Barcelona 2007

16th Annual Scientific Meeting
October 25-27, 2007
Chairman: Carlos APARICIO

Contemporary Oral Implant Practice

In collaboration with:
The Spanish Society of Periodontology and Osseointegration, SEPA
The Spanish Society of Prosthodontics, SEPES
The Spanish Society of Implantology, SEI
The Catalonian Dental Association, COEC
The Spanish Society of Oral and Maxillofacial Surgery, SECOM

European Association for Osseointegration
Dear colleagues,

On behalf of the European Association for Osseointegration (EAO) and the Spanish societies collaborators, I have the pleasure to present you the programme “Oral Contemporary Implant Practice” that we have prepared for the 16th Annual Scientific Meeting taking place in the International Center of Conventions of Barcelona from October 25 to 27, 2007.

We all agree that when professionals make the time in their daily activity to attend a congress they have, at minimum, three aspirations:

- From the scientific point of view, they hope the Congress extends their knowledge that contributes to improving their clinical practice.
- From the human point of view, they hope to find in the Congress their colleagues and friends with whom they will exchange ideas or share a good conversation.
- To carry out the above in a pleasant environment.

I am convinced that the Congress in Barcelona will achieve these three requirements thoroughly. From the scientific point of view, we have made an important effort so that the programme is really attractive and interesting. We have no doubt, when summoning top specialists from all over the world, that they will present their latest advances in the scientific investigation and in the clinical practice.

We have also provided the human and technical means so that the Congress is a scenario for dialogue and the exchange of knowledge among professionals from all over the world.

In such a pleasant environment... You will discover this beautiful Mediterranean city with its modern and Hispanic culture, an excellent climate and gastronomy, which will welcome you with open arms!

It will be a true pleasure to welcome you in Barcelona,

Carlos APARICIO
Chairman EAO Barcelona 2007 Congress

Dear colleagues,

On behalf of the European Association of Osseointegration I am honoured and privileged to welcome you to the EAO's 16th Annual Scientific Meeting in Barcelona to be held from 25 to 27 October, 2007. This time, the congress is dedicated to “Contemporary Oral Implant Practice”. The scientific programme ensures exciting three days with world-renowned speakers presenting recent advances on highly relevant scientific and clinical topics in osseointegration. Undoubtedly, the congress will meet the high expectations from specialists in the field from all over the world.

The Barcelona Meeting will allow researchers and clinicians to get state-of-the-art information on all the different aspects using osseointegrated implants in dentistry. The scientific programme will lead the participants through all the relevant treatment options that are available today.

The congress will take place in one of the most beautiful capitals of Europe. Barcelona is situated between the green Tibidabo hills and the blue waters of the Mediterranean. This is the right place to meet friends and enjoy some of the city's many attractions.

Finally, I wish all the best to the Chairman of the meeting, Carlos Aparicio. I am sure that he will make the congress once again a great success.

Friedrich W. NEUKAM
President of the EAO

Dear colleagues,

For the representatives of the Spanish Dental and Medical Societies, it is an honor that the European Association for Osseointegration (EAO) has chosen the city of Barcelona as the headquarters of their scientific congress, a decision that we interpret as an indicator of the high quality of health care and research in our country.

With the purpose of maintaining the high level of Spanish health care, the societies that we collaborate with in the organization of the Congress want to encourage our partners to participate in an encounter that, without a doubt, will be highly fruitful for all.

We agree fully with the EAO in their commitment to maintain and promote the concept of the Osseointegration and we support their aim of scientific independence. We share, overall, their desire to promote continuing education as a need for clinical improvement.

Juan BLANCO
Chairman SEPA, Spanish Society of Periodontology and Osseointegration

José Luis NAVARRO
Chairman COEC, Catalanian Dental Association

Santiago LLORENTE PENDÁS
Chairman SECOM, Spanish Society of Oral and Maxillofacial Surgery

Gaspar SERRA i ROBERT
Chairman SEPES, Spanish Society of Prosthodontics

Araceli MORALES
Chairman SEI, Spanish Society of Implantology
Contemporary Oral Implant Practice

THURSDAY OCTOBER 25

9h

10h

11h

Satellite Industry Symposia

Geistlich

Innova

Ospol

12h

13h

OPENING CEREMONY

14h

15h

16h

17h

18h

19h

Satellite Industry Symposia

Astra Tech

Biomet 3i

Straumann

Scientific Committee

Carlos APARICIO, Spain
Tomas ALBREKTSSON, Sweden
Jose Javier ECHEVERRIA, Spain
Christoph HÄMMERLE, Switzerland
Abe INGBER, USA
Ignace NAERT, Belgium
Friedrich W. NEUKAM, Germany
Marc QUIRYNEN, Belgium
Franck RENOUARD, France

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Nikolaos DONOS, UK
Joke DUYCK, Belgium
Marco ESPOSTI, UK
Jens FISCHER, Switzerland
Jürgen GEIS-GERSTORFER, Germany
Klaus GOTTFREDSEN, Denmark
Adrian GUERRERO, Spain
Robert HAAS, Austria
Christoph HÄMMERLE, Switzerland
Philippe KHAYAT, France
Ralf-Joachim KOHAL, Germany
Martin LORENZONI, Austria
Pascal MARQUARDT, Germany
Liene MOLLY, Belgium
Frauke MÜLLER, Switzerland
Andrea MOMBELLI, Switzerland
Bjarni PJETURSSON, Switzerland
Gerry RAGHOESBAR, Netherlands
Mario ROCCUZZO, Italy
Karl Andreas SCHLEGEL, Germany
Henning SCHLIEPHAKE, Germany
Hendrik TERHEYDEN, Germany
Wim TEUGELS, Belgium
Pascal VALENTINI, France
Dietmar WENG, Germany
Werner ZECHNER, Austria

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Marc QUIRYNEN
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Daniel van STEENBERGHE, Belgium, Chairman
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Massimo SIMION, Italy
Georg WATZEK, Austria

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Steven ECKERT, USA
Niklaus P. LANG, Switzerland
Lars SENNERBY, Sweden
Massimo SIMION, Italy
Daniel van STEENBERGHE, Belgium
Georg WATZEK, Austria

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Jordi CAMBRA, Spain
Josep M. CLEMENTE SALA, Spain
Nuria VALLCORVA, Spain
Antonio SANTOS, Spain
Ángeles SANCHEZ, Spain

EAO GENERAL ASSEMBLY

Poster session

Clinical Advances

Immediate loading 5 years after the Barcelona Consensus Conference: where do we stand today?

Clinical Research Competition

Part 2

Satellite Industry Symposia

Dentsply

Friadent

Materialise

Nobel Biocare

Plenary Session 1

Factors determining the success/failure of an implant-based rehabilitation

Plenary Session 2

Implant supported prostheses: new challenges

Plenary Session 3

Adjunctive surgical techniques

Plenary Session 4

The role of implants in the multidisciplinary oral rehabilitation: ask the experts

Plenary Session 5

Interdisciplinary management of implants in the aesthetic zone: data on strategy, systematic outcome and complications

Basic Research Competition

Research Award Committee

From the Spanish Society of Periodontology and Osseointegration, SEPA: Juan BLANCO

From the Spanish Society of Prosthodontics, SEPES: Gaspar SERRA I ROBERT

From the Spanish Society of Implantology, SEI: Araceli MORALES

From the Catalanian Dental Association, COEC: Jose Luis NAVARRO

From the Spanish Society of Oral and Maxillofacial Surgery, SECOM: Miguel BURGUEÑO GARCÍA

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From the Spanish Society of Oral and Maxillofacial Surgery, SECOM: Miguel BURGUEÑO GARCÍA
THURSDAY AFTERNOON

13:45 - 14:15

OPENING CEREMONY

Carlos APARICIO, Congress President,
Friedrich W. NEUKAM, EAO President,
Honorable Sra. Marina GELI, Consellera de Sanitat de la Generalitat de Catalunya,
El Tricicle

> Plenary Session 1

14:15 - 17:00

FACTORS DETERMINING THE SUCCESS/FAILURE OF AN IMPLANT-BASED REHABILITATION

Chairpersons: Tomas ALBREKTSSON, Sweden
José Javier ECHEVERRÍA, Spain

14:15 001*  ■ Host related factors: Bone healing
John DAVIES, Canada

14:40 002  ■ Pathogenesis of peri-implantitis. Influence of susceptibility to periodontitis and implant surface roughness
Tord BERGLUNDH, Sweden

15:05 003  ■ Implant related factors: surfaces and design
Steven ECKERT, USA

15:30-16:15  Coffee-break

16:15 004  ■ Clinician related factors: the human risk factor
Ross BRYANT, Canada

16:40  ■ DISCUSSION
Tomas ALBREKTSSON and José Javier ECHEVERRÍA

* The figures refer to the abstracts you will find in the COIR issue of October.
> Clinical Advances

**14:15 - 17:00**

**IMMEDIATE LOADING 5 YEARS AFTER THE BARCELONA CONSENSUS CONFERENCE: WHERE DO WE STAND TODAY?**

Chairpersons: Georg WATZEK, Austria
Ignace NAERT, Belgium

14:15 019*  
- Fully edentulous maxillae and mandibles: clinical techniques and scientific background  
Abe INGBER, USA

14:40 020  
- Immediate loading on implants placed on post extraction sockets: Single and multiple tooth gaps, procedures and predictability  
Devorah SCHWARZ-ARAD, Israel

15:05-15:50 Coffee Break

15:50 021  
- Implants in the aesthetic zone: does immediate loading allow for optimal outcomes regarding function and aesthetics?  
Massimo DEL FABBRO, Italy

16:15 022  
- Treatment and management benefits resulting from immediate loading  
Matteo CHIAPASCO, Italy

16:40 DISCUSSION  
Georg WATZEK and Ignace NAERT

*The figures refer to the abstracts you will find in the COIR issue of October.*
> Plenary Session 2

**9:00 - 12:15**

**IMPLANT SUPPORTED PROSTHESES: NEW CHALLENGES**

Chairpersons: Christoph HÄMMERLE, Switzerland
Jörg STRUB, Germany

**9:00** 005*  ■  Abutment characteristics influencing the result of the rehabilitation
Irena SAILER, Switzerland

**9:30** 006  ■  Is the occlusion a determining factor for the implant success?
Ignace NAERT, Belgium

**10:00** 007  ■  The outcome of fixed prostheses on implant versus teeth: A systemic review
Giovanni SALVI, Switzerland

**11:30-11:15**  Coffee break

**11:15** 008  ■  Cadcam: is this a challenge for the future prosthodontist or for the patient?
Lyndon COOPER, USA

**11:45**  DISCUSSION
Christoph HÄMMERLE and Jörg STRUB

*The figures refer to the abstracts you will find in the COIR issue of October.*

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**13:00 - 14:00**

> EAO GENERAL ASSEMBLY
Master Clinic

9:00 - 12:15

ROOM 112

FACTORS INFLUENCING THE RESULT IN THE AESTHETIC ZONE

Chairpersons: Paul STONE, United Kingdom
               Xavier ASSEMAT-TESSANDIER, France

9:00 015*  ■ Strategies in restoring the aesthetic zone
         Avishai SADAN, USA

9:30 016  ■ Can adhesive techniques vary the indication for implants?
           Didier DIETSCHI, Switzerland

10:00-10:45  Coffee Break

10:45 017  ■ The dilemma of the optimal number of implants in the aesthetic zone (aesthetic and biomechanical considerations)
           Jaime LOZADA, USA

11:15 018  ■ The role of the dental technician in establishing optimal aesthetics
           Jean-Marc ETIENNE, France

11:45  DISCUSSION
       Paul STONE and Xavier ASSEMAT-TESSANDIER

Speakers cv p. 36

* The figures refer to the abstracts you will find in the COIR issue of October.

13:00 - 14:00

ROOM 111

> EAO GENERAL ASSEMBLY
Short Oral Communications 1

9:00 - 12:15

Chairpersons: Massimo SIMION, Italy
Sebastián FÀBREGUES, Spain

09:00 041*
Alteration of vertical dimension with implant-supported fixed restorations opposed by restored natural teeth or implant-supported fixed restorations
ORMIANER Z.**, PALTI A. (Ramat Gan, Israel)

09:15 042
Osteoblast adhesion, proliferation and differentiation induced by bone graft materials
CONSERVA E.**, MANCA M., LAMBRUSCHINI S., PERA P. (Genova, Italy)

09:30 043
The influence of a novel zirconia surface on osteoblastic behavior
KOHAL R.**, HAN J., BÄCHLE M. (Freiburg, Germany)

09:45 044
Nanotite surface vs. Osseotite: a prospective randomized double blind histomorphometric study in humans
TESTORI T.**, GOENE R., TRISI P., DEL FABBRO M. (Milan, Italy)

10:00 045
Flapless surgery and immediate loading versus the classical surgical protocol
VAN DE VELDE TLA.**, DE BRUYN H. (Ghent, Belgium)

10:15 046
Clinical performance of non-reinforced acrylic provisional restorations in immediate loading
ANGULO J., VARGAS A.**, SUÁREZ-FEITO JM., RUIZ-SERRANO E., TEJERINA JM., SICILIA A. (Oviedo, Spain)

10:30-11:00 Coffee-break

11:00 047
Prospective evaluation of soft tissue around immediate implant restorations
FÜRHAUSER R.**, HAAS R., MAILATH-POKORYN G., WATZEK G. (Vienna, Austria)

11:15 048
Hard tissue alterations after different socket preservation techniques – a histological evaluation
FICKL S.**, ZUHR O., WACHTEL HC., BOLZ W., HÜRZELER MB. (Münich, Germany)

11:30 049
Stem and osteoblast cells response to surface modified titanium implant

11:45 050
Evaluation of the indirect sinus elevation technique using a sinus endoscope on fresh cadavers
CHACON G.**, MASONBRINK M., LARSEN P., BECK M., KALMAR J. (Columbus, USA)

12:00 051
Impact of glycemic control on implant integration in diabetes patients
OATES T.**, DOWELL S., ROBINSON M., McMahan A. (San Antonio, USA)

* The figures refer to the abstracts you will find in the COIR issue of October. ** Presenters

13:00 - 14:00

> EAO GENERAL ASSEMBLY

ROOM 111
Plenary Session 3

14:15 - 17:00

ADJUNCTIVE SURGICAL TECHNIQUES

Chairpersons: Marc QUIRYNEN, Belgium
Jaime Gil, Spain

14:15 009*
- Surgical techniques in compromised bone quality
  Carl-Johan IVANOFF, Sweden

14:40 010
- Reconstructive surgery as a rescue procedure in implant rehabilitations
  Stefan LUNDGREN, Sweden

15:05 011
- The correction and avoidance of aesthetic disfigurements on implants resulting from trauma, dental disease or previous implant therapy
  Burton LANGER, USA

15:30-16:15
Coffee-break

16:15 012
- Systematic review of preprosthetic surgery: grafting vs osteotomy?
  Emeka NKENKE, Germany

16:40
DISCUSSION
Marc QUIRYNEN and Jaime GIL

* The figures refer to the abstracts you will find in the CDIR issue of October.
Clinical Research Competition

14:00 - 17:10

Chairpersons: Frank RENOUARD, France
Fernando ALMEIDA, Portugal

14:00 033
- Radiographic evaluation of marginal bone level around implants with different neck designs: 3-year results
  KWON JH., HAN CH., KIM SK., KIM S., HEO SJ. (Seoul, Republic of Korea)

14:20 034
- A multicenter clinical study of immediate load of the completely edentulous jaws by axially positioned and tilted implants
  CAPELLI M., ZUFFETTI F., GALLI F., DEL FABBRO M., TESTORI T. (Milan, Italy)

14:40 035
- Validity and reproducibility of the implant crown aesthetic index
  GEHRKE P., LULAY-SAAD Z., DHOM G. (Ludwigshafen, Germany)

15:00 036
- Platform switching and immediately loaded post-extractive implants. Multicenter double-blind RCTs
  CANULLO L., GOGLIA G., IURLARO G. (Chieti, Italy)

15:20-15:50 Coffee-break

15:50 037
- Complications following computer assisted treatment planning and immediate function
  HULTIN M., KOMIYAMA A., KLINGE B. (Huddinge, Sweden)

16:10 038
- Long-term follow-up on soft tissue and bone levels following GBR treatment
  DAHLIN C., HATANO N., SIMION M. (Trollhättan, Sweden)

16:30 039
- Implant survival in sinus lift augmentation with bovine hydroxyapatite alone
  ANTOUN H., EID J., SITBON JM. (Paris, France)

16:50 040
- Short implants versus augmentation to treat the extremely resorbed mandible
  STELLINGSMA K., RAGHOEBAR G., MEIJER H. (Groningen, The Netherlands)

Speakers cv p. 42

* The figures refer to the abstracts you will find in the COIR issue of October.  ** Presenters
Friday, October 26, 2007

> Short Oral Communications 2

14:00 - 17:00

**Room 111**

**Chairpersons:** José Xabier Arevalo-Varela, Spain
Adrián Guerrero, Spain

**14:00 052**
- **Biomimetic coating Incorporated BMP-2 on Polymers: A New bone-induction system**
  WU G.**, LIU Y., IIZUKA T., HUNZIKER EB. (Bern, Switzerland)

**14:15 053**
- **BoneCeramic as alternative for BioOss in the treatment of bony dehiscencies along implants**
  VAN ASCHIE N.**, JACOBS R., COUCKE W., NAERT I., QUIRYNEN M. (Leuven, Belgium)

**14:30 054**
- **Bone-anabolic treatment enhances implantation: shifting critical strains to bone-implant interface**
  KOHAVI D.**, GABET Y., VOIDE R., MÜLLER T., MÜLLER R., BAB I. (Jerusalem, Israel)

**14:45 055**
- **Age and bone regeneration. An experimental study in rats**
  STAVROPOULOS A.**, KARRING T. (Aarhus, Denmark)

**15:00 056**
- **Immunocytochemical evaluation of differentiation markers after sinus grafting**

**15:15 057**
- **Bilateral sinus graft with either bovine hydroxyapatite or beta tricalcium phosphate**
  ANTOUN H., AMEUR G.*, SITBON JM. (Paris, France)

**15:30-16:00**
- **Coffee-break**

**16:00 058**
- **Marginal accuracy of tooth-implant-supported FPDs after in-vitro stress simulation**
  BOECKLER A.*, KRAMER S., GEIS-GERSTORFER J., SETZ J. (Halle, Germany)

**16:15 059**
- **Assessment of peri-implant health by detecting peri-implant crevicular fluid prostaglandin E2 and matrix metalloproteinase-8 levels**
  ZEREN C.*, YALCIN S., YALCIN F., OZDEMIR T. (Istanbul, Turkey)

**16:30 060**
- **Diabetes effect on alveolar ridge augmentation combined with implant placement**
  RETZEPI M.*, DONOS N. (London, United-Kingdom)

**16:45 061**
- **Vertical bone regeneration (rh-PDGF-BB & Xenograft): back scattered electron microscope element analysis**
  ROCCHIETTA I.*, DELLAVIA C., NEVINS M., SIMION M. (Milan, Italy)

* The figures refer to the abstracts you will find in the COIR issue of October. ** Presenters

Speakers cv p. 44
Plenary Session 4

9:00 - 12:45

THE ROLE OF IMPLANTS IN THE MULTIDISCIPLINARY ORAL REHABILITATION: ASK THE EXPERTS

Chairperson: Daniel van STEENBERGHE, Belgium

Each presenter will present a patient by means of a thorough anamnesis, clinical and radiological slides and, if needed, laboratory tests. The moderator will then ask the experts panel for possible treatment plans. There will mostly be at least two options and if time allows the public will be involved. Then the presenter will show what he did and there will be a wrap-up discussion with the experts. The educational value of such interaction cannot be overestimated. Research demonstrates that treatment options vary according to the professional background, recent positive or negative experience with similar patients etc.

Experts Panel:
- Stefano GRACIS, Italy
- Javier ALÁNDEZ, Spain
- Borja ZABALEGUI, Spain
- Oscar MEDINA, Mexico
- Federico HERNÁNDEZ ALFARO, Spain
- Eugene KELLER, USA

Presenters:
- Christoph HÄMMERLE will present a patient, who suffers from advanced periodontal disease rendering a number of teeth irrational to treat. A comprehensive treatment approach is required in order to provide the patient with the best prosthetic therapy on a healthy foundation.
- Torsten JEMT will ask us which treatment options are available for the replacement of two ankylosic front teeth (to be extracted) in a youngster.
- Mariano SANZ will confront us with a patient with a collapsed bite because of a large number of missing teeth. Extensive documentation of the patient is presented including orthodontic and a full periodontal analysis.
- George WATZEK has been dealing with two very young patients both with extensive partial anodontia. The question is: what can one provide the patient with and at what age?
- Chantal MALEVEZ was consulted by a fully edentulous patient. She had a very resorbed upper jaw but wanted to have a fixed prosthesis. Is this a realistic demand?
- Alain GARCIA presents a young patient who because of trauma has lost one central incisor. The oral environment is such that a straightforward treatment is not selfepeaking, or is it?

Speakers cv p. 46

14:15 - 14:30

RESEARCH AWARD CEREMONY

Chairperson: Friedrich W. NEUKAM, Germany
Basic Research Competition

9:00 - 12:50

Chairpersons: Gil ALCOFORADO, Portugal
Raúl CAFFESE, USA

9:00 023* Early integration outcomes following immediate provisionalization of atrophic maxillae
TOLJANIC J.**, THOR A., BAER R., EKSTRAND K. (Chicago, USA)

09:20 024 Fracture resistance of alumina toughened zirconia implants after chewing simulation
KOHAL R.**, MÜLLER C. (Freiburg, Germany)

09:40 025 Prevention of gingival invagination by a new biodegradable hydrogel membrane
THOMA DS.**, JUNG RE., HÄLG GA., DARD M., SEIBL R., HÄMMERLE CHF. (Zürich, Switzerland)

10:00 026 Healing following tooth extraction and immediate implant installation with flapless surgery
CARDAROPOLI G.**, MONTECCELLI F., OSORIO R., TOLEDANO M., PISANI PROENCA T., THOMSEN P., TARNOW D. (New York, USA)

10:20 027 Surface properties of dental implants using high-resolution transmission electron microscopy
PALMQUIST A.**, JARMAR T., LINDBERG F., ENGQVIST H., BRÅNEMARK R., THOMSEN P. (Göteborg, Sweden)

10:40 028 Consolidation of Bio-Oss®, Osteoinductal®, and Ostim® in a porcine model of ectopic guided bone regeneration
BUSENLECHNER D.**, TANGL S., MAIR B., VASAK C., GRUBER R., REDL H., WATZEK G. (Vienna, Austria)

11:00-11:30 Coffee-break

11:30 029 Hydroxyapatite fiber material for bone tissue engineering
OKABAYASHI S.**, TAKAYAMA K., KURODA S., KANAI T., FUJI S., SATO M., KASUGAI S. (Tokyo, Japan)

11:50 030 Bone apposition around two different types of SLA titanium implant surfaces
BORNSTEIN M.**, VALDERRAMA P., SEIBL R., WILSON T., JONES A., COCHRAN D. (Bern, Switzerland)

12:10 031 Titanium foam for the healing of bone defects. A controlled histologic and histometric study in the dog
FARIA PER.**, CARVALHO AL., AYRES L., WEN CE., SALATA LA. (Aracatuba, Brazil)

12:30 032 Ectopic bone formation following subcutaneous implantation of a nanocrystalline hydroxyapatite
KIRCHHOFF M.**, LENZ S., GERBER T., HENKEL KO. (Rostock, Germany)

Speakers cv p. 50

* The figures refer to the abstracts you will find in the COIR issue of October. ** Presenters

14:15 - 14:30

RESEARCH AWARD CEREMONY

Chairperson: Friedrich W. NEUKAM, Germany
Plenary Session 5

14:30 - 16:30

INTERDISCIPLINARY MANAGEMENT OF IMPLANTS IN THE AESTHETIC ZONE: DATA ON STRATEGY, SYSTEMATIC, OUTCOME AND COMPLICATIONS

Chairpersons: Abe INGBER, USA
              Eugene KELLER, USA

Speakers: 013 Tidu MANKOO and Laura FROST, United Kingdom
           014 Ronald JUNG and Jens FISCHER, Switzerland

16:10 DISCUSSION
        Abe INGBER, USA and Eugene KELLER, USA

16:30 - 16:35

CLOSING CEREMONY

Speakers cv p. 52
Thursday, October 25, 2007

11:00 - 13:00

Satellite Industry Symposia

ROOM 113 & 114
11:00 - 13:00

Hard and soft tissue regeneration: critical factors for optimal treatment outcomes

From extraction to implant placement: Timing and decisions in esthetic implant therapy

Ronald JUNG, Switzerland

- Strategies for handling of extraction sockets include either preservation or augmentation of soft and hard tissue. Advantages and limitations of different techniques will be discussed, with focus on graft enhanced soft tissue management. Based on an overall comparison of the different techniques clinical strategies for various situations will be defined. Timing of the implant placement should be based on the morphological, dimensional and histological changes that follow extraction and common clinical experience. The predictability of GBR in conjunction with implants is based on the understanding of the factors critical for success and on the possibilities and limitations of the GBR materials.

ROOM 112
11:00 - 13:00

Leading Innovations in Form and Function

Choice of the implant length - a multifactorial decision

- How long has an implant to be? The influence of the implant length on the prognosis of dental implant therapies - a scientific review and biomechanical approach
- Achieving primary stability to reduce micromovement to the lowest possible level
- Reviewing clinical factors and implant specific properties

Achim W. SCHMIDT, Germany

Anatomic Implants
Achieving the Next Level in Esthetics

- Limitations of conventional implants include the discrepancy between the geometry of implant platform and the cervical contours of the prosthesis
- The Anatomic Implant introduces design modifications by providing anatomically correct cervical geometry
- Long-term clinical results on the management of tooth replacement in the esthetic zone with immediate and delayed implant placement

Ramin H. MAHALLATI, USA

ROOM 111
11:00 - 13:00

Food for thoughts Science & Clinical experiences

- Implant surfaces, an overview past & present
  Ann WENNERBERG, Sweden
- The role of implant surface chemistry for bone formation
  Victoria FRÖJD, Sweden
- Nanometer structures & early bone formation
  Luiz MEIRELLES, Sweden
- Biomechanical design
  Lennart CARLSSON, R&D, Ospol, Sweden
- Platform Switch “To be or not to be”
  Andrija BOSNJAK, Croatia
- Smarter Implant practice - A Business Concept
  Hans BERGLUND, CEO, Ospol
  Göran URDE, Market Development, Ospol

Geistlich Biomaterials
Innova-OraltronicS
Sybron Dental Specialties
Ospol
Smarter implant practice
Welcome to A Good Evening with Astra Tech!

Meeting anchor: Sverker TORESKOG, Sweden

Guests and speakers: Mariano SANZ, Spain
Fernando ROJAS VIZCAYA, USA
Tord BERGLUNDH, Sweden
Lyndon COOPER, USA

Inspired by the success and the positive feedback from the attendees at “A Good Morning with Astra Tech” at EAO in Zürich last year, we are looking forward to spending a good evening in Barcelona together with you and your colleagues.

During the meeting you will experience a mix of short lectures, interviews and dynamic discussions. Clinicians and scientists representing different fields of dental implantology will present their viewpoints and share their knowledge during an open, educating and entertaining evening meeting.

Turning Challenging Clinical Situations Into Routine - NanoTite™ the Truly Revolutionary Next Generation Surface

Moderator: Jordi CAMBRA, Spain

Speakers: P.O. ÖSTMAN, Sweden
In Association with the University of Göteborg
Xavier VELA, Spain
BORG, Barcelona Osseointegration Research Group

- Pre-Clinical Research and Human Histology
- Insight from Prospective, Controlled Multi-Center Clinical Trials
- Review and Discussion on Challenging Clinical Cases
- Everyday Opportunities for Improving the Clinical Effectiveness
- Optimizing Patient Comfort and Economics by Minimizing Augmentation Procedures
- Important Aesthetic and Bio-mechanical Considerations - Selecting The Optimal Implant Design
- Fast & Friendly Immediacy - An Innovative Approach to Temporary Provisionalization

The New Straumann Implant System: Taking Implant Esthetics and Reliability to the Next Level

- Introduction Urs BELSER, Switzerland
- Innovation without compromising safety Stephen CHEN, Australia
- Natural esthetics - consistently achieved Urs BELSER, Switzerland
- Expand your treatment options based on new clinical evidence Christoph HAMMERLE, Switzerland
- Cases in daily practice - maximizing predictability for you and your patient Juan BLANCO, Spain
- Panel discussion Moderator: Urs BELSER, Switzerland

Simultaneous translation in Spanish will be provided.
ANKYLOS® - 20th Anniversary
Future innovations based on long-term success
ANKYLOS® Past Present Future
Moderator: Piet TROOST
Live Computer-guided implantology: Ashok SETHI, United Kingdom
The ANKYLOS® Expert Board Nigel SAYNOR, United Kingdom Georg ROMANOS, USA Paul WEIGL, Germany Dietmar WENG, Germany

Welcome to the ANKYLOS® 20th Anniversary Show, an infotainment event to celebrate 20 years of clinical success with this implant system. We will transmit computer-guided ANKYLOS® surgery live via satellite from London. With the ANKYLOS® Expert Board, a group of scientists and practitioners who have contributed to the success of the system over many years, we will look back at the origins of the system, discuss the most important topics of today and take a look into the future. Look forward to informative and entertaining two hours!

Precise Computer Guided Implantology with the SimPlant Technology
Lectures on Innovative Implant Techniques which you can apply today. Break-Away to Live Surgery Broadcast
The use of computer assisted diagnosis in minimally invasive surgery and immediate loading. The One Surgery Only Strategy (1SOS) Alberto SICILIA FELECHOSA, Spain
Planning for Perfection Jan KIELHORN, Germany
Flapless surgery: a scientifically based solution Tommie VAN DE VELEDE, Belgium
Computer Guided Implantology, the way to the future Philippe TARDIEU, France

Beautiful Teeth Now™ / New Esthetic solutions & technologies
LIVE patient treatment, audience response question and expert panel Ophir FROMOVICH, Israel
Moderator: Joan PI URGELL, Spain
Introduction
A new innovative implant system Evolved out of clinical demand for minimal osteotomy, soft tissue preservation high immediate stabilization and controlled insertion Live: Ophir FROMOVICH, Israel Presentation: Nitzan BICHACHO, Israel
Expert panel discussion
Platform Shifting is designed to increase soft tissue volume at time of implant treatment to secure long term esthetic results Iñaki GAMBORENA, Spain
Soft tissue esthetics through new abutment design Bernard TOUATI, France Eric ROMPEN, Belgium
Optimal Procera® Esthetics
Clinical and dental laboratory teamwork Eric Van DOOREN, Belgium Luc RUTTEN, Belgium
Metal free solution with Procera®/Laminate & Procera® Bridge Alumina/Zirconia Bernard TOUATI, France
Expert panel discussion
Summary and closing
> Posters

* Posters authors will be presenting their work on Friday, 26 from 12:30 am to 02:00 pm and on Saturday, 27 from 01:00 pm to 02:00 pm, in the poster area.

**Implant Aesthetics**

062 Achieving nature in mandibular anterior edentulous area  
CHO YS.*, CHOI KS., YOON HC., HAN DH. (JINJU - KOREA, REPUBLIC OF)

063 Sloped topped dental implants - aesthetic soft tissue benefits  
COTTRELL R.*, FOERTSCH S. (LAKE FOREST, IL - USA)

064 Peri-implant tissue around the immediately-restored single tooth implant: a retrospective analysis in a period of 12 to 72 months  
DEGIDI M.*, NARDI D., PIATTELLI A. (BOLOGNA - ITALY)

065 Clinical, aesthetic and radiographic outcome of different implant neck designs  
DEN HARTOG L.*, MEIJER H., STELLINGSMA K., RAGHOEBAR G. (GRONINGEN - THE NETHERLANDS)

066 Implant replacement of congenitally missing lateral incisor in an adolescent  
DOGAR A.*, ASLAN Y., GUNCU B., KAYA D., DEMIR B., ALTINTAS . (ANKARA - TURKEY)

067 Anterior tooth replacement with immediate/delayed implants placement: long-term results  
ECCELLENTE T., PIOMBINO M.*, ROSSI A., ORTOLANI M., PIATTELLI A. (GRUMO NEVANO (NA) - ITALY)

068 The immediate temporization of maxillary single tooth implants: 2-years results  
ECCELLENTE T., PIOMBINO M., ROSSI A., D’ERRICO M.*, JANSEN R. (GRUMO NEVANO (NA) - ITALY)

069 Immediate implant with immediate loading use the natural tooth  
GEHRKE SA.* (SANTA MARIA - BRAZIL)

070 Effect of immediate insertion, immediate temporization and flapless technique in the preservation of gingival architecture.  
IBAÑEZ J.*, JUANEDA A., ZAMAR J., ZAMAR N. (CORDOBA - ARGENTINA)

071 New extraction socket soft and hard tissue classification: reliability and validation  
JUODZBALYS G.*, WANG HL. (KAUNAS - LITHUANIA)

072 Correlation between marginal bone-level and dimension of papilla in single-implant  
MOON IS.*, KWON HJ., KIM TH., LEE JH., LEE DW. (SEOUL - KOREA, REPUBLIC OF)

073 Dimension of interproximal soft-tissue on single implant and contra-lateral teeth  
LEE DW.*, KWON HJ., KIM TH., LEE JH., MOON IS. (SEOUL - KOREA, REPUBLIC OF)

074 The influence of soft tissue thickness on crestal bone changes around implants  
LINKEVICIUS T.*, APSE P., GRYBAUSKAS S., PUISYS A. (VILNIUS - LITHUANIA)

075 Comparison of the implant crown aesthetic index with patient satisfaction  
MEIJER H.*, MEIJNDERT L., STELLINGSMA K., RAGHOEBAR G. (GRONINGEN - THE NETHERLANDS)

076 Clinical and radiographic characteristics of single tooth replacements after augmentation  
MEIJNDERT L.*, RAGHOEBAR GM., MEIJER HJA., VISSINK A. (GRONINGEN - THE NETHERLANDS)

077 Crestal level and aesthetics in maxillary anterior single-tooth implants  
ONG ST.*, CHYE ML., QUAKE PT. (KUALA LUMPUR - MALAYSIA)

078 Immediate provisionalization of single 3.0 mm diameter implants in anterior regions  
OYAMA K.*, KAN J., RUNGCHARASSAENG K., LOZADA J. (LOMA LINDA - USA)

079 Creeping of midfacial gingival margin in the anterior implant restorations  
KIM KH.*, KIM SK., CHOI YC. (SEOUL - KOREA, REPUBLIC OF)

080 Modification of gum biotype to prevent midfacial gingival recession  
PARK CS.*, KIM SK., CHOI YC. (SEOUL - KOREA, REPUBLIC OF)

081 Prefabricated telescopic copings for implant-supported overdenture in rehabilitated case  
SANPHET C.*, PANAYAYONG W., THUWANIT V., KITIDUMKERNG W. (SONGKHLA - THAILAND)
082 Implant supported prosthetic restoration of edentulism with removable telescopic dentures
STECZKO W.*, DUBIS P., WITEK P., STECZKO A., WOZNIAK J. (KRAKOW - POLAND)

083 Aesthetic outcome of adjacent implant-supported crowns
TYMSTRA N.*, MEIJER H., RAGHOEBAR G., STELLINGSMA K. (GRONINGEN - THE NETHERLANDS)

084 Chairside provisional posterior restorations optimizing the emergence profile - case series
YENIYOL S.*, OZDEMIR T. (ISTANBUL - TURKEY)

Implant Surgery

085 Clinical and biomechanical analysis of immediately loaded implants
ABBOUD M.*, BOURAUEL C., STARK H., WAHL G., RAHIMI A. (BONN - GERMANY)

086 Asepsis during implant surgery and the usefulness of antibiotics
ABU-TA'A M.*, QUIRYNEN M., TEUGHELS W., VAN STEENBERGHE D. (LEUVEN - BELGIUM)

087 Sinus lifting and simultaneous implant installation with xenogenic bone only
AHN KM.*, BYUN SH., KIM JJ., LEE JH., KIM MJ. (SEOUL - REPUBLIC OF KOREA)

088 Numerical simulation of peri-implant early bone healing
AKCA K.*, Eser A., CANAY S. (ANKARA - TURKEY)

089 Peri-implant epithelium around “switching” implant
ATSUTA I.*, AYUKAWA Y., OGINO Y., MORIYAMA Y., JINNO Y., KOYANO K. (FUKUOKA - JAPAN)

090 A tool for predicting the long-term outcome of implant surgery
BADYIN T.*, GEDET P., HALLERMANN W., BUECHLER P. (BERN - SWITZERLAND)

091 Relevance of soft tissue cutting with a ultrasonic surgical device
BLUS C.*, SZMUKLER-MONCLER S. (TORINO - ITALY)

092 Early failure rate of orthodontic mini-implants
BÖLÜKBASI N.*, OZDEMIR T., KARABUDA Z. (ISTANBUL - TURKEY)

093 Osteotome-mediated sinus floor elevation with and without sinus membrane perforation
KUTAN E., BÖLÜKBASI N., HAVLUÇU U.*, ERSANLI S., OZDEMIR T. (ISTANBUL - TURKEY)

094 Evaluation of RFA and CT values at implant placement
GUNCU B., CAKAN U.*, GUNCU GN., ASLAN Y., TUMER C. (ANKARA - TURKEY)

095 Immediate loading in 105 expanded-platform implants during 16-month follow-up
CALVO GUIRADO J.*, PARDO ZAMORA G., BARONE A., COVANI U. (MURCIA - SPAIN)

096 Comparison of implant-prosthodontic treatments in cases of intermaxillary dimension loss
CATIC A.*, SUSIC M. (ZAGREB - CROATIA)

097 Immediate loading in the mandible. Rehabilitation with three implants
PETRILLI G.*, CURCIO R., VASCONCELOS L., SILVA D., VASCONCELOS R., RAPOPORT A. (SÃO PAULO - BRAZIL)

098 Immediate loading of implants presenting a dehiscence defect: a controlled clinical study
D’AVENIA F.*, GUIDOTTI R., BONANINI M. (PARMA - ITALY)

099 Influence of inter-implant distance on bone microstructure: a histomorphometric study in dogs
PIATTI M.*, NOVAES JR AB., PAPALEXIouv V., TRAINI T., SEGIDI M. (CHIETI - ITALY)

100 A multicenter prospective study for the rehabilitation of the atrophic edentulous maxilla: immediate load and tilted implant

101 A multicenter, randomized controlled clinical trial: immediate non-occlusal versus early loading of dental implants in partially edentulous patients
TESTORI T.*, ZUFFETTI F., CAPELLI M., GALLI F., ESPOSITO M., DEL FABBRO M. (MILAN - ITALY)

102 Guiding process for full arch immediate loading in maxilla
DUCHARTELARD Ph.* (CHAMALIÈRES)

103 RFA diagnostic efficacy in immediate loading protocol. A multicentric study
DUVINA M.*, VIVIANI C., BRANCATO L., BORGIOLI A., TONELLI P. (FLORENCE - ITALY)

104 V-Two-V technique: case series
AGLIARDI E.*, FRANCETTI LA., ROMEO D., MARCO C. (MILANO - ITALY)

105 Dental implants placement after maxillary sinus floor augmentation with anorganic bovine bone and autogenous bone
106 Sinus floor augmentation and simultaneous implant placement: a histomorphometric analysis  
FENNER M.*, SCHLEGEL A., NEUKAM F.W., NKENKE E. (ERLANGEN - GERMANY)

107 A randomized clinical trial to evaluate Nobel Biocare Replace® implant system  
AZZOLA F.*, TASSERA C., FOLEGATTI C., ANTIFORA A., FRANCETTI L. (MILANO - ITALY)

108 Surgical management of severe bone atrophy of the alveolar ridge for implant placement  
ZABARAS D.*, GISAKIS I., BOUBOULIS S., SPANOS A., KOUNTOURI A., PETSINIS V. (ATHENS - GREECE)

109 Clinical evaluation of two implant systems using reduced healing time  
HEBERER S.*, HILDEBRAND D., OZYUVAC H., NELSON K. (BERLIN - GERMANY)

110 Immediate function of dental implants in alveolar ridges augmented with Bio-Oss®  
HERMANS M.*, BARTEAUX L., STIEVENART M. (BRUSSELS - BELGIUM)

111 Peri-implant bone reactions at delayed and immediately loaded implants  
JEONG SM.*, CHOI BH., LEE SH., KIM HS., KO CY. (WONJU - KOREA, REPUBLIC OF)

112 Graftless cemented rehabilitation of the atrophied jaws using immediate function  
KAPLAVI Y.* (RAMAT-GAN - ISRAEL)

113 Histomorphometric analysis of an immediate non-functional loaded implant in dogs  
KIM S.*, HA J. (GWANGJU - KOREA, REPUBLIC OF)

114 Influence of implant insertion depth and size on stress distribution  
PARK JS.*, PARK SW., YANG HS., YANG MS., LEE KM. (GWANGJU - KOREA, REPUBLIC OF)

115 Effect of implant designs on implant stability  
KOAK JY.*, KIM CW., YANG JH., HEO SJ., LEE JB., HAN JS., LIM YJ., KIM SK., KIM SH., KIM MJ. (SEOUL - KOREA, REPUBLIC OF)

116 Implant position in relation to adjacent teeth after 2 years in patients with multiple aplasia  
MAIR B.*, PELOSCHEK M., ALEXANDER F., REINHARD G., GEORG W. (VIENNA - AUSTRIA)

117 Rehabilitation of the complete edentulous maxilla with four zygomatic implants  
MAIZCURRANA A.*, PERAIRE M., RASPALL G. (BARCELONA - SPAIN)

118 Treatment of atrophic maxillae and complex cases with zygomatic implants  
MORAES E.*, MORAES N. (TERESÓPOLIS - BRAZIL)

119 Treatment of complex cases with immediate loading implants: a clinical report  
MORAES E.*, MORAES N. (TERESÓPOLIS - BRAZIL)

120 Marginal bone reaction depending on depth of implant placement  
MORBACH T.*, OPHOVEN F., AL-NAWAS B., WAGNER W. (MAINZ - GERMANY)

121 Microscopical examination of osteotomies with ultrasonic, Laser and classical procedures  
MEULLER CK.*, ROMANOS G., NENTWIG GH. (FRANKFURT AM MAIN - GERMANY)

122 The novel osteotome sinus floor elevation by tissue-engineered bone  
NAKAMURA S.*, YAMADA Y., ITO K., KOHGO T., YOSHIMI R., OKABE K., HIBI H., UEDA M. (NAGOYA - JAPAN)

123 Osteotome sinus floor elevation without grafting material: A 3-year follow-up  
NEDIR R.*, VAZQUEZ L., NURDIN N., PAPALEXIOU V., TABA JR. M., PALIOTO D. (RIBEIRÃO PRETO - BRAZIL)

124 Immediate and early loading of Straumann® SLActive implants  
GUERRA F.*, ZOLLNER A., NICOLAU P., JEFFREY G., KOROSTOF J., KRAFFT T., BRAGGER U., REIS R., TONDOLA (COIMBRA - PORTUGAL)

125 Fluorescence study of bone remodeling after loading in platform switch implants  
NOVAES JR. A.*, OLIVEIRA R., MUGLIA V., BARROS R., SCONZATTI S., NOVAES JR. A. (RIBEIRÃO PRETO - BRAZIL)

126 Influence of loading and interimplant distances on the dynamics of the bone remodeling. A fluorescence analysis  
MUGLIA V.*, PAPALEXIÒU V., BARROS R., SCONZATTI S., NOVAES JR. A. (RIBEIRÃO PRETO - BRAZIL)

127 The effect of the recipient site depth and diameter on the implant primary stability  
KOOK MS.*, PARK YJ., LIM JS., PARK HJ., OH HK. (GWANGJU - KOREA, REPUBLIC OF)

128 A modified segmental ridge expansion for immediate placement of implants  
SANTAGATA M.*, GUARINIELLO L., LANDI L., PRISCO R. (NAPOLI - ITALY)

129 Immediate loading of implants with mandibular overdentures using ball attachments: One-year results of a prospective study  
RIGNON-BRET C.*, WULFMAN C., BISSERY A., HADIDA A., RENOUARD F. (PARIS)

130 Evaluation of patient satisfaction in a prospective clinical trial with an immediate-loading protocol of a mandibular overdenture  
WULFMAN C., BISSERY A., RENOUARD F., HERBOUT B., POSTAIRE M., RIGNON-BRET C.* (PARIS)
131 Immediate loading in the maxillary arch in compromised bone qualities
ROMANOS E.*, PI Jr., LUCATELLI A., CHO SC., FROUM S., ELIAN N., NENTWIG GH., TARNOW D. (NEW YORK - USA)

132 Immediate vs. delayed loading on implant survival and bone quality
HERY C.*, ROMANOS GE., FROUM S., CHO SC., ELIAN N., TARNOW D. (NEW YORK - USA)

133 CO2 laser in implant dentistry. clinical experience and literature analysis
KO HH.*, ROMANOS GE., BLACKWELL D., CHO SC., ELIAN N., FROUM S., TARNOW D. (NEW YORK - USA)

134 Sinus lift and simultaneous implant placement: impact of residual bone height on implant prognosis
RONCO V.*, LAMBERT F., LECLoux G., ROMPEN E. (LIEGE - BELGIUM)

135 Hydroxyapatite fiber material as bone substitute: Clinical studies
SATO M.*, FUJII S., AMAGASA T., KASUGAI S. (TOKYO - JAPAN)

136 Influence of platform switching on crestal bone level changes
HERTEN M.*, SCHWARZ F., FERRARI D., KIRSCH A., SCHEER A., BECKER J. (DÜSSELDORF - GERMANY)

137 Stability development of immediately loaded dental implants
SIMUNEK A.*, STRNAD J., KOPECKA D., BRAZDA T., SOMANATHAN RV. (HRADEC KRALOVE - CZECH REPUBLIC)

138 The distribution of Endopore® implant patients and survival rate
SONG HJ.*, CHA SH., KIM SY., JANG HS., KIM BO. (GWANGJU - KOREA, REPUBLIC OF)

139 Clinical evaluation of implant stability by RFA during healing
SUKUROGLU E.*, AKMAN A., DEMIRALP B. (ANKARA - TURKEY)

140 Immediate implant restoration for fully edentulous using Straumann® implant system
TAKANASHI Y.*, TAKANASHI S., MIZUSAWA N., HIRAI M., SHIGEHIRA Y. (CHUO, TOKYO - JAPAN)

141 Tripodal implant placement for severely resorbed posterior region in maxilla
SHIGEHIRA S.*, NAKASHIMA K., TAKANASHI S., TAKANASHI Y. (KANAGAWA - JAPAN)

142 Clinical outcome of submerged versus non-submerged implants in extraction sockets.
ROCCUZZO M.*, TORSELLO F., MIRISOLA DI TORRESANTO V., CORDARO L. (TORINO - ITALY)

143 Microbiological evaluation of immediate intrasocket implant placement in compromised periodontal sites
TRIPODAKIS AP.*, NAKOU M. (ATHENS - GREECE)

144 Impact of implant geometry and loading on early bone formation
VANDAMME K.*, NAERT I., GERIS L., VANDER SLOOT J., PUERS R., DUYCK J. (LEUVEN - BELGIUM)

145 Current status of implant training in Europe - A questionnaire-based survey
VASAK C.*, FIEBERER R., WATZEK G. (VIENNA - AUSTRIA)

146 The role of the crestal level of implant-abutment connection. A radiographic retrospective analysis
VEIS A.*, TSIRLIS A., PARISIOTIS N., PAPADELI C., PAPADOPOULOU C., ZOGAKIS A., MARINIS G. (THESSALONIKI - GREECE)

147 Immediate loading of short Straumann® te implants
KOKOVIC V.*, MARKOVIC A. (BELGRADE - SERBIA AND MONTENEGRO)

148 Peri-implant hard tissue around calcium phosphate - coated dental implants in baboons
WATZAK G.*, ULM C., HAAS R., TANGL S., SASAK C., WATZEK G. (VIENNA - AUSTRIA)

149 Immediate implant placement - what are the limitations?
CHEN ZH.*, WU YT. (KAOHSIUNG - TAIWAN)

150 Options and limits of bone expansion in narrow ridges: 7-year study
YOUNES R.*, MAKARY C., NADER N., ABI-NASSIF R., JABBOUR G. (BEIRUT - LIBANO)

151 Computer-aided oral implant surgery (CAOIS): a clinical and radiographic multicenter study on 25 patients
VALENTE F.*, SCHIROI G., SBORENA A. (ROME - ITALY)

152 Pre-surgical CAD/CAM planning, designing and fabricating surgical guide and superstructure on dental implants
TAHMASEB A.*, WISMEIJER D. (AMSTERDAM - THE NETHERLANDS)

153 Loss of osseous graft height following lateral window sinus lift
PALARIE V.*, TOPALO V., ATAMNI F. (CHISINAU - MOLDOVA, REPUBLIC OF)

154 Guided surgery with transtomography: use of template and intraoperative control
BOUSQUET F.* (MONTPELLIER)

155 Mandibular biomodelling in the personalization of immediate loading in mandible
CURCIO R.*, PERIN G., CHILVARQUER I., BORRI M., AIZEN S. (SÃO PAULO - BRAZIL)
156 Accuracy of linear measurements using a digital cone beam volumetric tomography.
TOMASI C.*, BRESSAN E., VAROTTO G., CORAZZA B., ATTANASI A. (PADOVA - ITALY)

157 Bone reaction to bovine hydroxyapatite in the mandibular defects of beagle dogs
SHIN JH.*, HAN SB., CHUNG CP., RHYU IC., KU Y., LEE YM., SEOL YI., KIM TI., LEE H., JANG KY. (SEOUL - KOREA, REPUBLIC OF)

158 3 d accuracy of a computer based guiding system: a pilot study
BARNEA E.*, NISSAN J., REZNICK I., ALT I. (TEL AVIV - ISRAEL)

159 Immediate or early loading on partial or single implant cases (prospective study)
CHEOL WON L.*, CHANG WOOG K., XI HONG P. (SEOUL - KOREA, REPUBLIC OF)

160 Clinical application of stereolithographic surgical guides for implant placement: preliminary results
DI GIACOMO GA.*, CURY PR., ARAUJO NS., SENDYK WR., SENDYK CL. (SÃO PAULO - BRAZIL)

161 The accuracy of flapless-surgical-guides
SHIBAHARA K.*, ASAHINA I., SAWASE T., KUROGI T., YAMAGUCHI A. (NAGASAKI - JAPAN)

162 Pit holes of implant simulation systems based on CT data
MAEDA Y.*, SOGO M., MURAKAMI S. (OSAKA - JAPAN)

163 The correlation between CT values of the bone and density types
GRO-ELJ D.*, GRO-ELJ H. (LJUBLJANA - SLOVENIA)

164 Guided surgery and immediate function with cemented restoration for edentulous maxilla
BARTHEAX L.*, HERMANS M. (BRUSSELS - BELGIUM)

165 Immediate loading utilizing guided surgery and Implants anchored in the pterygo-maxillary region
NAVARRO J.M.*, NAVARRO-ALONSO J.M. (NEW YORK - USA)

166 Ct based implant planning and guided implant placement
ABBOUD M.*, KESSLER B., POHL Y., WAHL G. (BONN - GERMANY)

168 Evaluation of the success of CAD CAM surgical stent based flapless implant surgery
TERZIOGLU H.*, OZAN O., UNSAL . (ANKARA - TURKEY)

Technical and Biological Complications

169 Characteristic morphology of the marginal bone resorption for different implant systems

170 Finite element analysis of load transmission at bone-implant interface
BEVLACQUA M.*, TEALDO T., PERA F., MOSSOLOV A., PERA P. (GENOA - ITALY)

171 Prevention and risk factors in BRONJ:
BORGIOLO A.*, BRANCATO L., DUVINA M., VIVIANI C., TONELLI P. (FLORENCE - ITALY)

172 Autologous PRGF-glue to repair sinus membrane perforations during sinus lift
BOZZI L.* (COMACCHIO - ITALY)

173 Influence of restoration type and prostheses misfit on stress distribution in bone around implants
CHO HW.*, KIM NY., LEE JH. (IKSAN - KOREA, REPUBLIC OF)

174 Surgical repair of sinus membrane perforations using stabilized collagen barrier membranes

175 An alternative technique for removal of a fractured implant abutment screw: a clinical report
ERSU B., TURUNOGLU I., MUHTAROGLU M., CELIK G.* (ANKARA - TURKEY)

176 Necrotizing sialometaplasia. report of a case
MORENO GARCÍA C.*, MONJE GIL F., GONZÁLEZ-GARCÍA R. (BADAJOZ - SPAIN)

177 Clinical performance of short implants: 1 year study
GULTEKIN BA., OZGEN M., YALCIN S., KARABUDA ZC., ABDEL HAK J.*, SIRALYEV S. (ISTANBUL - TURKEY)

178 Clinical evaluation of implant supported full ceramic screw retained prosthesis
GULTEKIN BA., ABDEL HAK J.*, BAYRAKTAR M., YALCIN S., OZDEMIR T. (ISTANBUL - TURKEY)

179 Consecutive low-intensity pulsed ultrasound promotes osteogenesis in vitro
IKEDA K.*, TAKAYAMA T., SUZUKI N., SUZUKI A., SHIMADA T., LUIIE H., SUGAI K., MAENO M., ITO K. (TOKYO - JAPAN)

180 Three dimensional finite element analysis of stress distribution of implant with marginal bone loss
LEE JH.*, YANG JH., SHIN SY., BAE BL., YU SM., KIM SW. (CHEONAN - KOREA, REPUBLIC OF)
181 Micro-organisms of peri-implant infections in patients after radiation therapy
KARBACH J.*, BRUNNER A., D’HOEDT B., AL-NAWAS B. (MAINZ - GERMANY)

182 Effect of prosthesis design on reverse torque of abutment screws
KIM SG.*, BAE C., JEONG JH., PARK JU., BAE TS. (SEOUL - KOREA, REPUBLIC OF)

183 Treatment outcome following computer assisted virtual treatment planning
KOMIYAMA A.*, HULTIN M., KLINGE B. (HUDDINGE, SWEDEN - SWEDEN)

184 Pitfalls related to the alveolar distraction osteogenesis
KONG JH.*, KIM YG., RYU DM., LEE BS., OH JH., KWON YD., YOON BW. (SEOUL - KOREA, REPUBLIC OF)

185 Implant prognosis in periodontal patients: a comprehensive and critical review.
KOTSOVILIS S.*, KAROUSSIS IK., FOURMOUSIS I. (ATHENS, GREECE)

186 Myositis ossificans as a complication of iliac crest bone harvesting
KOURKOUTA S.*, DEDI K., RESIDE G. (CHAPEL HILL - USA)

187 3D-finite element analysis of stability and stress distribution on mandibular implant-retained overdenture
KWON K.*, HONG H., WOO Y., CHOI D. (SEOUL - KOREA, REPUBLIC OF)

188 Clinical reactions to experimentally induced peri-implantitis in beagle dogs
MARTINES R.*, SENDYK R., GROMATZKY A., CURY P., SARZEDO R., DI GIACOMO G. (SAO PAULO - BRAZIL)

189 Maxillary osteomyelitis caused by dental implants
MORAN J.*, BESCO S., PIGRAU C., RUBIO J., RUBAL X., MONTANE E., GARCIA J., BASSAS C., RASPALL G. (BARCELONA - SPAIN)

190 Peri-implantitis in the aesthetic zone. Non surgical treatment with an innovative appliance: Rationale and case report
NASTRI L.* (NAPLES - ITALY)

191 FEA study during early healing of implant installation
NICOLAU P.*, RILO N., GUERRA F., ROCHA S. (COIMBRA - PORTUGAL)

192 Tightness of proximal tooth contact on implant prostheses
OH SH.*, KIM HJ., KIM SP. (GWANGJU - KOREA, REPUBLIC OF)

193 Changes in temperatures in dental implants during hot beverage intake: in-vivo measurements
ORMIANER Z.*, FEUERSTEIN O., ASSAD R., SAMET N., WEISS EJ. (RAMAT GAN - ISRAEL)

194 The risk factors associated with stability of two-part mini-implants
PARK S.*, SEO W., KIM I., KIM SH. (UIJONGBU - KOREA, REPUBLIC OF)

195 Removal effect on artificial plaque from RBM treated implant
KOOK MS.*, PARK YJ., PARK JY., KIM HS., YOUN HJ., CHOI OH., PARK HJ., HONG SJ., OH HK. (GWANGJU - KOREA, REPUBLIC OF)

196 A retrospective study of fractured implants
PEDEMONTE S.*, MENDOZA I., SUBIRÀ C., ECHEVERRÍA JJ. (BARCELONA - SPAIN)

197 Giant intracranial arachnoid cyst – a case of implant-prosthodontic treatment
PELIVAN I.*, SUSIC M., VALENTIC-PERUZOVIC M. (ZAGREB - CROATIA)

198 Risk factors in implantology
RODRIGUEZ FJ.*, SANCHEZ A., MOYA MJ. (MURCIA - SPAIN)

199 The incidence of altered sensation after posterior mandibular implant placement
BERNARD JP.*, SAULACIC N., VAZQUEZ L., BELSER U. (GENEVA - SWITZERLAND)

200 Screw fracture when the occlusal force is applied to dental implant - effect of tightening torque of screw
EOM TG.*, LEE SG., SUH SW., JEON GR., JEONG CM. (BUSAN - KOREA, REPUBLIC OF)

201 The effect of various taper angles of the internal morse taper connection type dental implant fixture on their stress distribution by FEA study
SUH SW.*, KIM MD., EOM TG. (BUSAN - KOREA, REPUBLIC OF)

202 Low-intensity pulsed ultrasound accelerates osteogenesis performing bone augmentation in vitro
TADAHIRO T.*, KYOKO I., NAOTO S., KAORI O., HIROAKI Y., MASAO M., KOICHI I. (TOKYO - JAPAN)

Tissue Augmentation

203 Flap closure in grafted sockets
BORGES T.*, CARVALHO Á., CARVALHO V. (BRAGANÇA - PORTUGAL)

204 Ridge preservation procedures after tooth extraction. a clinical and histomorphometric study
BARONE A.*, CALVO GUIRADO JL., COVANI U., PARDO ZAMORA G. (GENOVA - ITALY)

205 Histological outcome of extraction sockets augmented with Straumann BoneCeramic®
DE COSTER P.*, BROWAEYS H., DE BRUYN H. (GHENT - BELGIUM)
206 Evaluation of different clinical variables in the determination of resonance frequency values at implant insertion
STROCCHI R.*, DEGIDI M., DAPRILE G., PIATTELLI A., PETRONE G., CARINCI F. (CHIETI - ITALY)

207 Regenafonim vs. autograft: comparative clinical and histological randomized prospective study
FONTANA F.*, DI STEFANO M., PIATTELLI A., IEZZI G., MAIORANA C. (MILAN - ITALY)

208 Evaluation of sinus augmentation using a composite bone graft mixture
AVILA G.*, GALINDO-MORENO P., MORENO-RIESTRA I., LOPEZ-MARTÍNEZ J., FERNÁNDEZ-JIMÉNEZ A., RIOS HF., SANCHEZ-FERNÁNDEZ E., WANG HL. (ANN ARBOR - USA)

209 Autogenous bone versus beta-tricalcium phosphate graft for bilateral sinus elevation
GARAGIOLA U.*, SANTORO G., MAIORANA C., SZABO G. (MILAN - ITALY)

210 Influence of implant microdesign on healing outcome in grafted bone: A 36-months preliminary report of 1794 consecutively inserted implants
HANSER T.*, KHOURY F. (OLSBERG - GERMANY)

211 Minimizing resorption of iliac corticocancellous bone grafts for maxillary augmentation
NAHLES G.*, HEBERER S., NELSON K. (BERLIN - GERMANY)

212 In vivo micro-CT evaluation of GBA
ITO K.*, MIN S., AKUTAGAWA H., SATO S., ARAI Y. (TOKYO - JAPAN)

213 Dimensional stability of autogenous block grafts in the anterior maxilla
KOSANIC I.*, COLIC S., ANDRIC M., JURISIC M. (BELGRADE - SERBIA AND MONTENEGRO)

214 Placement of non-submerged implants and simultaneous sinus augmentation with bovine HA: a -2 to -7 year follow-up study
LAMBERT F.*, BEAUJEAN L., LECLoux G., ROMPEN E. (LIEGE - BELGIUM)

215 3-D guided bone regeneration using autogenous bone block as space maintainer for bone augmentation in the anterior maxilla
ARNAUD L.*, LAMBERT F., LECLoux G., ROMPEN E. (LIEGE - BELGIUM)

216 Anorganic bovine bone in the sinus lift procedure: a 40 months follow-up
SANTORO G.*, BERETTA M., MARIBADI PC., BENIGNI M., MAIORANA C. (MILAN - ITALY)

217 Prospective study comparing 3 different crestal sinus grafting techniques: 2-year results
NADER N.*, YOUNES R., MAKARY C. (BEIRUT - LEBANON)

218 Radiographic observation of autogenous bone after osteotome sinus floor elevation
NISHIDA T.*, TAKENOUCHI Y., MORI K., TUII Y., NANBA K., ITO K. (TOKYO - JAPAN)

219 The effect of peristeme on healing process of the block bone graft
PARK KD.*, OH HK., PARK HJ., KOOK MS. (SUNCHEON - KOREA, REPUBLIC OF)

220 Bone regeneration in femur defects in rabbits treated with an e-PTFE and a new VBR titanium membrane
RAVERA L.*, SCARANO A., IEZZI G., MORELLI F., PIATTELLI A. (CHIETI - ITALY)

221 Distraction osteogenesis of the alveolar ridge: a systematic review
SAULACIC N.*, SOMOSA MARTIN M., GARCIA A., IIZUKA T. (BERN - SWITZERLAND)

222 GBR using a biphasic calcium phosphate or a collagen coated xenograft
FERRARI D.*, SCHWARZ F., HERTEN M., SAGER M., BECKER J. (DÜSSELDORF - GERMANY)

223 Porous titanium granules for implant stability and bone regeneration – a case followed for 12 years
FORSgren L., HOLMBERG L.*, KRISTERSON L. (JÖNKÖPING - SWEDEN)

224 Platelet-rich fibrin and xenogeneic bone graft for sinus elevation
TOIA M.*, DE FRENZA G., SANTORO G., GARAGIOLA U. (MILANO - ITALY)

225 Membrane micro-motion effect during bone regeneration procedures. A histological study
VEIS A.*, DABARAKIS N., SPRIPOPOULOS G., TSIRLIS A., PARISSIS N., PAPADOPOULOU C. (THESSALONIKI - GREECE)

226 Free microvascular transfer of segmental cortico-cancellous femur for alveolar ridge reconstruction
GAGGL A., VIRNIK AS.*, BUERGER H., CHIARI FM. (KLAGENFURT - AUSTRIA)

227 Injectable calcium phosphate cement around peri-implant dehiscence defects
ARISAN V.*, OZDEMIR T., ANIL A., JANSEN J., OZER K. (ISTANBUL - TURKEY)

228 The correlation between the density of augmented and existing bone
YAMADA Y.*, TAKAYAMA T., OKA S., TANAKA K., TANAKA K., OKUNO K., ITO K. (TOKYO - JAPAN)

229 Periosteal expansion osteogenesis using beta-tricalcium phosphate (B-TCP) block
YAMAUCHI K.*, FUNAKI K., ISHIBE T., TAKAHASHI T. (KITAKYUSHU - JAPAN)

230 Crestal sinus grafting technique with delayed implant placement: 5-year results
YOUNES R.*, NADER N., ABI-NASSIF R., JABBour G., GHRORA C. (BEIRUT - LEBANON)
231 Crestal vs. lateral sinus grafting technique associated with delayed implant placement: 5-year prospective study
YOUNES R.*, NADER N., MAKARY C., ABI-NASSIF R., GHIRRA C., JABBOUR G. (BEIRUT - LEBANON)

232 Rehabilitation of the atrophic posterior maxilla with sinus grafting and oral implants: clinical outcome and a proposal of defect classification
ZANIRONI M.*, NARDELLA S., CHIAPASCO M. (MILAN - ITALY)

233 Accelerated implant stability after light emitting diode photobiomodulation treatment
BRAWN P.*, KWONG-HING A., SANTANA M., HO G. (VANCOUVER - CANADA)

234 Distraction and implants insertion after gianc-cell granuloma – a case report
HUBACEK M.*, BARTONOVA M., KOZAK J., DOSTALOVA T. (PRAGUE - CZECH REPUBLIC)

235 Simultaneous implant placement and bone regeneration using tissue-engineered bone
ITO K.*, YAMADA Y., BABA S., KOHGO T., YOSHIMI R., NAKAMURA S., HIBI H., UEDA M. (NAGOYA - JAPAN)

236 A novel statin delivery system to improve the bone quality
JINNO Y.*, AYUKAWA Y., YASUKAWA E., KOYANO K. (FUKUOKA - JAPAN)

237 Stem cells from dental pulp
LEE SH., YOON HJ.*, OH IH., AHN JY. (SEOUL - KOREA, REPUBLIC OF)

238 Dental implants inserted in the newly formed mandible using rhBMP-7
MACAN D.*, UGLESIC V., KNEZEVIC P., POTOKIĆ K., SUTIC I., JOKIC D., KESEER I. (ZAGREB - CROATIA)

239 Peri-implant osteogenesis is promoted by the local application of statin
MORIYAMA Y.*, AYUKAWA Y., OGINO Y., ATSUTA I., KOYANO K. (FUKUOKA - JAPAN)

240 Application of simvastatin to tooth socket of rats for bone augmentation
NISHIMURA K.*, SATO D., SAMEE M., KONDO H., KASUGAI S. (TOKYO - JAPAN)

241 VEGF and bone remodeling
OGINO Y.*, AYUKAWA Y., ATSUTA I., KOYANO K. (FUKUOKA - JAPAN)

242 Magnetic fields stimulate bone formation in vitro
OZAWA S.*, OHSAWA Y., HIRUKAWA K., TANAKA Y. (NAGOYA - JAPAN)

234 Bioguided tissue engineering: synergy between bone and soft tissues for implant placement
RESTREPO M.*, RESTREPO E. (BOGOTA, D.C - COLOMBIA)

235 Glucuronic acid and phosphoserin act as mineralisation mediators of collagen I based biomimetic substrates with calcium phosphate phases using electrochemically assisted deposition
TEJERO CANTERO R.*, BIERBAUM S., DOUGLAS T., REINSTORF A., WORCH H., SCHAROWEBER D. (VITORIA - SPAIN)

236 Novel aesthetic regeneration treatment by injectable tissue-engineered bone and papilla
YAMADA Y.*, KOHGO T., OKABE K., YOSHIMI R., NAKAMURA S., ITO K., HIBI H., BABA S., UEDA M. (NAGOYA - JAPAN)

237 Effects of electromagnetic fields on bone healing: evaluate the histopathologic and biochemical study in rats
YALTIRIK M.*, KASAPOLGU C., CANKAYA B., ERDEM M., ORAL O., ORAL C., AKSAKALI N. (ISTANBUL - TURKEY)

238 Histopathological effects of two cryogen agents liquid nitrogen and carbon dioxide on the healing of experimental bone defects
KASAPOLGU C., YALTIRIK M.*, ERDEM M., CANKAYA B., ORAL O., ORAL C., AKSAKALI N. (ISTANBUL - TURKEY)

239 8 years follow-up of 6 mm wide-Diameter implants
ANNER R.* (KFAR SABA - ISRAEL)

240 Survival analysis of implant in maxillary and mandibular molar regions; A 4~5 years report
BANG SJ.*, JANG JW., RYOO GH., CHUNG HJ. (GWANGJU - KOREA, REPUBLIC OF)

241 Immediate loading of implants with a provisional fixed prostheses in the edentulous maxilla
BERKVIST G.*, SAHLHOLM S., KARLSSON U., NILNER K., LINDH C. (MÄLMO - SWEDEN)

242 Comparison of results of implant treatment among different age groups
BUYUKOZDEMIR S.*, DEMIRALP C., MUHTAROGULLARI M., DEMIRALP B. (ANKARA - TURKEY)

243 Implant-supported single tooth restorations. a 6 year clinical prospective study
CALVO GUIRADO JL.*, BARONE A., COVANI U., PARDO ZAMORA G., ORTIZ RUIZ A., NEGRI B. (MURCIA - SPAIN)
253 Patient consciousness, experience of, and satisfaction with implant supported restorations
CANPINAR P.*, DEMIREL F., SAHMALI S., MUHTAROGLU M. (ANKARA - TURKEY)

254 Immediate implants loading in resorbed edentulous mandibles: 68 months report
CHAUSSE L.* (BELOEIL - CANADA)

255 Mini-screws in orthodontics: a literature review
CRISMANI A.*, BERTL M., CELAR A., BANTLEON HP., WATZEK G. (VIENNA - AUSTRIA)

256 Evaluation of two retention systems for implant supported mandibular overdenture
CRISTACHE C.*, IONESCU C., CRISTACHE G., BURLIBASA M. (BUCHAREST - ROMANIA)

257 Implant-supported mandibular overdenture: maintenance and patient satisfaction
CRISTACHE C.*, CRISTACHE G., BURLIBASA M., IONESCU C., SFEATCU I. (BUCHAREST - ROMANIA)

258 Success of osseointegrated implants in maxillo-mandibular complex
TESSARI P.*, CURCIO R., FONSECA M., RAPOPORT A. (SÃO PAULO - BRAZIL)

259 Long-term follow-up of immediately loaded implants in completely edentulous jaws
BROWAEYS H.*, DEFRANCO J., DIERENS M., MIREMADI SR., DE BRUYN H. (GHENT - BELGIUM)

260 3-years results of immediately loaded TiOblast implants in the maxilla
DE BRUYN H.*, COLLAEERT B. (GHENT - BELGIUM)

261 Single immediate functional loaded implants. 4 Years Follow-up
DI ALBERTI L.*, PERFETTI G., DOLCI M. (CHIETI - ITALY)

262 Immediate loading with overdenture in edentulous jaws
ECCELLENTE T., PIOMBINO M., ROMANOS G., ROSSI A., LUONGO G. (GRUMO NEVANO (NA) - ITALY)

263 Implants supporting maxillary full-arch prostheses: 3-year data
ECCELLENTE T., PIOMBINO M., ROSSI A., VITI A.*, CAPASSO S., GROTE P. (GRUMO NEVANO (NA) - ITALY)

264 Survival rate of first molar replacement with implants
ROSSI A., ECCELLENTE T., PIOMBINO M., ORTOLANI M.*, CAPASSO S. (GRUMO NEVANO (NA) - ITALY)

265 Immediate implant-supported overdenture in edentulous maxilla
ECCELLENTE T., PIOMBINO M., ROSSI A., CAPASSO S.*, ACCARINO M. (GRUMO NEVANO (NA) - ITALY)

266 Five-year follow-up of fixed prostheses implants- supported in maintenance therapy
ECCELLENTE T., PIOMBINO M., MEDDA L., ROSSI A.*, D'ERRICO M., CONSERVA E. (GRUMO NEVANO (NA) - ITALY)

267 Design and development of dental implants based on mechanical engineering processes
FLACH M.*, STRECKBEIN R., ELLERHORST M., STRECKBEIN P., MÜLLER K., HASSENFLUG R. (KOBLLENZ - GERMANY)

268 Early loaded conical Brånemark® dental implants in the edentulous mandible
GEJER M.*, SMEDBERG J. (STOCKHOLM - SWEDEN)

269 Radiographic assessment of autotransplanted teeth after 5 years
STRBAC GD.*, FÜRST G., GRUBER R., VASAK C., WATZEK G. (VIENNA - AUSTRIA)

270 Early loading of implants in irradiated bone: a pilot study
GOKCEN-ROHLIG B.*, OZDEMIR-KARATAS M., YALTIRIK M. (ISTANBUL - TURKEY)

271 Early loading and bone training of implants inserted by postdocs
HESS P.*, THELE P., NENTWIG GH. (FRANKFURT - GERMANY)

272 Resonance frequency analysis of xive implant stability during osseointegration period
KARABUDA Z.C.*, ERSANLI S., ABDEL-HAQ J., GULTEKIN B. (ISTANBUL - TURKEY)

273 Retrospective study on short (>&#8804;8mm) Strauman® implants
KIM HR.*, LEE BS., KWON YD., KIM YG., YOON BW. (SEOUL - KOREA, REPUBLIC OF)

274 Narrow-diameter implants placed in limited alveolar spaces - A 3-year follow-up
LAINE J.*, TAMMISALO T., VÄHÄTALO K. (TURKU-FIN - FINLAND)

275 Immediate occlusal function in full-arch rehabilitations. A 3-year retrospective analysis
PRAGOSA A.*, SOUSA S., ASCENSO J., CHEN A., CARAMES J. (LISBOA - PORTUGAL)

276 Implants as strategic abutments to improve removable partial dentures function
RICHTER EJ.*, MUJIRITSKY E. (WÜRZBURG - GERMANY)

277 A descriptive and time based analysis of the success rate in using ITI® dental implant system over a period of ten years (1995-2005)
ROKN A.*, MIREMADI A., MONZAVI A., BEHNAZ H. (TEHRAN - IRAN)
278 Denture stabilisation mini implants versus conventional implants (6 years follow up)
SALTINI CV.*, ERARD JC. (SIGNY - SWITZERLAND)

279 Maxillary overdenture supported by splinted implants: a retrospective study up to 20 years
SANNA AM.*, NUYTENS P., VAN STEENBERGHE D., NAERT I., QUIRYNEN M. (LEUVEN - BELGIUM)

280 Success criteria for immediate restored implants in the posterior region
SCHMITT CO.*, NEUGEBAUER J., KORNMANN F., ZÖLLER J. (OPPENHEIM - GERMANY)

281 The use of fibula grafts for the resorbed mandible
STEVELING H.*, MERKLE K., HABFELD S. (HEIDELBERG - GERMANY)

282 Ten to fifteen-year follow-up of implant treatment
SIMONIS P.*, TENENBAUM H. (STRASBOURG)

283 Challenging edentulism with immediate loading in severely atrophic edentulous maxillae.
THOR A.*, TOLJANIC J., BAER R., EKSTRAND K. (UPPSALA - SWEDEN)

284 Selection of autotransplants for increasing alveolar branch of the upper jaw
TSILENKO O.*, MALANCHUK V. (KIEV - UKRAINA)

285 Clinical outcome of dental implants placed in vascularized iliac bone grafts
WU YQ.*, ZHANG ZY., HUANG W., ZHANG ZY., ZHANG CP., SUN J. (SHANGHAI - CHINA)

286 Metaanalytic evaluation of long-term survival rates of immediately loaded implants
ZECHNER W.*, HAAS D., BERNHART T., TEPPER G., WATZEK G. (VIENNA - AUSTRIA)

287 Time-related decrease of titanium osteoconductivity and rejuvanation using light treatment
ATT W.*, AITA H., OGAWA T. (LOS ANGELES - USA)

288 Clinical evaluation of mini screws (Aarhus System®) for orthodontic anchorage
BERNHART T.*, CRISMANI A., BRODURE V., WATZEK G. (VIENNA - AUSTRIA)

289 Properties of pulsed laser deposited zirconia/hydroxyapatite on titanium
BEZNOŞKOVA SEYDOLOVA M.*, TEUBEROVA Z., DOSTALOVA T., KRUZ P., DVORANKOVA B., SMETANA K., JELINEK M., KOCOUREK T. (PRAGUE - CZECH REPUBLIC)

290 Short-term comparative study of 4 different implant surfaces in dogs
DE MAEZTU MA.*, BRACERAS I., ALAVA JI., GAY ESCODA C. (TOLOSA - SPAIN)

291 Effect of abutment surface configuration and luting agents on the retention of implant supported crowns
Cakistan U.*, Guncu B., Canay S. (ISTANBUL - TURKEY)

292 The ability of osseotite surface. Histologic and histomorphometric study in rabbits

293 Biological response after porcine hidroxapatite graft. Experimental study in rabbits

294 Calcium phosphate based synthetic bone grafting materials: present, and future
CHOU AHK.*. LEGEROS R. (NY - USA)

295 Ex vivo gene expression of osteoblasts in maxillary sinus grafting
CRESPI R.*, CAPPARE P., CENCI S., GHERLONE E. (MILAN - ITALY)

296 All-on-Four ® versus Toronto-Brånemark: a biomechanical study
ROMEO D.*, BELLINI C., CORBELLA S., AGIARDI E., FRANCETTI LA. (MILANO - ITALY)

297 Soft tissue adhesion to titanium versus composite components: a transcutaneous animal model
DOMKEN O.*, JUNG R., WIELAND M., LAMY M., HÄMMERLE CHF., ROMPEN E. (LIÈGE - BELGIUM)

298 The influence of implant shape to the bone stress
FUJII N.*, FARES N., SAADE J., IKEYA R., MAMADA K., HIROTA K. (TOKYO - JAPAN)

299 Accuracy of the mechanical torque-limiting devices
TULUNOGLU I., ERSU B., SUKUROGLU E.*, YAMAN Z., SELIM E. (ANKARA - TURKEY)

300 Effects of load cycling on abutment screws and this removal torque. Statement of problem
TULUNOGLU I., AKMAN S., ERSU B., CIRAK G., CAVUŞOĞLU Y.* (ANKARA - TURKEY)

301 Stress distribution around single and multiple splinted tooth and implant abutments in implant-tooth supported restoration
TULUNOGLU I., CIRAK G.* (ANKARA - TURKEY)
302 Enhanced bone response to calcium reinforced oxidized implants
FRÖJD V.*, FRANKE-STENPORT V., MEIRELLES L., WENNERBERG A. (GOTHENBURG - SWEDEN)

303 Analysis of the osteointegration in rabbits of the titanium SLA surface submitted to the variation of time exposition to the acid
GEHRKE SA.*, NASCIMENTO PC., BOHRER D., MACHADO L., KÖNIG JR B., SALLES MB. (SANTA MARIA - BRAZIL)

304 Influence on the variation of exposition time in the acid of SLA titanium surface
GEHRKE SA.*, NASCIMENTO PC., BOHRER D., MACHADO L., KÖNIG JR B., SALLES MB. (SANTA MARIA - BRAZIL)

305 Primary bone cell adhesion on newly engineered titanium surfaces
GRAZIANI F.*, CEI S., BARACHINI S., LEGITIMO A., CONSOLINI R., GABRIELE M. (PIA - ITALY)

306 Growth factor enhanced injectable composite for periodontal and alveolar indications
HERBERG S., SIEDLER M., PIPPIG S., SCHUETZ A., DONY C., KIM CK., WIJKSJÖ UME.* (MARTINSRIED - GERMANY)

307 Evaluation of beta-tricalcium phosphate grafted in rat mandibular bone defect
HIROTA M.*, MIZUKI N., OZAWA T., MATSUI Y., TOHNAI I. (YOKOHAMA - JAPAN)

308 Precision of fit in implant frameworks
HJALMARSSON L.*, JEMT T., ÖRTORP A., SMEDBERG JI. (ESKILSTUNA - SWEDEN)

309 PEEK and osteoblast cytocompatibility for endosteal dental implants
JARMAN-SMITH M.*, GRONOWICZ G., SAGOMONYANTS K. (THORNTON CLEVELEYS - UNITED-KINGDOM)

310 Improved photo-induced hydrophilic surface enhances cell behavior and bone apposition
JIMBO R.*, SAWASE T., ATSUTA M. (NAGASAKI - JAPAN)

311 Electric potentials of titanium implants. Study desing
JORNET A.*, SANCHEZ A., MOYA MJ., RAMOS ML., LUCAS J., PEREZ JC., JACOBO C. (MURCIA - SPAIN)

312 Comparative study of bone formation between Bio-Oss® and OSTEON®
JANG JS.*, OH JS., JUNG WK., LEE YH., CHUNG SM. (SUWON - KOREA, REPUBLIC OF)

313 Gene-expression of MC3T3-E1 osteoblast cellscultured on anodized titanium surface and machined titanium surface by means of cDNA microarray
PARK J., LEE J.*, KIM MR., KANG N. (SEOUL - KOREA, REPUBLIC OF)

314 Alpha-TCP containing simvastatin as bone substitute: Animal and clinical studies
SATO D.*, UENO N., NYAN M., KASUGAI S. (TOKYO - JAPAN)

315 Preparation of custom-made implant materials using stereo lithography
KAWASHIMA N.*, SAIITO M., NIKIURA Y., NAKAJIMA N., KAWASAKI K., SHIGEHARA S., TSUNEKUNI T. (YOKOHAMA - JAPAN)

316 Copolymer study in the primary stability of osseointegrated implants
KAYATT FEK.*, LACOSKI MKL., KAYATT DLK. (PONTA PORA - BRAZIL)

317 The effects of hyaluronic acid gel on the healing of oral mucosa
KIM HJ.*, HONG JK., KIM CE. (SEOUL - KOREA, REPUBLIC OF)

318 The effect of alkali-and heat-treated titanium surface on differentiation of osteoblast

319 Effects of fibrin glue on bone formation in combination with deproteinized bone xenografts in humans
KIM S.*, KIM M. (GWANGJU - KOREA, REPUBLIC OF)

320 An Experimental Study for Developing Bioreosorbable Membranes
TAE IS., KIM SG., KIM ES., LEE JH., KIM HK.* (KWANGJU - KOREA, REPUBLIC OF)

321 Cellular activities of osteoblast-like cells on surface-modified titanium discs for use of dental implants: in-vitro study
KIM SS.*, CHOI DG., WDO DG., LEE SB., KWON KR., BAJK J., KIM HS. (SEOUL - KOREA, REPUBLIC OF)

322 Surface characteristics of anodized titanium oxide nanotubes
KIM MH.*, PARK SW., LEE KM., KIM HS., YANG YZ. (GWANG-JU - KOREA, REPUBLIC OF)

323 Influence of biomimetic oligopeptide-coated surface on bone formation
KU Y.*, KIM TL., LEE SH., JANG MS., NA HK. (SEOUL - KOREA, REPUBLIC OF)

324 Behaviour of three different calcium phosphates in a critical-size defect
KIRCHHOFF M.*, LENZ S., HENKEL KO., GERBER T. (ROSTOCK - GERMANY)

325 Biomechanical and Histological Behavior of Zirconia Implants. An Animal Experiment
KOHAL R.*, BUTZ F., BÄCHLE M., HAN J. (FREIBURG - GERMANY)
326 Fracture strength of zirconia implants after artificial aging
ANDREIOFFELLI M.*, KOHAL R. (FREIBURG - GERMANY)

327 Scanning electron microscopical and energy dispersive x-ray spectrometer analysis of dental implant surface after Er,Cr:YSGG laser treatment
Kwon KH.*, MIN SK., OH SH., CHOI MK., JO PK. (IKSAN, DAEJEON - KOREA, REPUBLIC OF)

328 Scanning electron microscopic study of implant surface after Er,Cr:YSGG laser irradiation
Kwon KH.*, MIN SK., OH SH., JO PK., KIM YJ. (IKSAN, DAEJEON - KOREA, REPUBLIC OF)

329 Influence of surface characteristics on bone integration of titanium implant surface design: Resonance frequency analysis and histomorphometric analysis study in minipig
Kwon KH.*, OH HK., MIN SK. (IKSAN, DAEJEON - KOREA, REPUBLIC OF)

330 The effect of Neodymium magnet on bone formation around titanium
Leesunbok R.*, Hwang Y., Kwon T., Choe B. (SEOUL - KOREA, REPUBLIC OF)

331 Bone response in free form fabricated scaffolds
Malmström J.*, Adolfsson E., Jarmar T., Engqvist H., Thomsen P. (GÖTEBORG - SWEDEN)

332 DNA microarray analysis of osteoinductive properties of commercial implant surfaces
Silvestros S., Mamalis A.*, Krithnakis S., Georgiou I. (ATHENS - GREECE)

333 Biological Investigation of an experimental laser sintered titanium implant surface
Mangano F.*, Mangano C., Montini S., Piattelli A., Sammons R. (GRAVEDONA (COMO) - ITALY)

334 Micro CT scan evaluation of functionally seated locking taper connection
Marincola M.*, Di Carlo F., Quaranta A., Peccii R., Bedini R. (CARTAGENA - COLOMBIA)

335 Nano size structures for enhanced early bone formation
Meirelles L.*, Albreksson T., Wennerberg A. (GÖTEBORG - SWEDEN)

336 Clinical and histological comparison of Bio-Oss and Emdogain
Miremadi SA.*, Rokn AR., Miremadi SR. (TEHRAN - IRAN)

337 Cellular response of microfabricated titanium obtained from wire-type EDM

338 Assement of the effect of a biphasic ceramic on bone response in a dog mandibular bone

339 Diachronic study on interface microstructure between bone and titanium implants

340 Bone absorption post-extraction

341 Comparison of stability with different implant surface topographies in dogs
Oh GJ.*, Yang HS., Vang MS., Park SW. (GWANG-JU - KOREA, REPUBLIC OF)

342 Quantitative PCR: A promising technique investigating the early bone-implant interface
Zoric N., Omar Om.*, Suska F., Svensson S., Wigren S., Hall J., Nannmark U., Thomsen P. (GÖTEBORG - SWEDEN)

343 Histologic evaluation of two bone substitute material for bone regeneration
Paknejad M.*, Rokn AR., Safiri A. (TEHRAN - IRAN)

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Paknejad M.*, Rokn AR., Khandagh Abadi H. (TEHRAN - IRAN)

345 In vitro human osteoclasts formation and activity on bone graft materials
Perrotti V.*, Nicholls B., Piattelli A. (CHIETI - ITALY)

346 Titanium and zirconium nitrides used for coating of chromium cobalt alloy
Prachár P.*, Bartáková S., Vanek J. (BRNO - CZECH REPUBLIC)

347 Assessment of treated titanium surfaces for enhancing cell gingival attachment
Protivinsky J.*, Appleford M., Kocourek T., Jelinek M., Strnad J., Ong J. (SAN ANTONIO - USA)

348 In vivo human platelet behaviour on titanium surfaces
Mortara R.*, Morra M., Cassinelli C. (ALESSANDRIA - ITALY)

349 Human alveolar bone cell proliferation and expression of osteoblast phenotype on porous titanium
Rosa AL.*, Crippa GE., Oliveira PT., Lefebvre LP., Beloti MM. (RIBEIRAO PRETO - BRAZIL)

350 Effect of type I collagen-coated titanium surface on human osteoblastic cell adhesion, proliferation and differentiation
Rosa AL.*, Assis AF., Oliveira PT., Morra M., Beloti MM. (RIBEIRAO PRETO - BRAZIL)
351 Effects of growth factors and serum proteins on human osteogenic cell cultures grown on a machined titanium surface
Rosa Al.*, Oliva Ma., Maximiano WM., Nanci A., Oliveira PT. (Ribeirão Preto - Brazil)

352 Toxicity in miniature pigs after intravenous application of alizarin complexone
Ruehe B.*, Kershaw O., Niehues S., Nelson K. (Berlin - Germany)

353 Fracture strength of different temporary abutments
Santing H.J.*, Ozcan M., Raghoebar G.M., Meier H.J. (Groningen - The Netherlands)

354 Biomechanical and histomorphological results of hydrophilic surface modification
Ferguson S., Langhoff J., Voelter K., Von Rechenberg B., Hefti T., Schlottig F.* (Bern - Switzerland)

355 Histomorphometric analysis of different type immediate loaded implants in human
Se Hoon K.*, Yong Chul B., Sung Eun Y., Chang Hyun K., Je UK P. (Seoul - Republic of Korea)

356 The effect of heat treatment on the dissolution characteristics of synthetic hydroxyapatite
Strnadova M.*, Brazda L., Protivinsky J. (Prague - Czech Republic)

357 Osteogenic capacity of periosteum-derived cells on different titanium surface topography

358 Noble metals as new antimicrobial and biocompatible coatings

359 Enhanced contact osteogenesis on a nanostructured titanium implant surface
Xavier SP.*, Tavares MG., Ikuno KE., Rosa Al., de Oliveira PT., Nanci A. (Ribeirão Preto - Brazil)

360 The role of collagen in establishing mineralized tissue-titanium interfacial strength
Yamada M.*, Saruwatari L., Ogawa T. (Los Angeles - USA)

361 Microstructure on zirconia ceramic surface produced by ion beam sputtering
Yang B.*, Wille S., Kern M., Adelung R. (Kiel - Germany)

362 Effect of various arc ion platings on the titanium screws
Yu JM.*, Vang MS., Yang HS., Park SW., Kim NS. (Gwang-Ju - Republic of Korea)

363 Formation mechanism of TiO2 nanotube anodized on the titanium surface
Kim HS.*, Park SW., Lee KM., Yu JM., Yang YZ. (Gwang-Ju - Republic of Korea)
### Faculty

#### INVITED SPEAKERS

<table>
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<th>Name</th>
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<td>ALANDEZ Javier</td>
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<td>Ramat Hasharon, Israel</td>
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<td>WATZEK Georg</td>
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#### RESEARCH COMPETITION AND SHORT ORAL COMMUNICATION PRESENTERS

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Factors determining the success/failure of an implant-based rehabilitation

Host related factors: Bone healing

Peri-implant bone healing recapitulates fracture healing with the interface created between bone and the implant surface occupied by a collagen-free cement line. This interface matrix has been conserved throughout evolution and provides a stable interfacial bond. While many implant surfaces are osteoconductive, only the so-called “bioactive” materials are bone-bonding. These two phenomena have been shown to be predominantly effected through substrate topography. Examples will be provided of materials which are of the requisite topography but outside the range of traditional bioactive materials surfaces.

Pathogenesis of peri-implantitis. Influence of susceptibility to periodontitis and implant surface roughness

Biological complications at implants refer to processes that compromise hard and soft tissue integration to implants during function. Continuous loss of supporting bone around implants in radiographs and findings on clinical signs of inflammation, i.e. bleeding on probing and/or suppuration in the soft tissues surrounding implants, are not acceptable. Peri-implantitis is a diagnosis, which is associated with tissue destruction and corresponds to periodontitis at teeth. In the presentation new data from clinical and experimental studies will be presented. Detailed characteristics of peri-implantitis lesions will be demonstrated and factors related to the risk for peri-implantitis, such as implant surface modifications and periodontitis susceptibility within the subject, will be outlined.
Implant related factors: surfaces and design

When osseointegration was initially described the implants that were used were made of commercially pure titanium and were machined into the shape of a threaded screw. The machining process left a surface with small irregularities. With time a number of modifications have been made to the implant surfaces. Today the vast majority of implants have micro textured surfaces. The new surfaces are said to recruit bone forming cells earlier and in a more robust manner. The implications of this biologic response towards the long-term performance of implants are rarely discussed. This presentation will discuss the clinical performance of implants with different surface characteristics.
Clinical Advances
Immediate loading 5 years after the Barcelona Consensus Conference: Where do we stand today?

> Georg WATZEK

1970 MD degree, Medical School, University of Vienna
1973 Specialty board examination in dentistry (DDS)
Residency at Dept. of Oral and Maxillofacial Surgery, University of Vienna
1976 Fellowship at Columbia University, New York
1978 Residencies at Neurosurgery and ENT Department, University of Vienna
1979 Specialty board examination in Oral and Maxillofacial Surgery
Appointed senior resident since 1982 Head of Department of Oral Surgery, University Clinic of Dentistry, Medical University of Vienna
1983-2003 President of the Austrian Society of Oral Surgery and Implantology
1987-1989 Chairman of the School of Dentistry of the University of Vienna
1989-1993 President of the Austrian Society of Dentists and Stomatologists
1991 Honorary member of the Hungarian Society of Dentists and Stomatologists
1994-1997 Visiting Professor at the University of Pennsylvania
Since 1998 Chairman of the School of Dentistry of the University of Vienna
2003 - 2004 President of the European Association for Osseointegration (EAO)
2003 Honorary member of the German and Czech Society of Implantology
2006 Associated Editor of the International Journal of Oral & Maxillofacial Implants (IOMI)

Author of 8 textbooks and more than 250 publications

> Abe INGBER

Dr. Abraham Ingber received his degrees from University of Maryland and the Boston University School of Graduate Dentistry. His early involvement with the documentation and the use of Osseointegration in implant dentistry laid the groundwork for the development of the first all ceramic abutment system, CerAdapt, marketed by NobelBiocare. He continues his research and development work in a collaborative effort with NobelBiocare in the area of Cadd/Cam technology and virtual dentistry. Dr. Ingber lectures nationally and internationally on the multifaceted aspects of implant, prosthetic and esthetic dentistry. He is past president of the Academy of Osseointegration. He currently maintains a full time practice in Bethesda, Maryland. He is happily married for 37 years and the proud father of two sons and a daughter.

Fully edentulous maxillae and mandibles: clinical techniques and scientific background
For more than 35 years, PI. Branemark and the dental community have been documenting the phenomenon that he called Osseointegration. The success of his original two-stage surgery with delayed loading of the healed implants yielded a high success rate for implant dentistry. The current emphasis on immediate and early loading places an additional burden on the clinician. This presentation will demonstrate the various clinical procedures used to restore the fully edentulous patient with dental implants utilizing the most current clinical and scientific studies for immediate implant placement and early loading.

> Devorah SCHWARZ-ARAD

Dr. Devorah Schwartz-Arad received her DMD and PhD degrees from the Faculty of Medicine, Hebrew University, Jerusalem, Israel. She is a specialist in Oral and Maxillofacial Surgery and a Senior Lecturer in the Department of Oral and Maxillofacial Surgery at the School of Dental Medicine, Tel Aviv University.

Dr. Schwartz-Arad is a member of the Specialty Examination Board for Oral and Maxillofacial Surgery, Ministry of Health, Israel and the president of the Israeli Association of Oral Implantology (IAOI).

Dr. Schwartz-Arad has published numerous scientific articles and abstracts and presented more than 80 papers at scientific meetings in Israel, Europe and the United-States. She has been awarded several academic and professional awards, including the Israeli Academy of Sciences and the Israel Cancer Association.

Dr. Schwartz-Arad has an active surgery center in Oral and Maxillofacial Surgery with special expertise in bone grafting and dental implantation.

Immediate loading on implants placed on post extraction sockets: Single and multiple tooth gaps, procedures and predictability
Immediate functional loading is a rather new surgical-prosthetic technique that can be used in implant dentistry. One critical goal in implant placement is the achievement of optimal soft and hard tissue integration. Immediate functional and non-functional loading seems to be a technique that gives satisfactory results in selected cases.

The main rationale and one of the most important reasons for immediate implantation is the preservation of alveolar bone dimensions which has been documented in previous studies. Moreover, when bone shape and quality are compromised, immediate implantation becomes a major contributing success factor. This presentation will discuss the rational for immediate implantation accompanied with immediate loading of dental implants. The pros and cons as well as indications, contra-indications, case selection and complications will be referred and cases of immediate implantation accompanied with immediate loading will be presented.
implants in the aesthetic zone: does immediate loading allow for optimal outcomes regarding function and aesthetics?

The evaluation of implant success and survival is relatively simple to be objectively determined. Conversely, no conventionally accepted criteria exist to evaluate aesthetics which is often assessed in a subjective way. The aim of this lecture is to evaluate the outcome of immediate implant loading in the aesthetic zone in terms of functionality and aesthetics by using an evidence-based approach. Many different factors can affect the outcome of immediate loading procedure, such as bone quality and quantity, insertion torque value, implant characteristics. It is important to standardize the criteria for evaluating treatment success, possibly shifting from implant-based to patient-centred outcomes. The adoption of aesthetic scores and of questionnaires based on VAS should help clinicians to evaluating treatment success, possibly shifting from implant-based to patient-centred outcomes.

Prof. Dr. I.E. Naert graduated as a dentist (LDS) at the Catholic University of Leuven (K.U. Leuven) in 1977. Since then, he joined the Department of Prosthetic Dentistry at the K.U. Leuven. Currently he is a full professor at the Faculty of Medicine of the K.U.Leuven and chairman of the Department of Prosthetic Dentistry within the School of Dentistry, Oral Pathology and Maxillo-facial Surgery. He is teaching fixed prosthodontics at the undergraduate, graduate (Msc Prosthetic Dentistry and Msc Restorative Dentistry) and post-graduate levels. His research interests focuses on: clinical follow-up studies of prosthetic treatments, animal studies conducted to improve the outcome of oral implants in bone of low density and the impact of implant loading on bone (re-)modelling. He (co-)authored more then 150 papers in peer reviewed journals and (co-)authored several text books in the field.

Implant supported prostheses: new challenges

CHRISTOPH HÄMMERLE

Educational background
1982 Graduation as DMD, School of Dental Medicine, University of Bern, Switzerland
1985–1986 Post Graduate Studies in Periodontology, School of Dental Medicine, University of Bern, Switzerland
1986–1991 Post Graduate Studies in Restorative Dentistry, School of Dental Medicine, University of Bern, Switzerland

Professional history
1988–1989 Visiting Assistant Professor, Department of Stomatology, University of California, San Francisco, USA
1989–1991 Assistant Professor, Department of Crown and Bridge Prosthodontics, University of Bern, Switzerland
1997–2000 Assistant Professor, Department of Periodontology & Fixed Prosthodontics, University of Bern, Switzerland
1998–1999 Visiting Associate Professor, Department of Physiology, University of Sydney, Australia
2000–2003 Chairman, Department of Fixed Prosthodontics and Dental Material Sciences, Center for Dental and Oral Medicine and Cranio-Maxillofacial Surgery, University of Zürich, Switzerland
2000–Direct, Graduate Program in Restorative Dentistry (EMR/SSD), University of Zürich, Switzerland

Research areas
Christoph Hämmerle 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 restorative dentistry. His main scientific interests encompass biological and prosthetic aspects of the treatment with dental implants as part of the overall restorative treatment concept. In the area of guided bone regeneration he has developed and refined treatment modalities by applying basic experimental research as well as clinical evaluations in patients. A recent focus in the area of bone and soft tissue reconstruction lies on the development of technologies involving growth factors, appropriate carrier materials and new technologies for GBR membranes.

Christoph Hämmerle is supervising a strong group of basic science researchers and clinicians, who focus on development and application of new ceramic materials (zirconia, alumina) for fixed reconstructions on implants and teeth.

Additional information
President elect of the European Association of Osseointegration (EAO)
Member on the review boards of the Journal of Clinical Periodontology and the International Journal of Oral & Maxillofacial Implants
Committee member for specialist certification in Prosthodontics in Switzerland
Board member of the Swiss Society of Implantology (SGI)

Present position
2003 Senior Lecturer, Department of Fixed and Removable Prosthodontics and Dental Material Sciences, Center for Dental and Oral Medicine and Cranio-Maxillofacial Surgery, University of Zürich, Switzerland
2007 Visiting Researcher at the New York University College of Dentistry (Bpt. of Biomaterials and Biomimetics)

Education
1981–1982 High school (Gymnasium) in Egg, Germany
1982 High school diploma
1990–1997 Studies in General Dentistry, Faculty of Medicine, University of Tübingen, Germany (Graduation as Dr.med.dent.)
1998–1999 Post Graduate Studies in Oral Surgery, School of Dental Medicine, University of Zürich, Switzerland
1999–2003 Post Graduate Studies in Fixed and Removable Prosthodontics and Dental Material Sciences, University of Zürich, Switzerland

Licences, Certifications, Titles
1997 State examination for Dentists (Graduation as Dr.med.dent.)
1997 First Diploma for Dentists, University of Tübingen, Germany
1998 „doctor medicinae dentium“ (Dr.med.dent.), University of Tübingen, Germany
1999-2000 One-year postdoc scholarship for advanced education in Veenendaal (Netherlands)
2002 German Academic Exchange Service (DAAD)

Abutment characteristics influencing the result of the rehabilitation

Nowadays, several kinds of implant abutments are offered by the implant manufacturers. On the one hand, a choice has to be made between standardised and customised abutments. On the other hand, different abutment materials like titanium or various high strength ceramics (alumina, zirconia) are available. Clinical studies reporting on single-implant crowns on ceramic abutments are showing comparable clinical results like the ones achieved with titanium abutments, even when they are applied in molar regions.

Encouraged by the good clinical results of ceramic abutments, modern trends even go further with the development of one-piece zirconia implants. From a biological standpoint this ceramic may be a material with good biocompatibility. Still, the prosthetic part of the reconstruction of one-piece implants remains critical, since these implants have to be ground in the patient’s mouth. This may cause surface roughness and subsequently reduce the stability of the ceramic by inducing microcracks. Furthermore, the reaction of the soft-tissue seal to polished or ground zirconia still remains to be examined. Therefore, more studies of zirconia for this indication are necessary in future.
Dr. J. R. Strub, born in 1948, received his D.D.S., Dr. Med. Dent., and Ph.D degrees from the University of Zürich, Switzerland. He was a Visiting Professor of Biomaterials at Louisiana State University and was formerly Associate Professor and co-director of the Graduate Program in Periodontal Prosthetics at the University of Zürich. Since 1988, Dr. Strub has been Professor and Chair of the Department of Prosthodontics at the Albert-Ludwig University in Freiburg, Germany. Dr. Strub is married and has one child.

The outcome of fixed prostheses on implant versus teeth: A systemic review

In partially edentulous subjects, teeth may be treated and used as abutments for fixed dental prostheses (FDPs). Alternatively, such patients may be rehabilitated by means of fixed implant- or tooth/implant-supported reconstructions including single-unit crowns. Outcomes from systematic reviews have provided evidence on the long-term survival and success rates of tooth-supported FDPs with or without the use of cantilever units. Results from a recent systematic review have shown that FDPs incorporated on severely periodontally compromised abutment teeth compared favourably with those of FDPs incorporated in subjects without severe periodontally compromised dentitions. In comparison, other systematic reviews have reported on survival rates as well as on long-term biological and technical complications of implant- or tooth/implant-supported FDPs including implant-supported single-unit crowns.

The aim of this presentation is to provide a comparative analysis of survival rates and of biological and technical risks versus benefits in the treatment planning of partially edentulous subjects by means of fixed prostheses on implants or natural abutment teeth.

Cadcam: is this a challenge for the future prosthodontist or for the patient?

The ultimate promise of new imaging and manufacturing technology in dentistry is improved patient care. Perhaps the greatest improvement offered by CAD/CAM technology is the resultant merging of treatment planning and therapy. Imaging systems permit dentistry to move into a common language and in a virtual environment that is visually accessible to the therapy team as well as the patient. Despite the enormous promise of CAD/CAM, this technology will not directly alter patient demographics, the underlying diseases we encounter or the clinical scenarios that we address. This presentation will investigate how a digital dentistry future may alter the therapeutic approaches of the prosthodontist and the expectations of the patient.
Master Clinic
Factors influencing the result in the aesthetic zone

> Paul STONE
Paul Stone BDS(Hons) FDS RCS(Edin)
Specialist in Oral Surgery and Surgical Dentistry
Paul is Chairman of the Specialty Advisory Board in Implant Dentistry of the Royal College of Surgeons of Edinburgh, Secretary General of the European Association for Osseointegration, Immediate Past President of the Association of Dental Implantology (ADI) and Member of the General Dental Council Implant Training and Education Group.
He is a part-time Consultant at Edinburgh Postgraduate Dental Institute and a member of teaching staff at Dundee University Dental Hospital. He is a Fellow of the International Team for Implantology (ITI) and his main interests are in the surgical aspects of implant and reconstructive surgery, and the development of educational techniques and standards.

> Avishai SADAN
Dr. Sadan is Professor and Chairman, Department of Comprehensive Care, Case Western Reserve University School of Dental Medicine, Cleveland, Ohio. He is the editor-in-chief of Quintessence International, the editor-in-chief of Quintessence of Dental Technology (QDT), served on the editorial boards of other journals, and has lectured and published nationally and internationally on esthetic and implant dentistry and biomaterials.
Dr. Sadan is a graduate of Hebrew University Hadassah School of Dental Medicine in Jerusalem, Israel where he has also completed an internship in maxillofacial prosthodontics and oral medicine. He received his training in prosthodontics from the LSU School of Dentistry and has also completed a fellowship in prosthodontics emphasizing esthetic and implant dentistry at LSU. A member of several professional organizations including the American College of Prosthodontists, the Academy of Osseointegration, the European Academy of Esthetic Dentistry, the American College of Dentists, OKU Dental Honor Society, Pierre Fauchard Academy, and other organizations, he maintains an intramural practice limited to fixed and implant prosthodontics.

> Didier DIETSCHI
Dr Didier Dietschi was licensed in 1984 and obtained his doctoral and Privat-Docent degrees in 1988 and 2004, respectively, at the University of Geneva, Switzerland. He also received a PhD degree in 2003 at the University of ACTA, Netherlands. Following a 6-year period of full time teaching and research activity in Operative Dentistry and Periodontology, he started a part time private practice in Geneva, dedicated to aesthetic restorative dentistry. Dr. Dietschi has published more than 70 clinical and scientific papers and book chapters on adhesive and aesthetic restorations; he also co-authored the book “Adhesive Metal-Free Restorations”, edited in 1987 by Quintessence and translated in 7 languages. Dr Dietschi is lecturing internationally on adhesive and aesthetic Dentistry.

Can adhesive techniques vary the indication for implants?
The use of implants in narrow spaces or in young patients constitutes a surgical, restorative and aesthetic challenge which can not yet be addressed in a fully satisfactory manner. As well, long term stability of tissues in these cases is difficult to control. Adhesive restorations offer conservative and reliable alternatives to implants. In addition, composite resins can be used to correct or enhance soft tissue contours and tooth form to improve aesthetic integration of implant supported restorations. This lecture will overview rationale, indications and use of adhesive techniques as addition or substitutes to implant therapy.

Strategies in restoring the esthetic zone
The evolution of restorative materials and dental implants enables the restorative/surgical team to achieve pleasing esthetic results that they can accomplish using simplified approaches in most clinical situations. However, some demanding situations still require the use of a combination of restorative materials or modified prosthesis design. The presentation will review common and unique clinical challenges, including the provision of a predictable function in esthetically demanding situations, the comfortable management of prosthesis delivery, the achievement of optimal optical properties and the provision of a durable marginal seal.
Xavier ASSÉMAT-TESSANDIER is graduated of the Dental University of Paris V. He occupied successively several university and hospital functions in the prosthodontic department of the University of Paris V. He started as a tutor and after being teaching-aid, he then became assistant professor in 1976. He left university in 1983, to work full-time as prosthodontist in his private practice in Paris. He obtained post-graduate certificates in fixed prosthodontics, removable complete prosthodontics, removable partial prosthodontics and implant prosthodontics. He published several scientific articles and books on partial dentures, bonded bridges and implant dentistry. He lectured extensively nationally and internationally on the same topics. Editor-in-chief since 1999 of “Implant”, the main french publication on implantology, he also serves on the editorial boards of “Les Cahiers de Prothèse” since 1994, “Clinic” since 1995 and “Implant” from 1995 to 1999. Member of the European Association of Osseointegration since 1992.

Dr. Jaime Lozada is the director of the Graduate Program in Implant Dentistry and professor at Loma Linda University School of Dentistry. He completed his residency in Implant Dentistry at Loma Linda University School of Dentistry in 1987 and his graduate prosthodontics certificate in 1997 from the same university. Since the completion of both of his discipline certificates, Dr. Lozada has been instrumental in training residents and fellows in the latest techniques in oral implant surgery and prosthodontics at the Graduate Program and the Center for Implant Dentistry at Loma Linda University School of Dentistry. Since its beginning 30 years ago, Loma Linda University Graduate Program in Implant Dentistry and Implant Dentistry Center is recognized as one of the pioneering institutions in Implant Dentistry and prides itself in aiding in the advancement of this exciting discipline of dentistry. Dr. Lozada has been involved with Implant Dentistry for over 20 years. He is an active member of the Academy of Osseointegration, a Fellow with the American Academy of Implant Dentistry, and a Diplomate of the American Board of Oral Implantology/Implant Dentistry. Dr. Lozada has published and lectured nationally and internationally on Implant Dentistry. He maintains a faculty practice limited to Implant Dentistry and Prosthodontics.

The dilemma of the optimal number of implants in the aesthetic zone (aesthetic and biomechanical considerations) Immediate implant restoration has gained popularity in recent years due in part to technological advancements that use computed tomographic images to simulate the actual clinical situation. This computer-assisted simulation enables clinicians to develop a comprehensive treatment plan that can be precisely executed in a timely manner. In the aesthetic zone, however, a successful outcome requires more than merely accurate implant placement. This presentation discusses the significance of site development for aesthetic implant restoration and describes a computer-guided immediate provisionalization procedure and its surgical and prosthodontic rationale.

Enthusiastic defender of high quality, Jean Marc Etienne is now recognised through the whole world of dental technicians. Born in France in 1964, he first graduated in mechanical engineering. He then orientated himself towards dental technology. Then he was attracted by dental prosthetics and in 1985 he got a master’s degree in Dental Technologies at the National Institute of Metz, one of the best French schools in this speciality. He is a member of the Oral Design International group since 1989 and shares with Willi Geller and his friends an unusual philosophy on customised aesthetics. Since now 16 years, Jean-Marc Etienne transmits his ideas and his know-how giving lectures and courses in Europe and in the United States. He runs the CERALOR laboratory, the Oral Design Centre, in Nancy, which specialises in fixed and implanted aesthetic dentistry.

The role of the dental technician in establishing optimal aesthetics CAD CAM technologies go on expanding in dental practice. The range of prosthetic solutions has recently being improved in an aesthetic and innovative way, particularly for cemented and trans screwed zirconia bridges. Designing and manufacturing complex dental restorations combining biocompatible materials, new and digital techniques has become the daily way of working of dental technicians. Today more than ever, real team working methods adopted by the implantologist, the prosthodontist together with their dental technician will lead the great prosthetic satisfactions.
**CHAIRPERSON**

Massimo SIMION

Degree of Medicine and Surgery at the University of Milan in 1979.
Specialization in Odontostomatology and Dental Prosthodontics at the University of Milan in 1982.
Professor and Chairman of the Department of Periodontology and Implant Restoration at the Dental School of the University of Milan.
Member of the Board of the European Association for Osseointegration (EAO) 1998 - 2005.
President of EAO for the years 2001-2003 and Immediate Past-President for years 2004/2005.
Member of the Council of EAO since the year 2005.
Founder of the Italian Society of Osseointegration.
Active Member and Vice-President of the Italian Society of Periodontology (SidP) for the years 2003-2005.

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

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**FRIDAY MORNING**

**Short Oral Communications 1**

**PRESENTER**

**041** Alteration of Vertical Dimension with Implant-Supported Fixed Restorations Opposed by Restored Natural Teeth or Implant-Supported Fixed Restorations

Zeev ORMIANER

**PRESENTER**

**042** Osteoblast adhesion, proliferation and differentiation induced by bone graft materials

Enrico CONSERVA

**PRESENTER**

**043** The influence of a novel zirconia surface on osteoblastic behavior

Ralf-Joachim KOHAL

**PRESENTER**

**044** Nanotite surface vs. Osseotite: a prospective randomized double blind histomorphometric study in humans

Tiziano TESTORI

**PRESENTER**

**045** Flapless Surgery and Immediate Loading versus the Classical Surgical Protocol

Tommie VAN DE VELDE

**PRESENTER**

**046** Clinical performance of non-reinforced acrylic provisional restorations in immediate loading

Ana VARGAS
> Sebastian FABREGUES

Doctor in Medicine and Surgery. University of Barcelona
Specialist in Stomatology. University of Madrid
Master in Periodontology. University of Madrid
Professor. Master in Periodontology. University of Valencia
Private Practice. Periodontics and Implant Surgery. Palma de Mallorca

> Rudolf FÜRHAUSER

047 Prospective evaluation of soft tissue around immediate implant restorations

> Stefan FICKL

048 Hard tissue alterations after different socket preservation techniques – a histological evaluation

> Lertrit SARINNAPHAKORN

049 Stem and osteoblast cells response to surface modified titanium implant

> Guillermo CHACON

050 Evaluation of the indirect sinus elevation technique using a sinus endoscope on fresh cadavers

> Thomas OATES

051 Impact of glycemic control on implant integration in diabetes patients
Plenary Session 3
Adjunctive surgical techniques

> 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. He published over 200 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, Periodontal Practice Today and Parodontologie.

Surgical techniques in compromised bone quality
Dental implant treatment is a clinical established treatment modality with very good prognosis. However, advanced jaw resorption (type D or E) as well as poor bone quality (type 4) has been associated with implant failures. There is, however also evidence available that acceptable levels of implant success can be achieved in such conditions. Host and implant characteristics together with surgical technique properties are three parameters that can mainly influence the clinical results when using osseointegrated implants for prosthetic reconstruction of edentulism. Implant and surgical considerations will be discussed in the treatment of compromised bone sites.

> Carl-Johan IVANOFF

Dr. Ivanoff graduated with his DDS and LDS degrees from Faculty of Odontology, University of Göteborg in 1982 and became a board certified specialist in Oral and Maxillofacial Surgery in 1993. In 1999, he received his PhD from the same university, defending the thesis “On Surgical and Implant Related Factors Influencing Integration and Function Of Titanium Implants. Experimental and Clinical Aspects.” Currently, Dr. Ivanoff is a consultant with the Department of Oral and Maxillofacial Surgery, StU/Möndal Hospital, Möndal, Sweden, Associate Professor in Oral and Maxillofacial Surgery, Sahlgrenska Akademie, University of Göteborg and a research fellow at Department of Biomaterials/Handicap Research, Faculty of Medicine, University of Göteborg. Over the last 20 years, Dr. Ivanoff has practice implant surgery and related surgical techniques. He has also conducted clinical and experimental research, mainly in the field of implantology.

> Stefan LUNDGREN


Reconstructive surgery as a rescue procedure in implant rehabilitation
Maxillofacial reconstruction with iliac crest bone grafts in the atrophic maxilla and reconstruction with intraoral bone grafts in the partially dentate patients prior to implant treatment will be reviewed. Bone reformation with vertical distraction osteogenesis in the posttraumatic patient and in combination with onlay bone grafting in the atrophic edentulous situation will be presented. The clinical as well as experimental results from a new surgical technique for rehabilitation of the posterior maxilla with reformation of bone with sinus membrane elevation without the use of any graft material will be presented.
Member of the following International Organizations:
- European Association for Osseointegration
- European Prosthodontic Association
- American Academy of Esthetic Dentistry
- American Academy of Restorative Dentistry
- American Academy of Fixed Prosthodontics

Member of:
- Editorial Board of THE EUROPEAN JOURNAL OF ESTHETIC DENTISTRY
- Advisory Board of the JOURNAL OF ESTHETIC AND RESTORATIVE DENTISTRY

Burton LANGER

Burton Langer graduated from Tufts University and Tufts School of Dental Medicine. He received his certificates in Periodontics and Masters Degree in Science at Boston University Graduate School of Dentistry in 1966. Dr. Langer is a Diplomate of the American Board of Periodontology. He was one of the first periodontists trained in osseointegration by Professor Per-Ingvar Branemark in 1983. His development of new modalities of therapy, such as the early re-entry procedure for bone grafts, the ridge augmentation procedure, the subperiosteal connective tissue graft and various flap procedures for implants, have become standard methods of treatment. In addition, Dr. Langer has lectured extensively throughout the world and has written over 40 articles, many of which have original concepts that have enhanced the clinical practice of periodontics and implant dentistry. He is the 1997 recipient of The American Academy of Periodontology Master Clinician Award.

The correction and avoidance of esthetic disfigurements on implants resulting from trauma, dental disease or previous implant therapy

There has been a steady progression of surgical and restorative modifications, which have improved the final cosmetic results for patients seeking implant therapy. These changes are a combination of improvements that have developed from the soft tissue treatment of teeth with esthetic defects to the enhancement of techniques of bone regeneration. The presentation will illustrate the array of soft and hard tissue surgical procedures which may avoid the esthetic disfigurements, which often arise from dental disease and trauma. The essential treatment sequence will be presented which is often crucial to the final outcome. Unfortunately, many of the cases, which have had implants placed, result in esthetic nightmares. Reversal of these unsightly results to a favorable outcome will be highlighted.

In concert with these regenerative techniques, there are many interceptive steps that can be undertaken by the restorative and surgical colleagues that may preclude the need for these surgical procedures and thereby simplify the treatment for the patient.
Friday, October 26, 2007   14:00 - 17:10

Clinical Research Competition

> Fernando ALMEIDA

Dr. Fernando Almeida attended the Oporto University Portugal where he received his DDS in 1981. In January 2006 received his PhD with the theme "Immediate Loading on Implants". He presented Conferences in Portugal and abroad and has published several scientific articles about Implants. He was Professor of Fixed Prosthodontics at "ISCS-N" and at "ISCS-S" Portugal from 1994 to 1999. He is Guest Professor of the "Oral Rehabilitation Master Degree" at the "ISCS-N". Dr. Almeida practises implantology, aesthetic fixed and removable prosthodontics in his private clinics in Oporto and Lisbon. Since 2001, he is NobelBiocare Mentor with every year Courses in implantology intitled "Curso de Implantes e Prótese" on both cities. He is the owner of a laboratory - Labdent® - providing state of art prosthesis with Procera® Network. Dr. Almeida has been invited to The World Conference Nobel Biocare® in Las Vegas 2007.

> Joo Hyun KWON

033 Radiographic evaluation of marginal bone level around implants with different neck designs: 3-year results

> Matteo CAPELLI

034 A multicenter clinical study of immediate load of the completely edentulous jaws by axially positioned and tilted implants

> Peter GEHRKE

035 Validity and Reproducibility of the Implant Crown Aesthetic Index

> Luigi CANULLO

036 Platform switching and immediately loaded post-extractive implants. Multicenter double-blind RCTs
> Franck RENOUARD

Franck Renouard is graduated of the Dental University of Paris V in 1982. He was Jean-François Tulasne’s assistant in the Cranio-Maxillo-Facial Team of Paul Tessier from 1983 to 1988 in Paris. He has published several national and international articles and is author of two Text Books with Bo Rangert. The first one ‘Risk Factors in Implant Dentistry: Simplified Clinical Analysis for Predictable Treatment’ was published in 10 languages. He lectures intensively on Implants, Immediate loading, Biomechanics and Bone Grafting procedure. Dr. Renouard was elected to the European Association for Osseointegration executive board in Amsterdam in 2000, and is the past President for the organization. He is in Private Practice in Paris limited of Oral and Implant Surgery.

> Margareta HULTIN

037 Complications following computer assisted treatment planning and immediate function

> Christer DAHLIN

038 Long-Term Follow-up on Soft tissue and bone levels following GBR treatment

> Joseph EID

039 Implant survival in sinus lift augmentation with bovine hydroxyapatite alone

> Kees STELLINGSMA

040 Short implants versus augmentation to treat the extremely resorbed mandible
Friday, October 26, 2007     14:00 - 17:00

Short Oral Communications 2

> José-Xabier AREVALO VARELA  
Doctor en Cirugía Dental, Universidad Autónoma de Honduras  
Posgrado en Medicina Bucal, Universitat de Barcelona  
Diploma in Implant Dentistry, Goteborg University/ UB  
Diploma in Clinical Periodontology, Goteborg University/UB  
PhD candidate Universitat de Barcelona  
Author of several scientific papers published in specialized national and international peer reviewed publications.  
Author and co author of several chapters of "El Manual de Odontología" editorial Masson.  
Award for the best video communication Spanish Society of periodontology, XXXIX Reunión Anual de SEPA  
Simon Virgili Award for the paper "A prospective clinical study on titanium implants in the zygomatic arch for prosthetic rehabilitation of the atrophic edentulous maxilla with a follow-up of 6 months to 5 years." Clin Implant Dent Relat Res. 2006;8(3):114-22.  
Speaker and Instructor of both:  
Diploma in Implant Dentistry, Goteborg University/ UB  
Diploma in Clinical Periodontology, Goteborg University/UB  
Private practice in Barcelona, Spain, specialized interests in Implantology and oral aesthetics

> Gang WU  
052 Biomimetic coating Incorporated BMP-2 on Polymers: A New bone-induction system

> Nele VAN ASSCHE  
053 BoneCeramic as alternative for BioOs in the treatment of bony dehiscencies along implants

> David KOHAVI  
054 Bone-anabolic treatment enhances implantation: shifting critical strains to bone-implant interface

> Andreas STAVROPOULOS  
055 Age and bone regeneration. An experimental study in rats

> Pablo GALINDO-MORENO  
056 Immunocytochemical evaluation of differentiation markers after sinus grafting
Adrian Guerrero, DDS MClinDent (Perio)
Dr. Adrian Guerrero received his dental degree from the University of Granada, Spain in 1994; a Certificate in Dental Implants and Maxillofacial Reconstruction from the University of Umeå, Sweden in 1996; and a Master of Clinical Dentistry in Periodontology from the Eastman Dental Institute in London, UK, in 2004. Presently, he is an assistant professor at the Department of Comprehensive Graduate Dentistry, University of Barcelona, Spain, and he is simultaneously running a private practice limited to periodontology and dental implants in Malaga, Spain. He received the 2005 graduate research prize from the European Federation of Periodontology and he has acted as post hoc reviewer for the Journal of Clinical Periodontology.
Plenary Session 4
The role of implants in the multidisciplinary oral rehabilitation: ask the experts

> Daniel van STEENBERGHE

Daniel van Steenberghe
MD, PhD, DDS, Periodontol, Oral Surg.
Dr.h.c. of the University of Bucharest
Honorary citizen of Aix-en-Provence
Honorary Fellow of the Royal College of Surgeons (Ireland)
Medal of the city of Paris
Gold crown with diamond of the Faculty of Dentistry of Amsterdam
Honorary Member of the:
- Slovenian Society of Osseointegration,
- Pierre Fauchard Academy
- Alpha Omega Fraternity
- Polish Society of Implantology,
- Tüch Society of Implantology
- International Academy of Computer Aided Implantology
Copied Member of the:
- Deutsche Akademie für Wissenschaften "Leopoldina",
- Academy of Medicine of Cordoba
Chair of the Department of Periodontology at the Catholic University of Leuven
Professor ordinarius at the Faculty of Medicine, teaching:
- human anatomy
- medical ethics
- periodontal therapy

Educational background
1982 Graduation as DDS, School of Dental Medicine, University of Bern, Switzerland
1986-1988 Post Graduate Studies in Periodontology, School of Dental Medicine, University of Bern, Switzerland
1988-1991 Post Graduate Studies in Reconstructive Dentistry, School of Dental Medicine, University of Bern, Switzerland

Professional history
1989-1991 Visiting Assistant Professor, Department of Stomatology, University of California, San Francisco, USA
1989-1991 Assistant Professor, Department of Crown and Bridge Prosthodontics, University of Bern, Switzerland
1997-2000 Associate Professor, Department of Periodontology & Fixed Prosthodontics, University of Bern, Switzerland
1999-2000 Visiting Associate Professor, Department of Physiology, University of Sydney, Australia
2000-01 Consultant /Co-chairman, Brånemark clinic
2000-01 Chairman, Brånemark clinic
2003-08 Professor, Prosthetic Department, Gothenburg University

Research areas
Christoph Hässeler 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 restorative dentistry.

> Christoph HÄMMERLE

Christoph Hämmeler is a specialist in reconstructive dentistry. His clinical focus is on the comprehensive treatment of complex, partially edentulous patients applying all available options of restorative dentistry. Prof. Hämmeler’s main scientific interests encompass biological and prosthetic aspects of the treatment with dental implants as part of the overall restorative treatment concept. In the area of guided bone regeneration he has developed and refined treatment modalities by applying basic experimental research as well as clinical evaluations in patients. A recent focus in the area of bone and soft tissue reconstruction lies on the development of techniques involving growth factors, appropriate carrier materials and new technologies for GBR membranes.

> Torsten JEMT

1975-06 DDS, Gothenburg University
1982-12 National Board certified prosthodontist
1984-10 Odont. Doctor (PhD)
1986-01 Consultant /Co-chairman, Brånemark clinic
2000-01 Chairman, Brånemark clinic
2003-08 Professor, Prosthetic Department, Gothenburg University

Publications
More than 120 publications in international journals

Lectures
More than 800 international presentations worldwide

Visiting prof.
Visiting Professor, North-Western University, Chicago, 1989-91
Visiting Professor, University College London, London, 2003-

Editorial Board International J Prosthod 1997
J Dental Impl Ret Res 1999
> Mariano SANZ
- Degree of Medicine (MD) by the Universidad Complutense de Madrid
- Specialist in Stomatology (DDS) by the Universidad Complutense de Madrid
- Doctor in Medicine (DrMed) by the Universidad Complutense de Madrid
- Full Professor of Periodontology at the Universidad Complutense de Madrid
- Dean of the Facultad de Odontología. Universidad Complutense de Madrid
- Director of the Graduate Program Master in Periodontology at the Universidad Complutense de Madrid
- Past Secretary General of the European Federation of Periodontology
- Regional Board Member representing Europe at the IADR Board
- Associate Editor of the Journal of Clinical Periodontology and Member of the Editorial Board of Journal of Periodontal Research, Oral Diseases and Clinical Oral Implant Research
- More than 100 publications in peer review scientific journals
- Has given multiple lectures, seminars and courses on topics related to Periodontology, Dental Implants and Dental Education

> Georg WATZEK
1970 MD degree, Medical School, University of Vienna
1973 Speciality board examination in dentistry (DDS)
1976 Residency at Department of Oral Surgery, University Clinic of Dentistry, Medical University of Vienna
1976 Fellowhip at Columbia University, New York
1978 Residencies at Neurosurgery and ENT Department, University of Vienna
1979 Speciality board examination in Oral and Maxillofacial Surgery
Appointed senior resident since 1982 Head of Department of Oral Surgery, University Clinic of Dentistry, Medical University of Vienna
1983-2003 President of the Austrian Society of Oral Surgery and Implantology
1987-1989 Chairman of the School of Dentistry of the University of Vienna
1989-1993 President of the Austrian Society of Dentists and Stomatologists
1991 Honorary member of the Hungarian Society of Dentists and Stomatologists
1994-1997 Visiting Professor at the University of Pennsylvania
since 1998 Chairman of the School of Dentistry of the Medical University of Vienna
2003-2004 President of the European Association for Osseointegration (EAO)
2003 Honorary member of the German and Czech Society of Implantology
2006 Associated Editor of the International Journal of Oral & Maxillofacial Implants (JOMI)
Author of 8 textbooks and more than 250 publications

> Chantal MALEVEZ
M.D., D.D.S. Professor at the Faculty of Medicine (Free University of Brussels-ULB) teaching the management of the edentulous patient and implant technologies
Vice-president of the Certificate in Implantology
Clinical chief and responsible of the department of Maxillo-facial Surgery and Dentistry at the Children’s hospital of Brussels treating congenital maxillo-facial deformities
Attached clinical chief of the department of maxillo-facial surgery at the Academic Hospital Erasme, developing oral rehabilitation by means of osseointegrated implants
Member of the team of the cleft palate center at the children’s hospital of Brussels
Member of scientific Societies: E.A.O., A.O., E.A.C.M.F.S., Royal Belgian Society of Maxillo-facial Surgery
Lectures internationally and publishes in the fields of implant therapy in partially and totally edentulous patients as well as in maxillo-facial deformities

> Alain GARCIA
1968-1972 Study of Dental Surgery. Paris V Faculty
1972 Certificate of animal physiology. Paris VII Faculty
1973 Certificate of upper Study in Parodontology. Paris V Faculty
1981 Search Thesis in Parodontology on roots and bone reactions after transplantations on dogs. Paris V Faculty
1984-2007 18 nationals and internationals publications.
1982-2007 Attached consulting practitioner in Parodontology. A.P.H.P. Paris V Faculty
Plenary Session 4
The role of implants in the multidisciplinary oral rehabilitation: ask the experts

> Stefano GRACIS
Dr. Gracis received his D.M.D. degree in 1986 from the University of Pennsylvania, (Philadelphia, Pennsylvania, USA) and, in 1987, from the University of Pavia (Pavia, Italy). In 1990, under the guidance of Dr. Ralph Yuodelis, at the University of Washington in Seattle, he obtained the certificate in Prosthodontics with an M.S.D. degree. He then returned to Milan, Italy, where he has been working ever since in private practice limiting his activity to prosthodontics and restorative dentistry. From 1998 to 2004, he was a guest lecturer at the University of Parma (Parma, Italy). He belongs as active member to the European Academy of Esthetic Dentistry (EAED) and he is the current President of the Italian Academy of Prosthetic Dentistry (AIOP). He has contributed several articles in the field of restorative dentistry and he is a frequent lecturer on topics related to fixed prosthodontics and implant prosthodontics.

> Javier ALANDEZ
Dr Javier Aláende attended the University Complutense of Madrid where he received his M.D., D.D.S, PhD, and Masters in Oral surgery, Periodontology and Implants. He has been a professor at the same university, in Periodontology and Pre-grade implants and for the Masters, in the Department of Oral Medicine, for ten years. Dr Aláende is currently Head of Implant Services at Perio Clinic, in Madrid. He has authored over 60 publications and participated in various written works on Periodontology and implants.
As an active member of the Spanish Society of Periodontology, Dr Aláende has given around 100 conferences and courses on the specialty.
He is president of the scientific commission at the College of Odontology and Stomatology.

> Federico HERNÁNDEZ ALFARO
Dr Hernandez-Alfaro studied medicine and dentistry and specialized in Oral and Maxillofacial Surgery in Barcelona, Spain. He obtained his PhD at Universitat Internacional de Cataluña, and is Diplomate by the European Board of Oral and Maxillofacial Surgery. He is currently Chairmen of the Departments of Oral and Maxillofacial Surgery at Hospital General de Cataluña and Teknon Medical Center. He is also Clinical Professor of Oral and Maxillofacial Surgery at Universitat Internacional de Cataluña (Barcelona, Spain), and Chairs the Program in Dental Implants at the same University.
Dr. Hernández Alfaro’s main interest is Orthognathic and Preprosthetic Surgery and has lectured worldwide in these fields. He currently leads a research project in bone regeneration with stem cells.
He is the author of “Bone grafting in oral implantology” published by Quintessence in 2006.
Eugene E. Keller, DDS, MD
Born June 4, 1941 in Urbana, IL, United States
Work Address: Mayo Clinic, 200 First Street SW, Rochester, MN 55905
PRESENT ACADEMIC RANK AND POSITION
Consultant - Division of Oral Diagnosis and Oral and Maxillofacial Surgery, Department of Surgery, Mayo Clinic, Rochester, Minnesota
1970 - Present
Professor of Surgery - Mayo Clinic College of Medicine, Rochester, Minnesota
1994 - Present
Chair - Division of Oral Diagnosis and Oral and Maxillofacial Surgery, Department of Surgery, Mayo Clinic, Rochester, Minnesota
2001 - Present
EDUCATION
University of Nebraska, Lincoln
1959 - 1961
University of Nebraska College of Dentistry DDS
1961 - 1965
Mayo Graduate School of Medicine, University of Minnesota
Residency, Oral and Maxillofacial Surgery
1965 - 1968
Mayo Graduate School of Medicine, University of Minnesota
MD, Thesis: A Radiographic Analysis of Dental, Skeletal, and Facial Development in Patients with Various Endocrine and Metabolic Diseases.
1965 - 1968
BOARD CERTIFICATION(S)
American Board of Oral and Maxillofacial Surgery
Oral and Maxillofacial Surgery
1971
Basic Research Competition

> 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 Profs. 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, Univ. of Lisbon
Vice-Dean Lisbon Dental School, University of Lisbon -2000 – 2004
Founder and Past President of the Portuguese Periodontal Society
Past-President of the European Federation of Periodontology
Fellow and Regent for Portugal of the International College of Dentists and Fellow of the Pierre Fauchard Academy
Fellow of the International Team for Implantology
Private Practice limited to Periodontology and Surgical part of implant rehabilitation

SATURDAY MORNING

> Joseph TOLJANIC
023 Early integration outcomes following immediate provisionalization of atrophic maxillae

> Ralf-Joachim KOHAL
024 Fracture resistance of alumina toughened zirconia implants after chewing simulation

> Daniel Stefan THOMA
025 Prevention of gingival invagination by a new biodegradable hydrogel embrane

> Giuseppe CARDAROPOLI
026 Healing following tooth extraction and immediate implant installation with flapless surgery

> Anders PALQUIST
027 Surface properties of dental implants using high-resolution transmission electron microscopy
D.D.S., M.S., Dr. Odont., Dr. Dr. Dr. h.c., is Professor and Research Director of Graduate Periodontics at the Universidad Autónoma de Nuevo León, Monterrey, Mexico. He is also Visiting Professor to the Master in Periodontics at the Universidad Complutense de Madrid, and to the Master in General Dentistry at the Universidad de Barcelona in Spain. Former Distinguished Professor, Head of the Division, Chairman of the Department and Director of Advanced Education Program in Periodontics, The University of Texas Health Science Center at Houston, Dental Branch, of which he was Dean from 1992 to 1996; Former Chairman of the Department of Periodontics and Director of Advanced Education Program, The University of Michigan. He is Honorary Professor at the Universidad Nacional de Buenos Aires, Argentina, Honorary member of the Pierre Fauchard Academy, and Fellow of the International College of Dentists, American College of Dentists, Academy of Medical Sciences in Cordoba, Argentina and holds honorary membership in many international dental organizations. He is Consultant to the Council of Dental Therapeutics, ADA and Council on Scientific Affairs, ADA. He has been the recipient of four Doctor Honoris Causa Degrees from de National Universities of Cuyo (1994), La Plata (1996), Tucumán (1998) and Northeast, Corrientes (2004), in Argentina. He belongs to numerous professional organizations, has published more than 500 articles related to periodontics and lectured throughout the world. Dr. Caffesse was the recipient of the 1989 Clinical Research Award of the American Academy of Periodontology and the 1989 William J. Gies Periodontology Award for his scientific contributions. He was honored in 1991 by the establishment of the Raul G. Caffesse, D.D.S., M.S., Endowed Scholarship Fund at the University of Texas-Houston. In 1993 he received the International Association for Dental Research Award in Basic Research in Periodontal Disease. Dr. Caffesse was also honored in 1993 with the Service Recognition Award for "many technical and scientific contributions to the clinical practice of dentistry in the world", from the Official College of Dentists of the State of Buenos Aires, Argentina. The Raul Caffesse Distinguished Professorship in Periodontics, named in his honor, was established in 1996. This award was the first endowed distinguished professorship at the University of Texas-Houston Dental Branch. In November of 2001, The University of Buenos Aires School of Dentistry Department of Periodontics bestowed the name of Prof. Dr. Raul Guillermo Caffesse to the Post-graduate Lecture Room in recognition to his contributions to periodontics.
Plenary Session 5
Interdisciplinary management of implants in the aesthetic zone: data on strategy, systematic, outcome and complications

> Abe INGBER
Dr. Abraham Ingber received his degrees from University of Maryland and the Boston University School of Graduate Dentistry. His early involvement with the documentation and the use of Osseointegration in implant dentistry laid the groundwork for the development of the first all ceramic abutment system, CerAdapt, marketed by Nobelbiocare. He continues his research and development work in a collaborative effort with Nobelbiocare in the area of Cadd/Cam technology and virtual dentistry. Dr. Ingber lectures nationally and internationally on the multifaceted aspects of implant, prosthetic and esthetic dentistry. He is past president of the Academy of Osseointegration. He currently maintains a full time practice in Bethesda, Maryland. He is happily married for 37 years and the proud father of two sons and a daughter.

> Tidu MANKOO
Dr Tidu Mankoo qualified with a BDS from the University of Bristol in 1981 and has a renowned Private & Referral Practice in Windsor, UK, treating Implant, Restorative and Aesthetic cases, particularly complex cases. He has built a reputation for exceptional dentistry and carries out both the surgical and prosthetic aspects of his cases. He is an active member of the European Academy of Esthetic Dentistry, the International Society of Dental Ceramics, the Association of Dental Implantology (UK), the European Association of Osseointegration (EAO), Fellow of the International College of Dentists (FICD), and a fellow of the International Congress of Oral Implantologists. He is the President-elect of the European Academy of Esthetic Dentistry and a founder and Past President of the British Academy of Aesthetic Dentistry and serves on the Editorial Board of a number of dental journals. He is a respected teacher with numerous publications, a sought-after international speaker particularly in the field of Dental Implants, Aesthetic Dentistry and management of complex cases. He lectures and gives courses regularly all over the world.

> Laura FROST
Dr Laura Frost received her DDS in dentistry in Brazil 1993 and since then she has been building her expertise in Orthodontics. She has developed her knowledge across a wide range of orthodontic specialty areas from removable appliances to fixed lingual orthodontics. In 1998 she graduated in Orthodontics at UNICAMP, one of the most respected universities in Brazil. During this period she studied and researched Preventive and Interceptive Orthodontics, as well as Orthopedics of the Jaws and the Neuro-Occlusal Rehabilitation. In addition, she has extensive training in TMI dysfunction and its treatment. After training in 1998 with Dr Didier Fillion she has been involved extensively with the treatment of adult patients. She has been involved in the laboratory procedures required for Lingual Orthodontics including training lab technicians. She was a co-founder of the Brazilian Association of Lingual Orthodontics and formerly the Vice President. She is also a co-founder and treasurer of the British Lingual Orthodontics Association. In 2004 she joined the specialist team at Windsor Centre for Advanced Dentistry working on a variety of multi-disciplinary cases, mainly with lingual orthodontics.

This presentation will outline the contemporary surgical and prosthetic concepts in management of implants in the aesthetic zone with a view to achieving optimum long term aesthetics and stability. The emphasis will be on the clinical management and an understanding and application of the biological factors that influence our treatment outcomes. Management of bone, soft tissue and prosthetics contours all play a key part in the aesthetic outcome and long term stability of soft tissue aesthetics. An interdisciplinary approach is the key to optimal case management and this will be demonstrated by cases ranging from single tooth management to complex full mouth restoration.
A successful and predictable implant therapy starts with a locally and systemically related risk assessment. Based on risk assessments regarding surgical and prosthetic aspects, individual treatment strategies and an appropriate material selection are defined. Titanium implants are clinically successful and well documented. The increasing demand of metal-free therapeutic solutions advance the development of all-ceramic implants. The material performance and the clinical success of zirconia implants will be discussed. Experimental and clinical data have shown similar implant survival rates and marginal bone levels for implants placed either transmucosally or submucosally. However, in aesthetic situations additional factors, i.e. soft tissue conditions, have to be taken into consideration. The decision of using either metal or all-ceramic abutments is based on criteria including material science, clinical performance and aesthetics. It has been shown in a series of experimental and clinical studies that the use of all-ceramic abutments might be beneficial over the use of titanium abutments when the soft tissue thickness labial to the implant is equal or less than 2 mm. The cementation primarily has to provide a secure fixation of the reconstruction on the abutment. An additional function of the cement is the sealing of the marginal gap. Today, the reconstruction material defines the type of cement and the procedure of cementation.
Friedrich W. NEUKAM

1976 Dental degree and dental doctoral thesis (*Dr. med.dent.*/DDS) on "Investigation into the changes of tooth contacts in maximum intercuspitation in patients wearing partial and full dentures", Mannz

1984 Medical degree

1985 Medical thesis (*Dr. med.*/DMD) on "Anatomical studies in the fascicular structure of individual brain nerves as a basis of a differentiated microsurgical nerve suture", Hannover

1990 Habilitation (PHD) in Oral and Maxillofacial Surgery, Hannover Medical School

Award of the venia legendi for the speciality of oral and maxillofacial surgery at Hannover Medical School. Title of the thesis: "Experimental and clinical investigations as to osteoplasty in combination with endosseous implants and bone graft materials in the oral and maxillofacial region".

1° October 1995

Appointed Head of the Department of Oral and Maxillofacial Surgery at Friedrich-Alexander-University Erlangen-Nuremberg

1999 Appointed Section Editor – Implantology, Journal of Oral and Maxillofacial Surgery

February 2001

Appointed Editorial Board member to the Journal Oral Science International

October 2001

Elected Vice Dean of the Medical Faculty at Erlangen-Nuremberg University

October 2003

Appointed Editorial Board member to the Journal Oral Science International

September 2004

President Elect (EAOD)

September 2006

President (EAOD)

Professional activities focused on:

- traumatology of the skull
- inflammations
- anomalies, impaired growth
- cleft lip and palate
- craniofacial surgery
- orthopedic surgery
- tumours
- plastic surgery
- preprosthetic surgery
- implantology
- oral surgery

Memberships

Deutsche Gesellschaft für Zahn-, Mund- und Kieferheilkunde

Deutsche Gesellschaft für Mund-, Kiefer- und Gesichtschirurgie

Deutsche Gesellschaft für Implantologie im Zahn-, Mund- und Kieferbereich e. V.

American Society of Maxillofacial Surgeons

British Association of Oral and Maxillofacial Surgeons

International Association of Oral and Maxillofacial Surgeons

Academy of Osseointegration

European Association for Osseointegration

ITI - International Team for Oral Implantology

Deutsche Akademie für Kosmetische Chirurgie e. V.

Interdisziplinärer Arbeitskreis für Lippen-, Kiefer-, Gaumenspalten

American Cleft Palate - Craniofacial Association

Deutsche Gesellschaft für Schädelbasischirurgie

European Skull Base Society

Mitglied der American Society of Maxillofacial Surgeons

Pierre Fauchard Academy

Honorary Member

Hellenic Association of Osseointegrated Dental and Maxillofacial Implants-Biomaterials (H.A.O.D.M.I.B.)

Honorary Professorship

Moscow State University of Medicine and Dentistry
Congress General Information

- **Date**
  From Thursday, October 25 to Saturday, October 27, 2007.

- **Venue**
  The 16th EAO congress is be held at the CCIB Barcelona Forum in the city of Barcelona.
  CCIB forum address: Rambla Prim 1-17, 08019 Barcelona www.ccib.es

- **Official language**
  The official language of the EAO Congress is English. There will be simultaneous translation in Spanish for plenary sessions.

- **Headphones**
  Simultaneous translation in Spanish will be available for plenary sessions. In the participant envelop, you will find a voucher which will allow you to borrow conference headphones from the Rambla Hall desk next to the Auditorium.

- **Welcome desk opening hours**
  Thursday 25 8:00 - 18:00
  Friday 26 7:30 - 18:00
  Saturday 27 7:30 - 17:00

- **Exhibition Opening Hours**
  Thursday 25 12:00 - 18:00
  Friday 26 8:00 - 18:00
  Saturday 27 8:00 - 16:00
  The exhibition is strictly restricted to exhibitors and registered delegates.

- **Registration fee for delegates include:**
  - Admission to all congress sessions, poster area and technical exhibition
  - The opening ceremony
  - Congress documents (final programme, abstracts book, congress bag)
  - Lunches and coffee breaks
  TERMS OF PAYMENT: By credit card: Visa, Euro or Master cards.

- **ON SITE Registration fees**
  All the prices below include Spanish VAT (7%)
  EAO members + SEPA + SEPES + SEI + COEC + SECOM + SOCE = 510 €
  Non members = 655 €
  Medical students = 290 €

- **Certificate of attendance:**
  A certificate of attendance for preregistered participants will be issued along with the Congress documentation upon arrival.

- **Cloakroom**
  A cloakroom is located in the exhibition area. Opening hours are as follows:
  Thursday 25 10:00 - 18:00
  Friday 26 8:00 - 18:00
  Saturday 27 8:00 - 16:00

- **Refreshments**
  Congress luncheons and coffee breaks will be served to all registered delegates in the exhibition area and in the poster area.

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

- **Web Corner and WIFI**
  In the participant envelop, you will find a voucher which will allow you to retrieve the login and password at one of the web corner located in the exhibition area.

- **Useful links**
  - Venue: http://www.ccib.es
  - Tourism: http://www.barcelonaturisme.com
  - Barcelona airport: http://www.barcelona-airport.com
  - Spanish Metropolitan: http://www.tmb.net/ca_ES/home.jsp
  - Map and destination search: http://www.es.map24.com

- **Contact**
  - Congress Scientific Programme and Administrative Secretariat:
    EAO 2007 c/o Colloquium
    12 rue de la Croix-Faubin
    F-75011 Paris, France
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The EACCME has granted 15 European CME credits (ECMEC) to the meeting.
The 16th EAO congress is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists.
The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

The 16th EAO congress is designated for a maximum of 15 hours of European external CME credits.
Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

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> EAO Association

**Vision**
Bridging the gap between science and clinical practice, EAO improves the quality of patient care as the leading voice and resource centre in the field of implant dentistry in Europe.

**History**
The EAO was founded in Munich in 1991 following on the recommendations made by an international group of clinicians and research workers. It was formed as an international, interdisciplinary and independent science-based forum for all professionals interested in the art and science of osseointegration.

**Mission**
The objectives of the Association are:

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

**Membership**
93% of our members at the congress in Zürich (2006) said they would recommend EAO to a colleague.

Join EAO now and benefit from a substantially reduced registration fee to the Annual Congress!

In addition you will enjoy other membership benefits such as free subscription to the bi-monthly Blackwell-Munksgaard Clinical Oral Implants Research journal (6 issues per year and online access), a membership directory containing the names and addresses of all members, a personal EAO pin, and a wide network of colleagues and leading innovators from around the world.

For more information on membership, please contact:

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Ms Anastasia Duval
287 Avenue Louise
1050 Brussels - Belgium
Tel +32 (0) 2 643 20 49
Fax +32 (0) 2 645 26 71
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The ITI Treatment Guide Series, a compendium of evidence-based implant therapy techniques employed in daily practice, offers a comprehensive overview of various therapeutic options. Written by expert clinicians of worldwide renown and using an illustrated step-by-step approach, the ITI Treatment Guide shows practitioners how to manage different clinical situations, emphasizing sound diagnostics, evidence-based treatment concepts, and predictable treatment outcomes throughout.

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268 pp; 763 illus (mostly color); ISBN 978-3-938947-10-4; £ 61 / € 86

Glossary of Oral and Maxillofacial Implants with CD-ROM
Editor-in-Chief: William R. Lacy

This useful glossary contains definitions and descriptions of more than 2,800 implant-related terms. For each term defined, its plural form and part of speech are given, as well as literature references when appropriate. A multitude of illustrations and photographs enhance understanding visually, and a searchable CD-ROM makes the glossary more convenient and easy to use.

The purpose of the glossary is to increase consistency in the implant-related terminology used worldwide. It represents the necessary first step toward the broader goal of facilitating global exchange of knowledge in the burgeoning field of oral and maxillofacial implants. To that end, translations of the English language version of the glossary into five other languages (German, Italian, French, Spanish, Portuguese) will become available in the future.

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