FINAL PROGRAMME

Monaco 2009

September 30 - October 3, 2009
Co-Chairmen: Carlo Maiorana, Italy & Pascal Valentini, France
18th Annual Scientific Meeting

Guidelines for the practitioner

In collaboration with:
Società Italiana di Implantologia Osteointegrata
Société Française de Parodontologie et d’Implantologie Orale
Dear colleagues and friends,

A lot of job has been done to make the scientific program attractive and our gratitude goes to all the speakers and chairmen who accepted to participate to the event. Again, special attention has been paid to the needs of the practitioners, who every year attend the EAO meetings to get themselves up to date and be informed about new trends. At a first glance the program seems to comply with our purpose, but it’s not only a feeling: the topics covered by some of the most qualified speakers all over the world will make all the participants able to become more confident with surgical procedures and prosthetic treatments, more confident in treating patients affected with systemic diseases and managing complications.

The new trends session will light up on the new possibilities that are making implantology every year new and more reliable.

It is our great pleasure to welcome you and we wish you an enjoyable stay and congress in Monaco.

Carlo MAIORANA
Co-Chairman
EAO Monaco 2009 Meeting

Pascal VALENTINI
Co-Chairman
EAO Monaco 2009 Meeting

Dear colleagues,

The EAO is excited about the start of its 18th Annual Scientific Congress here in Monaco from September 30 to October 3 2009. The scientific committee has produced a fascinating program focusing on the guidelines for practitioners as derived from the best scientific and clinical evidence. The congress chairmen Dr. Carlo Maiorana and Dr. Pascal Valentini have been successful in recruiting outstanding speakers presenting the latest finding in highly interesting fields of implant dentistry. I am convinced that both clinicians and scientists will gain a great deal from this congress.

This year, more than 400 scientific abstracts have been submitted to the EAO for presentation at the congress. The best ones have been selected as oral communications and many more as poster presentations. The congress thus proves to be an important event for clinical and basic researchers to meet and exchange results and discuss new ideas. Furthermore, a research competition is held, where scientists strive for winning the prestigious EAO Research Prize.

Monaco is one of the most attractive cities in Europe located on the wonderful coast of the Mediterranean Sea. Monaco is a truly extraordinary place with a wonderful climate and a very special atmosphere. It is a fantastic place to be this fall for meeting friends and colleagues and for enjoying some of the city’s numerous attractions.

On behalf of the European Association for Osseointegration I am honored to welcome you to the 2009 EAO Annual Congress in Monaco.

Christoph HÄMMERLE
President of EAO
> Pre-Congress courses

**Pre-Congress Course 1**

**14:30 - 17:30**

**VERTICAL RIDGE AUGMENTATION**

Chairperson: Massimo SIMION, Italy

- **14:30** PC01*
  - Vertical ridge augmentation with GBR guided bone regeneration
  - Istvan-Andras URBAN, Hungary

- **15:50** PC02
  - Onlay grafts
  - Mikael PIKOS, USA

**DISCUSSION**

Massimo SIMION

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

**Pre-Congress Course 2**

**14:30 - 17:30**

**POST EXTRACTION SITES AND PERI IMPLANT DEFECTS MANAGEMENT**

Chairperson: Philippe BOUCHARD, France

- **14:30** PC03*
  - Restoring the bony envelope results in esthetic implant prostheses
  - Tidu MANKOO, United Kingdom

- **15:50** PC04
  - Esthetic fine tuning in the complex implant cases
  - Egon EUWE, Italy

**DISCUSSION**

Philippe BOUCHARD

*The figures refer to the abstracts you will find in the COIR issue of September*
14:30 - 17:30

**MAXILLARY SINUS GRAFTING: STATE OF THE ART**

Chairperson: Tiziano TESTORI, Italy

- 14:30 PC05*
  - Medical aspect. Sinus pathology. Contra-indication
    Philippe HERMAN, France
- 15:30-15:50 Coffee-break
- 15:50 PC06
  - Surgical procedures and long-term results
    Franck RENOUARD, France
- 16:50-17:30 DISCUSSION
  Tiziano TESTORI

* The figures refer to the abstracts you will find in the CODIR issue of September

**FULL ARCH REHABILITATION: FIXED BRIDGES vs OVERDENTURES**

Chairperson: German GALLUCCI, USA

- 14:30 PC07*
  - Overdentures
    Jacques BERNIER, Canada
- 15:30-15:50 Coffee-break
- 15:50 PC08
  - Fixed bridge and Toronto
    Karl-Ludwig ACKERMANN, Germany
- 16:50-17:30 DISCUSSION
  German GALLUCCI

* The figures refer to the abstracts you will find in the CODIR issue of September
THURSDAY AFTERNOON

14:15 - 14:30

OPENING CEREMONY

Chaired by: Christoph HÄMMERLE, Switzerland

> Plenary Session 1

14:30 - 17:00

10 YEARS OF EXPERIENCE IN

Chairpersons: Paul STONE, United Kingdom
Jaime A. GIL, Spain

14:30 PL09* ■ 10 years of experience in sinus elevation
Friedrich NEUKAM, Germany

14:55 PL10 ■ 10 years of experience with immediate loading
Tiziano TESTORI, Italy

15:20-15:50

Coffee-break

15:50 PL11 ■ Onlay grafts: 10 years of experience with intraoral bone grafts
Fouad KHOURY, Germany

16:15 PL12 ■ Missing Maxillary Lateral Incisors: Rationale and Guidelines for optimal Orthodontic Space Closure
Marco ROSA, Italy

16:40-17:00

DISCUSSION
Paul STONE and Jaime A. GIL

Speakers cv p. 40 - 41

* The figures refer to the abstracts you will find in the COIR issue of September
Thursday, October 1, 2009

> Clinical Advances

14:30 - 17:00

IMMEDIATE IMPLANT-PLACEMENT IN FRESH EXTRACTION SOCKETS: STATE OF ART

Chairperson: Søren SCHOU, Denmark
Istvan-Andras URBAN, Hungary

14:30 CL26* ■ Diagnosis and prognosis in postextraction implants
Joseph KAN, USA

14:55 CL27 ■ Management of extraction sockets in the aesthetic area: current approach and future perspectives
Eric ROMPEN, Belgium

15:20-15:50 Coffee-break

15:50 CL28 ■ Immediate implant in multiple sockets in edentulous jaws
Georg MAILATH-POKORNY, Austria

16:15 CL29 ■ Immediate temporization in postextraction implants
Michael NORTON, United Kingdom

16:40-17:00 DISCUSSION
Søren SCHOU and Istvan-Andras URBAN

* The figures refer to the abstracts you will find in the COIR issue of September
## Plenary Session 2

**09:00 - 12:15**

**MANAGEMENT OF COMPLICATIONS**

Chairpersons: Friedrich W. NEUKAM, Germany
Georg WATZEK, Austria

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<tr>
<td>09:00</td>
<td>PL13*</td>
<td>Management of complications in sinus elevation</td>
<td>Zvi ARTZI, Israel</td>
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<td>09:30</td>
<td>PL14</td>
<td>Management of complications in the major maxillary reconstructions by extraoral donor sites</td>
<td>Lars RASMUSSON, Sweden</td>
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<td>10:00-10:45</td>
<td>Coffee-break</td>
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<td>10:45</td>
<td>PL15</td>
<td>Clinical considerations and management of peri-implantitis</td>
<td>Søren SCHOU, Denmark</td>
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<td>11:15</td>
<td>PL16</td>
<td>Prosthetic complications: biomechanical considerations</td>
<td>Franck RENOUARD, France</td>
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<td>11:45-12:15</td>
<td>DISCUSSION</td>
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<td>Friedrich W. NEUKAM and Georg WATZEK</td>
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### Discussion

Friedrich W. NEUKAM and Georg WATZEK

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**12:30 - 13:30**

**EAO GENERAL ASSEMBLY**
Master Classes

09:00 - 12:15

IMPLANTOLOGY AND MEDECINE
Chairperson: Fouad KHOURY, Germany
Georg MAILATH-POKORYN, Austria

09:00 MC30*
Medical guidelines and precautions in the surgical approach to immunodeficient patients
Massimo GALLI, Italy

09:25 MC31
Immunologic deficiencies: implantology in immunodeficient patients: routine or exception?
Frank STRIETZEL, Germany

09:50 MC32
Pain management for chronic post-operative pain
Alain SERRIE, France

10:15 MC33
Pain management: reduction of perioperative discomfort in implantology
Carlos MADRID, Switzerland

10:40-11:10 Coffee-break

11:10 MC34
Diabetic patients: medical guidelines and precautions in the surgical approach to the different kinds of diabetes
Stefano GENOVESE, Italy

11:35 MC35
Diabetic patients: implants in diabetic patients: clinical experience and results
Sotirios KOTSOVILLIS, Greece

12:00-12:20 DISCUSSION
Fouad KHOURY and Georg MAILATH-POKORYN

Speakers cv p. 46 - 47

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

12:30 - 13:30

EAO GENERAL ASSEMBLY
Short Oral Communications 1

09:00 - 12:15

Chairpersons: German GALUCCI, USA
Joan Pi URGELL, Spain

09:00 019*
Life quality after iliac crest bone graft harvesting over an anterior vs. posterior approach
BECKER S.T**, WARNKE P.H, BEHRENS E, WILTFANG J. (KIEL - GERMANY)

09:15 020
Crestal bone remodeling around implants placed in fresh extraction sockets
BARONE A**, CALVOS J.L., QUARANTA A, COVANI U. (CAMAMORE - ITALY)

09:30 021
Peri-implant endosseous healing properties of dual acid-etched mini-implants with a nanometer-size deposition of cap: a histological and histomorphometric human study

09:45 022
Comparative clinical analyses of immediate and early loaded sla and slactive straumann® te™ implants

10:00 023
Seven-year results of implants with an oxidized surface placed predominantly in soft bone and subjected to immediate occlusal loading
GLAUSER R**, MEIER M. (ZURICH - SWITZERLAND)

10:15 024
Immediate function with scalloped implants in the esthetic zone biologic rationale and clinical results
NOELKEN R **, WAGNER W, KUNKEL M. (MAINZ - GERMANY)

10:30-11:00
Coffee break

11:00 025
Agreement of 2d histomorphometry with 3d µct measurement?
STÄDLINGER R**, MAI R., ECKELT U., GOEBELS J., KUHLISCH E., SCHARNWEBER D., BERNHARDT R. (DRESDEN – GERMANY)

11:15 026
Interaction of different bone graft materials with bone marrow stromal cells, in vivo and in vitro studies
FOSCHI F**, CONSERVA E, MASTROIACCOMO M, PERA P, CANCEIZZA R. (GENOVA - ITALY)

11:30 027
Early results of 409 consecutively placed novel tapered, variable thread design implants
NAVARRO JR. J. M**, NAVARRO J. M. (LAS PALMAS, SPAIN)

11:45 028
Osseointegrated implant rehabilitation in previously irradiated jaws without the use of adjunctive hyperbaric oxygen treatment
MARKER P**, ECKERDAL A, THYGESEN T. (ODENSE C, DENMARK)

12:00 029
Osseointegration of zirconia dental implants. A biomechanical and histomorphometrical study in mini pig
GAHLERT M**, RODHLING S, SPRECHER C, EICHHORN S, STEINHAUSER E, WIELAND M, KNAUH M, MILZ S. (MUNICH - GERMANY)

* The figures refer to the abstracts you will find in the COIR issue of September. ** Presenters
Plenary Session 3

14:00 - 16:45

METHODS AND TIMING FOR SOFT TISSUE MANAGEMENT AND PROVISIONAL RESTORATIONS

Chairpersons: Marc QUIRYNEN, Belgium
Bruno FISSORE, Monte-Carlo

14:00 PL17*  ■ Timing for soft tissue management and surgical options
Jean-Pierre GARDELLA, France

14:25 PL18  ■ Requirements in soft tissue conditions for the treatment of peri-implant diseases
Jean-Louis GIOVANNOLI, France

14:50-15:35 Coffee-break

15:35 PL19  ■ Timing for provisional restorations: guidelines and tricks
Rino BURKHARDT, Switzerland

16:00 PL20  ■ Timing for provisional restorations: guidelines and tricks
German GALUCCI, USA

16:25-16:45 DISCUSSION
Marc QUIRYNEN and Bruno FISSORE

* The figures refer to the abstracts you will find in the COIR issue of September.
13:45 - 16:55

Chairpersons: Hendrik TERHEYDEN, Germany
Philippe KHAYAT, France

13:45 011* Implants in periodontally compromised partially edentulous patients: long-term (10 year) results of a three arms blinded prospective study
ROCCUZZO M**, AGLIETTA M, BLASI A., BONINO P. (TORINO – ITALY)

14:05 012 Histological analyses of biopsies harvested 11 years after maxillary sinus floor augmentation with an 80:20 mixture of deproteinized bovine and autogenous bone
MORDENFELD A.**, HALLMAN M., JOHANSSON C., ALBREKTSSON T. (GALE - SWEDEN)

14:25 013 Vertical ridge augmentation of the atrophic posterior mandible with inlay grafts: bone from the iliac crest versus bovine anorganic bone. Results up to 1 year after loading from a randomized controlled clinical trial

14:45 014 Computer-guided implant placement: 3d planning software, fixed intraoral reference points and cad/cam technology. A clinical trial and an in vitro study
TAHMASEB A.**, WISMEIJER D. (AMSTERDAM - THE NETHERLANDS)

15:05-15:35 Coffee-break

15:35 015 Gel-pressure technique (GPT) for flapless transcrestal maxillary sinus floor elevation
WATZEK G (VIENNA - AUSTRIA)

15:55 016 The implant-supported maxillary overdenture; a prospective study on 4 versus 6 implants
SLOT W.**, MEIJER H., RAGHOEBAR G. (GRONINGEN - THE NETHERLANDS)

16:15 017 Immediate versus conventional single implant loading in the aesthetic zone; and 18 months randomized controlled trial
DEN HARTOG L.**, MEIJER H., STELLINGSMA K., RAGHOEBAR G. (GRONINGEN - THE NETHERLANDS)

16:55 018 The effect of surface topography of screw-shaped titanium implants in humans on clinical and radiographic parameters. A 12 year prospective study

Speakers cv p. 52 - 53

* The figures refer to the abstracts you will find in the CDR issue of September  ** Presenters
Short Oral Communications 2

14:00 - 17:00

Chairpersons: Tiziano TESTORI, Italy
Gérard ZUCK, France

14:00 030*
Implant surface characteristics influence the outcome of treatment of peri-implantitis. An experimental study in dogs
ALBOUY J. P. **, ABRAHAMSSON I., BERGLUNDH T. (GOTHENBURG - SWEDEN)

14:15 031
Matrix-metalloproteinases and bone loss at implants restored according to the platform switching concept: a randomized controlled trial on the influence of different mismatching
CANULLO L. **, IANNELLO G., JEPSEN S. (BONN - GERMANY)

14:30 032
Free microvascular transfer of segmental cortico-cancellous femur – a new technique for alveolar ridge reconstruction
GAGGL A. **, BUERGER H., VIRNIK S., CHIARI F. (KLAGENFURT - AUSTRIA)

14:45 033
Early loading of non-submerged titanium implants with a chemically modified sandblasted and acid-etched surface: 2-year results of a prospective 2-center study regarding clinical and radiographic data
BORNSTEIN M. **, MARTIN D., HART C., WITTNEBEN J. G., RUSKEN J., BUSER D. (BERN - SWITZERLAND)

15:00 034
Stability of crestal bone level at platform switched non-submerged titanium implants. A histomorphometrical study in dogs
FERRARI D. **, SCHWARZ F., MIHATOVIC I., BECKER J. (DUSSELDORF - GERMANY)

15:15 035
Influence of anatomic variability in sinus grafting outcomes

15:30-16:00
Coffee-break

16:00 036
Gingivomorphometry – esthetic evaluation of the periimplant mucogingival complex. A new method for collection and measurement of standardized and reproducible data in oral photography
WEINÄNDER M. **, LEKOVIC V., KREINMAIR G., SPAHNER S. (VIENNA - AUSTRIA)

16:15 037
Sinus lift procedure in presence of mucosal cyst: a clinical prospective study
BERETTA M. **, CIACCI M., LAZZARI S., MAIORANA C. (MILAN - ITALY)

16:30 038
Treatment outcome and patients’ satisfaction of two adjacent implant-supported restorations in the aesthetic zone. Preliminary results

16:45 039
Vertical bone augmentation versus 7 mm long implants in posterior atrophic mandibles. Results up to 1 year after loading
FELICE P. **, CECCHI L., MANCETTI C., PELLEGRINO G., LIZIO G., ESPOSITO M. (BOLOGNA - ITALY)

* The figures refer to the abstracts you will find in the program of September  ** Presenters
Plenary Session 4

09:00 - 12:15

**CLINICAL APPLICATIONS OF NEW TECHNOLOGIES**

Chairpersons: Massimo SIMION, Italy
Franck RENOUARD, France

- **09:00 PL22**
  - *Growth Factors: The clinical utilization of rhPDGF to treat periodontal and bony defects*
  - Myron NEVINS, USA

- **09:30 PL21**
  - *Carriers and growth factors in implant dentistry: wehre do we stand today?*
  - Christoph HÄMMERLE, Switzerland

- **10:00-10:45**
  - Coffee-break

- **10:45 PL23**
  - *Tissue Engineering and Implant*
  - Minoru UEDA, Japan

- **11:15 PL24**
  - *Active molecules and stem cells. Stem cells: state of the art*
  - Hendrik TERHEYDEN, Germany

11:45-12:15

**DISCUSSION**

Massimo SIMION and Franck RENOUARD

13:45 - 14:00

**RESEARCH AWARD CEREMONY**

Chairperson: Christoph HÄMMERLE, Switzerland
Saturday Morning

> Basic Research Competition

Chairpersons: Marc QUIRYNEN, Belgium
David HARRIS, Ireland

08:30 - 12:20

08:30 001 Tomographic and immunohistochemical study on onlay grafts remodeling. Ilac crest versus calvarial bone
FABIA F. E. P., PEDROSAS JR W. F., OKAMOTO R., XAVIER S. P., SALATA L. A.**
(REBIREAO PRÉTO - BRAZIL)

08:50 002 Histological study on the implant interface following flapless implantation

09:10 003 Effect of magnetic fields produced by neodymium magnet on osteoblast activity
LEESUNGROK R.**, CHO Y. W., LEE H. S., AHN S., LEE S. W. (SEOUL - REPUBLIC OF KOREA)

09:30 004 Past-like inorganic bone matrix - preclinical testing of a prototype preparation in the porcine calvaria
BUSENLECHNER D.**, FITZL C., TANG H. S., BERNHART T., GRUBER R., WATZEK G.
(VIENNA - AUSTRIA)

09:50 005 A novel technique for quantification of cells on material substrates
MEREILLES L. **, ALMQVIST S., JOHANSSON A., THOMSEN P. (GOTHENBURG - SWEDEN)

10:10 006 Evidence of revascularization and cell colonization of anorganic bovine bone
GALINDO-MORENO P. **, PAJALI-MOLINA M., AYALA G., FERNANDEZ-JIMENEZ A.,
WANG H-L., O’VALLE F. (GRANADA - SPAIN)

10:30 - 11:00 Coffee-break

11:00 007 Effect of diabetes on wnt protein signalling during the guided bone regeneration healing process
REETZ M.**, DONOS J. (LONDON - UNITED KINGDOM)

11:20 008 Soft tissue augmentation by the use of collagen-based matrices. An experimental comparative study in the dog mandible
THOMA D. S.**, JUNG R. E., SCHNEIDER D., ENDT E., GÖRLICH C., ÜBERSAX L.,
COCHRAN D. L., HAMMERLE C. H. (ZURICH - SWITZERLAND)

11:40 009 Bone regeneration using a synthetic matrix containing enamel matrix derivate
SCHNEIDER D.**, WIEBER E., HAMMERLE C., JUNG R. (ZURICH - SWITZERLAND)

12:00 010 Healing of bundle bone and immediate implant installation following tooth extractions
CARDAMONI G.**, MONTICELLI F., OSORIO R., TOLEDANO M., PISANI PROECA J.,
THOMAS P., FROGMAN S. (NEW YORK - USA)

13:45 - 14:00 RESEARCH AWARD CEREMONY

Chairperson: Christoph HÄMMERLE, Switzerland

** Presenters
* The figures refer to the abstracts you will find in the CDR issue of September

Speakers see p. 58 - 59
Plenary Session 5

14:00 - 17:00

PANEL DISCUSSION: PERIODONTOLOGY AND IMPLANTOLOGY: WHERE IS THE BORDER?
Chairperson: Mariano SANZ, Spain

14:00-17:00
PL25*  

Periodontology and implantology: where is the border?
Giano RICCI, Italy  
Anton SCULEAN, The Netherlands  
Philippe KHAYAT, France  
Stefan RENVERT, Sweden  
Joan PI URGELL, Spain

15:15-15:45  
Coffee-break

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

17:00 - 17:05

CLOSING CEREMONY
Current challenges in treating Extraction Sockets and Peri-implantitis

• New scientific insights for the treatment of Extraction Sockets

Prof. Dr. Jan Lindhe, Sweden

Following tooth extraction, the alveolar ridge of the edentulous site of the abutment process will undergo both quantitative and qualitative changes. Different approaches have been advocated to preserve the volume and contour of the ridge following tooth extraction, including implants, bone graft, and barrier membranes.

In this presentation, the healing pattern of these edentulous sites after performing socket preservation with Geistlich Bio-Oss will be described in detail. Additionally, the advancement contribution of the xenogeneic inorganic bone matrix to the volume maintenance and contour preservation will be discussed.

New exciting scientific insights will be discussed.

• Treatment of Peri-implant Infections – Considerations for the Aesthetic Zone

PD Dr. Frank Schwarz, Germany

Peri-implantitis is defined as peri-implant mucositis and is characterized by chronic inflammation affecting the tissue around an osseointegrated implant in function, resulting in a loss of the supporting alveolar bone. Surgical-surgical treatment failure led to the recommendation of regenerative techniques, including barrier membranes and bone grafting. However, it may be required in order to minimize the risk for a compromise of the peri-implant position. This might be achieved either with resective surgery or with bone augmentation procedures.

The present lecture will provide an evidence-based model on the currently available procedures for the treatment of peri-implantitis lesions. Particular emphasis will be given on the clinical application of surgical regenerative procedures in the aesthetic zone.

Advanced solutions – reliable, precise, aesthetic

• How to increase patient acceptance of implants

David Schwab, USA

There are no rigid criteria without patient acceptance. It is imperative, therefore, that patients be educated in a manner that allows them to make an informed decision and accept implant treatment and allow clinicians to help them improve their lives with dental implants.

• Esthetic and flexible – predictable results with Bone Level Implants of the Straumann Dental Implant System

Luca Corti, Italy

The Straumann Bone Level Implants offer esthetic and predictable results with implant treatment outcomes. Following tooth extraction, including the use of barrier membranes, bone graft materials, and barrier membranes, the edentulous site of the alveolar process will undergo both quantitative and qualitative changes. Different approaches have been advocated to preserve the volume and contour of the ridge following tooth extraction, including implants, bone graft, and barrier membranes.

In this presentation, the healing pattern of these edentulous sites after performing socket preservation with Geistlich Bio-Oss will be described in detail. Additionally, the advancement contribution of the xenogeneic inorganic bone matrix to the volume maintenance and contour preservation will be discussed.

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New treatment concepts, planning tools and prosthetic options for your implant success

- Guided Surgery and CAD/CAM – a new dimension of predictability and perfect fit. The time for digital dentistry definitely has already arrived. The presentation of the first study results at the EAO in Warsaw, further results will be presented in Monaco.
- Indexed vs. non-indexed implant prosthetics – two options, one tissue care concept. 22 years of evidence have proven the success of the tissue care connection. ANKYLOS® brings the freedom of choice for indexed and non-indexed abutments into the reliable concept. This lecture will focus on the new options that come with the index and point out the case-related advantages of both.
- Successful timing as the 4th dimension in implant treatment – final prosthetics at date of surgery? There is no doubt that the treatment plan with regard to number, position, length and width of the implants is decisive for the functional and aesthetic success of every implant restoration. However, the time of implant placement and loading is still discussed controversially. Clinical and technical advances offer new opportunities to accelerate the treatment making it simultaneously less traumatic. The lecture will highlight different scenarios where the timing of the implant placement and the incorporation of the superstructure play an essential role for the overall treatment outcome and give answers to pros and cons about the optimal timing under different conditions.

Connecting Science
The Innovation is in the Conditioning – Evolution in surface technology.

A new implant surface which provides exceptional wettability and 20% more bone-to-implant contact, for more stability and enhanced osseointegration. After the presentation of the first study results at the EAO in Warsaw, further results will be presented in Monaco.

* As animal studies show.

Moderator:
Dr. Jean-Louis Giovannoli, Private Practitioner, Paris, France

Speakers and topics:
- Scientific Surface Concepts
  PD Dr. Lorenz Meinel, ETH Zurich and Novartis AG, Switzerland
- Evaluation of surface-conditioned dental implants – An animal study
  Dr. Dr. Bernd Stadlinger, University of Dresden, Germany
- Implant therapy: new solutions for challenging clinical cases
  Dr. Mauro Merli, Private Practitioner Rimini, Italy
- Full maxillary implant-supported bridges and immediate loading: Why Thommen Medical?
  Dr. Jean-Nicolas Hasson, Private Practitioner Mulhouse, France

Osstell – the objective way to measure implant stability

The quest for objective measurements of implant stability has led to the development of Resonance Frequency Analysis and ISQ – a technique that is now more significant than ever. It is time to delve further into the clinical aspects of using ISQ, and how it can help you improve your implant treatment.

Moderator:
Prof. Lars Sennerby

- Determining successful loading protocols through the use of Osstell and successive ISQ measurements.
- Prof. Peter May
- Taking advantage of ISQ for early loaded implants.
- Dr. Michael Bornstein
- Primary stability determination: perception vs. objective measurements.
  Dr. Marco Degidi

Breakfast will be served from 7.30 am

The number of seats is limited so please make sure you are on time!
Satellite Industry Symposia

A Good Evening with Astra Tech
The prerequisites for implant treatment success

With new innovations, modern technology and well-proven products, implant therapy is getting closer and closer to re-creating what nature once created, but now and then old truths must be challenged along the way. That is why it is absolutely necessary to study, document, evaluate and follow-up the biological, biochemical and biomechanical processes involved. Knowledge and continuous learning is a prerequisite for development, efficacy, patient safety and clinical treatment success. However, one thing remains the same, it is always the human body that sets the rules.

Moderator
Prof. Jan LINDHE, Sweden

Management of soft and hard tissues in the aesthetic zone
Dr. Georges KHOURY, France

Atlantis™ – functional esthetics through patient-specific solutions
Dr. Fernando ROJAS-VIZCAYA, Spain

Prevention of biological complications in implant therapy
Prof. Tord BERGLUNDH, Sweden

Success and failure of oral implants with particular reference to marginal bone loss
Prof. Tomás ALBREKTSSON, Sweden

Closing discussion
Prof. Tomás ALBREKTSSON and Prof. Jan LINDHE

SIMPLE

3D planning is surprisingly easy when you start using SimPlant. The SimPlant 13 software is designed to guide you through the whole treatment planning, step by step, simple and easy.

Mithridade Davarpanah, MD, DDS

COMPATIBLE

The SimPlant Compatibility is all about choice, your choice. You choose which implants you place, which surgeon you use, what type of surgery is required. Whether you want to raise a flap, use the existing teeth as support or perform transmucosal surgery, the SimPlant system will provide you with user-friendly solutions. There are custom-made SurgiGuide drill guides for all case scenarios. Even an Immediate Smile is within reach through this technology.

Alvaro Farnós Visedo, DDS

UNIQUE

This technology has been around for almost two decades. All these years, a lot of time was invested to develop the most powerful and refined tools to meet your most demanding needs. The technology is still in full development and continues to lead this exciting industry.

Scott D. Ganz, DMD

On Air:
When Science Is at the Service of the Clinic

Join five experienced clinicians, researchers, presenters
Dr Bernd Frieling
Dr Patrick Palacci
Mr Jean Marc Etienne
Dr Giovanni Polidori

In an open discussion with our moderators
Dr Francis Benoist
and Dr David Rasmussen, assisted by Dr Isabelle Rochette

They debate over questions like:

• How can NobelGuide™ help practitioners in their daily work?
• What are the latest developments in the NobelGuide™ system?
• What are the advantages of using narrow platform implants in posterior maxilla?
• What are the limits in using narrow platform implants?
• Could short implants be considered a reliable solution in routine practice?
• What is the clinical definition of implant stability?
• Could challenging clinical situations be treated with NobelGuide™ implants, and what are the limitations for the use of NobelActive™?
• Why does NobelActive™ have advantages in the esthetic zone?
• What benefits does NobelActive™ offer over other bone-level implants?
• In which clinical situations is implant stability necessary for immediate function?
• Can NobelGuide™ be combined with surgical access through mini-flaps?
• How can guided surgery be performed immediately after extraction?

And so many other questions...

Language: The discussion will take place in English and will be translated into French
Contact: Patricia Fernandes +33 1 49 20 08 48

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Posters Area  Level 1 Hall Diaghilev
Posters

Posters authors will be presenting their work on Friday, 02 from 12:30 to 13:30 and on Saturday, 03 from 13:00 to 14:00.

Each poster refers to a specific topic. Each topic has been assigned with a different color. Please refer to page 18 to find the location of the posters you would like to read.

- **Implant aesthetics** : red
- **Implant and guided surgery** : blue
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- **Tissue augmentation and Tissue engineering** : purple
- **Long-term studies** : orange
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042 Immediate implant placement and restoration in the aesthetic zone: a prospective study with 18-month follow-up

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043 Clinical evaluation of immediate single tooth implants and same day provisional crowns “V” a new approach

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044 The immediate temporization of maxillary single tooth implants

Economou T. **, Pomerio M., Pomerio S., Capasso S. (NAPOLI - ITALY)

045 Teeth - and tissue-supported restorations utilized for the interim rehabilitation in full arch implant reconstructions

Sava E. **, Chronopoulou V., Kountoura L., Chronopoulou A. (ATHENS - GREECE)

046 Combining fixed dental prosthesis and removable partial denture prosthesis in reconstructing the complete edentulous arch


047 Clinical and radiological evaluation of single-tooth implants after bone augmentation procedures in the aesthetic zone


048 Combining esthetics and retrievability in restoring biomet 3i implants

Georgis A. **, Psillakis E., Spilioudi I. (ATHENS - GREECE)

049 A new way to achieve stable, easy-to-repair aesthetic implant – supported crown


050 Cadicam investigation of implant superstructures made of zirconia all-ceramic

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051 Evaluation of soft tissue stability with immediate post-extractive implants in the aesthetic area: a 12-months clinical follow-up

Oyemus P. **, Bengtson M., Betts, Nadvarkan P. (MILAN - ITALY)

052 Implant-supported maxillary overdentures retained with conical double crown attachments: a case report


053 Evaluation of soft tissue characteristics around implant and natural tooth

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055 Anterior tooth replacement with implants in alveolar cleft sites: a clinical evaluation of aesthetics

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In the past decade vertical augmentation utilizing onlay bone grafting, and vertical guided bone regeneration (GBR) became a major treatment option in the development of optimal bone support for dental implants. Long-term clinical success and survival of the implants placed in vertically augmented bone with the GBR technique appear similar and survival of the implants placed in native bone exceeds 95%. This is primarily due to the difficulty of the surgical challenges of bone regeneration in implant dentistry. Vertical augmentation presents one of the greatest opportunities of guided bone regeneration (GBR).

**Digital Guided Bone Augmentation**

- **Massimo SIMION**
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  - 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) 1996 - 2005.
  - President of EAO from the year 2001-2003 and Immediate Past-President for years 2003/2005.
  - 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 (SIP) for the years 2003-2005.
  - He published several scientific papers and is internationally lecturer about the topic Periodontology, Osseointegration and Bone Regeneration.

- **Istvan Andras URBAN**
  - Dr. Urban received his DDS degree and subsequently his MD degree from Semmelweis University School of Medicine and Dentistry.
  - Subsequently his MD degree from Semmelweis University.
  - Dr. Urban received his MD degree from Semmelweis University.
  - Dr. Urban completed a residency program in oral surgery at the Women’s Hospital in Budapest, Hungary and subsequently an internship program at UCLA School of Dentistry in the section of Periodontics.
  - In 2006 he graduated from the Fellowship Program in implant dentistry at Loma Linda University in Loma Linda, California. The following year Dr. Urban teaches implant dentistry in the graduate program at Loma Linda and he holds an active license in the state of California. He maintains a private practice in Budapest, Hungary.
  - Currently he is conducting several clinical and histological studies in the field of bone regeneration.
  - Dr. Urban is an invited speaker internationally in the field of implant dentistry.

**Pre-Congress Course 1**

**VERTICAL RIDGE AUGMENTATION**

**Chairperson**

- **Istvan Andras URBAN**
  - Istvan Urban, DMD, MD
  - Budapest, Hungary

**Speaker**

- **Massimo SIMION**

**Pre-Congress Course 1**

**VERTICAL RIDGE AUGMENTATION**

**Chairperson**

- **Istvan Andras URBAN**
  - Istvan Urban, DMD, MD
  - Budapest, Hungary

**Speaker**

- **Massimo SIMION**

**Degree and education**

- Dr. Urban received his DMD degree and subsequently his MD degree from Semmelweis University School of Medicine and Dentistry.
- Subsequently his MD degree from Semmelweis University.
- Dr. Urban received his DMD degree from Semmelweis University.

**Clinical experience**

- Dr. Urban completed a residency program in oral surgery at the Women’s Hospital in Budapest, Hungary and subsequently an internship program at UCLA School of Dentistry in the section of Periodontics.
- In 2006 he graduated from the Fellowship Program in implant dentistry at Loma Linda University in Loma Linda, California. The following year Dr. Urban teaches implant dentistry in the graduate program at Loma Linda and he holds an active license in the state of California. He maintains a private practice in Budapest, Hungary.
- Currently, he is conducting several clinical and histological studies in the field of bone regeneration.
- Dr. Urban is an invited speaker internationally in the field of implant dentistry.

**Presentation title:** Vertical Augmentation with Guided Bone Regeneration (GBR)

**Objective:** To review patient selection criteria, describe the technique for vertical augmentation with GBR, outline for the treatment groups who have single missing tooth, multiple missing teeth, or have vertical defects in the posterior maxilla only and were treated with onlay bone grafting, and related soft tissue procedures to avoid functional and esthetic problems.

**Presentation content:***

- **Vertical Augmentation with Guided Bone Regeneration (GBR):**
  - Vertical augmentation presents one of the greatest opportunities of guided bone regeneration (GBR).
  - Digital Guided Bone Augmentation: A Three-Dimensional Synergy of Interactive CT Planning/Soft and Hard Tissue Grafting for Optimal Esthetic Zone Rehabilitation.

**Digital Guided Bone Augmentation**

- **Michael PIKOS**
  - Dr. Michael A. Pikos is originally from Campbell, Ohio. He attended The Ohio State University where he graduated Summa Cum Laude and Phi Beta Kappa. He also graduated with honors from the Ohio State University College of Dentistry. Dr. Pikos completed residency training in Oral & Maxillofacial Surgery in the Department of Oral & Maxillofacial Surgery at UCLA School of Dentistry in Los Angeles. He is a Diplomate of the American Board of Oral and Maxillofacial Surgery, Diplomate of The International Congress of Oral Implantologists, Dr. Pikos is the recipient of the 2006 Aaron Gembicki Memorial Award from the American Academy of Implant Dentistry.
  - Dr. Pikos completed residency training in Oral & Maxillofacial Surgery in the Department of Oral & Maxillofacial Surgery at UCLA School of Dentistry in Los Angeles. He is a Diplomate of the American Board of Oral and Maxillofacial Surgery, Diplomate of The International Congress of Oral Implantologists, Dr. Pikos is the recipient of the 2006 Aaron Gembicki Memorial Award from the American Academy of Implant Dentistry.
  - Dr. Pikos is the recipient of the 2006 Aaron Gembicki Memorial Award from the American Academy of Implant Dentistry. He is a Diplomate of the American Board of Oral and Maxillofacial Surgery, Diplomate of The International Congress of Oral Implantologists, Dr. Pikos is the recipient of the 2006 Aaron Gembicki Memorial Award from the American Academy of Implant Dentistry.

**Digital Guided Bone Augmentation**

- **His presentation will introduce Digitally Guided Bone Augmentation (DGBASTM), a state-of-the-art approach for the objective diagnosis, planning, and surgical implementation of ridon-specific three-dimensional soft and hard tissue augmentations for optimal esthetic zone reconstruction.**

- **The DGSA concept of reverse-engineering soft and hard tissue augmentation for optimal implant placement and restoration in the 21st century reexamination of restorative dental implantology using cone-beam CT and Interactive CT software.**

- **His presentation will be of interest to Maxillofacial Surgeons, the American Academy of Periodontics, the Academy of Osseointegration, the American Academy of Periodontics, Maxillofacial Surgeons, the American Academy of Periodontics, the Academy of Osseointegration, the American Academy of Periodontics, and the American Academy of Periodontics, the Academy of Osseointegration.**

**Clinical experience**

- Dr. Pikos maintains a private practice which is limited exclusively to implant surgery in Palm Harbor, Florida.
Pre-Congress Course 2
POST EXTRACTION SITES AND PERI IMPLANT DEFECTS MANAGEMENT

CHAIRPERSON

> Philippe BOUCHARD
Dr. Philippe Bouchard is Full Professor and Chairman of the Department of Periodontology, U.I.R. d’Odontologie, Denk Medizin à Paris. He has been involved in research, teaching, and clinical practice in periodontology for more than 25 years. He is active member of the European Academy of Esthetic Dentistry, the International Society of Dental Ceramics, the Association of Dental Implantology (ADI), the European Association of Osseointegration (EAO), the International Society of Dental Implantology (ISDID). He is also a fellow of the International Congress of Oral Implantologists. He is the current President of the European Academy of Esthetic Dentistry and a founder and Past President of the European Academy of Esthetic Dentistry – ESTET. He is also a member of the Editorial Board of several dental journals. He is also member of the Editorial Board of several dental journals. He has lectured at numerous national and international conferences and courses regularly all over the world.

SPEAKER

> Tidu MANKOO
Dr. Tidu Mankoo qualified with a BDS from the University of Bristol in 1981 and has a renowned Practice & 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 (ADI), the European Association of Osseointegration (EAO), the International Society of Dental Implantology (ISDID). He is also a fellow of the International Congress of Oral Implantologists.

SPEAKER

> Egon EUWE
Dr. Egon Euwe obtained his degree in 1982 at the University of Utrecht (Holland). Since 1986 his main interests in the dental field have been periodontal and oral implantology. He followed postgraduate courses under Dr. Sascha Jovanovic at UCLA. He became a member of the USA European Study Club, and in January of 1992, his group presented his an award for the "Best Clinical/Scientific Presentation." He and his prosthodontist and lab technician won first and second prize in two categories in the International Competition of the "Best Clinical Cases." He is a frequent international lecturer and co-author of several scientific publications.

The Keys to the Management of Implants in the Aesthetic Zone: management of post-extraction sites and peri-implant defects
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, an understanding and application of the biological factors and technology that influence our treatment outcomes. Management of bone, soft tissue and components 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 single tooth management to complex multiple tooth restoration.

Diagnostics, Treatment Strategy, the Surgical as well as the Prosthetic part will be treated. In clinical cases will be shown when to Preserve, Reconstruct or Replace the existing architecture of both bone and soft tissue. Clear guidelines for the choice of metal free prosthetic components like the Crown-Abutment combination, Zirconium screw retained bridges, and developing the correct emergence profiles and pontic sites will be given.

Also the importance of communication with the lab technician, and the properties of Aluminum and Zirconia with the covering ceramics will be treated. The lecturer will cover single tooth replacement, partial edentulous patients, as well as fixed full arch reconstructions. Developing a keen eye for details combined with Team work is the key to success.
Pre-Congress Course 3
MAXILLARY SINUS GRAFTING: STATE OF THE ART

Tiziano TESTORI

Chairperson:

Doctor in Medicine and Surgery (MD) from the University of Milan in 1981. Degree in Odontostomatology and in Orthognatodontics (DDS).

Fellowship in advanced Implant Dentistry at the Division of Oral Maxillo-Facial Surgery, School of Medicine, University of Miami, Miami FL, USA, Robert E. More, DDS.

Head of the Implantology and Oral Rehabilitation Department at the Odontostomatology Clinic (Chairman: Prof. R. L. Weinstein), US-C.S. Galil Orthodontic Institute, University of Miami.

Visiting Professor New York University, College of Dentistry, New York, NY, USA.

Fellow of the "International College of Dentists" (ICD).

Past-President of the Italian Society of Oral Surgery and Implantology (ICO).

Active member of the European Board of Oral Surgery (EBOS).

Member of the editorial board of the International Journal of Oral and Maxillofacial Implants (IJOMI).

Author of more 200 scientific articles in Italian and international journals.


What should reasonably be investigated before maxillary sinus grafting. The point of view of the clinician.

Implant rehabilitation has become a cornerstone of modern dentistry, thanks to sinus lift which allows to overcome the bone resorption process. However, this procedure may lead to serious complications which the patient will not accept easily in the case of "functional surgery".

After a short review of sinus anatomy and physiology, the aim of this topic, based on the experience of a tertiary Emergency Care Center, is to help the Dentist to recognize pathologic situations which make sinus grafting hazardous. Then, analysis of a case series of sinus lift complications will help the audience to understand how intricate are oral surgery and sinus disease.

Friday, September 30, 2009     14:30 - 17:30
Osseointegration of San Diego USA, February 26-28, 2009.

Surgical procedures and long-term results

Dental implants need appropriate bone volume for adequate stability in the rehabilitation after tooth loss. In the severely atrophic posterior maxilla, the clinical success of implant treatment sometimes requires a vertical ridge augmentation in the maxillary sinus floor. Today, sinus lifting procedure is presented as a reliable technique, used by more and more practitioners in their routine practice. Moreover, this procedure is considered as a safe and easy technique available for all practitioners. However, both clinical experience and literature review show that several complications (membrane perforations, bleeding, infections etc.) can occur during the procedure. The goal of the lecture is to describe all these complications and to present a rational to evaluate the specific risk factors for the sinus lift procedure. The treatment of the different complications will be described using mainly videos.
Dr. Jacques Bernier
Graduated from the Laval University in Quebec Canada in 1985. He completed an M Sc. at the same University with his thesis: “Bio-Psycho-Social Benefits of Implant Therapy on Edentulous patients” in 2005. Actively involved in dental implants since 1990, he maintains a practice and training center in Quebec City dedicated to implantology and focused on edentulous patients. He is also actively involved in research and education in this area.

Overdentures: Prosthetic and surgical design update
This presentation will cover the rationale for the use of Overdentures and important considerations affecting their efficiency in reducing post-insertion maintenance, costs and complications. The evidence based format will include aspects such as the number and position of implants, the types of attachments, occlusal concepts and important recent literature suggesting diagnostic guidelines related to patient selection and reporting significant difference in patients satisfaction.

Dr. Karl-Ludwig Ackermann, born in 1952, studied dentistry from 1971 until 1976 at the Johannes Gutenberg University, Mainz, Germany. In 1976 he received the DDS degree and in 1978 he acquired the degree D.M.D. From 1978 until 1980 specialisation in oral surgery (University Mainz, department oral surgery). Associated as dentist and oral surgeon together with Dr. Axel Kirsch in private practice in Filderstadt, Germany. Since 1980 clinical and experimental work in the field of perio-implant- prosthetic and maxillofacial implantology. Specialisation in restorative and periodontal prosthodontics, periodontics, implantology. He is head of the department of periodontology and implantology at the University Hospital of Mainz. Full Member of the German Society of Implantology (DGI). Associated since 2005 as a guest professor of the University of the Dental Association.

Fixed bridge and Toronto
Full arch fixed restorations in estheticias and removable prosthodontics are not only desired by patients, but also from aesthetic, functional, rehabilitative and quality of life, implants have been used to solve these problems, mostly by supporting a removable or semi-detachable rehabilitation. Karl-Ludwig does not want the implants to become a target to support a removable prosthesis, but the function of a stable prosthesis.

More than 25 years of experience and knowledge in implant prosthetics combined with high diagnostic and planning the treatment concept led to the understanding of the needs of the patients.

For a predictable step-by-step treatment concept the following criteria are most important:
- Analysis of bone defects
- Type and size of bone loss
- Amount of bone regeneration
- Type and quantity of bone augmentation
- Soft tissue management
- Placement of implants
- Number and distribution of implants
- Provisionalisation
- Abutments
- Transcatheter guided
- Final restoration
- Esthetics
- Functionality
- Costs and results from our clinic will be presented. The above mentioned criteria will be focused on and discussed in detail.
Plenary Session 1
10 YEARS OF EXPERIENCE IN

> Paul STONE
Paul is Secretary General of the EAO Board, Chairman of the Specialty Advisory Board in Implant Dentistry of the Royal College of Surgeons of Edinburgh, a Past President of the UK Association of Dental Implantology (ADI) and Member of the General Dental Council Implant Training and Education Group.

He is a fellow of the International Team for Implantology (ITI) and also works as a member of teaching and lecturing staff at both Dundee University Dental Hospital and School and Edinburgh Postgraduate Dental Institute (consultant).
His main interests are in the surgical aspects of implant and reconstructive surgery.

> Friedrich W. NEUKAM
Doctor in Medicine and Surgery (MD) from the University of Milan in 1981. Degree in Odontostomatology and in Orthognathodontics (DDS).

Fellowship in advanced Implant Dentistry at the Division of Oral and Facial Surgery, School of Medicine, University of Miami, Miami FL (Head: Robert E. Marx, DDS).

Head of the Implantology and Oral Rehabilitation Department at the Odontostomatology Clinic, University of Milan.

Visiting Professor New York University, College of Dentistry, New York, NY, USA.

Fellow of the "International College of Dentists" (FICD).

Past-President of the Italian Society of Oral Surgery and Implantology (SICOI).

Active member of the European Board of Oral Surgery (2006).

Member of the Cochrane Collaboration in the Oral Health Group since 2005.

Author of over 200 scientific articles in Italian and international journals.


> Tiziano TESTORI
Doctor in Medicine and Surgery (MD) from the University of Milan in 1981. Degree in Odontostomatology and in Orthognathodontics (DDS).

Fellowship in advanced Implant Dentistry at the Division of Oral and Facial Surgery, School of Medicine, University of Miami, Miami FL (Head: Robert E. Marx, DDS).

Head of the Implantology and Oral Rehabilitation Department at the Odontostomatology Clinic, University of Milan.

Visiting Professor New York University, College of Dentistry, New York, NY, USA.

Fellow of the "International College of Dentists" (FICD).

Past-President of the Italian Society of Oral Surgery and Implantology (SICOI).

Active member of the European Board of Oral Surgery (2006).

Member of the Cochrane Collaboration in the Oral Health Group since 2005.

Author of over 200 scientific articles in Italian and international journals.


10 years of experience in sinus elevation

Elevation of the maxillary sinus in combination with placement of dental implants was introduced about 20 years ago. Since elevation is a procedure with a high success rate and a high predictability, the intended results were achieved with a minimum of complications. In the last decade the techniques of sinus elevation were modified and numerous different materials for sinus elevation were tested clinically and predictably. The use of piezoelectric surgery provides a minimally invasive technique with a reduced risk of damaging the Schneiderian membrane and the perisinusoidal soft tissues. The highest level of evidence for predictable clinical long-term results was found for the use of autogenous bone, inorganic deproteinized bovine bone and 1-tricalcium phosphate for sinus augmentation.
CHAIRPERSON
Jaime A. GIL
Professor and Chairman of Prosthodontics, University of the Basque Country (Bilbao – Spain).
Past-President of the International College of Prosthodontists.
Past-President of the European Academy of Esthetic Dentistry.
Past-President of International College of Dentists (European Section).
Chairman of the European Association for Osseointegration.

Member of the following international organizations:
- European Association for Osseointegration.
- European Academy of Esthetic Dentistry.
- American Academy of Restorative Dentistry.
- American Academy of Fixed Prosthodontists.

Journalistic activity:
- Editor-in-chief of the Spanish version of the European Journal of Esthetic Dentistry.
- Advisory Board of the Journal of Esthetic and Restorative Dentistry.

Marco Rosa graduated in Medical Doctor in 1981 then carried out postgraduate studies first in Dentistry, then in Orthodontics.
He is an active member of the Angle Society of Europe and a Diplomate of both the European Board and the Italian Board of Orthodontics.
He works in private practice, limited to Orthodontics, in Trento, Northern Italy and he is involved in the teaching program at Insubria University in Varese – Italy. His areas of interest are "Early Treatment in Mixed Dentition", "Space Closure vs Implants", and "Interdisciplinary Treatment in the Adult Patient".
He published and regularly lectures internationallly on these topics.

Dental Degree: D.D.S.
Orthodontic degree: D.Orthod.
Other Related Degrees: M.D.

10 Years of Experience in Case of Agenesy of Upper Lateral Incisors: Implants or Orthodontic Canine Substitution?
This lecture provides the rationale and guidelines in order to optimize outcome in case of space closure and "canine substitution" orthodontic/restorative treatment.
Not only the advantage and disadvantage, but also the indications and contra-indications for the space closure will be revisited and discussed, having as overall goals:
- Correct occlusion, function and periodontal profile;
- Balanced smile and front teeth display;
- Balanced face and profile;
- Long term stability;
- Avoid implants in the aesthetic zone of the mouth;
- Ideal timing and treatment planning at different age for the different patients.
Clinical Advances

IMMEDIATE IMPLANT-PLACEMENT IN FRESH EXTRACTION SOCKETS : STATE OF ART

Dr. Joseph Kan

Dr. Joseph Kan completed his specialty training in Prosthodontics as well as the Master degree from the implant Surgery from Loma Linda University School of Dentistry (LLUSD) in 1997. He is currently a Professor in the Department of Restorative Dentistry in LLUSD. He also maintains a private practice limited to Prosthodontics and Implant Surgery.

Immediate Implant Placement and Provisionalization in the Esthetic Zone

Achieving anterior implant esthetics is a challenging and demanding procedure. To create implant restorations with harmonious gingival contour that emulate nature is a fusion of science and art. Understanding the biologic and physiologic limitations of the soft and hard tissue will facilitate predictability in simple to complex esthetic situations. This presentation will focus on current implant treatment philosophies and methodologies for immediate implant placement and provisionalization in the esthetic zone. Emphasis will be placed on the diagnostic and treatment planning, surgical and prosthodontic management of soft and hard tissue (sagittal and anterior) implant esthetics. Long term followed on immediate loading of anterior single tooth will be discussed.

Dr. Eric Rompen

Professor of Periodontology - Dental surgery
University of Liège, Belgium
Main topics of teaching:
- Periodontology, 1st, 2nd and 3rd degree in Dental Science
- Dental Surgery, 1st, 2nd and 3rd degree in Dental Science
- Implant surgery, 3rd degree in Dental Science

Qualifications:
- Doctorate in Dental Medicine (PhD), 1991,
- Post-graduate in Oral Rehabilitation, 1989,
- Degree in Dental Science, 1986,
- Qualifications:
  - President of the Belgian Society of Periodontology (2001-2004)
  - Head of the post-graduate program in Implantology
  - Head of the post-graduate program in Periodontology
  - Head of the post-graduate program in Periodontology (UCLB, ULB)
  - Head of the post-graduate program in Oral Surgery

Topics of Research:
- Epidemiology and systemic impact of periodontal diseases.
- Pathology and management of tissue deficiencies.
- Soft and hard tissue integration of dental implants.
- Management of extraction sockets in the aesthetic area: current approach and future perspectives.

It has been known for long that a centripetal resorption of the maxillary and mandibular arches occurs after multiple extractions, due to a remodelling of the buccal bony plate of the sockets. It is now clear that a similar process also takes place after single extractions in the aesthetic area.

This lecture will first review recent data from the literature that describe the fate of an extraction socket, the average loss of volume and its kinetics, and then will compare the efficiency of recently published techniques to preserve the volume of the ridge (immediate implant placement, insertion of biomaterials, grafts, GBR …). An attempt will be made to define the specifications of ideal biomaterials to fill/cover the socket, and to announce what improvements will be available in the near future.

Dr. Søren Schou

Dr Søren Schou is Professor and Chairman at the Department of Oral and Maxillofacial Surgery and Oral Pathology, School of Dental Surgery, University of Copenhagen, Denmark. He gained his DDS in 1984, PhD in 1993, board certification in oral and maxillofacial surgery in 1998, and DrOdont in 2004. Between 1988 and 1990 he undertook military dental service and from 1990 to 2002 he was a PhD student, assistant Professor and finally Associate Professor at the School of Dentistry, University of Copenhagen and University Hospital, Rigshospitalet, Denmark. Subsequently, he was full-time consultant at Aalborg Hospital, Aarhus University Hospital, Denmark, until 2007. Professor Schou has published in national and international scientific journals, focusing on oral and maxillofacial surgery and oral implantology, with special emphasis on peri-implantitis. He is secretary general of the European Association of Osseointegration and associate editor of European Journal of Oral Implantology. His current research interests are oral implantology, including implant treatment of individuals with congenitally missing teeth and periodontitis-associated tooth loss, as well as bone biology, bone regeneration, and surgical endodontics.
Immediate implant in multiple sockets in edentulous jaws

Patients who are partially edentulous and who have indications for extraction of their remaining teeth, often decide on implants with fixed full arch restorations. In conventional protocols teeth will be extracted and a removable prosthesis is then used as provisional for 2-6 months. Therefore, it would be beneficial to shorten the treatment time to preserve bone and soft tissue without jeopardizing the implant success.

Immediate temporization in postextraction implants

As clinicians and patient demands continue to push the boundaries for rehabilitation with dental implants, we have seen a significant trend towards working outside of the safety zone with dental implants. Reduced healing times, immediate placement, and most significantly immediate restoration have found favour in an attempt to save time, to reduce tissue loss and importantly to provide an instant fixed aesthetic solution. This presentation will consider how such cases can be executed in a safe and clinically predictable manner.

Istvan URBAN, DMD, MD
Budapest, Hungary
Dr. Urban received his DMD degree and subsequently his MD degree from Semmelweis University School of Medicine and Dentistry.
He completed a residency program in oral surgery at St. Istvan Hospital in Budapest, Hungary and subsequently an internship program at UCLA School of Dentistry in the section of Prosthodontics.
In 2000 he graduated from the Fellowship Program in Implant Dentistry at Loma Linda University in Loma Linda, California and was appointed assistant professor in the following year. Dr. Urban teaches implant dentistry in the graduate program at Loma Linda and he holds an active license in the state of California. He maintains a private practice in Budapest, Hungary.
Currently he is conducting several clinical and histological studies in the field of bone regeneration.
Dr. Urban is an invited speaker internationally in the field of Implant Dentistry.
Management of complications in sinus elevation

Even though sinus floor elevation allowing for optimal implant placement is a routine aspect in implant therapy, there are several complications that can occur during or after the surgical phase. Anatomical limitations such as thickness of the lateral bony wall or the lining mucosal membrane, the existence of an osseous septum in buco-lingual or anterior-posterior direction, can influence the success of the surgical outcome. Minor and major Schneiderian membrane perforations can be predictably resolved. Other complications such as inadequate volume augmentation, or insufficient bone hardness in the 2-stage approach, as well as management of post-op infections, will be addressed.

Anatomical variations and/or surgical challenges which necessitate the modification of the traditional lateral window hard tissue augmentation, will be discussed.
Clinical considerations and management of peri-implantitis

Several aspects of peri-implantitis are still sparsely understood. Significant histological differences have been demonstrated between the peri-implant tissues and the gingiva of teeth. In addition, the implant and tooth surfaces are different. Moreover, differences in inflammatory tissue reactions due to plaque accumulation have been revealed. Therefore, the periodontal methods for the diagnosis, prevention, and treatment of plaque-induced inflammatory reactions of teeth are not directly applicable to implants. The lecture will focus initially on the present knowledge about the diagnosis, prevention, and treatment of peri-implantitis, including pathogenesis and epidemiology. Furthermore, the knowledge about the diagnosis, prevention, and management of peri-implantitis will be discussed in detail.

Successful, predictable implant treatment requires identification of specific biomechanical risk factors, which may lead to complications and failure. Based on both, long clinical experience and literature review, the goal of this lecture, is to propose an analysis of the different biomechanical rules and a methodology to detect in advance risky situations. The purpose is to reduce the failures in daily routine practice. As soon as a risky situation is diagnosed, it is possible to modify the treatment plan (prolong the healing time, add extra implants, reduce prosthetic extensions, modify prosthetic design etc.) or contra-indicate the implant treatment.
Friday, October 2, 2009    09:00 - 12:15

Master Classes

IMPLANTOLOGY AND MEDICINE

> Fouad KHOURY

- Born in Majdoubé, Lebanon
- 1976: BSc, St. Joseph University, Beirut
- 1979-1981: Department of Oral & Maxillofacial Surgery of the University of Freiburg, Germany
- 1981-1984: Assistant Professor at the Department of Oral & Maxillofacial Surgery of the University of Minster, Germany
- 1984: Diploma in Oral Surgery
- 1985: Doctorate in Dental Science
- 1986: Habilitation
- Since 1994: Associate Professor at the Department of Oral & Maxillofacial Surgery of the University of Minster, Germany and Chairman of the Rheinbahn Schola Schellensteinr, Olsberg, Germany
- Member of Editorial Board of different Journals

Several papers and more then 100 Publications and 750 hours / courses on Oral Surgery, Bone Tansplantation, Implantology...
Pain management for chronic post-operative pain

Anatomical and physiological factors of the oral soft tissues, particularly the gingivae, and the distribution of the major trigeminal nerve branches and other dental nerves, may explain the frequency and the severity of pain in this area, which is of particular concern for patients undergoing dental implant surgery. The post-operative phase is often characterized by discomfort and pain that is worse during the first post-operative day and that usually resolves after a week to ten days. This pain is known as post-operative pain.

Some of the commonly used therapeutic approaches include premature loading, surgical pain, acute and chronic pain, and post-operative pain. Pain control in oral implant surgery is critical to ensure patient comfort and satisfaction. Pain management strategies include preemptive analgesia, multimodal analgesia, patient-controlled analgesia (PCA), and regional anesthesia. Additionally, non-pharmacological approaches such as acupuncture, music therapy, and distraction techniques can be employed.

Diabetic patients: implants in diabetic patients - clinical experience and results

Experimental studies have already revealed an impaired soft tissue healing response in diabetic animals, compared with non-diabetic controls, both quantitatively and qualitatively. This has led to the hypothesis that diabetic patients (implants in diabetic patients: clinical experience and results), as proposed by Lin et al., are at an increased risk of peri-implantitis development. The incidence of peri-implantitis in diabetic patients may be higher than in non-diabetic controls, and the disease progression might be more rapid. However, this topic needs more research to be confirmed.

Most clinical studies available nowadays tend to indicate that diabetes is no contraindication for implant placement, as long as it remains under metabolic control. Improved understanding of the type, duration, and severity of diabetes, along with advancements in surgical techniques and post-operative care, have contributed to the success of dental implant surgery in diabetic patients.
Short Oral Communications 1

**Chairperson:**

Dr. German Gallucci is the director of the Harvard Dental Implant Program, Department of Restorative Dentistry and Biomaterials Sciences at Harvard School of Dental Medicine. He obtained his Doctorate in Dental Medicine at the department of Prosthodontics, School of Dental Medicine at the University of Geneva, Switzerland. Dr. Gallucci actively participates in clinical research related to esthetics and immediate loading in implant therapies. His work has been published in international peer reviewed journals and is an editorial board member for “Clinical Oral Implants Research.”

Dr. Gallucci participates as invited lecturer in international and national conferences and congresses. He is fellow of the International Team for Implantology (ITI), Switzerland, active member of the Academy of Osseointegration (AO) – USA, and European Academy of Osseointegration (EAO).

**Friday Morning**

**Short Oral Communications 1**

**019**

*Life quality after iliac crest bone graft harvesting over an anterior vs. posterior approach*

**S. Becker**

**020**

*Crestal bone remodeling around implants placed in fresh extraction sockets*

**A. Barone**

**021**

*Peri-implant endosseous healing properties of dual acid-etched mini-implants with a nanometer-size deposition of cAp: a histological and histomorphometric human study*

**G. Telleman**

**022**

*Comparative clinical analyses of immediate and early loaded sla and slactive straumann® te™ implants*

**V. Kokovic**

**023**

*Seven-year results of implants with an oxidized surface placed predominantly in soft bone and subjected to immediate occlusal loading*

**R. Glauser**

**024**

*Immediate function with scalloped implants in the esthetic zone biologic rationale and clinical results*

**R. Noelken**
CHAIRPERSON

Joan Pi URGELL

Barcelona, 1978 Degree in the University of Barcelona.
Barcelona, 1977-78 Assistant Professor at the School of Dentistry.
Dept. of Conservative Dentistry.
Barcelona, 1979 Title of “Médico Estomatólogo” (D. D. S.) from the University of Barcelona.
Los Angeles, 1981 Postgraduate special Training at the University of Southern California (U. S. C.).
Lundt (Sweden), 1985 Certificate in Osseointegration. Surgical Training.
Los Angeles, 1985 Training in Osseointegration at the University of California.
Assistant Professor “Master Oral Surgery and Implantology.”
Director of Branemark Osseointegration Center.
Barcelona.

PRESENTERS

B. STADLINGER

Agreement of 2d histomorphometry with 3d µct measurement?

F. FOSCHI

Interaction of different bone graft materials with bone marrow stromal cells, in vivo and in vitro studies

J. M. NAVARRO JR.

Early results of 409 consecutively placed novel tapered, variable thread design implants

P. MARKER

Osseointegrated implant rehabilitation in previously irradiated jaws without the use of adjunctive hyperbaric oxygen treatment

M. GAHLERT

Osseointegration of zirconia dental implants. A biomechanical and histomorphometrical study in mini pig
Plenary Session 3

METHODS AND TIMING FOR SOFT TISSUE MANAGEMENT AND PROVISIONAL RESTORATIONS

> Marc QUIRYNEN

Professor Marc 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 antimicrobials. 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, Periododontologie, Today and Parodontologie.

Dr Jean-Pierre Gardella received his DDS in Marseille University in 1985. Post graduate in Prosthodontics, Periodontology and Oral Implantology, he is involved in many continuing education programs. (Marseille University, Paris VII University).

His private practice is limited to perio and implant therapy since 1995. He is co-founder of CM France Education which is a clinical training center for advanced implant techniques. He is a regular national and international lecturer.

His special areas of interest are esthetics, implant dentistry and plastic surgery.

Past scientific president of the French Society of Periodontology and Oral Implantology.

Member of the European Federation of Periodontology.

Member of the European Association for Osseointegration.

Member of the American Academy of Periodontology.

Member of the Academy of Osseointegration.

Member of the European Academy of Esthetic Dentistry.

Requirements in soft tissue conditions for the treatment of peri-implant diseases

There is no evidence in the literature to demonstrate that the lack of keratinised tissue may influence implant survival. However, a careful management of soft tissue around implants is considered essential by clinicians and the reconstruction of keratinized mucosa at implant sites has to be considered in some clinical situations to facilitate restorative procedures or to improve plaque control.

In a recent study, an association between the presence of keratinized mucosa, plaque level and incidence of peri-implant diseases has been suggested.

The use of surgical techniques, inspired from periodontal plastic surgery, may be beneficial to increase the width/thickness of keratinised mucosa at implant sites.

In the presence of peri-implantitis a minimal amount of keratinised mucosa is required for performing surgery, in order to reduce peri-implant pocket depth or to repair/regenerate bone tissue. This presentation will discuss the significance of keratinised mucosa at implant sites, will precise the indications of augmenting the width/thickness of keratinised mucosa, and will describe the surgical techniques used in different situations.

Methods and Timing for Soft Tissue Management in Esthetic Areas

Regarding the literature, we know that soft and hard tissues overcorrection is a prerequisite in term of implant esthetic dentistry.

Even if scientific documentation of esthetically relevant and reproducible parameters is missing, patient selection and moreover site selection is a key factors for implant success, such as long term prognosis or reestablishment of harmonious soft tissues contours.

From an update classification based on the biotype and the level of alveolar bone resorption, we will describe:
- The different methods of soft tissue management using a less invasive plastic surgery approach
- Timing for soft tissue management (before, during and after implant placement)

At least, we will point out the influence of temporary device emergency profile, in order to respect the wound healing biologic basis.
Timing for provisional restorations: guidelines and tricks

In the front area provisional restorations are required for functional reasons and mainly in order to achieve optimum esthetic outcome. There are only few data in the available literature which document the results of soft tissue conditioning in prospective comparative studies. It’s the aim of this lecture to discuss the protocols for provisional restorations of single and multiple implants based on the experience of different clinicians. Points of interest are: 1) ideal duration of mucosal contouring, 2) customized versus individual components, 3) influence of the tissue quality to the final result.

Tissue quality to the final result.

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implants based on the experience of different clinicians. Points of interest are 1) ideal duration of mucosal contouring, 2) customized versus individual components, 3) influence of the tissue quality to the final result.
Clinical Research Competition

PRESENTATION

> M. ROCUZZO

011 Implants in periodontally compromised partially edentulous patients: long-term (10 year) results of a three arms blinded prospective study

> A. MORDENFELD

012 Histological analyses of biopsies harvested 11 years after maxillary sinus floor augmentation with an 80:20 mixture of deproteinized bovine and autogenous bone

> P. FELICE

013 Vertical ridge augmentation of the atrophic posterior mandible with inlay grafts: bone from the iliac crest versus bovine anorganic bone. Results up to 1 year after loading from a randomized controlled clinical trial

> A. TAHMASEB

014 Computer-guided implant placement: 3d planning software, fixed intrasural reference points and cad/cam technology. A clinical trial and an in vitro study

CHAIRPERSON

> Hendrik TERHEYDEN

Hendrik Terheyden, Professor DDS MD PhD
Professor and chairman, Dept. of Oral & Maxillofacial Surgery, Red Cross Hospital, Kassel

Education and Specialisation
1983-1988 Undergraduate dental education, University of Kiel, Germany
1989-1992 Undergraduate dental education, University of Kiel, Germany
1993-1994 Postgraduate training and specialist in Oral Surgery
1993-2003 Postgraduate training and specialist in Maxillofacial Surgery and the Kiel University Hospital, Germany
1999 Habilitation University of Kiel
2003-2007 Senior teacher and consultant at the Kiel University Hospital
2004 Professor at the University of Kiel
2007 Chairman in Kassel

Scientific profile
>200 scientific publications including 77 original papers
President elect of the German Association for Dental Implantology
Member of the Scientific board of the International Team for Implantology (ITI)
Section Editor of International Journal of Oral & Maxillofacial Surgery
**FRIDAY AFTERNOON**

**PRESENTER**

*B. POMMER*  
**W. SLOT**

015 Gel-pressure technique (gpt) for flapless transcrestal maxillary sinus floor elevation

016 The implant-supported maxillary overdenture; a prospective study on 4 versus 6 implants.

**PRESENTER**

*L. DEN HARTOG*  
**M. VROOM**

017 Immediate versus conventional single implant loading in the aesthetic zone; and 16 months randomized controlled trial

018 The effect of surface topography of screw-shaped titanium implants in humans on clinical and radiographic parameters. A 12 year prospective

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**CHAIRPERSON**

*Philippe G. KHAYAT*

Dr Khayat received his dental degree from the University of Paris in 1979. In 1986, he graduated from the University of Washington where he received his Certificate in Periodontics and his Master of Science in Dentistry (MSD). Affiliate Assistant Professor at the University of Washington (Department of Restorative Dentistry) Dr Khayat is also a past member of the Academy of Osseointegration, the European Association of Osseointegration and the American Dental Club of Paris.

Dr Khayat has published articles in several French and international journals including the Journal of Prosthetic Dentistry, Practical Periodontics and Aesthetic Dentistry, the International Journal of Oral and Maxillofacial Implants and the Journal of Oral Implantology.

Dr Khayat has lectured extensively in France and internationally. He maintains a private practice located in Paris which is limited to Oral Implantology.
Short Oral Communications 2

> Tiziano TESTORI

> J. P. ALBOUY
Implant surface characteristics influence the outcome of treatment of peri-implantitis. An experimental study in dogs

> L. CANULLO
Matrix-metalloproteinases and bone loss at implants restored according to the platform switching concept: a randomized controlled trial on the influence of different mismatching

> A. GAGGL
Free microvascular transfer of segmental cortico-cancellous femur – a new technique for alveolar ridge reconstruction

> M. BORNSTEIN
Early loading of non-submerged titanium implants with a chemically modified sandblasted and acid-etched surface: 2-year results of a prospective 2-center study regarding clinical and radiographic data

> D. FERRARI
Stability of crestal bone level at platform switched non-submerged titanium implants. A histomorphometrical study in dogs

> G. AVILA
Influence of anatomic variability in sinus grafting outcomes
Dr Gérard ZUCK obtained his DDS degree at Marseille University, France, in 1974. He is a member of the EAO. He is a private practitioner in Aix en Provence, France. He has been invited to lecture at scientific meetings related to implant dentistry. He is part of the review board of several dental journals in France. He has published numerous articles and short communications in professional journals. He presently conducts a number of courses in his private clinic. He has been organizing numerous international implant meetings in Aix en Provence for more than 10 years.


Sinus lift procedure in presence of mucosal cyst: a clinical prospective study.

Treatment outcome and patients’ satisfaction of two adjacent implant-supported restorations in the aesthetic zone. Preliminary results.

Vertical bone augmentation versus 7 mm long implants in posterior atrophic mandibles. Results up to 1 year after loading.
Plenary Session 4
CLINICAL APPLICATIONS OF NEW TECHNOLOGIES

Massimo SIMION

Myron NEVINS
Myron Nevins, D.D.S. is the editor of the International Journal of Periodontics and Restorative Dentistry and Associate Clinical Professor of Periodontology at the Harvard School of Dental Medicine. Dr. Nevins is a past President of the American Academy of Periodontology where he has contributed to several important initiatives. He is a Professor of Periodontics at the University of Pennsylvania School of Dental Medicine and Adjunct Professor at Temple School of Dental Medicine. He taught at the University of North Carolina, Chapel Hill and Boston University. He also maintains a private practice limited to Periodontics and Implantology in Swampscott, MA.

Christoph HÄMMERLE
Christoph Hämmerle is Professor and Chairman of the Department of Fixed and Removable Prosthodontics and Dental Materials Science and Mater Material Science at the University of Zurich, Switzerland. He is certified in prosthodontics as well as in oral implantology. He is involved in the interdisciplinary treatment of complex cases and is a prosthodontist treating patients applying all available options of reconstructive dentistry including dental implants. A scientific focus in the area of bone and soft tissue reconstruction is on the development of techniques involving growth factors and appropriate carrier materials. Furthermore, he is interested in the development of clinical aids and serves on the review boards of several scientific journals in the field.

Prof. Hämmerle is a member of various scientific organizations. Presently he is President of the European Association for Osseointegration (EAO), Board Member of the Swiss Society of Periodontology, President of the Osteology Foundation, and Chair of the Swiss Association for Osseointegration (SVAIO). He has served on the organizing committees of several national and international conferences including: European Congress of Periodontology, ITI World Symposium in Rio de Janeiro, the 15th Annual Congress of the EAO 2006 in Zurich, co-chairmanship of the 17th and 18th Congresses of the EAO in 2008 and 2009. 7th Annual Congress of the EAO in 2006 and 2008. He is active in the field.

Carriers and growth factors in implant dentistry: where do we stand today?
Bone regeneration by means of GBR is a well documented and procedure successfully used in implant dentistry. Further developments in bone augmentation procedures can be related to simplification of the clinical handling or related to influencing of biological processes. From a biological point of view growth and differentiation factors may induce earlier bone growth into the area to be regenerated. Furthermore, the use of such materials would allow treatment of extended bone defect volumes. At present, large bone defects are regularly augmented with autogenous block grafts. Growth and differentiation factors under investigation include BMP-2, BMP-7, EGF-3, PDGF, FGF and others. The BMP clearly are the most potent and their clinical effectiveness is well documented in medical applications.
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 extensively 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.

Minoru Ueda
1972-1976 Faculty of Dentistry, Tokyo Medical and Dental University (D.D.S.),
1978-1982 Graduate School, Nagoya University School of Medicine, Awarded the degree of PhD in a study of skin grafting on irradiated bed.
1999- present.
Department of Oral and Maxillofacial Surgery, Nagoya University, Graduate School of Medicine,
2003-2008 Department of stem cell engineering, Institute of Medical Science, University of Tokyo,
Professor
Membership of Academic Society: The Japanese Society of Tissue Engineering (Former President), Asian Society of Tissue Engineering (Vice-President)
Tissue Engineering and Implant
Tissue engineering is relatively a new approach for regenerative medicine. According to the concept, human body can be regenerated by using stem cell, scaffold and growth factors.
In my lecture I will present bone and skin regeneration therapy in dentistry, because they are thought to be the most important and clinically available technique as an anti-aging therapy. Along the stream of this concept, we have developed the injectable bone for alveolar ridge augmentation for implant surgery and the skin rejuvenation therapy in perioral region by using fibroblast injection system. Totally over 150 cases have been treated by tissue engineering and showed good results clinically in our clinic. The tissue engineering therapy in anti-aging treatment can provide the patient the highest aesthetic result and satisfaction. It opens a new window for dentistry.

Hendrik Terheyden
Hendrik Terheyden, Professor 2005 MD Phd
Professor and chairman, Dept. of Oral & Maxillofacial Surgery, Red Cross Hospital, Kassel
Education and Specialisation.
1983-1989 Undergraduate dental education, University of Kiel, Germany
1989-1992 Undergraduate dental education, University of Kiel, Germany
1989-1992 Postgraduate training and specialist in Oral surgery
1989-1993 Postgraduate training and specialist in Maxillofacial surgery and the Kiel University Hospital, Dept. of OMF surgery
1991-1992 Habilitation University of Kiel
2001-2007 Senior lecturer and consultant at the Kiel University Hospital
2002-2007 Professor at the University of Kiel
2007-2011 Chairman in Kassel
Scientific profile
60 scientific publications including 77 original papers
President elect of the German Association for Dental Implantology
Member of the scientific board of the International Team for Implantology
Scientific editor of the International Journal of Oral & Maxillofacial Surgery
Active molecules and stem cells
Stem cell’s state of the art
In the first part of the lecture the biological prerequisites of tissue engineering are introduced: angiogenesis and stem cell differentiation including the molecular control of these processes. In the second part nine different technical approaches of tissue engineering are presented in a synoptical flow diagram including recombinant and native growth factors, gene therapy, small molecules, extracellular matrix molecules, autologous cell preparations and cell cultivation techniques. For each technique the state of development from basic research over clinical research to clinical availability is discussed. Currently recombinant differentiation (rhBMP) and growth factors (rhGDF-5, rhPDGF) have been approved for clinical use in several countries. In the third part the future potential of the presented techniques for clinical implant dentistry is discussed.
CHAIRPERSON

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 is listed in Who’s Who in Belgium and is a frequent contributor to international congresses and 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).

Basic Research Competition

SATURDAY MORNING

001 Tomographic and immunohistochemical study on onlay grafts remodeling, iliac crest versus calvarial bone

PRESENTER

L. A. SALATA

002 Histological study on the implant interface following flapless implantation

PRESENTER

B. H. CHOI

003 Effect of magnetic fields produced by neodymium magnet on osteoblast activity

PRESENTER

R. LEESUNGBOK

004 Past-like inorganic bone matrix – preclinical testing of a prototype preparation in the porcine calvaria

PRESENTER

D. BUSENLECHNER

005 A novel technique for quantification of cells on material substrates

PRESENTER

L. MEIRELLES

006 Evidence of revascularization and cell colonization of amorganic bovine bone

PRESENTER

P. GALINDO-MORENO
David HARRIS

David is a medically and dentally qualified specialist oral surgeon. He maintains a specialist private practice at the Westwood Clinic Dublin. He is a Senior Lecturer at Trinity College Dublin, Ireland where he carries out his research and graduate student teaching and implant surgical training.

He is a founder member and past president of the European Association of Osseointegration, and continues to serve as a member of council. He was co chairman of the 2008 EAO Scientific Congress in Warsaw. He has published over 25 scientific articles and reviews and contributed to these international textbooks on implants. He chaired the EAO workshop on radiology in implant dentistry. He has lectured extensively internationally and provides regular postgraduate teaching courses. He has had extensive experience in medical legal matters as a member of the cases committee of Medical Protection Society and as a member of the board of directors of Dental Protection Ltd for 10 years and continues as an advisor. He has had experience in the introduction of structured postgraduate courses in implant dentistry.

He has had extensive experience in medical legal matters as a member of the cases committee of Medical Protection Society and as a member of the board of directors of Dental Protection Ltd for 10 years and continues as an advisor. He has had experience in the introduction of structured postgraduate courses in implant dentistry.

He commenced implant treatment in 1984 as a member of a small number of international pioneer teams introducing Professor P.I. Brånemark’s techniques of osseointegration into clinical practice. He collaborates closely with Prof. Brånemark in providing postgraduate education and in the treatment of patients.
Plenary Session 5

PANEL DISCUSSION: PERIODONTOLOGY AND IMPLANTOLOGY: WHERE IS THE BORDER?

SPEAKER

> Mariano SANZ


SPEAKER

> Giano RICCI

Dr. Ricci graduated in medicine from the University of Florence and received the degree of specialist in stomatology from the same school after a two-year training program. He then specialized in periodontology from Boston University School of Dental Medicine. He is a fellow at the National Institute of Health in Bethesda, where he was involved in a clinical practice of periodontics in the same city. Since then he has devoted himself to periodontal therapy along with implant therapy since 1993. He is only one of very few experts in the field of periodontics, he has published scientific articles on periodontics and implant dentistry. Active Member of many prestigious international scientific societies, he is the founder and past president of the Italian Academy of Prosthetic Dentistry (AIOP), honorary member of the Federation Periodontology (EFP), active member of the European Academy of Esthetic Dentistry (EAED), honorary member of the South African Society of Periodontology. Periodontology and implantology: Where is the border? To perform advanced periodontal therapy in order to save a periodontally involved tooth or to extract it and place an implant? This is the question which the ethically oriented professional is confronted with every day. Several considerations need to be made in order to take the proper decision. Tooth’s integritv, vitality and stability, endodontic conditions if the tooth is non-vital, possibility of conservative or prosthetics restoration, need for orthodontic treatment, tooth’s strategic importance in order to properly utilize it for adequate function and esthetics. By a periodontal point of view few rules need to be followed in order to take the proper decision. In this presentation they will be discussed in detail.

SPEAKER

> Anton SCULEAN

D.M.D., Dr. Med. Dent, M.S., Ph.D. Professor and Chairman, Department of Periodontology, University of Bern, Switzerland.

1980 Doctor Medical Dentistry (D.M.D.) Varese University, Italy.

1981-1982 Postgraduate Training in Periodontology, University of Bern, Switzerland


1988 Certificate of Specialization in Periodontology, Royal Dental College, Aarhus, Denmark.

2001 Habilitation (Ph.D.), University of Saarland, Germany.

2002-2004 Associate Professor of Periodontology, in the Department of Conservative Dentistry and Periodontology, Johannes Gutenberg-University Mainz, Germany and Part Time Private Practice in Prüm, Germany.

2004-2005 Associate Professor of Periodontology, in the Department of Conservative Dentistry and Periodontology, Johannes Gutenberg-University Mainz, Germany.

2006-2008 Associate Professor of Periodontology, in the Department of Conservative Dentistry and Periodontology, Johannes Gutenberg-University Mainz, Germany.

2008-2009 Director of the European Federation of the IADR Postgraduate Education Committee (EFP-IADR) accredited graduate program in Periodontology at the Radboud University Medical Center Nijmegen, The Netherlands.

2009 President of the European Federation of the IADR Postgraduate Education Committee (EFP-IADR) accredited graduate program in Periodontology at the Radboud University Medical Center Nijmegen, The Netherlands.

President of the European Federation of the IADR Postgraduate Education Committee (EFP-IADR) accredited graduate program in Periodontology at the Radboud University Medical Center Nijmegen, The Netherlands.
Joan PI URGELL
Barcelona, 1977
M.D. in Medicine and Surgery.
Barcelona, 1978
Degree in the University of Barcelona.
Barcelona, 1977-78
Assistant Professor at the School of Dentistry.
University of Barcelona.
Dept. of Conservative Dentistry.
Barcelona, 1979
Title of “Médico Estomatólogo” (D.D.S.) from the University of Barcelona.
Los Angeles, 1981
Postgraduate special Training at the University of Southern California (U.S.C.).
Lund (Sweden), 1985
Los Angeles, Oct.-Dec. 1985
Training in Osseointegration at the University of California. Los Angeles (UCLA).
Assistant Professor “Master Oral Surgery and Implantology.” University of Barcelona.
Director of Branemark Osseointegration Center. Barcelona.

Philippe G. KHAYAT
Dr Khayat received his dental degree from the University of Paris in 1979. In 1986, he graduated from the University of Washington where he received his Certificate in Periodontics and his Master of Science in Dentistry (M.S.D.).

Dr Khayat is an Affiliate Assistant Professor at the University of Washington (Department of Restorative Dentistry, Dept. of Periodontics) and is a member of the Board of Directors of the Academy of Osseointegration, the European Association of Osseointegration and the American Dental Club of Paris.

Dr Khayat has published articles in several French and international journals including the Journal of Periodontology, Practical Periodontology and Aesthetic Dentistry, the International Journal of Oral and Maxillofacial Implants and the Journal of Oral Implantology.

Dr Khayat has lectured extensively in France and abroad. He also directs a private practice located in Paris which is limited to Oral Implantology.

Stefan RENVERT
Dr RENVERT received his D.D.S. degree from the University of Lund, Sweden, in 1975. In 1979 he spent one year as visiting professor at Loma Linda University in California, USA. In 1981 he completed graduate training in Periodontology at the Dental School at the University of Lund, Sweden with a certificate in Periodontology and a Ph.D. degree in 1984. In 1984 he became an Assistant Professor at the Department of Periodontology, Lunds University. In 1990 he became a full Professor of Oral Health Sciences and Research Director at Kristianstad University, Sweden. Professor RENVERT also holds a position as visiting professor at Dublin Dental Hospital, Trinity College, Dublin, Ireland and at the Berginge Institute of Technology, Karlskrona, Sweden.

Professor RENVERT is past chairman the Swedish Society of Periodontology, past chairman of the EFP, he was Scientific Chairman for Europerio 5 in Madrid 2005 and Chairman of the Europerio 6 meeting in Stockholm 2009.

Professor RENVERT has published more than 100 papers in international and national journals.

At present Professor RENVERT’s research focus on diagnosis and treatment of peri-implantitis, risk assessments and the association of periodontal disease to cardiovascular disease.
Christoph Hämmerle is Professor and Chairman of the Department of Fixed and Removable Prosthodontics and Dental Material Science at the University of Zurich, Switzerland. He is certified in prosthodontics as well as in periodontics. His clinical focus is on the comprehensive treatment of complex, partially edentulous patients applying all available options of reconstructive dentistry including dental implants. A scientific focus in the area of bone and soft tissue reconstruction is on the development of techniques involving growth factors and appropriate carrier materials. He has published numerous scientific and clinical articles and serves on the review boards of several scientific journals in the field.

Prof. Hämmerle is a member of various scientific organizations. Presently he is President of the European Association for Osseointegration (EAO), Board Member of the Swiss Society of Implantology, President of the Osteology Foundation, and Chairman of the ITI Section in Switzerland.

He has served on the organizing committees of several national and international conferences including: European Association for Osseointegration (including chairmanship of the 15th Annual Congress of the EAO 2006 in Zurich, co-chairmanship of the 1st and 2nd Consensus Conferences of the EAO in 2006 and 2009), ITI World Symposium.
> 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 Zurich (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 online subscription to the monthly Blackwell Clinical Oral Implants Research journal (12 issues per year), 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 Giulia Cerocchi
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1050 Brussels - Belgium
Tel +32 (0) 2 643 20 49
Fax +32 (0) 2 645 26 71
eao@agshq.com
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Oceanographic Museum & Aquarium

This exceptional museum of marine sciences is a monumental architectural masterpiece with a grandiose façade rising majestically above the sea to a height of 279 feet. The impressive rooms of the Museum, open to the public on two floors, contain remarkable collections of marine fauna gathered by Prince Albert 1st, numerous specimens of sea creatures, models of Prince Albert's laboratory ships, and objects made from the sea's natural products.

- Open daily
- Entrance fees:
  - Admission free
  - Changing of the guard every day at 11:55AM sharp

Place du Palais

Guardian of an ancient tradition, this Palace located in a unique setting, was built on the site of a fortress erected by the Genoese in 1215. It offers a unique panoramic view overlooking the Port and Monte Carlo, stretching as far as Bordighera in Italy. In front of the Palace's main entrance, you can enjoy the spectacular changing of the guard ceremony performed by the "Carabiniers" in full dress uniform, a ceremony that has remained unchanged for more than a century.
Situated at the heart of Mediterranean Europe, the Principality of Monaco is an exquisite emerald in a setting of craggy rocks rising from the azure-blue Mediterranean Sea, basks between enchanting French Medieval villages and the ski trails of the Alps. Its surface area is 494 acres, lying in a narrow coastal strip. The Principality has only one commune, Monaco, whose limits are the same as those of the state.

Monaco has a colorful and fascinating history filled with kings and even a movie star. Prince Rainier III ascended to the throne in 1949 and later caught the world’s attention with his storybook marriage to actress Grace Kelly. Today, Monaco still stands as a proud monarchy with their son, H.S.H. Prince Albert II as its head of state.

With over 300 days of sunshine a year and mild temperatures, one of the loveliest times to be in Monaco is fall with temperatures in the 60s to 70s. It celebrates with passion the arts, culture, restoration of mind and body, and high-adrenaline activities like the Formula One Grand Prix, land and water sports and exciting nightlife.
The 21st century is facing serious climatic changes due to human activities. Today most people feel concerned about sustainable development, they want to reduce the impact of their consumption and production. The challenge for sustainable development is to manage land so as to integrate and maximize its economic, social and environmental value. Therefore, this year the EAO has decided to act in favor of the environment by implementing green practices for the organization of its annual congress. This sustainable behavior will be obvious through our different commitments.

**EAO**

**Commit itself to become a green congress**

Through its design and overall management policy, the Grimaldi Forum Monaco is strongly committed to put into practice concrete actions supporting sustainable development.
- Seawater pumping system: renewable energy for the air conditioning system.
- 70% low energy lighting throughout the building.
- Eco-efficient flushing system in the lavatories.
- Buy green policy (use of recycled paper for printing; eco-friendly products for cleaning and painting...).
- 100% of personnel signed the Grimaldi Forum’s eco-friendly charter.
- Staff attends training and awareness programmes, and participates in community projects.
- Selective waste collection bins installed throughout the building.

**Eco-friendly Congress Centre**

**Green Exhibition Area**

The EAO congress offers its partners the opportunity to participate actively in protecting the environment through different actions.
- Recyclable booth structure: wooden panels are reused and carpets will be recycled into cars mats.
- Energy saving: individual lightning is set up for each booth.
- Eco-friendly environmental furniture for the booths.
- Recyclable signage: will be recycled into bags.
- Selective waste collection bins to collect paper, glass, packaging and plastic containers.
- The venue’s qualified green staff to help participants optimise recycling efforts.
Commit itself to adopt a green attitude

YOUR TRAVELLING IN MONACO

- Each holder of an EAO Congress badge can enjoy free public transport by bus. Monaco buses are powered by diester, a non-petroleum-based diesel fuel.
- Nearly everything is at walking distance in Monaco. Discover the Principality on foot, exercise and participate in protecting the environment! You will find the booklet “Discover Monaco by feet” in your EAO bag to help you!

WASTE SORTING

- Selective waste collection bins are available throughout the Grimaldi Forum Monaco building. By using these bins correctly, each member can participate in recycling.
- The venue’s qualified maintenance staff can help you if you hesitate!

CATERING

- During the congress, recyclable containers will be used.
- To limit food mileage, prefer local and seasonal meals and product.

ACT GREEN BOOTH

- Get to know more about the EAO Congress and the Grimaldi Forum Monaco’s efforts to protect the environment on the ActGreen Booth.
Congress General Information

- **Date**
  From Wednesday, September 30th, 2009 to Saturday, October 3rd, 2009.

- **Venue**
  The EAO congress will be held at the Grimaldi Forum, in the Principality of Monaco, a prestigious venue near the “French Riviera” region.
  **Grimaldi Forum Monaco address:**
  10, avenue Princesse Grace - 98000 Monaco
  Ph. +377 99 99 2000

- **Official language**
  The official language of the EAO Congress is English.
  There will be simultaneous translation into French and Italian during plenary sessions.

- **Headphones**
  Simultaneous translation in French, English and Italian 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 desk located on level -3.

- **Welcome desk opening hours**
  **Wednesday 30th**
  11:00-20:00
  **Thursday 1st**
  09:00-19:00
  **Friday 2nd**
  07:30-19:00
  **Saturday 3rd**
  09:00-18:00
  The welcome desk is situated on level 0. You will be able to register on site and retrieve your access badges. Congress bags will be distributed on level 0 Hall Ravel (exhibition area)

- **Exhibition Opening Hours**
  **Thursday 1st**
  09:00-18:00
  **Friday 2nd**
  08:00-20:00
  **Saturday 3rd**
  09:00-16:00

- **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 + cash + cheque in €.

- **ON SITE Registration fees**
  All the prices below include Monaco VAT (19.6%) up to date with membership fees

  - **EAO members + SFPIO*, SIIO**
  - 590€
  - **Non members**
  - 765€
  - **Medical students***
  - 330€

*Société Française de Parodontologie et d’Implantologie Orale
**Società Italiana di Implantologia Osteointegrata
***Upon presentation of a valid student id

- **Certificate of attendance:**
  A certificate of attendance for preregistered participants will be issued along with the Congress documentation upon arrival. Participants who register on-site will be issued certificate for the registration desk.

- **Cloakroom**
  **Wednesday 30th**
  12:00-18:00
  **Thursday 1st**
  08:00-20:00
  **Friday 2nd**
  08:00-20:00
  **Saturday 3rd**
  08:00-18:00
  Please be advised that the organisation is not responsible for any lost or damages.

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

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The Minister of State of the Principality of Monaco requests
the pleasure of your company at a cocktail reception on the occasion of the

18th Annual Meeting of the European Association for Osseointegration
in the Karament, Grimaldi Forum,
on Wednesday, 30th September 2009, at 5:30pm
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Martin KURZWELLY
Head of International Congresses, Business Unit Dental
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E-mail: martin.kurzwelly@astratech.com
Web site: www.astratechdental.com

BIOMET 3I
BIOMET 3I is a leading manufacturer of dental implants, abutments and related products. Since its inception in 1987, BIOMET 3I has been at the forefront in developing, manufacturing and distributing oral reconstructive products, including dental implant components and bone and tissue regenerative materials. The company also provides local and international educational programs and seminars of all levels for dental professionals.

BIOMET 3I is based in Palm Beach Gardens, Florida, U.S.A. with operations throughout North America, Latin America, Europe and the Pacific Rim.

Barbara De WILDEMAN
Tel: +34 934 705 500
E-mail: 3i-education@biomet.com
Web site: www.biomet3i.com

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DENTSPLY Friadent is the implant division of the American company DENTSPLY International, the world leader in the dental industry with over 9,000 employees in total. At its company headquarters in Mannheim, Germany, the implant specialist employs a staff of around 450 and is one of the most innovative and leading companies in its industry. The company is represented around the world with its own subsidiaries, DENTSPLY sister companies and dealers.

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Straumann is a global leader in implant and restoration dentistry and oral tissue regeneration. Having pioneered many of the most influential technologies and techniques in our field, we have a tradition of being open to advance dental regenerative, rehabilitation and prosthetic solutions. Straumann offers a full range of solution-based implant technology, combined with state-of-the-art CAD/CAM technology and optimal materials, with the international theme for implantology 2020. Straumann provides comprehensive training and education to the dental profession worldwide.

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Tel: +44 1865 776868
E-mail: rebecca.bartholomew@wiley.com
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THOMMEN MEDICAL AG

The company works with leading clinicians and laboratories worldwide in the development of products for oral implantology. THOMMEN MEDICAL AG is a high-tech company with an international presence in over 80 countries. The company is a member of the Swiss national association for dental technology and is in close cooperation with the University of Bern. THOMMEN MEDICAL AG is a member of the Swiss National Association for Dental Technology.

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Geistlich Biomaterials has been a leader in regenerative biomaterials for over 20 years and is a leading world market leader in the regeneration of bone and soft tissue in dentistry with Geistlich Bio-Oss® and Geistlich Bio-Guide®. Geistlich Bio-Oss® is a mineralized bovine bone allograft that increases bone formation in osseous defects. Geistlich Bio-Guide® is a multilayered collagen membrane for soft tissue regeneration. Geistlich is one of the leading companies in dental implants and surgical instruments for oral implantology.

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Materialise Dental is a world leader in 3D printed implant dentistry, offering clinicians a comprehensive solution for surgical and predictable implant treatment. Materialise offers a wide range of solutions for all stages of implant dentistry. 3D printed dental models are used by dental professionals and patients in more than 60 countries.

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BIOTECHNOLOGY INSTITUTE SL

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NeoSs is an innovative developer of implants, founded in 2000 by Professor Meredith and Fredrik Engman. NeoSs offers an implant system that simplifies the implant process and reduces surgical time. The NeoSs implant system is a revolutionary implant system that offers a wide range of implant diameters with only one set of surgical instruments and fewer prosthetic components.

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SYBRON IMPLANT SOLUTIONS

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ACE Surgical Supply Company has been providing dental surgical products to the dental profession for over 150 years. ACE Surgical supplies one of the most comprehensive product lines in the industry, which includes a wide range of packaged surgical solutions, non-instrumented and instrumented, plus a full line of surgical supplies. ACE Surgical was awarded the Supplier of the Year award in both 2007 and 2008. ACE Surgical has built a culture centered upon a commitment to quality and service.

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Email: christian.pichon@anthogyr.com
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ARTOS GMBH
ARTOS develops and markets computer-aided systems for the manufacture of dental implants and implant-supported prosthesis. The ARTOS software is available in different versions, which allow the planning of surgical procedures and the manufacturing of implants and prostheses. ARTOS is a growth-oriented company in the field of dental technology, which is expanding its international network of specialized partners worldwide. The company continues to provide a high level of service and quality to the dental sector.

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Email: walter.ens@artos.com
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BEGO Implant Systems has been the world’s leading manufacturer of dental implants since 1990. Dental implants "Made by BEGO" are top-quality German products which incorporate the latest technology and the highest level of reliability. BEGO Implant Systems has patented a perfect combination of safety, durability, aesthetics and the latest technology developed by ARTOSS. The system is designed to provide the best of both worlds: easy to use, effective and reliable. The company continues to provide a high level of service and quality to the dental sector.

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Tel: +41 76 808 95 95
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E-mail: ilemes@neodent.com.br
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Dr. Gerald NIZNICK
Tel: +49 9842 9369 0
E-mail: info@ziterion.com
Web site: www.ziterion.com

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**ZITERION GMBH**

Ziterion GmbH, research, development and marketing of dental implants.

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**ELOS AB**

Elos is an industrial group, which is organized in three business areas: Medical Technology and Precision Technology. The Group has a significant market position in some areas of these segments. The Group’s strategy is to lead in the development and manufacture of products for dental, hearing, spine, hearing aid and orthopaedic implants.

Erik BORKHOLM

+46 8 64 64 650

erik@elos-pinol.dk

www.elos-pinol.dk

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B129

**E.M.S. ELECTRO MEDICAL SYSTEMS**

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Mr. Alexandre VIEIRA

+41 (0)22 99 44 700

welcome@ems-ch.com

www.ems-company.com

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B106

**EUROTEKNIKA**

EUROTEKNIKA was founded in 1991 by two graduates and a master’s degree in dental surgery. The main area of the company’s activity is the development and production of dental equipment, which is manufactured in 20 countries through a network of 35 companies and authorized dealers. The company’s production facilities are located in Kladno, Czech Republic, where it is possible to develop, produce and control various products and continue with sales promotion. The Euroteknika is a French manufacturer specialized in the design, developing micromechanical devices of unequalled quality and crafted with Swiss precision; this is the result of our long-established (since 1991) experience in both implantology and crafted with Swiss precision; this is the result of our long-established (since 1991) experience in both implantology

Stelios KOKKALIARIS

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stelios.kokkaliaris@kavo.com

www.gendex-dental.com

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B128

**GENDEX/KAVO/IMAGING SCIENCES INT.**

Gendex, Kavo and Imaging Sciences International, part of KaVo Dental, have always been committed to innovation, development and leadership in the field of radiology. Our knowledge and experience in dental radiology, together with the worldwide sales and service networks, enables KaVo Dental to assist its dental professionals to meet the demands of their patients, offering the most advanced systems and the least complicated indications, playing an important role in the development process of this product.

Valerie J. ALBARRAN

+1 617 866 4656

valerie.albarran@kavo.com

www.gendex.com

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B16

**HAGER & MEISINGER GMBH**

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Mr. Hans DEBZ

+420 233 324 280

jakub.strnad@hager-meisinger.com

www.hager-meisinger.de

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B122

**RESISTA – ING.C.A. JASSOUGIO & C. SRL**

Resista is a European Association Dental Implantologists (BDZI EID) member. It is a company dedicated to training in implantology, with a scientific and clinical credibility based on 17 years experience that offers a complete line of dental implants meeting all the clinical needs in a single system organizer.

Carlo Alberto ISSOGLIO

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Info@resista.it

www.resista.it

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B107

**HAGER & MEISINGER GMBH**

Hager & Meisinger GMBH is a market leader in the production of manual milling machines, esthetic prosthetic components, and titanium structures and standardised procedures offer safe and controlled optimisation of the bone-implant interface – improves the implants’ secondary stability. The product line Bone Management offers the user a complete optimisation of the bone-implant interface – improves the implants’ secondary stability. The product line Bone Management offers the user a complete optimisation of the bone-implant interface – improves the implants’ secondary stability.

Mr. Hans DEBZ

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jakub.strnad@hager-meisinger.com

www.hager-meisinger.de

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B121

**LASAK**

LASAK was founded in 1966. The company specializes in the design, developing micromechanical devices of unequalled quality and crafted with Swiss precision; this is the result of our long-established (since 1991) experience in both implantology and crafted with Swiss precision; this is the result of our long-established (since 1991) experience in both implantology

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www.lasak.it

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B105

**TEKNIKA Training**

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**MAILLEFER INSTRUMENTS**

“Centuries-old heritage, Rotating Instruments for Implantology and Bone Surgery”

Maillefer is the globally leading manufacturer of innovative surgical and endodontic instruments and consumables. Maillefer products are used to perform more than 100,000 procedures daily, performed by leading clinicians throughout the world. Maillefer is the only company that is 100% dedicated to the surgical and endodontic markets. Maillefer is formed by clinicians for clinicians, including implant drills, burs, reamers, taps, osteotomes, trephines, craniotoms, high-speed instruments, screwdrivers, trephines, etc.

Maillefer is at the leading edge of manufacturing innovative surgical and endodontic instruments and is committed to being one of the most innovative dental manufacturers in the high precision tool market.

*info@maillefer-surgical.com*

**OSTEOGENICS BIOMEDICAL, INC.**

“Committed to Bringing Biologic Solutions to Bone Healing and Regeneration”

OSTEOGENICS BIOMEDICAL is a leader in the development of innovative guided tissue regeneration products for use in periodontics, oral & maxillofacial surgery and endodontics. Headquartered in Lubbock, Texas, USA, the company's innovation engine is its state-of-the-art research and development facility that combines the most advanced technology of today with the precision and expertise that can only come from the hands of industry pioneers.

OSTEOGENICS is a global leader in guided tissue regeneration products, including PTFE suture, collagen membranes, high-density PTFE membranes, and injectable PTFE membranes.

*info@osteogenics.com*

**OSSEOUS TECHNOLOGIES OF AMERICA**

“Scientific Knowledge & Cutting Edge Instruments”

Osseous Technologies is committed to continuously improving the dental and oral surgical products it manufactures. Osseous continues to create innovative products that provide predictable and dependable results. Osseous stays at the forefront of emerging technology, constantly working to improve existing products and create new, effective solutions that improve patient outcomes. Osseous is committed, as it has been since 1976, to providing our clients, including implantists, surgeons, orthodontists, periodontists, and oral/max surgeons, with superior products, superior service, and superior advice.

Osseous Technologies is headquartered in Irvine, California. The company is dedicated to producing the most advanced products available in the implants, guided tissue regeneration, and periodontics market.

*info@osseoustech.com*

**OSTEOSTELL AB**

“With the Ostell RFA, Osstell AB has developed and produces instruments that measure implant level stability using RFA Resonance Frequency Analysis. The Ostell RFA is a compact, wireless device that measures an implant’s resonance frequency. This provides valuable clinical data allowing implant stability to be estimated. As a result, this resonance frequency apparatus offers a fast, easy, and non-invasive technique for the dentist to evaluate bone quality.”

*info@oststell.com*

**PLANMECA OY**

“Leading manufacturers of high-tech dental equipment such as digital imaging products and dental units.”

Planmeca is the leading global dental manufacturer and dental radiologist’s preferred partner in the dental field. Planmeca is committed to continuously improving its products to provide predictable and dependable results. Planmeca is dedicated to producing the most advanced products available in the treatment of dental, endodontic, and facial radiology.

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**PD VITALOS CEMENT**
Production in over 100 countries all over the world. Prudential Denture B.A. has existed since 1988, an umbrella distribution network of agents, sales networks and dental imports. Thanks to the know-how, offer dental experiences and a wide range of products. The cement is manufactured in the USA. Quality at its best in materials, processing, reproduction, reliability, esthetics, and in dentistry, the best cement is available. PD Vitalos offers the right solution for every patient. The cement is designed for bone regrowth in dental surgery.

**W&H DENTALWERK BÜRMOOS GMBH**
Established in 1968, the company, with its headquarters in Bürmoos near Salzburg, is a leading supplier of high quality dental products, which are continuously improved. The range of products includes: endodontics, high frequency scalers, curing lights and electronic equipment applied to dentistry: osteotomes, implant bone regeneration cements which is a novel bone regeneration cement designed for bone regeneration in dental surgery.

**B112**

**SATELEC-ACTEON EQUIPMENT**
One of the founding members since the early 90s of the global implant dental group. Satelec is a world-renowned leader in the field of piezoelectric technology and represents a unique combination of technology, quality and service. The company markets a full range of piezoelectric generators and electronic equipment designed to develop innovative protocols.

**TEKKA**
TEKKA designs, develops, manufactures and markets medical implants and has a market in over 100 countries all over the world. The company offers high-quality products and services tailored to meet the needs of every practice. TEKKA offers a complete range of custom-made instruments, plus an in-house repair service.

**B113**

**Z-SYSTEMS AG**
The Swiss Z-Systems is specialized in high quality Zirconia implants. Z-SYSTEMS has 2 Z-SYSTEMS facilities, in Switzerland. The company also has a global distribution network with an international presence. The extensive range is further complemented by a department dedicated to new developments and an on-site research laboratory. Providing specific products for every specific clinical indication is the key to our success. Z-Look implants have 5 years of clinical experience, while Zro2TZP metal-free implants that provide excellent biological compatibility, superior soft-tissue results and great aesthetic results.

**B114**

**USTOMED INSTRUMENTE**
To ensure the success of every surgical procedure, the company produces high-quality tools for dentistry. The tools are manufactured at our own factory and are designed to meet the needs of every practice. The company offers a complete range of custom-made instruments, plus an in-house repair service.
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