Monaco 2009

Société Française de Parodontologie
et d’Implantologie Orale

Società Italiana di
Implantologia Osteointegrata

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

Guidelines for the practitioner

In collaboration with:

European Association for Osseointegration

www.eao.org
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 cities 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

**VERTICAL RIDGE AUGMENTATION**

**Chairperson:** Massimo SIMION, Italy

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

- **15:30-15:50**
  - Coffee-break

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

- **16:50-17:30**
  - DISCUSSION
  - Massimo SIMION

**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

- **15:30-15:50**
  - Coffee-break

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

- **16:50-17:30**
  - DISCUSSION
  - Philippe BOUCHARD

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

Speakers cv p. 35

Speakers cv p. 37
WEDNESDAY AFTERNOON

PRE-Congress Course 3

14:30 - 17:30

Maxillary Sinus Grafting:
State of the Art
Chairperson: Tiziano Testori, Italy

14:30 - 17:30

Full Arch Rehabilitation:
Fixed Bridges vs Overdentures
Chairperson: German Gallucci, USA

14:30 PC05*

Medical Aspects: Sinus Pathology. Contraindication
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 COIR issue of September 2009.

Speakers cv p. 38
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

09:00 PL13*  Management of complications in sinus elevation
             Zvi ARTZI, Israel

09:30 PL14  Management of complications in the major maxillary
            reconstructions by extraoral donor sites
            Lars RASMUSSON, Sweden

10:00-10:45  Coffee-break

10:45 PL15  Clinical considerations and management of peri-implantitis
            Søren SCHOU, Denmark

11:15 PL16  Prosthetic complications: biomechanical considerations
            Franck RENOUARD, France

11:45-12:15  DISCUSSION
             Friedrich W. NEUKAM and Georg WATZEK

Speakers cr p. 44 - 45

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

09:00 - 12:15

IMPLANTOLOGY AND MEDECINE

Chairperson: Fouad KHOURY, Germany
Georg MAILATH-POKORY, Austria

09:00 MC30* ■ Medical guidelines and precautions in the surgical approach to immunodefficient 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-POKORY

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

ROOM NIJINSKI
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. (CAMARORE - 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
KOKOVIC V**, ANDRIC M, JURISIC M. (BELGRADE - SERBIA)

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?

11:15 026  ■ Interaction of different bone graft materials with bone marrow stromal cells, in vivo and in vitro studies
TOSCHI F**, CONSERVA E, MASTROGIACOMO M, PIRA P, CANDEZZA 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, SPEEHER C, ECCLESON S, STEINHAUER E, WIELAND M, KIMHA, MILZ S. (MUNICH - GERMANY)

* The figures refer to the abstracts you will find in the CDIR 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

Speakers cv p. 50 - 51

* The figures refer to the abstracts you will find in the COIR issue of September
### Clinical Research Competition

**Chairpersons:** Hendrik TERHEYDEN, Germany  
Philippe KHAYAT, France

<table>
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<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker(s)</th>
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| 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. (GÄVLE - 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  
POMMER B.**, 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, STELLINGMA K., RAGHOEBAR G. (GRONINGEN – THE NETHERLANDS) |
| 16:35 | 018 | The effect of surface topography of screw-shaped titanium implants in humans on clinical and radiographic parameters. A 12 year prospective study  

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* The figures refer to the abstracts you will find in the CDR issue of September.  ** Presenters.
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
CAMULLO 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.**, MORTON D., HART C., WITTNEBEN J. G., RUSKIN 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., MHTATOVIC I., SCHAER A., BECKER J. (DÜSSELDORF - 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
WEINLÄNDER M. **, LEKOVIC V., KREINMAIER G., SCHICKER S. (VIENNA - AUSTRIA)

16:15 037
Sinus lift procedure in presence of mucosal cyst: a clinical prospective study
BERETTA M. **, CICCUI M., GROSO G. B., 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. **, CHECCHI L., MARCETTI C., PELLEGRINO G., LIZIO G., ESPOSITO M. (BOLOGNA - ITALY)

Speakers cr p. 54 - 55

* The figures refer to the abstracts you will find in the COIR issue 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: where 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

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

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13:45 - 14:00

**RESEARCH AWARD CEREMONY**

Chairperson: Christoph HÄMMERLE, Switzerland  p. 60
Basic Research Competition

08:30 - 12:20

Chairpersons: Marc QUIRYNE, Belgium
               David HÄMMERLE, Ireland

08:30 001
Tomographic and immunohistochemical study on onlay grafts remodeling. Ilac crest versus calvarial bone
FARIA P. E., PEDROSA JR W. F., OKAMOTO R., XAVIER S. P., SALATA L. A.**
(RIBEIRAO PRETO - 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
LEEJUNGBO K.**, CHY 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
BUSSLESCHE K. D.**, FITZ L. C., TANGI S., BERNHART T., GRIBER R., WATZEK G.
(VIENNA - AUSTRIA)

10:10 006
Evidence of revascularization and cell colonization of anorganic bovine bone
GALINDO-MORENO P. **, PADIAL-MOLINA M., AVILA 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
RETZER M. **, DONOS N. (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., GöRLACH J., ÜBERSACK L.,
COCHRAN D. L., HAMMERLE C. H. (ZURICH - SWITZERLAND)

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

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

13:45 - 14:00

RESEARCH AWARD CEREMONY

Chairperson: Christoph HÄMMERLE, Switzerland
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 URGEI, Spain

15:15-15:45
Coffee-break

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 extractions, the alveolar crest of the edentulous site will undergo both quantitative and qualitative changes. Different treatment approaches have been advocated to prevent or reverse the absorption and contour of the ridge. This presentation will address preoperative procedures in extraction sockets for implants, bone graft materials, and barrier membranes.

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

New exciting scientific insights with high practical relevance on how to treat Extraction Sockets can be expected.

• Treatment of Peri-implant Infections – Considerations for the Aesthetic Zone
  PD Dr. Frank Schwarz, Germany

Peri-implantitis is a chronic peri-implant mucositis and is defined as a series of inflammatory reactions affecting the tissues around an osseointegrated implant in function, resulting in a loss of the supporting osseous bone. Non-surgical treatment approaches failed to promote the re-osseointegration at exposed implant surfaces, and surgery may be required in order to enable the re-osseointegration. This might be achieved either with re-entry surgery or with bone augmentation procedures.

The present lecture will provide an evidence-based review on the currently available procedures for the treatment of peri-implantitis lesions. Particular emphasis will be laid on the clinical application of surgical regenerative procedures in the aesthetic zone.
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 traditional method of layout planning is unquestionably and CAD/CAM solutions superimpose similar risk-based prosthesis in terms of timing, precision and quality without compromising esthetics. This lecture will discuss the decision tree for guided surgery and point out when to choose 2D diagnostic and when to choose 3D diagnostic and non- or semi-guided treatment. It will show the advantages in predictability and fit of CAD/CAM infrastructures.
  Dr. Fred Bergmann, Viernheim, Germany

• Indexed vs. non-indexed implant prosthetics – two options, one tissue care concept.
  22 years of evidence have proven the success of the tissue care concept. ANKYLOS ON 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 and disadvantages.
  Dr. Diemar Weng, Hamburg, Germany

• 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 impact 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 insertion 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.
  David Garber DDS, Atlanta, USA

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. First study results presented at the EAO Congress 2008 in Warsaw.

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 bridgeworks and immediate loading: Why Thommen Medical?
  Dr. Jean-Nicolas Hasson,
  Private Practitioner Mulhouse, France

Simultaneous translation into French will be provided

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 Moy

• 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. Tomes Albrektsson, Sweden

Closing discussion
Prof. Tomes 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 Devapanch, MD, DDS

COMPATIBLE

The Simplant Compatibility is all about choices, your choices. You choose which implants you place, which manner you use, what type of surgery is required. Whether you want to raise a flap, use the existing teeth as support or present 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 the Simplant system.

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 knowledge continues to lead this exciting industry.

Scott D. Ganz, DMD

On Air: When Science is at the Service of the Clinician

Join five experienced clinicians, researchers, presenters:

Dr Bernd Frilling
Dr Patrick Palacci
Dr Giovanni Polizzi
Dr Marc Quirynen
Mithridade Davarpanah

as they debate over questions like:

• Does the implant surface influence the clinical outcome for our patients?
• How can NobelBiocare™ help practitioners in their daily work?
• What are the latest developments in the NobelBiocare™ 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 NobelGuide™?
• Why does NobelActive™ have advantages in the aesthetic zone?
• What benefits does NobelActive™ offer over other bone-level implants?
• In which clinical situations is implant stability necessary for immediate fixation?
• 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 00 48

SIMPLEx

Integrating 3D Digital Dentistry into your practice – simple, compatible, unique

3D Digital Dentistry becomes a reality with the Simplant Compatibility concept and business model. It allows you to integrate the finest 3D planning and surgical tools into your practice without changing the implant brands and equipment you already know and use. Treatment plans become more precise, surgeries stress-free, surgical outcomes predictable and more aesthetic. Learn to increase your patient acceptance with a simple, cost-effective and uniquely compatible tool. State-of-the-art experts with years of experience with this technology will give a didactic overview of its possibilities.

Scott D. Ganz, DMD

On Air: When Science is at the Service of the Clinician

Join five experienced clinicians, researchers, presenters:

Dr Bernd Frilling
Dr Patrick Palacci
Dr Giovanni Polizzi
Dr Marc Quirynen
Mithridade Davarpanah

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• Does the implant surface influence the clinical outcome for our patients?
• How can NobelBiocare™ help practitioners in their daily work?
• What are the latest developments in the NobelBiocare™ 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 NobelGuide™?
• Why does NobelActive™ have advantages in the aesthetic zone?
• What benefits does NobelActive™ offer over other bone-level implants?
• In which clinical situations is implant stability necessary for immediate fixation?
• 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.

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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
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Blood contamination of surgical tools and protective barriers during implant placement surgery
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A 3 year prospective multi-center study of marginal bone level and soft tissue health of a one-piece implant. A report of preliminary results

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The effects of loading time on osseointegration and new bone formation around dental implants: a histological and histomorphometrical study in dogs

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Evaluation of the fate of anorganic bovine bone fragments (bio-coll) applied for sinus augmentation by histochernical and cytological methods with special references to the interaction with osteoclasts

Porous titanium granules and emd in rabbit tibia critical size peri-implant osseous defects

Osteoinductive potential of bone-marrow derived osteoblasts on titanium and zirconium oxide surface

Intraoperative factors affecting onlay block graft resorption

Is periosteum prevention helpful during guided bone defect regeneration? Experimental studies of cranial bone osseous differentiation using local bmp-2/4 gene transfer and peg-membranes

Histological evaluation of osseous neoformation with bone grafting: comparison with the bone grafting method

Impact of hydrophilic implant surfaces to support osteoblast on titanium and zirconium oxide surface

Bone augmentation in rabbit calvariae: a comparative histopathologic animal study

Bone augmentation with a synthetic biphasic calcium phosphate: long-term follow-up data

Implant survival following vertical and horizontal bone augmentation with a synthetic biphasic calcium phosphate: long-term follow-up data

Small intestinal submucosa (sis) and titanium frame membranes: a new alternative for guided bone regeneration (gbg). A subclinical study in dogs

Relapse and overcorrection in alveolar distraction osteogenesis for dental implant of mandible

Preclinical animal model for de novo bone formation in human maxillary sinus

Histological evaluation of osseous neoformation following sinus lift using intra-oral radiography

Evaluation of a new three-dimensional measurement technique to define bone volume after sinus augmentation

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Sinus augmentation using pre-hydrated cortical cancellous bone in sinus augmentation with the lateral approach: no grafting procedure versus anorganic bone placement. Preliminary histological and clinical outcomes of a randomized controlled clinical trial

Evaluation of the fate of anorganic bovine bone fragments (bio-coll) applied for sinus augmentation by histochernical and cytological methods with special references to the interaction with osteoclasts

Preclinical animal model for de novo bone formation in human maxillary sinus

Histological evaluation of osseous neoformation following sinus lift using intra-oral radiography
Reconstruction of the alveolar ridge by means of a titanium mesh and particulate autogenous bone grafts at the point of bone defect with radiographic evaluation

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Flagless transalveolar osteotomy sinus floor elevation with simultaneous implantation without graft material: secondary implant stability

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Histological analysis of anorganic bovine bone in augmentation procedures: a systematic review of prospective studies

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Multidisciplinary treatment solutions by the help of dental implants in a maxillofacial traumatized patient with an excessive bone loss: case report

SEZER B., GUNBAY T., SARACOGLU A. (IZMIR - TURKEY)

The osteoinductive effects of rhBMP-2 coated pure titanium implant surfaces

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Bone quality of the particulate cancellous bone and marrow reconstructed mandible

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The use of recombinant human bone morphogenic proteins in maxillary sinus augmentation. A case report

PATEL R. **, LOZADA J., KAN J., KLEINMAN A. (LOMA LINDA - USA)

Complication management of early barrier exposure associated with implant placement in esthetic zone

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Genes expression during osseointegration after various surface-treated dental implant installation


Micro-c-t based quantification of bone regeneration achieved with beta-tcp/collagen composite

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Histologic study of absorbable allogeneic spong on healing of a fresh extraction socket in the mongrel dog


Bone formation after sinus floor elevation using straumann® boneceramic with or without autogenous bone in humans

KIRMEIER R. **, PAYER M., CLAR V., BOSSHARDT D., WEGSCHEIDER W., JAKSE N. (GRAZ - AUSTRIA)

Bone formation after sinus floor elevation using straumann® boneceramic with or without autogenous bone in humans

KIRMEIER R. **, PAYER M., CLAR V., BOSSHARDT D., WEGSCHEIDER W., JAKSE N. (GRAZ - AUSTRIA)

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Lateral augmentation using bcp and collagen membranes: morphometric and histomorphometric results

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Preservation of the post-extraction alveolar ridge in the molar maxillary areas in humans: histological and Histomorphometrical evaluations

SULLAMAC C. **, SULLAMAC, SULLAMAC B., SULLAMAC G. (BARI, ITALY)

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Genes expression during osseointegration after various surface-treated dental implant installation


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Rationale and clinical outcome of prefabricated anatomical shaped prosthetic components of 3r2 for the posterior region - primarily results of a prospective randomized clinical trial

Bi-ebota, Bi-10, rankl and opg levels in peri-implant buccal fluid

Xive® implants in the posterior maxilla after a maximum observation time of five years

Immediate loading with overdenture in the edentulous jaws: long-term results

Surival rates of super-wide implants (6-8mm in diameter)

Prefabricated tapered crowns as retainer for implant suprastructure: prosthetic treatment protocol, cost-effectiveness, general satisfaction, marginal soft-tissue response and hygiene ability. 3-years results of a prospective clinical trial

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Immediate occlusal loading of the mandible. Branemark novum system® a retrospective 8 year follow up study on 70 consecutive patients

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Wednesday, September 30, 2009  14:30 - 17:30

VERTICAL RIDGE AUGMENTATION

Program Chair: Massimo SIMION

The presentation will introduce Digitally Guided Bone Augmentation (DGBA™), a state-of-the-art approach for the objective diagnosis, definition and surgical implementation of restoration-specific three-dimensional soft and hard tissue augmentations for optimal aesthetic zone reconstruction.

The DGBA concept of reverse-engineering soft and hard tissue augmentation for optimal implant placement and restoration is the 21st century visualization of restorative advice into implantology. Cone beam CT is the digital guide to the restorative zone in implant dentistry.

The presentation will review patient selection criteria, describe the technique for vertical augmentation with GBR, and relate for the dentists who have a single missing tooth, multiple missing teeth, or have vertical defects in the posterior maxilla only and were treated for vertical augmentation. Long-term results will be presented.

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Pre-Congress Course 2
POST EXTRACTION SITES AND PERI IMPLANT DEFECTS MANAGEMENT

CHAIRPERSON

Philippe BOUCHARD
Ph. D. Bouchard is full Professor and Chairman of the Department of Periodontology, UFR d’Odontologie, Denis Diderot - Paris 7 University in France. He has received his Dental Degree in 1974. He is also responsible for the Dental Unit of the Pathology - Oral Surgery and Periodontal Surgery Clinical Unit at the Hôpital Édouard Herriot, University Hospital of Lyon, France. He has been clinical Professor at Loma Linda University (USA), and is currently visiting Professor at USC (California). Philippe Bouchard has published more than 150 articles, and has performed researches and studies in periodontology and implantology. He has been a leading speaker in many congresses in the world. He has received several awards for his presentations in congresses in the world. Philippe Bouchard has great interest in research questions relating to the systemic effects of periodontitis, aesthetics, and decision making in periodontology and dental implant therapies. Ph. D. Bouchard has published in peer-reviewed journals and wrote several chapters for textbooks in periodontology.

Speakers:

Philippe BOUCHARD

Tidu MANKOO

Egon EUWE

Wednesday, September 30, 2009

14:30 - 17:30

Wednesday Afternoon
Pre-Congress Course 3
MAXILLARY SINUS GRAFTING: STATE OF THE ART

Tiziano TESTORI
Philine HERMAN
Franck RENOUARD

Wednesday, September 30, 2009 14:30 - 17:30

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

Implant rehabilitation has become cornerstone of 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 topics, 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.
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 rational 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 type 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 perimplantology and around-implant prosthetics. Specialisation in oral rehabilitation, periodontology, implantology, and maxillofacial prosthetics. Board Member of the German Society of Implantology (DSI) and member of the maxillofacial prosthodontics of the DGI (German Dental Association). Lecturer for the Academy of Practice and Science (APW) with part-time lecture for the University of Cologne and private professional training in the academy program: Implant-prosthetics and Perio-prosthetics at the University Hospital Charité of the Humboldt-University Berlin. Guest lecturer since June 2005 in the University Hospital Ulm, Dept. for Oral Surgery. Visiting Professor at the Dental University Niigata, Japan since June 2004. Guest lecturer since May 2006 at the Brookes University Berlin. Lecturing internationally and multiple publications in all fields of above specialisations.

Fixed bridge and Toronto
Full arch fixed restorations in edentulous maxilla and mandible. Adequate and accessible fixed restorations do not only satisfy the aesthetic needs, but also from compensated function, esthetics and life quality, implant prosthodontics have been used to solve these problems. Mostly by supporting a removable or non-removable appliances. Karl-Ludwig does not limit the treatment options to a single implant. More than 25 year of experience and knowledge in implant prostodontics, concepts and treatment options in diagnosis and plan the treatment concept. A predictable step-by-step treatment concept! The following criteria are most important:
1. Type of implant and its bone level
2. Amount of bone resorption
3. Type and quantity of bone augmentation
4. Soft tissue management
5. Number and distribution of implants
6. Type of prosthesis
7. Method of fixation
8. Esthetics
9. Function and life quality
10. Final restoration

A selection of cases from our clinic will be presented. The above mentioned criteria will be focused on and discussed in detail.
10 YEARS OF EXPERIENCE IN

Elevation of the maxillary sinus in combination with placement of dental implants was introduced about 30 years ago. Since elevation is a procedure with a high success rate and a high predictability of the intended results, while the incidence of possible risks and surgical complications are low. 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, deproteinized bovine bone, and β-tricalcium phosphate for sinus augmentation.
< Jaime A. GIL
PROFESSOR and CHAIRMAN OF PROSTHODONTICS, University of the Basque Country (Bilbao – Spain)
President of the INTERNATIONAL COLLEGE OF PROSTHODONTICS
Past-President of the EUROPEAN ACADEMY OF ESTHETIC DENTISTRY
Past-President of INTERNATIONAL COLLEGE OF DENTISTS (European Section).
Board Member of the EUROPEAN ASSOCIATION FOR OSSOINTEGRATION.

Member of the following International Organizations:
- European Association for Osseointegration
- European Academy of Esthetic Dentistry
- American Academy of Restorative Dentistry
- American Academy of Fixed Prosthodontics

Editorial activity:
- Editor-in-chief of the Spanish version of the European Journal of Esthetic Dentistry.
- Co-Director of the Spanish version of the International Journal of Periodontics and Restorative Dentistry.
- Advisory Board of the Journal of Esthetic and Restorative Dentistry.

Marco Rosa graduated as 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 Orthodontists. He works in private practice, limited to Orthodontists, in Treviso, Northern Italy and he is involved in the teaching program at Insubria University in Varese – Italy.

10 Years of Experience in Case of Agenesia 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.
Thursday, October 1, 2009 14:30 - 17:00

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

CHAIRPERSON

Søren SCHOU
Dr. Søren Schou is Professor and Chairman at the Department of Oral and Maxillofacial Surgery and Oral Pathology, School of Odontology, University of Aarhus, Denmark. He gained his DDS in 1988, PhD in 1993, board certification 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. Since 2007, Professor Schou has published in national and international scientific journals, focusing on oral and maxillofacial surgery and oral implantology, with special emphasis on peri-implantitis. He is secretary general of the European Association for Osseointegration and associate editor of European Journal of Oral Implantology. His current research interests are oral implantology, including implant treatment of individuals with congenitally missing teeth and periodontitis-associated tooth loss, as well as bone biology, bone regeneration, and surgical endodontics.

SPARKER

Joseph KAN
Dr. Joseph Kan completed his residency 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.

- Soft and hard tissue integration of dental implants.
- Surgical management of tissue deficiencies.
- Epidemiology and systemic impact of periodontal diseases.

Topics of Research:

- Post-graduate in Implant Surgery, 1996.
- 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, University of Liège, Belgium
- Head of the post-graduate program in Periodontology, University of Liège, Belgium
- Head of the department of Periodontology – Dental Surgery, University of Liège
- Head of the post-graduate program in Implantology, University of Liège, Belgium
- Head of the Department of Periodontology/Implantology, University of Liège

Main topics of teaching:

- Implant surgery, 3rd degree in Dental Science
- Dental Surgery, 1st, 2nd and 3rd degree in Dental Science
- Implant surgery, 4th degree in Dental Science

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 diagnosis and treatment planning, surgical and prosthetic management of soft and hard tissue to achieve anterior implant esthetics. Long term followed up on immediate loading of anterior single tooth will be discussed.

Eric ROMPEN
Professor of Periodontology; dental surgery; University of Liège, Belgium

- Periodontology, 1st, 2nd and 3rd degree in Dental Science
- Dental Surgery, 1st, 2nd and 3rd degree in Dental Science

- Implant surgery, 4th degree in Dental Science

Qualifications:

- Head of the department of Periodontology – Dental Surgery, University of Liège
- Head of the post-graduate program in Implantology, University of Liège, Belgium
- Head of the post-graduate program in Periodontology, University of Liège, Belgium
- Head of the Department of Periodontology/Implantology, University of Liège
- Head of the department of Periodontology – Dental Surgery, University of Liège
- Head of the post-graduate program in Implantology, University of Liège, Belgium
- Head of the Department of Periodontology/Implantology, University of Liège

Main topics of teaching:

- Implant surgery, 3rd degree in Dental Science
- Dental Surgery, 1st, 2nd and 3rd degree in Dental Science
- Implant surgery, 4th degree in Dental Science

Management of extraction sockets in the aesthetic zone: 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.
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 Periodontics.

In 2002 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.

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.
Plenary Session 2
MANAGEMENT OF COMPLICATIONS

> Friedrich W. NEUKAM

1976 Dental degree and dental doctoral thesis ("Dr. med. dent./DDS") on “Investigation into the changes of tooth contacts in maximum intercuspation in patients wearing partial and full dentures”, Mainz.
1984 Medical degree.
1985 Medical thesis ("Dr. med./MD") on "Anatomical studies in the fascicular structure of individual brain nerves as a basis of a differentiated re/nerv nerve suture", Hannover.
1990 Habilitation (PhD) in Oral and Maxillofacial Surgery, Hannover Medical School on the thesis entitled for the specialty of oral and maxillofacial surgery at Hannover Medical School.
Title of the thesis: "Experimental and clinical investigations as to osteoplasty in combination with endosseous implants and bone graft materials in the oral and maxillofacial region."
April 2000 Elected President of the German Association of Oral Implantology.
September 2000 Elected General Secretary of the EAO.
February 2001 Awarded honorary Professorship at Moscow University.
October 2001 Elected Vice Dean of the Medical Faculty at Erlangen-Nurenburg University.
October 2003 Appointed Editorial Board member to the Journal Oral Science International.
Period 2004-2008 President (EAO).

> Zvi ARTZI

Zvi Artzi is an Associate Professor and the Director of Graduate Periodontics at the School of Dental Medicine, Tel Aviv University, Israel. He is also the Chairman of the Graduate Study Committee. Zvi completed his undergraduate studies at the Faculty of Dental Medicine, Hadassah Medical Center, the Hebrew University, Jerusalem, and in 1984 received his certificate in Periodontology at Tufts University, Boston, Massachusetts.
Zvi is an active member of the European Federation of Periodontology (EFP), the European Association for Osseointegration (EAO), the American Academy of Periodontology (AAP), the Academy of Osseointegration (AO), the International Association of Dental Research (IADR), and the past-president of the Israel Periodontal Society.
Zvi has published over 80 articles in peer-reviewed journals. His research topics are related to the quality of regeneration and osseointegration, bone substitutes and advancing surgical modalities.

Spokespeople and presentations:

**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/or major Schneiderian membrane perforations can be predictably resolved. Other complications such as inadequate volume augmentation, or insufficient bone hardness in the 3-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.

> Lars RASMUSSON

Lars Rasmusson, DMD, PhD
Currently professor of maxillofacial surgery and head of department of oral and maxillofacial surgery, the Sahlgrenska Academy at University of Gothenburg.

Management of complications in the major maxillary reconstructions by extraoral donor sites

Severe resorption of the maxillofacial skeleton often involves reconstruction with autogenous bone grafts. This lecture will cover donor site morbidity, complications and how to avoid them.
Prevention, and management of peri-implantitis will be discussed in detail. Furthermore, the knowledge about the diagnosis, including pathogenesis and epidemiology, will focus initially on the present knowledge about important clinical characteristics of peri-implantitis, which are not directly applicable to implants. The lecture will be based on both, long clinical experience and literature review, the goal of this lecture, is to identify 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.

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 important clinical characteristics of peri-implantitis, including pathogenesis and epidemiology. Furthermore, the knowledge about the diagnosis, prevention, and management of peri-implantitis will be discussed in detail.
**Master Classes**

**IMPLANTOLOGY AND MEDICINE**

**SPEAKER**

**Fouad KHOURY**

- Born in Maghabouch, Lebanon
- 1976: DMD, St. Joseph University, Beirut
- 1976-1979: Department of Oral & Maxillofacial Surgery of the University of Freiburg, Germany
- 1979-1980: Assistant Professor at the Department of Oral & Maxillofacial Surgery of the University of Mannheim, Germany
- 1986: Diploma in Oral Surgery
- 1989: Doctorate in Dental Science
- 1989: Habilitation
- 1989-1994: Associated Professor at the Department of Oral & Maxillofacial Surgery of the University of Munich, Germany
- Since 1994: Professor and Head of Department of Oral & Maxillofacial Surgery of the University of Munich, Germany and Chairman of the Rheinbalk

**CHAIRPERSON**

- Fouad KHOURY
- Massimo GALLI
- Frank Peter STRIETZEL

**Case study.** Severe immunodeficiency coexists, as demonstrated in our study of patients with HIV/AIDS. On the other hand, it appears that the success rate of dental treatments is significantly lower in immunosuppressed patients compared to immunocompetent patients. This is particularly true for procedures involving implants, as demonstrated in our study of patients who underwent implant-supported prostheses. A better knowledge of the guidelines regarding the surgical approach to patients with HIV/AIDS is needed to prevent the spread of opportunistic infections.

**SPEAKER**

**Georg MAILATH-POKORNY**

- Born in Vienna, Austria, 1951
- 1978-1988: Assistant Professor at the Department of Oral & Maxillofacial Surgery of the University of Freiburg, Germany
- 1988: Habilitation
- 1988: Professor of Oral Surgery, University of Vienna
- 1991: Director of the Unit of Infectious Diseases at Luigi Sacco' Hospital - Milan
- 1996: Director of the PhD Course in Infectious Diseases at the University of Milan
- 1998: Professor of the University of Vienna
- 2000: President of the Austrian Society for Oral Surgery and Implantology
- 2004: Opening of the “Academy of Oral Implantology” in Vienna
- 2003: President of the Austrian Society for Oral Surgery and Implantology
- 2002: President of the Austrian Society for Oral Surgery and Implantology
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- 1952: President of the Austrian Society for Oral Surgery and Implantology
- 1951: President of the Austrian Society for Oral Surgery and Implantology

**Immunologic deficiencies: implantology in immunodeficient patients – routine or expensive?**

In the mid-1990s consensus was reached that – apart from later stages of HIV infection – no modification of routine dental treatment is recommended in HIV-positive patients. With introduction of HAART, the modification of routine dental treatment has been reconsidered. The aim of this presentation is to discuss the current evidence and guideline recommendations regarding implantology and dentistry in HIV-positive patients. The question arises if these patients would benefit from implant-supported prostheses. The outcome of several case reports published in the late 1990s and early 2000s presented encouraging results. Systematic evaluation of the evidence on the topic remains challenging. Although data from the literature can be used to draw conclusions on a high evidence level, implantation in HIV-positive patients might be considered if the patient’s condition is stable and the treatment of the individual case is feasible. High model overcuts, surgical guide using CBCT scans, and a high level of competence in surgical and prosthetic dental treatments are necessary to provide an implant-supported treatment at low risk level with evidence-based protocols. In conclusion, prospective studies with the patient’s condition considered are essential.
Pain management for chronic post-operative pain

An early and possibly overlooked aspect of postoperative care is the management of chronic pain. Chronic pain is a complex condition that can arise from various causes, including surgery, trauma, and chronic disease. Effective management of chronic pain requires a multidisciplinary approach that addresses both the physical and psychological aspects of pain.

Chronic post-operative pain can be classified into different types, including nerve damage, surgical site pain, and muscle pain. Each type requires a specific management strategy. For example, nerve damage can be managed with nerve blocks, while surgical site pain can be managed with traditional analgesics.

The management of chronic post-operative pain should involve a combination of pharmacological and non-pharmacological interventions. Pharmacological interventions include the use of opioids, non-steroidal anti-inflammatory drugs (NSAIDs), and adjuvant analgesics. Non-pharmacological interventions include physical therapy, psychological interventions, and mechanical interventions such as heat and cold.

The role of the anesthesiologist in the management of chronic post-operative pain is crucial. Anesthesiologists are trained to recognize and manage pain, and their expertise in pain management can help in developing effective pain control strategies.

Pain control in oral implant surgery

Pain control remains a main objective in the unfolding of any surgical procedure. Pain control and management is a challenging issue in the management of oral implant surgery. The results and outcomes are often seen as a deciding factor in the success of any surgical procedure. Pain control and management are crucial in the management of oral implant surgery.

An early and potentially overlooked aspect of oral implant surgery is the management of post-operative pain. Post-operative pain can be classified into different types, including oral cavity pain, surgical site pain, and muscle pain. Each type requires a specific management strategy. For example, oral cavity pain can be managed with nerve blocks, while surgical site pain can be managed with traditional analgesics.

The management of post-operative pain should involve a combination of pharmacological and non-pharmacological interventions. Pharmacological interventions include the use of opioids, non-steroidal anti-inflammatory drugs (NSAIDs), and adjuvant analgesics. Non-pharmacological interventions include physical therapy, psychological interventions, and mechanical interventions such as heat and cold.

In conclusion, effective pain control and management are crucial in the management of oral implant surgery. Anesthesiologists play a vital role in the management of post-operative pain in oral implant surgery.
German GALLUCCI

Dr. 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).

**Short Oral Communications 1**

**PRESENTER**

> **S. BECKER**

019 Life quality after iliac crest bone graft harvesting over an anterior vs. Posterior approach

**PRESENTER**

> **A. BARONE**

020 Crestal bone remodeling around implants placed in fresh extraction sockets

**PRESENTER**

> **G. TELLEMAN**

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

**PRESENTER**

> **V. KOKOVIC**

022 Comparative clinical analyses of immediate and early loaded sla and slactive straumann® ti™ implants

**PRESENTER**

> **R. GLAUSER**

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

**PRESENTER**

> **R. NOELKEN**

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

Joan Pi URGEll
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.).
Lundt (Sweden), 1985 Certificate in Osseointegration Surgical Training.
University of Lundt (Sweden).
Los Angeles Training in Osseointegration at the University of California.
University of Barcelona.
Director of Branemark Osseointegration Center.
Barcelona.

PRESENTER

B. STADLINGER
025 Agreement of 2d histomorphometry with 3d µct measurement?

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

J. M. NAVARRO JR.
027 Early results of 409 consecutively placed novel tapered, variable thread design implants.

P. MARKER
028 Osseointegrated implant rehabilitation in previously irradiated jaws without the use of adjunctive hyperbaric oxygen treatment.

M. GAHLERT
029 Osseointegration of zirconia dental implants. A biomechanical and histomorphometrical study in mini pig.
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. Member of the European Federation of Periodontology and Oral Implantology. 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.
Chairperson: Bruno Fissore


Professional: President of the College of Dental Surgeons of the Principality of Monaco since 1986. Associate Member, European Academy of Esthetic Dentistry since 1992. Active Member, American Academy of Osseointegration since 1992. Member: Dental Research Group on Dental Medicine, University of Geneva, Geneva, Switzerland. Active member of the Academy of Osseointegration (AO) - USA, and European Academy of Osseointegration (EAO).

Professional: Private practice in the Principality of Monaco from July 1988 to present.


Assessment: Active member of the Academy of Osseointegration (AO) - USA, and European Academy of Osseointegration (EAO).

Published works: Dr. Gallucci actively participates in clinical research related to prosthodontics and immediate loading in implant therapies. His work has been published in international peerreviewed 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). His work has been published in International peer-reviewed journals and is an editorial board member for the Journal of Prosthetic Dentistry.

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 University of Geneva, Switzerland. Dr. Gallucci actively participates in clinical research related to prosthodontics 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".

His work has been published in International peer-reviewed journals and is an editorial board member for the Journal of Prosthetic Dentistry. Dr. Gallucci actively participates in clinical research related to prosthodontics 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".

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Clinical Research Competition

> Hendrik TERHEYDEN

Hendrik Terheyden, Professor DDS 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
1993-1995 Postgraduate training and specialist in Oral Surgery
1999 Habilitation University of Kiel
2000-2007 Senior lecturer and consultant at the Kiel University Hospital
2007 Chairmen 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

> 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 intraoral reference points and cad/cam technology. A clinical trial and an in vitro study
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.

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


CHAIRPERSON

> Philippe G. KHAYAT

Dr Khayat received his dental degree from the University of Paris in 1976. In 1986, he graduated from the University of Washington where he received his Certificate in Prosthodontics and his Master of Science in Dentistry (MSD). He is an Affiliate Assistant Professor at the University of Washington (Department of Restorative Dentistry). Dr Khayat is also a 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.

PRESENTER

> B. POMMER

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

> W. SLOT

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

> L. DEN HARTOG

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

> M. VROOM

**Short Oral Communications 2**

**Chairperson**

Tiziano TESTORI

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 (Head: Robert E. Marx, DDS).

Head of the Implantology and Oral Rehabilitation Department at the Odontostomatology Clinic (Chairman: Prof. R. L. Weinstein), I.R.C.C.S. Galeazzi Orthopaedic Institute, 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 (EFOSS).


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


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**Friday Afternoon**

**Short Oral Communications 2**

**030**

J. P. ALBOUY

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

**031**

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

**032**

A. GAGGL

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

**033**

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

**034**

D. FERRARI

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

**035**

G. AVILA

Influence of anatomic variability in sinus grafting outcomes
Dr Gérard ZUCK obtained his DDS degree at Marseille University, France, in 1976. 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.

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**FRIDAY AFTERNOON**

**PRESENTER**

> M. WEINLÄNDER

036  Gingivomorphometry – esthetic evaluation of the periimplant mucogingival complex. A new method for collection and measurement of standardized and reproducible data in oral photography

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**PRESENTER**

> M. BERETTA

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

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**PRESENTER**

> N. TYMSTRA

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

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**PRESENTER**

> P. FELICE

039  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
Degree of Medicine and Surgery at the University of Milan in 1974. Doctor of Odontology (Periodontology) and Doctor of Odontology and Dental Prosthodontics at the University of Milan in 1982. Professor and Chairman of the Department of Periodontology and Implant Restoration at the Dental School of the University of Milan.
Member of the Board of the European Association for Osseointegration (EAO) 1996 - 2005. President of EAO for the years 2001-2003 and Immediate Past President for years 2004/2005. Member of the Council of EAO since the year 2005 Founder of the Italian Society of Osseointegration.
Active Member and Vice-President of the Italian Society of Periodontology (ISP) for the years 2003-2005. Referee of the Journal of Clinical Periodontology, Journal of Periodontology, International Journal of Periodontics and Restorative Dentistry. He published several scientific papers and is international lecturer about the topic Periodontology, Osseointegration and Bone Regeneration.

> 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 his contributions have been recognized with the Gold Medal and The Master Clinician Awards. He is a Professor of Periodontics at the University of Pennsylvania School of Dental Medicine and an Adjunct Professor at the University School of Dentistry and Adjunct Professor at the University of Maryland School of Dentistry. He maintains a private practice limited to Periodontics and Implantology in Swampscott, MA.

Osteogenic Procedures with Recombinant Human Platelet-Derived Growth Factor – BB
The introduction of tissue engineered products into the dental surgical armamentarium provides a new paradigm of treatment for the discerning clinician. It enhances the results of both periodontal regeneration and bone enhancement for implant dentistry.

Autogenous bone continues to be the gold standard, but carries the stigma of a second surgical site extraneously or a limited volume of available harvest intraorally at a second site. Osteoconductive materials are valuable, but the results are enhanced by the use of rh-PDGF. This presentation will provide proof of principle evidence of the treatment of periodontal defects and a variety of localized ridge defects for implant placement. The topics include the sinus elevation, horizontal and vertical ridge augmentation and bone preservation for compromised extraction sites.

> Christoph HÄMMERLE
Christoph Hämmerle is Professor and Chairman of the Department of Fixed and Removable Prosthodontics and Implantology at the University of Zurich, Switzerland. He is certified in prosthodontics as well as in periodontology and periodontics. He is also Vice President and Immediate Past President of the International Team of Implantologists (ITI). He is a past President of the European Association for Osseointegration (EAO) and the Swiss Society of Osseointegration.

Bone regeneration by means of GBR is a well documented and procedure successfully used in implant dentistry. Further developments in bone augmentation procedures can either 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, GDF-5, PDG, PTH 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 Treatments” was published in 10 languages. He lectures intensively on Implants, Immediate loading, Biomechanics and Bone Grafting procedure.

Dr. Renouard was elected to the European Association for Osseointegration executive board in Amsterdam in 2000, and is the past President for the organization. He is in Private Practice in Paris limited of Oral and Implant Surgery.

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

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 the most important and clinically available technique as an anti-aging therapy.

Active molecules and stem cells

Stem cell 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, chairside 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.

Hendrik Terheyden, Professor DDS 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 Postgraduate dental education, University of Kiel, Germany
1989-1994 Postgraduate training and specialist in Oral surgery
1993-2003 Postgraduate training and specialist in Maxillofacial Surgery and the Kiel University Hospital, Dept. of OMF surgery
1999 Habilitation University of Kiel
2000-2007 Senior lecturer and consultant at the Kiel University Hospital
2008 Professor at the University of Kiel
2007 Chairman in Kanazawa

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
Member of the Editorial Board of Journal of International Journal of Oral & Maxillofacial Surgery

Active molecules and stem cells

Stem cell state of the art
Professor M. Quirynen graduated in 1980 as dentist at the Catholic University of Leuven and finished in 1984 his training in periodontology at the department of Periodontology (Catholic University Leuven). In 1986 he presented his Ph. D. entitled 'Anatomical and inflammatory factors influence bacterial plaque growth and retention in man.' In 1990 he was appointed professor at the Faculty of medicine of the Catholic University of Leuven to teach periodontology and anatomy. His research deals mainly with oral microbiology, with special attention to the influence of surface characteristics on bacterial adhesion and the effect of antiseptics. He published over 200 full papers in international peer-reviewed journals. He is member of the editorial board of the Journal of Clinical Periodontology (associate editor), Clinical Oral Implants Research, Periodontal Practice Today and Parodontologie.

Basic Research Competition

001 Tomographic and immunohistochemical study on onlay grafts remodeling. Iliac crest versus calvarial bone

L. A. SALATA

002 Histological study on the implant interface following flapless implantation

B. H. Choi

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

R. LEESUNGBOK

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

D. BUSENLECHNER

005 A novel technique for quantification of cells on material substrates

L. MEIRELLES

006 Evidence of revascularization and cell colonization of anorganic bovine bone

R. GALINDO-MORENO
David HARRIS

David is a medically and dentally qualified specialist oral surgeon. He maintains a specialist private practice at the Marbella 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 three 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.

David 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.

M. RETZEPI

Effect of diabetes on Wnt protein signalling during the guided bone regeneration healing process

D. S. THOMA

Soft tissue augmentation by the use of collagen-based matrices. An experimental comparative study in the dog mandible

D. SCHNEIDER

Bone regeneration using a synthetic matrix containing enamel matrix derivative

G. CARDAROLI

Healing of bundle bone and immediate implant installation following tooth extractions
Plenary Session 5

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

> Mariano SANZ

M.D. – Degree, Universidad Complutense de Madrid. Specialist in Stomatology. Universidad Complutense de Madrid. Specialist in Periodontology, University of California, Los Angeles (UCLA). Doctor in Medicine (PhD degree), Universidad Complutense de Madrid. Professor of Periodontology, Universidad Complutense de Madrid. Dean of the Faculty of Stomatology, Universidad Complutense de Madrid. Director of the Graduate Programme “Master in Periodontology”, Universidad Complutense de Madrid. Past-Secretary General of the European Federation of Periodontology (EFP). Past-President of the Spanish Society of Periodontology (SEPA). Coordinator and Regional Board Member from the International Association for Dental Research (IADR-CED). Member of the IADR Periodontal Research Group (PRG). Editor-in-Chief of the Journal of Clinical Periodontology. Member of the Editorial Committee of the following scientific journals: Journal of Periodontal Research, Clinical Oral Implant Research, Journal of Dental Research, Oral Diseases, Clinical Oral Investigations and Journal de Parodontologie. Has published scientific more than 150 articles and book chapters in Periodontology, Implant Dentistry and Dental Education. Has given multiple courses and seminars in Periodontology, Implant Dentistry and Dental Education.

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 integrity, vitality and stability, and endodontic conditions if the tooth is non-vital, possibility of conservative or prosthodontic restoration, need for orthodontic treatment, tooth’s strategic importance in order to proper utilize it for adequate function and esthetics. By a periodontal point of view five free rules need to be followed in order to take the proper decision. In this presentation they will be discussed in detail.

> 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 completed his training in periodontology from Boston University, USA and returned to Italy where he opened the first practice in periododontics in the country. Since then he has devoted himself to periodontal therapy along with implant therapy since 1990. He is a Member of many prestigious international scientific societies, he is founder and past president of the Italian Society of Periodontology (SIP), active member of the European Academy of Restorative Dentistry (EADR), honorary member of the Italian Academy of Prosthetic Dentistry (IAPD), 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 integrity, vitality and stability, and endodontic conditions if the tooth is non-vital, possibility of conservative or prosthodontic restoration, need for orthodontic treatment, tooth’s strategic importance in order to proper utilize it for adequate function and esthetics. By a periodontal point of view five free rules need to be followed in order to take the proper decision. In this presentation they will be discussed in detail.

> Anton SCULEAN

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.).
Lundt (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 Oseointegration 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 Prosthodontics and his Master of Science in Dentistry (M.Sc.).
In 1989, he became Assistant Professor in the University of Washington (Department of Restorative Dentistry). In 1993, he founded the International Osseointegration Society and became its President.
Dr Khayat is the author or co-author of numerous articles in peer-reviewed journals. He has presented his work in many international congresses and symposia.
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 in Paris which is limited to Oral Implantology.

> Stefan RENVERT
Stefan 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 in Malmö University of Lund, Sweden with a Certificate in Periodontology. In 1982, he completed his Odont.Dr. (Ph.D.) degree in 1984. In 1991, he became Associate Professor and Head of the Department of Periodontology at the University of Lund. In 2002, he became Chair of Periodontology and Oral Biomedicine at the University of Lund.
Dr Renvert has also been a visiting professor at the University of Maryland, School of Dentistry, Baltimore, MD (USA) and at the University of Connecticut, School of Dental Medicine, Farmington, CT (USA). He is currently Professor and Chair of Periodontology at the University of Lund.

Dr Renvert is a past chairman of the Swedish Society of Periodontology and the European Association of Osseointegration. He is a member of the International Association of Osseointegration. He is a fellow of the American and Swedish Academy of Osseointegration and a member of the European Academy of Osseointegration.

Dr Renvert has published more than 100 papers in international and national journals. His research focuses on the diagnosis and treatment of peri-implantitis, risk assessment and the association between periodontal disease and cardiovascular disease.

> Joan PI URGELL
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M.D. in Medicine and Surgery.
Barcelona, 1978
Degree in the University of Barcelona.
Barcelona, 1977-78
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Dept. of Conservative Dentistry.
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Lundt (Sweden), 1985
Los Angeles, Oct.-Dec. 1985
Training in Osseointegration at the University of California. Los Angeles (UCLA).
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Dr Khayat has lectured extensively in France and internationally. He maintains a private practice in Paris which is limited to Oral Implantology.
Research Award Ceremony

> Christoph HÄMMERLE

Christoph Hämmel 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. Hämmel 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 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:
EAO Office
Ms Giulia Cerocchi
287 Avenue Louise
2nd floor
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Tel +32 (0) 2 643 20 49
Fax +32 (0) 2 645 26 71
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> Discover Monaco

**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 faunas gathered by Prince Albert 1st, numerous specimens of sea creatures, models of Prince Albert’s laboratory ships, and jewellery made from the sea’s natural products.

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- Entrance fees:
  - Admission free
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**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.

**Eco-friendly Congress Centre**

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.

**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 car mats.
- Energy saving: individual lighting 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 products.

**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 08:00-18:00
Saturday 3rd 09:00-16:00

■ Registration fee for delegates includes:
- 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
EOA members + SFPQIO, 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.

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 Karément, Grimaldi Forum, on Wednesday, 30th September 2009, at 5:30pm
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- Search and reservation of tickets for concert, theatre, opera and special events

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E-mail: martin.kurzwelly@astratech.com
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Christopher CAIROLI

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Elisabeth POTTERIE

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