRICKER (GERMANY), STEFAN STÜBINGER, TOBIAS FREITWURST, TABEA FLIEGGE, PIT VOSS, KATJA NIELSON, JONATHAN FLEINER

(470) LONG-TERM CLINICAL OUTCOME OF IMMEDIATELY LOADED, MODERATELY ROUGH IMPLANTS IN THE EDENTULOUS MANDIBLE. STEFAN VANDEWEGHE* (BELGIUM), STEFAN STÜBINGER, TOBIAS FREITWURST, TABEA FLIEGGE, PIT VOSS, KATJA NIELSON, JONATHAN FLEINER

(471) EVALUATION OF A PORCINE COLLAGEN MATRIX TO CREATE NEW KERATINIZED TISSUE AT DEFICIENT IMPLANT SITES: 12 MONTHS RESULTS FROM A CONTROLLED PROSPECTIVE CLINICAL STUDY.
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SUN KYOUNG KIM* [KOREA], JUNG-WOO LEE, SOO-HWAN BYUN, JONG-SIK KIM, HOSIK CHOI, JAE-RIM LEE, KYUNGSUB LIM, BO-YOON CHUNG, JAI-BONG LEE* [KOREA], JONG-HO LEE

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DATE
- From Thursday, 25th September
- 1 to Saturday, 27th September 2014

VENUE
EOA congress 2014 will be held at the
Auditorium Parco Della Musica
Viale Pietro de Coubertin 30
00196 Roma, Italy
Very short distance to the city centre.

ACCESS
Auditorium Parco della Musica is in the Flaminio district of Rome, by the Villaggio Olimpico and can be easily reached by public transport:
- Tramway line 2 from Piazzale Flaminio and Piazza Mancini
- Bus 910, from Termini Station and Piazza Mancini
- Bus 53, from Piazza Mancini and Piazza San Silvestro
- Bus 217, from Viale XVII Olimpiade and Termini Station

OFFICIAL LANGUAGE
Official language of the EAO Congress is English.
Main sessions will be translated from English to Italian (Main, Parallel and Arena sessions).

REGISTRATION AND INFORMATION DESK OPENING HOURS
- Wednesday 24 September: 16:00 – 20:00
- Thursday 25 September: 08:00 – 19:00
- Friday 26 September: 07:00 – 19:00
- Saturday 27 September: 07:00 – 14:00
Registration and information desk are located outside Parco della Musica into the Serra

CLOAKROOM
- Wednesday 24 September: 16:00 – 20:00
- Thursday 25 September: 08:00 – 19:00
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- Saturday 27 September: 07:00 – 14:00
Please be advised that the organisers are not responsible for any loss or damage of items lefts in the cloakroom.

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- Thursday 25 September: 09:00 – 19:00
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*Including:
- SICOI (Italian Society of Oral Surgery and Implantology)
- SIO (Italian Society of Osseointegration)
- SIDP (Italian Society of Periodontology and Implantology)
- AIOP (Italian Academy of Prosthetic Dentistry)
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**These rates are subject to presentation of a valid student identification confirming the undergraduate student status.
REGISTRATION FEE INCLUDES
- admission to the congress sessions, poster areas and exhibition
- congress documents (final programme, abstract book, congress bag)
- lunches and coffee breaks
- Welcome Cocktail September 24th
- local VAT (22% on registration fees)

CERTIFICATE OF ATTENDANCE
Certificate of attendance will be issued after the congress. You will receive a notification email.

REFRESHMENTS
Lunch and coffee will be served to registered delegates in the exhibition and poster area. If you want a coffee outside coffee and lunch breaks go to the tent exhibition area and there you will be able to taste a real Italian espresso!

STAFF
Staff members can be easily recognized by their EAO T-shirts. They will be happy to assist you with any queries you may have.

CONTACTS
- EAO Congress Organisation and Scientific Secretariat Office c/o Colloquium
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DISCOVER ROME

Throughout the centuries, Rome has had such a deep impact on the world that, in any way, introducing it almost seems redundant. Founded by Aenea’s descendants 2700 years ago, Rome was the centre of the Roman Empire before evolving into the capital of the Catholic Church and, most recently, into the capital of the Italian Republic. As such, Rome’s influence has, from a linguistic, political and artistic standpoint, literally molded the history of western civilization. Visiting Rome thus means more than simply visiting a city, it means revisiting the entire history of the western world from its early beginnings. With its Colosseum, its timeless Forum, its ancient spas and pagan temples, Rome offers a unique opportunity to breathe the atmosphere which once reigned during the great Emperors’ days. With its more than three hundred churches ranging from Michelangelo’s magnificent St. Peter’s basilica to more humble buildings where the first Christians gathered, Rome also offers visitors a unique window on the history of Christianity. Moreover, thanks to its unequalled art collections, Rome provides a rare opportunity to meet up close with the work of such Renaissance and Baroque geniuses as Raphael, Bernini, Borromini and Caravaggio.

It is by no accident that such sophisticated individuals as Goethe, Byron and Shelley elected Rome as their home, and that millions of visitors continue to pour down Rome’s beautifully picturesque, fountain and obelisk-strewn streets year in and year out. Quite literally, no other city in the world even comes close to Rome’s beauty and artist prowess. The sunny disposition of Roman dwellers and the city’s exquisite cuisine, make for an all the more incomparable setting.

PIAZZA DEL POPOLO
2 VATICAN
3 CASTEL SANT’ANGELO
4 PIAZZA NAVONA
5 FONTANA TREVI (TREVI FOUNTAIN)
6 COLOSSEO (COLOSSEUM)
7 VILLA BORGHESE

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BICON
The Bicon Design is driven by simplicity. A cornerstone of its simplicity is short implants. When the Bicon system was first introduced in 1985, its 8.0 mm length implants were considered quite short – most other implants were at least 12-14 mm and sometimes 18-20 mm long! Since then, the natural progression of Bicon’s design philosophy has resulted in 5.0 mm, 5.7 mm, and 6.0 mm short implants, all with proven clinical success.

BIOHORIZON
BioHorizons is dedicated to developing evidence-based and scientifically proven products. From the launch of the External implant system (Maestro) in 1997, to the Tapered Internal Plus implant in 2012, dental professionals as well as patients have confidence in our comprehensive portfolio of dental implants and biologics products. Our commitment to science, innovation and service has aided us in becoming one of the fastest growing companies in the dental industry. BioHorizons has helped restore smiles in 85 markets throughout Asia, North America, South America, Africa, Australia and Europe.

BTI
BTI Biotechnology Institute, established in 1999 and headquartered in Vitoria (Spain), is one of the leading companies in oral implantology and rehabilitation with presence in over 25 countries. A key part of its activity is the design, manufacture and distribution of dental implants, prosthetic components and surgical material with an intense R&D+I activity that makes BTI the supplier of the most versatile dental implant system worldwide offering the widest range of solutions tailored to each need. Besides, it is a pioneer in the application of regenerative medicine in this field, using plasma rich in growth factors Endoret® (PRGF®), to stimulate and accelerate healing and tissue regeneration.
BTI is firmly committed to transmit its knowledge to the scientific and medical community through its prestigious teaching activities worldwide at universities, scientific congresses, its ongoing training programs, as well as the publication of articles and books.
CAMLOG

Remplacer par: CAMLOG is a leading supplier of integrated systems and products for implant dentistry and restorative dentistry. With our products leading the way in terms of ease of use, application and quality, our services are fully customized to meet the needs of our clients and business partners. Many years’ experience in research and development, highest quality standards, a fair price-performance ratio and the know-how of globally recognized experts in implant dentistry set CAMLOG apart.

DIO IMPLANT

DIO Implant is a global enterprise specializing in Dental Implants and Dental Digital Solutions (DDS) with research and production based in Korea. We are also dedicated in creating a market leading, top quality highly advanced products and services. With 28 years of history in precision manufacturing technology, it is recognized for superior technology and premium quality implant production not only domestically, but also internationally; to over 70 countries. Through creativity and innovation, we at DIO are devoted to delivering our motto which is “Human Happiness and a Healthy Way of Life”. We are excited to announce that DIO will be taking major strides to become a Global Top 3 player in the dental implant and digital dentistry field. With all the hard work and strong efforts and endeavors of our global team we are excited to invite you all to become a part of this.

HENRY SCHEIN

Henry Schein, Inc. (NASDAQ: HSIC) is the world's largest provider of health care products and services to office-based dental, medical and animal health practitioners. The Company also serves dental laboratories, government and institutional health care clinics, and other alternate care sites. Henry Schein employs over 15,000 Team Schein Members and serves approximately 775,000 customers. Headquartered in Melville, N.Y., the Company has operations or affiliates in 26 countries.

In Europe, Henry Schein employs more than 4,000 Team Schein Members and has affiliates e.g. in Austria, Belgium, Czech Republic, France, Germany, Ireland, Luxembourg, Portugal, Italy, Spain, The Netherlands, and the United Kingdom.

IMPLANT DIRECT

Implant Direct Europe AG (ID) has become the “simply smarter” choice by innovating high-quality implant solutions at a market-appropriate price. This combination has resulted in a remarkably broad product line that includes implant systems, prosthetic components and tissue regeneration materials. Besides the unique Spectra-System, ID offers implant systems compatible to Nobel Biocare™, Straumann® and Zimmer© Dental. ID sets new standards for high-quality implants with value added All-in-One™ Packaging at only 130 Euro per implant, including the corresponding prosthetic components.

Implant Direct’s versatile 2-stage, 1-stage and 1-piece implants provide maximum ease and value. Decide today to choose the path of simply smarter solutions.

MEGENGEN

MegaGen, based in South Korea, is currently one of the fastest growing implant companies in the global market, with a growing number of enthusiastic users throughout Western Europe and the rest of the world. The introduction of the innovative and unique AnyRidge system has resulted in increasing interest from serious implantologists around the world thanks to its unsurpassable immediate stability in any kind of bone. MegaGen continues to believe in finding solutions that improve the lives of both patients & dentists and our unique systems echo that belief. We work hard on international education with out MINEC team to ensure that a good understanding improves the experience for dentists and their patients.
MIS IMPLANTS
Established in 1995, MIS Implants Technologies Ltd. is a global leader in the development and production of advanced products and innovative solutions aimed to simplify dental implantology. Through our state-of-the-art production facilities, MIS offers a comprehensive range of high quality dental implants, superstructures, tools and kits, plus innovative solutions for oral restoration and health. Distributed in over 65 countries worldwide, MIS provides unparalleled service to our customers. Standing behind MIS Implants are world-class scientists and engineers, devoted to the continued research and development of new progressive products and technologies perfectly matched to the needs of dental implant professionals worldwide.

OSSTEM
Thanks to customers’ high standard of dentistry, Dentists’ academic fervor, and increase in the general public’s interest for oral health has developed the academics and industry, resulting in rapid population of implant. As one of the leading implant company, OSSTEM is spearheading such trend of growth and evolution, providing clinical operation methods and clinical technical intelligence through AIC workshops, regional research societies, as well as various conferences. Based on the decades of cases with new concepts of operative methods applied, in addition to the release of such new technology and products (TS system, CAS-Kit, LAS-Kit, ESSET Kit, SmartBuilder titanium mesh membrane, AutoBone Collector and etc), OSSTEM is committed to supporting our customers’ success.

QUINTESSENCE
For over 60 years the International Quintessence Publishing Group has served the developmental and educational needs of dental professionals, dedicated to making available to the entire dental team a global resource of cutting-edge research, experience, expertise and knowledge. Quintessence is renowned for its high quality publications and takes pride in maintaining its high standards to impart specialist knowledge in the dental field. We produce dental books, multimedia and journals. These can be ordered via our website, email or telephone.

SOUTHERN IMPLANTS
At Southern Implants, expertise in research, development and manufacturing of dental implants allow us to provide innovative solutions for everyday implant challenges. We offer a broad range of implants and restorative components that work seamlessly with existing systems while offering unique, innovative features that simplify the most complex challenges.

THOMMEN MEDICAL
As a Swiss company, Thommen Medical focuses exclusively on research, development and production as well as distribution of high quality products for implant-based dental restorations. Our intensive co-operation with leading clinicians and renowned universities throughout the world enables us to offer a modern, reliable, and safe implant system. The Thommen implant system meets our customers’ needs in every respect it is very easy to use, extremely precise, affords excellent aesthetic restorations and thus guarantees superb clinical results. Our products consistently meet the most stringent quality requirements and are manufactured in our own production facility in Grenchen (Switzerland).

TRINON TITANIUM
Since 20 years Trinon Titanium is a manufacturer of high quality titanium products - dental implant systems Q-Implant and GIP-Implant, maxillo-facial plaques and screws, Ti-Mesh, 3D-Mesh and individual mesh for craniofacial surgery, modular distractor for alveolar ridge, bone pins system, Q-Bone grafting set for onlay plastics, also with self drilling trocar twisted screws and much more. Trinon organizes since 2003 in cooperation with Trinon Collegium Practicum unique practical implantology courses Q-Implant Marathon.
SILVER SPONSORS

3 SHAPE
3Shape is a Danish company specializing in the development and marketing of 3D scanners and CAD/CAM software solutions designed for the creation, processing, analysis and management of high-quality 3D data for application in complex manufacturing processes. 3Shape envisions the age of “full digital dentistry,” and its 400 employees, including more than 175 developers provide superior innovation power toward reaching this goal. 3Shape’s flexible solutions empower dental professionals through automation of real workflows, and its systems are applied in thousands of labs in more than 100 countries worldwide, putting 3Shape technologies at the peak of the market in relation to units produced per day by dental technicians. With TRIOS®; 3Shape now brings its vast expertise and innovation power directly to dentists.

ACTEON
ACTEON®, a world leader in small equipment and consumables for dentists, has become an internationally-established group. ACTEON® hires more than 650 employees half of whom work outside France, in 5 manufacturing sites (Bordeaux, La Ciotat, Milan and Tuttinglen), and in 15 subsidiaries and representative offices established on the major international dental markets. Certified ISO 13485, ACTEON® has built up its success and leadership through innovation and an international coverage which is constantly improving. More than 50 high-caliber pharmacists, biologists and engineers, in our research centers work to create new treatment solutions, all to ultimately benefit both the dental practitioner and the patient. ACTEON SATELEC®, Equipment division of the ACTEON® group, is the world leader in piezoelectric generators with its Newtron® range, and offers a complete range of electronic and radiology equipment for dentistry. ACTEON Produits Dentaires Pierre Rolland® is the pharmaceutical division of the ACTEON® group and the manufacturer of Expasyl® and Riskontrol®, offers a full selection of dental consumables such as anesthetics, endo treatment, hygiene and impression taking products. ACTEON SOPRO®, Imaging division of the ACTEON® group, already recognized worldwide as the leader in intra-oral cameras with SOPROLIFE™, also develops innovative digital radiology systems: PSPIX™ and SOPIX™2. The medical division of SOPRO designs manufactures and sells a comprehensive range of surgical endoscopy equipment.

ADIN
ADIN Dental Implant Systems Ltd., designs, manufactures and markets state of the art, technologically advanced dental implants solutions. For over 20 years, ADIN has provided dentists and dental technicians with innovative solutions and advanced knowledge into the field of Implant Dentistry. ADIN highly values each hard working employee and attributes its growing success to their continuous dedication. ADIN prides itself on providing excellent customer service, constant customer communication and availability to provide continuous excellent implantology solutions, from the simplest restorative case to the most complex surgical case.

BREDENT
The bredent group is an internationally-active, familyrun company. It develops and produces optimally coordinated standalone products, system solutions (e.g. in implant prosthetics) and «Made in Germany» treatment concepts. These enable dentists and dental technicians to produce and maintain high-quality, cost-effective aesthetic restorations that ensure periodontal hygiene. The bredent group strives to be amongst the best. That is why the employees are always ready to deliver excellence for our clients and their patients, with the necessary flexibility and openness. With its expertise and innovative drive, the bredent group is the paradigm for the dental market.
CLARON TECHNOLOGY

Claron Technology is dedicated to the development of medical image processing solutions, offered as complete clinical products or as components to other companies. At EAO 2014 Claron is displaying Navident, an innovative implant planning and navigation system, bringing real-time dynamic guidance to free-hand implantation procedures. Using the CT images as a map, Navident guides dentists just like a GPS guides drivers. Navident is easier, simpler, faster, more economical and more flexible than other workflows (no static guides are involved). Furthermore, it enables imaging, planning and implantation to be done in a single patient appointment, eliminating many steps needed with alternatives.

CORTEX

Cortex, an exciting & innovative player in the international dental implants market, is managed by leading experts in maxillofacial surgery, periodontists and prosthodontists. Our high-end product lines are backed with extremely creative in-house R&D, state-of-the-art production facility & strict QA control. Cortex Implants Systems are designed by Doctors for Doctors – thus offering simple, high-quality & smart solutions. As such, Cortex prides itself with an impressive line-up of patent pending innovations such as the Easy2fix™ system designed for minimally invasive stabilization of dentures, the Saturn Implant’s unique structure designed to enhance D5 bone implantation and dramatically improve immediate loading procedures, the Premium implant set offering smart sterile packaging containing all required components for one implantation session. With all relevant regulatory approvals, Cortex markets its products worldwide while collaborating with renowned DMDs, universities and medical centers in its continued strive for technological leadership and excellence since we believe Cortex is The Future of Dental Implants.

DENTIUM – GENOSS

Since the establishment of Dentium Co., Ltd. in Korea June 2000, we have been manufacturing high quality dental implant products. In collaboration with leading clinicians, research institutes, and universities, Dentium R&D center has developed a series of state-of-the art dental implant systems, focusing on efficiency. Our systems, including fixtures, surgical components, prosthetic components, and synthetic bone grafting materials, assist our customers in performing quick, accurate, and esthetic dental implantation.

As the evidence of our quest for providing the highest quality products, we have attained ISO13485 and CE certification. We have also met the good manufacturing standards (GMP) set forth by many countries worldwide, including the United States FDA. Our ultimate event, Annual Dentium Symposium and Annual Clinical Case Presentation have been attended by many dental professionals from around the world and serve as the benchmark educational events.

In addition to our ever popular line of implant products, we entered into the world of bone grafting and regeneration. The bio materials line includes bone graft material, membrane, growth factor and tissue engineering products based on our extensive research and development. The bio materials line is proof that we are continuously seeking ways to enhance our product line and services in order to assist the dental professional in providing their patients with a beautiful and healthy smile. We would appreciate your ongoing feedback, as this will assist us in providing you with the highest level of service in the future.

EQUINOX MED EUROPE GMBH

Equinox Medical Technologies is a manufacturer of innovative products in the field of Oral Implantology and Oral & Maxillofacial surgery. The Myriad dental implant system launched in 2011 features cutting edge technologies, aside from a host of features the implants have a very unique calcium oxidised anodic oxidation surface with 3-Dimensional interconnecting nano-porosities.
HERAEUS KULZER

Heraeus Kulzer GmbH is one of the world’s leading dental companies with its headquarters in Hanau, Germany. Heraeus Kulzer supplies dentists and dental technicians with an extensive product range, covering cosmetic dentistry, tooth preservation, prosthetics, periodontology and digital services. To optimally exploit the possibilities of digital dental technology Heraeus Kulzer offers harmonized system solutions. Unique prosthetic solutions give opportunities with better aesthetics and economy. The skilled hands of dentists or dental technicians give back smiles and quality of life to patients every day. But only the combination with high performance materials it ensures precisely tailored results and therefore satisfied patients.

KEYSTONE DENTAL

Keystone Dental develops, acquires and commercializes oral healthcare technologies that ultimately improve a patient’s treatment and quality of life. Keystone Dental’s product portfolio includes implant systems, biomaterials for tissue and bone regeneration and an implant planning software and guided surgery.

For more information about the company’s broad portfolio of products, solutions and services, please contact Keystone Dental or visit: www.keystonedental.com

MECTRON

mectron - the origin of PIEZOSURGERY®

MECTRON, established in 1979, is responsible for some of the most important innovations in the dental field:

- the first ultrasonic titanium handpieces
- the first LED curing lamps for composite materials
- the first ultrasonic device for piezoelectric bone surgery - mectron PIEZOSURGERY®

Fifteen years ago, Dr. Tomaso Vercellotti came up with the idea of piezoelectric bone surgery. Today, a continuously growing number of scientific publications confirm the clinical benefits of mectron PIEZOSURGERY®:

- micrometric cuts
- selective cuts
- maximum intra-operative visibility

Mectron PIEZOSURGERY® has defined a new dimension in bone surgery.

NEOBIOTECH

With more than 10 years of clinical experience and the innovative products, Neobiotech has been striving for new and better ways in every area of implant dentistry. Pushing boundaries of innovation has always been the core of Neobiotech’s corporate philosophy. So, Neobiotech has been developed lots of innovative products from Neo CMI Implant to Solution Kits. In the future, Neobiotech will pursue the innovative development with the 3S Spirit (Simple, Safe & Speedy). Also, Neobiotech will lead the trend of implantology in the future by innovative products.

NEODENT

Market leader in Latin America for dental implants and prosthetic abutments, Neodent is known for its continuous investments leading technological advances, scientific researches and innovation in implantology, offering excellence and distinguished quality out of a large range of products.
SHINHUNG
Shinhung Co., Ltd., founded in 1955, is the dental company only dealing in a full range of dental products in Korea. It manufactures a wide range of dental equipment, precious alloy, preformed crowns and implant system in compliance with ISO 13485 and other international quality standards. Shinhung Implant system consists of LUNA, SOLA, and STELLA.

SIC INVENT
SIC Invent & Schilli Implantology Circle.
The concept for the success of the SIC Invent group is based on our company slogan «Implants from Implantologists». Ten years ago, at the same time as the SIC Invent group, the SIC – Schilli Implantology Circle - was founded under the scientific direction of Prof Dr W. Schilli. This is an internationally organised network of opinion leaders and users of the system, jointly responsible for a high-performance SIC Invent product portfolio and its reliable application on patients, based on a worldwide continuous training concept. Please visit us to learn more about our new SIC P2F (Provisional to Final) Abutment Dr.Galip Gurel.

SUNSTAR GUIDOR
With operations in France, Italy, Spain, Germany and Sweden complementing Asia, China and North America, Sunstar is investing in its philosophy to help people everywhere achieve better oral health and quality-of-life through its GUM®, BUTLER® and GUIDOR® brands.
GUIDOR® products are used by oral care professional in diagnosis, treatment and guide a return to positive health of diseased, aesthetically compromised, or surgically challenged oral tissues. The GUIDOR® portfolio (1) includes GUIDOR® easy-graft - the first mouldable, syringe delivered alloplastic bone graft substitute with in-situ hardening, GUIDOR® calc-i-oss - a porous alloplastic bone graft material in traditional granular format, GUIDOR®@bioresorbable matrix barrier - the first multi-layered, bioresorbable alloplastic membrane for guided bone and tissue regeneration, GUIDOR® Pericoline Dental Ointment (1,2) - a therapeutic agent for treatment of periodontitis. GUIDOR® test-kit helps clinical treatment planning by providing the means to capture, analyse and report microbial DNA and bacteria from within the oral cavity.
(1) Region dependent
(2) Registered as Dentomycin in UK and Parocline in France

SWEDEN & MARTINA
Sweden & Martina, with headquarters in Italy and branch offices in Spain, France and Germany, is enlarging its multinational structure for the distribution of its implant systems, entirely developed and manufactured internally with the strict cooperation of international universities and professionals. Sweden & Martina has placed a program of investments for the consolidation and expansion of its R&D at the heart of its corporate strategy: a concrete result is a flourishing production of experimental and clinical studies, collected in the three volumes “Scientifica”. With a yearly average growth rate of approximately 12% in the last 10 years, this successful company is in complete counttrend with the global economy.

USHIO INC
USHIO is the manufacturer providing the UV dental implant conditioning device. Our product, TheraBeam SuperOsseo has incorporated the new procedure «Photofunctionalization» to resolve the Titanium and Titanium Alloy Aging issue to enhance the implant performance. Celebrating 50 years of business, with 5,700 employees, annual revenue of €1.5 billion and more than 50 group companies all over the world, USHIO Group is one of the world’s leading providers of lighting-edge technologies.
BRONZE SPONSORS

**AESCULAP AG**
Quality and reliability - since 1867 the staff and serpent of Aesculapius surmounted with a crown serves as the company’s trademark and has been a symbol of quality and reliability. With ERGOPLANT, for the first time a standard and complete product range which covers all important indications is available to implantology-orientated dentists. ERGOPROBE, the latest diagnostic line of Aesculap, presents a new class of excellence. The secret lies in the extremely light-weight, ergonomic handles with surfaces specially designed to have a particularly pleasant feel. Today, everyday dental practice is made easier all over the world by a multitude of Aesculap innovations.

**AMERICAN DENTAL SYSTEMS**
American Dental Systems GmbH - ADSystems -based in the German town of Vaterstetten (near Munich) has since 1997 been a successful provider of innovative and high quality dental products to dentists, dental clinics and laboratories. During this short period the company has become one of the leading speciality depots in the German-speaking area.

**ASEPTICO**
Aseptico is the only US manufacturer of implant/oral surgery/endo motors. FDA, CE, ISO certified. Aftersale service in Europe. Our motors are compatible with all implants and most handpiece brands. On display at EAO will be our AEU-7000 series motors, which offer high-end features up to 80 Ncm at an affordable price. Unique features include dynamometer handpiece calibration, customizable preset names, upgradable software, oral surgery and rotary endo functionality. Our AEU-6000-series is more basic for clinicians starting an implant practice. We will also be exhibiting our portable dental equipment ideal for public health and humanitarian applications. Distributor and OEM inquiries welcome!

**BIEN AIR DENTAL**
A world leader at your service for over 50 years. Producing the best dental instruments to simplify the work of practitioners and constantly improve patient comfort. This has been Bien-Air’s mission since its creation in 1959. Ergonomics, precision and reliability are at the core of the development of every new product. Paying careful attention to professionals every day, Bien-Air has made numerous innovations, always setting the bar higher. A true culture of excellence sitting perfectly with the tradition of Swiss Made products from the renowned Watch Valley.

**BIOIMPLON GMBH**
Bioimplon GmbH is a leading company in patented biomaterial innovations. We are world leader in the field of pure crystalline atelocollagenated lyophilized soft tissue and atelo-collagen incorporated bone graft regenerative products. Our extensive product offerings cover the fields of bone and tissue regeneration (GBR/GTR), tissue engineering, and wound healing for dental, spinal, orthopedic, general and plastic surgery applications. The products have proven their success in safety, efficacy, reliability and superior handling characteristics in clinical studies, documented cases and in the daily clinical work worldwide.
**BIOLAND**

Bioland is one of the leading companies in Korea listed in KOSDAQ for a dental and medical business, founded in 1995.

Based on the superior technology for atelo-collagen and hyaluronic acid (HA, pharmaceutical grade) materials, Bioland manufactures various kinds of products in the business.

Especially, Bioland manufactures a dental membrane for GBR & GTR, which proves its best quality through excellent sales with high reputation in Korea.

Bioland, as ISO13485 and GMP certified company, conducts the highly quality control and supplies the best quality products to our customers to draw their best satisfaction for the products and services.

In order to fulfill our business slogan “To be a company to create a plentiful life”, Bioland continuously tries our best to realize the best technologies and products in the world, and then truly realize the improvement of the quality of human life.

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**BIOMATLANTE**

Biomatlante is a French manufacturer of synthetic bone graft solutions, resulting from a collaboration between international scientists, experts in bone architecture.

All of our product line is made of MBCP™ Technology, a unique HA/TCP 3D interconnected scaffold.

- **MBCP+™**: Osteogenic Micro/Macroporous Biphasic Bone Graft – 20%HA/80%TCP: granules (small and large) in vials and syringe
- **In’Oss™ Moldable Biphasic Putty**
- **EZ Cure™**: Flexible Resorbable Collagen Membrane - Guided Bone Regeneration.

With over 25 years of background and more than 650 scientific and clinical literatures, we offer safe, efficient and innovative regeneration therapies to our patients.

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**BIOTEC**

For more than a decade, Biotec-BTK has been providing professionals in Implantology certified and high-quality medical devices. Superior reliability, customized services and enviable quality/price ratio guarantee our partners’ needs absolute satisfaction.

Our extremely wide range of medical devices, certified through EC-mark according to Directive 93/42/EEC - Annex II (our directive 2007/47/EC) is created through daily collaboration with professionals who work in implantology.

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**BIOTECK**

Bioteck Spa is an Italian Company, leader in the manufacturing of heterologous bone grafts for bone regeneration in Dentistry and Orthopedics. Heterologous (equine) bone is processed, in order to make it biocompatible, according to a proprietary and unique enzymatic system. Thanks to this process, the safety of the grafts is guaranteed since all the antigens present in the raw matter are eliminated totally. Moreover, and more important, the process applied does not alter the biological properties of bone: mechanical resistance and total remodeling.

All Bioteck bone grafts once grafted undergo total replacement with the patient’s own bone in a physiological time, leading to a real bone regeneration.

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**BOTISS DENTAL GMBH**

botiss biomaterials is an innovative, clinically oriented Biotech company with headquarter in Berlin and developing and production sites in Germany, Austria and Great Britain. We are 100% focused on dental regeneration. We offer you a unique systematic BTR approach, the complete regenerative biomaterial portfolio for Implantology, Oral Surgery, CMF and Periodontology out of one hand. The botiss regeneration system includes all long-term proven biologic materials (bovine, synthetic, allografts, collagen, granules, blocks, membranes, soft tissue matrix), matched to each other for specific indications.
BRESMEDICAL

BresMedical Pty Ltd is a newly formed company part of the Breseight Group founded on additive manufacturing and medical research. The company’s strong collaboration with European oral and maxillofacial surgeons and its ability to provide solutions through precision and additive manufacturing technology has been the key to its development and launch of an innovative system in oral implantology and image-guided-surgery. BresMedical’s in-house software team designed the software of the IMPLANAV™ navigation system from its conception to full development and is currently working on providing software solutions for orthopaedic and maxillofacial surgery. Since 2013 the company has also designed and supplied patient-specific instrumentation (PSI) such as surgical cutting guides for knee-shoulder-ankle arthroplasty using its in-house EOS additive manufacturing technology.

CENDRES + METAUX

Combining high-quality materials and maximum precision with an unlimited sense of well-being. The Cendres+Métaux Group operates in the following business fields: Dental, Medical, Jewellery, Watches and Refining. In our Dental Division we successfully complete complex tasks at the highest possible quality level. World Premiere at the EAO: CM LOC® - The new Anchor. The CM LOC® stands for a functional, hygienic, user- and patient-friendly solution. The abutment design sets a new standard for improved clinical application, increased service life and thus a high level of wearing comfort and ease of cleaning. Discover Pekkton®: our high performance polymer. A framework material that offers the ideal solution for aesthetic, definitive and patient-friendly restorations on implants. Meet our experts and discuss our leading brands: Esteticor® and Elitor® alloys, Dalbo®, Dolder®, Pekkton® and CM LOC®.

CHIMO DENTAL

Merighi Umberto strumenti chimo. Italian company with instruments all made in Italy best quality in best price.

DATUM DENTAL

Datum Dental Ltd., a subsidiary of Datum Biotech, was founded in order to develop, manufacture and market a full line of dental biomaterial products for tissue and bone regeneration. Datum Dental’s well known resorbable collagen membrane - OSSIX® PLUS is for Guided Bone Regeneration (GBR) and Guided Tissue Regeneration (GTR). The unique, patented GLYMATRIX™ sugar cross-linking technology provides OSSIX® PLUS the ability to maintain barrier functionality for 4-6 months, allowing sufficient time for osseous defects to achieve optimal bone regeneration. Over 50 peer-reviewed publications have been published over the last decade on OSSIX® and OSSIX® PLUS. Datum Dental continues to develop GLYMATRIX™ based cross-linked collagen products in different forms for the dental regenerative segment.

DENTAURUM IMPLANTS

The family run business Dentaurum has made a distinguished name for itself the world over with an unusually wide range of products and services. Over the last 125 years a unique product range has evolved. From the innovative tioLogic® implant, high-quality CAD/CAM materials, the new ceramotion® ceramic, to brackets made of progressive materials. Dentaurum Implants, a subsidiary of Dentaurum, have worked intensely in implantology for the last 20 years. The latest results are the ADVANCED surgical tray for tioLogic® and the new designed implant tioLogic® ST including short implants.
DENTIS

The mission of DENTIS is «Global Top 10 in healthcare» for providing innovative and reliable dental products to all over the world. DENTIS aims to be a global leader in manufacturing the superior and advanced implants and LED units. DENTIS has a wide range of implant system can cover all kinds of indications and creates ‘ONEQ-SL’ with SLA surface through continuous research and development. Also, ‘LUVIS’ is approved brand in the market as professional led lighting for dental & medical field. All employee of DENTIS do best to meet all needs of the dental professional and bringing back the brilliant smiles of patients.

EUROPERIO8

EuroPerio, the Clinical and Scientific Conference of the European Federation of Periodontology (EFP), has established itself as the world’s leading conference in periodontology and implant dentistry (triennial fixture). The EFP is one of the largest dental organisations in Europe (29 national member societies; > 16,000 members) and also produces the Journal of Clinical Periodontology.

The EuroPerio8 will take place from June 3-6, 2015 in London, UK.

EURO TEKNIKA

Created in 1992, EuroTeknika is now the number one of the French manufacturers of dental implants with a fully integrated production. The brand is present in more than 30 countries worldwide. EuroTeknika offers practitioners a global solution for each stage of the implant treatment:

- EuroTeknika, IMPLANT SOLUTIONS => Eight implant systems for all clinical cases
- Teknika3D, DIGITAL & GUIDED SURGERY SOLUTIONS => Planning software, creation of guides, specific implants and instrumentation...
- TeknikaLab, CAD/CAM SOLUTIONS => Computer-aided design and manufacturing of prosthetic components at our French production center.
- TeknikaTraining, TRAINING SOLUTIONS => Collaboration with universities allowing for the integration of implantology in dental training

EuroTeknika’s production site is located in France and handles all stages of the company’s production, from design to final control and packaging of finished parts, as well as its research and development.

FOTONA

Lasers are the Heart of our Business

Founded in 1964, only four years after the invention of the very first laser, Fotona is one of the most experienced developers of high-technology laser systems, recognized for the design, manufacture, and support of advanced solid-state laser systems for: medicine (aesthetics, surgery, gynecology), dentistry, industry & defense. Fotona is fully committed to stringent testing of all components and in-house production of its medical and dental laser systems. This long-term dedication to perfection ensures that the company’s laser systems are of the highest quality, reliability and durability.

Fotona customers receive access to professional workshops, individual training sessions, hands-on demonstrations, as well as participation in international clinical studies and international scientific symposiums.

When you choose Fotona, you choose a company committed to designing, manufacturing and delivering: The highest performance, best made laser systems in the world!

HU-FRIEDY

Since 1908, Hu-Friedy has been putting the highest quality and most innovative dental products in the hands of dental professionals worldwide. And today as one of the world’s leading dental instrument and product companies we continue our commitment to advance dental performance by supporting these products with world class service, education and peer communities. We’re committed to making sure the best perform that way. Hu-Friedy. How the best perform.
**IBS IMPLANT**

IBS implant and its Dual Surgical System provides the dental practitioner with refined surgical instrument and a surgical protocol that enhances virtually every aspect of the implant procedure. It is the first and only system that is designed to preserve bone as its first priority. As systematic protocol guides the practitioner in determining hard and soft bone types and then addresses each bone quality type in a particular way. Magic Kit, a set of innovative surgical equipment, was introduced in 2009 for dentists to easily apply this new-concept implant surgery system to actual clinical settings. IBS provides the world’s most innovative and simplest bone expansion, sinus lifting and One-time drilling technique.

**ITI (INTERNATIONAL TEAM FOR IMPLANTOLOGY)**

ITI International Team for Implantology ITI Foundation for the Promotion of Oral Implantology An academic organization, the International Team for Implantology (ITI) unites professionals from every field of implant dentistry and related tissue regeneration worldwide. It actively promotes networking and exchange among its membership. More than 15,000 ITI Fellows and Members regularly share their knowledge and expertise with the objective of continuously improving treatment methods and outcomes. The ITI focuses on the development of well-documented treatment guidelines backed by extensive clinical testing and long-term results. It funds research as well as scholarships, organizes congresses, study clubs and continuing education events and also publishes reference books such as the ITI Treatment Guide series. ITI membership is open to all implant dentistry professionals.

**IVOCLAR VIVADENT**

Ivoclar Vivadent is one of the world’s leading dental companies. The company’s success is based on a comprehensive portfolio of products and systems, strong research and development capabilities and a clear commitment to training and further education. Ivoclar Vivadent operates in the three product areas Direct Restoratives, Fixed Prosthetics and Removable Prosthetics. In these areas, the company offers dentists and dental technicians products and product systems that support them across the entire treatment and fabrication process and enable them to achieve esthetic results.

**LEADER ITALIA**

Founded in 1996 to manufacture components for implantology, LEADER ITALIA srl is constantly committing itself to scientific and technological research, exploring possibilities far from those offered until now by the traditional systems. These years of research in cooperation with several prestigious national and international Universities have yielded interesting results. The innovative Tixos implant line is the result of our great experience, of the exhaustive clinical researches and of a unique production process - the DLMF (Direct Laser Metal Forming) technique - which realizes an absolutely revolutionary surface. Tixos, the first and unique dental implant in the world manufactured through this innovative laser technique, is characterized by a tridimensional geometry constituted by interconnected micro and macro-cavities and pores that promotes bone formation.

**MAXIL (OMNIA GROUP)**

Maxil is the brand of high-quality surgical instruments by OMNIA helping the professional achieve clinical success in implantation and reconstructive bone surgery. The broadest range of accessories and instruments specially made for maxillary sinus lifting is at the clinician’s disposal by Maxil line of “Sinus Surgery” instruments. By the line of “Oral Surgery” instruments, Maxil offers all the instruments for an easy management of the number of clinical situations to be faced in oral surgery, from the simplification of extraction procedures to the top quality of the line of periosteal elevators with hexagonal handle that has always been the distinguishing feature of Maxil brand. By the Maxil product line, OMNIA once again offers its customers an ever-growing product range and service.
MEDENTIS
Medentis Medical GmbH is an internationally acting company with its main focus on dental implantology, aesthetic dentistry and CAD/CAM based prosthetics domiciled in Dernau, Germany. With the ICX-templant implant system and the denta5 CAD/CAM system medentis is successfully operating in more than 30 countries. Since 2013 medentis also offers the ICX-Magellan digital planning concept for fully guided Surgery as well.
The ICX-templant implant System incorporates the findings of advanced implantology of the last 20 years. It combines the most important factors for a successful realization in practice. Besides its sophisticated implant design this is the awareness that implants become also increasingly interesting for patients who cannot afford any price for a reliable implant based solution.

MEISINGER
Hager & Meisinger is one of the world’s leading developers and manufacturers of rotating high-tech instruments in the field of dental and medical technology. The range of drills; milling, finishing, grinding, and polishing tools; instruments; special instrument systems (for endodontia, orthodontia, ENT and mouth, jaw and facial surgery, and oral implantology) and bone reconstruction material comprises around 12,000 products. At company headquarters in Neuss (Germany), 45 million individual instruments are manufactured and sold every year under Meisinger brand through 600 trade partners in more than 100 countries. Founded by Artur Meisinger in 1888, the independent family-run company is managed by the fourth generation.

META
Effectiveness, simplicity, hi-tech: these are META’s key guidelines. Born in the beginning of the 90’s as a means to capitalize the technological knowhow of its mother company C.G.M. S.p.A., META has been able to earn a conspicuous and active role in the medical and dental fields, thanks to the extreme care given to every single phase of its manufacturing activity. From the very first outline of the project, to the definition of the complete manufacturing and commercial plan, META sees everyone in its departments fully committed in creating something that follows two fundamental criteria; the simplification and the improvement of the current clinical and surgical procedures.
META’s activity pursues the maximization of safety in the medical field, keeping at the centre of its activity the global needs of the Customer. The ultimate expression of META’s commitment takes the shape of a series of innovative devices that actively contribute to the technologic and scientific improvement of the whole medical field.

NANO BRIDGING MOLECULES
NBMolecules®, a Swiss-based university spin-off and Frost & Sullivan award winner, proudly presents SurfLink®, its ground-breaking CE-marked surface treatment with biomimetic properties.
SurfLink® has shown healing superior to any other surface treatment; the hydrophilic, osteoconductive surface induces bone matrix formation and osseointegration within two weeks of implantation. This will allow the implant to be loaded more rapidly while achieving a stable clinical outcome with a lower risk for soft and hard tissue complications in the long term. Reliable stability, successful aesthetics, reduced recurrent intervention costs even in patients with compromised bone healing are persuasive arguments for this novel, clinically proven surface technology.

NEOSS
Neoss is an innovative developer of dental implant solutions founded in 2000 by Prof. Meredith and Fredrik Engman. By forging strong relationships with a wide range of clinicians, academicians and engineers from around the world, Neoss has created an implant system that redefines the word simplicity. It is built around a single platform concept which allows to work with five different implant diameters with only one set of instruments and fewer prosthetic components. Neoss head office is located in the UK and we operate in Australia, Austria, Germany, Italy, Sweden, New Zealand, Norway, United States and represented by partners in Denmark, Netherlands, Poland, Croatia, Ireland, Thailand, Turkey and Switzerland.
NEWTOM
Precursor in the field of CBCT imaging, NewTom creates the finest solutions for dental diagnostics. Our first CBCT system was originally installed in 1996 and it was the forefather of the NewTom product line and of all X-Ray units based on CBCT. NewTom’s 20 plus years of experience and success in research, development, manufacturing and distribution of Cone Beam devices affirm our commitment to excellence and quality. Our products represent the Italian tradition of specialized manufacture and they fulfill all the requirements and needs of our clients. NewTom is the unrivalled benchmark in radiology thanks to highly effective research standards, flawless reliability and sheer quality.

NIBEC
NIBEC is public company established by professors of School of Dentistry, Seoul National University. NIBEC has own strength in the research and development (R&D) in the field of peptide related therapeutics, Biomaterials and Oral care business. The future core technologies are peptide discovery technology (PEPscovery), peptide application technology (TOPscovery) in new drug discovery, drug delivery system and biomaterials. The main product of NIBEC are xenograft dental bone material (OCS-B, Equimatrix), collagen membrane, three-dimensional tissue regenerative scaffolds and peptide modified bone graft (Ossgen-X15).

OMNIA
For more than 20 years Omnia has been developing and producing sterile and non-sterile disposables thanks to our experience in the dental field and to the co-operation with leading surgeons. Our products are aimed at everyday use and realised to avoid infections and cross contamination.


Maxil®: a new innovative and complete offer of surgical instruments specifically developed for implantology and maxillofacial surgeries.

OSTEOBIOL
An innovative, globally active company that develops, produces and documents premium-quality xenogenic biomaterials by the brand OsteoBiol®. 15 years of research led to its patented-protected production process that ensures neutralisation of antigenic components and achievement of biocompatibility while preserving the natural collagen matrix inside the biomaterial. A comprehensive literature portfolio provides an excellent scientific background while continuous investments in new research projects are constantly extending the existing knowledge on OsteoBiol® biomaterials clinical performance. OsteoBiol® products comply with highest quality standards such as ISO10993, ISO13485 (notified body TÜV Rheinland) and 93/42/EEC (notified body CE0373). OsteoBiol®: regeneration science, inspired by nature.
OSTEOCOM

Create your personal profile or your company or organism page. The web social will create an exclusive page that can be used for your study centre or for learning activity. Share your content on social networks. Also share this content on the our social networks. Invite people to transform them into leads. Manage your leads to transform them into follower. Manage all the reminders and powerful marketing tools that helps you achieve your results. Upload your contents clinical cases, webcasts, lectures and all your clinical content to continue generating interest.

OSTEOGENICS BIOMEDICAL

Osteogenics Biomedical is a leader in the development of innovative Guided Tissue Regeneration (GTR) products. Osteogenics Biomedical’s total focus is on dental bone grafting, bone regeneration, and implant site development. Osteogenics develops, manufactures and markets the complete line of resorbable and non-resorbable Cytoplast™ Barrier Membranes, Cytoplast™ PTFE Suture, enCore® Combination and Mineralized Allografts, Vitala™ Porcine Collagen Membranes, and the Pro-Fix™ Precision Fixation System.

OSTEOLOGY

The Osteology Foundation’s motto is „Linking Science with Practice in Regeneration“. The foundation was established in 2003 and its core activities include funding of research projects and organisation of national and international symposia throughout the world. In recent years, the Foundation has expanded its focus. Today, it also offers courses and a textbook specifically for researchers in the field of oral tissue regeneration.

PLANMECA

Planmeca Oy, the Finnish parent company of the Planmeca Group, is one of the world’s largest dental equipment manufacturers distributing products in over 120 countries. A global leader in many fields of dental technology, with a product range covering digital dental units, 2D and 3D imaging devices and comprehensive CAD/CAM and software solutions. Planmeca Oy is also the largest privately held company in the field. Planmeca Group’s estimated turnover for 2014 is approximately EUR 800 million with over 2,650 employees.

REGEDENT

Regedent AG develops, markets and sells clinically proven, value added and innovative regenerative solutions to dental professionals. Thanks to the experience of many years of the members of Regedent AG in the regenerative field, we are able to offer customer-tailored high quality and valuable solutions to assure the best and safe usage of the products for the dental business, their patients’ health and quality of life. Together with our experienced partners we are committed to develop new innovative regenerative solutions.

REGEDENT AG has been recently founded and the head office is located in Switzerland. We operate in Switzerland, Germany and Austria, and are represented by partners in Italy, Benelux and Netherlands.

SAESHIN

Established in 1976, Saeshin Precision Co., Ltd. is an expert manufacturer of a dental handpiece with the history over 37 years. With its good reputation in the product safety and excellent quality, Saeshin Precision Co., Ltd. has the biggest domestic market share in Korea. Also Saeshin Precision has been exporting its own brand name STRONG and FORTE to about 120 countries based on its own technology in producing the micro motor with high performance.

Saeshin Precision developed the dental micro motor handpiece and Traus, X-Cube for the first in Korea and has been spreading its market worldwide by competing with those of Germany and Japan. As a leading manufacturer of the IT convergent and high precision medical devices in the dental field. Saeshin Precision will extend its business all over the world for improving the oral hygiene and do its best always to meet customer satisfaction.
SAEYANG

SAEYANG MICROTECH Co., highly specializes in the research & development of micro motor handpiece with its state-of-art technologies that have been accumulated for over 38 years since its foundation in 1976. SAEYANG has been consistently pursuing technological innovation and investing in the research & development to create the masterpiece. Today, the outstanding products created by SAEYANG are distributed through over 100 countries around the world and recognized as one of the best products.

Sincerely, SAEYANG promises to do the best in building the shining future with you all together.

Products : Dental motors, Implant motors, Endo motors, Contra angles and Micromotors for laboratory.

SILFRADENT

Since 1975 Silfradent company specializes in dental laboratories instruments production as well as for jewellery and cosmetic sectors.

Today, Silfradent offers a complete range of products that include, amongst others, long lasting micromotors, highest precision Isoparallelometers, modular sandblasters, powerful steam generators and reliable mixers.

Since 2003 Silfradent also produces medical instruments.

The constant support of customers, a motivated staff and an organized dental depots distribution network helped Silfradent become the leading company in worldwide market.

All electronic and mechanical projects are carried out in the in-house center of research.

On Laboratory Line, on 2009 Silfradent presented the new “Falcon” brushless Micromotor at 40.000-50.000-60.000 rpm.

On Medical field, on 2008/2009 Silfradent carried out an important research on the activation of growing factors and on the separation of blood components (C.G.F. Concentrated Growth Factors).

On request, Silfradent can carry out customized solutions

SIRONA

Sirona, the dental technology and innovation leader, has served dealers and dentists worldwide for more than 130 years. Sirona develops, manufactures and markets a complete line of dental products, including CAD/CAM restoration systems (CEREC), digital intra-oral, panoramic and 3D imaging systems, dental treatment centers and handpieces. Sirona is the leader when it comes to integrated dental workflows: with merging 3D intraoral scan data and the 3D X-Ray images (CEREC meets Galileos), Sirona made implantology as easy, fast and safe as it can be.

Visit integrated-implantology.com to learn more or go to www.sirona.com for more information about Sirona and its products.

SOREDEX

SOREDEX designs, manufactures and markets easy to use and innovative imaging solutions for dental and maxillofacial professionals. SOREDEX portfolio covers wide range of applications from intraoral, panoramic, cephalometric extending to large field-of-view cone beam CT for demanding ENT and CMF diagnostics. Close co-operation with imaging professionals give us deep insight of how to incorporate true diagnostic value to clinical work. Our products are known for reliability, simplified workflow and excellent image quality. We are committed to fulfill these promises today and in the future. SOREDEX is the proud developer and manufacturer of these famous brands: CRANEX®, DIGORA®, SCANORA® and MINRAY®.

STOMA

For over 95 years, we have our head office in the district of Tuttlingen in southern Germany (today Liptingen). We produce precision dental instruments guided by our “passion for perfection”. Innovative product ideas that are mainly the result of direct dialogue with recognized speakers are internally developed, produced and placed on the market.

Today, the high quality stoma® products enjoy a worldwide reputation for excellence in dentistry.

Our fully integrated medium-sized family business belongs amongst the leading manufacturers. The extensive stoma® range of standard and special instruments is complemented by suture material and a comprehensive system for organizing instrument preparation.

In Germany, France and Belgium, we support our customers with trained medical product advisors, and sell our products directly to the practices. This direct, intensive support has been used and appreciated by dentists, oral surgeons, hospitals and universities for decades. In other countries support is provided by specialist dealers.

Stoma® - Precision instruments made in Germany
**SDS – SWISS DENTAL SOLUTIONS**

SDS is leading innovation in zirconia implants. The company was founded in 2007 by zirconia implant pioneer Dr. Ulrich Volz, who has placed more than 8'000 zirconia implants over the last 14 years. In 2013 SDS successfully launched their first two-piece reversible screw retained zirconia dental implant system. SDS products are based on unique clinical expertise and they provide outstanding handling and healing qualities. Stop by at our booth and get to know our single and two-piece implant systems and learn more about the outstanding characteristics of zirconia implants!

**TEPE**

TePe is a Swedish company manufacturing and marketing high quality, functional oral hygiene products since 1965. Continuous collaboration with dental expertise has made TePe a leading brand in preventive dental care. All design, development and production takes place at our headquarters in Malmö, Sweden. Our vision is to raise the awareness about preventive dental care and interdental cleaning. We are proud to say that our products contribute to better oral health, thereby improving life quality for people all over the world. Our well-known TePe Interdental Brush, together with our toothbrushes, special brushes and dental sticks, are used daily by consumers and dental professionals in more than 50 countries worldwide.

**TI – OSS**

Ti-oss is the outcome of four critical manufacturing techniques:
1. Pulverization technique with multiporosity
2. Low heat deproteinizing technology
3. Surface PH adjustment technology
4. Manufacturing technology of enhancing material for faster new bone formation (Octacalcium phosphate crystal and application technique)

100% cancellous bone graft from bovine with clinical reliability and consistency is based on the advanced manufacturing technology. Ti-oss has animal study (rat, rabbit), human study (sinus), hundreds of clinical case follow up. Rat calvarial comparison study in 8 weeks showed almost complete bone fill into the round trephined defect.

**TRI DENTAL IMPLANTS**

TRI Dental Implants is a SWISS-based manufacturer of innovative esthetic solutions in the field of implant dentistry. With its unique TRI Performance Concept, TRI provides esthetic solutions for implant treatments, combining the latest knowledge in hard and soft tissue management. TRI’s products are 100% MADE IN SWITZERLAND, structured in a very LEAN INTELLIGENT portfolio and are yet provided COST-EFFECTIVE for broad patient applications. Check out our latest innovation and visit us at our booth: THINK PINK!

**USTOMED**

USTOMED is a leading german Dental Instrument manufacturer with international experience in the field of dental and medical devices and has a long family tradition going back until 1843. USTOMED produces a complete range of dental-, oral- and maxillo-facial instruments as well as many specialities for implantology, periodontology, endodontics, microsurgery etc. USTOMED is able to offer OEM/custom specific instruments with an own well reputated development department. USTOMED has global experience in the various markets since many decades. USTOMED is covering large stock and guarantees fast and reliable deliveries. USTOMED is offering excellent quality instruments «made in Germany» for competitive prices.

**W&H**

W&H, which is based in Bürmoos/Austria, is one of the leading providers of precision dental devices in the world. Innovative product and service solutions, a modern corporate structure, a strong focus on research & development, vision and a sense of social responsibility mean that W&H is a successful market player at local and international level. The company has approximately 1000 employees throughout the world and exports its products to more than 90 countries. The company operates two production sites in Bürmoos (Austria), one in Brusapporto (Italy) and 19 sales subsidiaries in Europe, Asia and North America.
Visit Wiley’s booth at the European Association for Osseointegration’s 23rd Annual Scientific Meeting

Wiley publishes the most significant research journals in dentistry with 24 currently ranked in Thomson ISI® 2013 Journal Citation Reports Dentistry, Oral Surgery & Medicine

Wiley is honoured to be the publisher of the official journal of the European Association for Osseointegration and offers to attendees at this conference a special discount of 20% on all books on display at our booth

www.wiley.com/go/dentistry