

# The Swiss International Academy of Osseo-Integration and Maxillo- Facial Research

## Master Course in Advanced Reconstructive Dentistry Using Dental Implants

In collaboration with  
Department of Prosthodontics  
University of Berne  
and Department of  
Oral Surgery University of Geneva,  
Switzerland

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From 28 August to 31 August 2014 Thun,  
Switzerland

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**Star Science  
International GmbH**



**THOMMEN**  
Medical

# Content

• Preface	3
• Program Information	4
• Contents	6
• Speakers	16
• Program	22
• Lecture Abstracts	25
• Registration Form for single day pre congress	29
• Full course (including pre congress day) Advanced continuing education course in implant dentistry	30
• Accommodation	31
• General Terms of Business	32
• Organization	33
• Distributors in the Middle East Countries	34



CONNECTING SCIENCE™

# Preface

Dear Colleagues,

“On behalf of the Scientific committee and all our speakers, it is our pleasure to welcome you in Switzerland to present the 7th master course in advanced Implant Therapy”

Today Implant Dentistry has passed the development phase and started to be routine treatment in all Universities and most of the professional dental practices, also during the past thirty years a major development in bone grafting procedures and bone grafting materials have been successfully documented.

Our advanced implant course this year is designed in English language, especially for Dentists and specialists from all over the world, who would like to up-date their knowledge in Implantology and take the new information based on the novelty of research and clinical experiences.

A very special group of Clinicians and researchers, connected to three universities, Bern, Geneva and Zurich, in Switzerland, will gather during this week, to present a selection of lectures and clinical demonstrations including live Video presentations.

The course will include three workshops about the surgical, prosthetic, and advanced surgical procedures and sinus lift augmentation techniques, also will discuss several important issue in implantology like esthetic aspects, CAD CAM technology, and treatment of peri-implant complications.

I am very sure that you will enjoy the romantic atmosphere at the Seepark Hotel in Thun in a lovely touristic city.

Join us to learn more how to improve your clinical practice and to enjoy an unforgettable week in Switzerland.

Chairman and Course Director



Dr. Nahi Jabbour



# Program Information

## Scientific Committee

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- Prof. Regina Mericske-Stern (Program Chairman) Bern University
- Prof. Jean-Pierre Bernard (Co-Chairman) Geneva University

## Program Director

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- Dr. Nahi Jabbour (Star Science International GmbH)

## Official Language

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- All presentations and discussions will be held in English.

## Tuition Fees

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- 1 day course (pre congress) with Dr. Ueli Grunder on 28 August registration cost CHF 400.–, after 30 June 2014, CHF 500.–
- Full course (including pre congress) Advanced continuing education course in Implant dentistry 28–31 August 2014 registration cost CHF 1,600.–, after 30 June 2014 CHF 2,000.–
- Hotel accommodation: There are many hotels close to the congress Center (please check details on hotel list form)

## Deadline for registration: 30 June 2014

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## Venue

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### \*\*\*\*Hotel Seepark

Seestrasse 47, 3602 Thun, Switzerland

Phone +41 (0) 33 226 12 12

Fax +41 (0) 33 226 15 10

- Length of course: 32 Credit Hours
- Schedule: 8:30 to 18:00 daily
- Three workshops on models and on animal jaws:
  1. Implant placement in Esthetic Zone using grafting materials including Surgical procedures of the Thommen Medical Implant System and planning (Thursday 28 August 2014)
  2. Prosthetic procedures of the Thommen Medical Implant System (Friday 29 August 2014)
  3. Sinus Grafting and lateral ridge augmentation (Sunday 31 August 2014)



## Aim of the Course

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This Program is organized to present a four days course in “Advanced Reconstructive Dentistry using Dental Implant”, the course contains sequences of lectures, clinical demonstrations and extensive hands on participations in diagnostic, surgical and prosthetic procedures of dental implants.

- First day of the course, Thursday 28 August: Two Morning Lectures by Dr. Ueli Grunder “Implants and GBR – how can we be really successful”. In the afternoon hands on training on models with Dr. Ueli Grunder (GBR techniques).
- Second day, Friday 29 August: Professor Regina Mericske will present two lectures about: restorative and prosthetic implant procedures for successful completion of treatment. Also, we discuss the option of immediate implant placement versus delayed implant placement, immediate loading and the (CAD-CAM technologies titanium and zirconia).  
In the afternoon: Prof. Dr. Norbert Enkling will discuss principle of Stress Free Bar to retain overdenture in the lower mandible and workshop prosthetic procedure (Prof. Regina Mericske, Dr. Nahi Jabbour, Prof. Norbert Enkling).
- Third day, Saturday 30 August Dr. Rino Burkhardt will give two lectures. The first is about Fundamental principles in periodontal and peri-implant plastic surgery. The second is about short implants – do we still need bone augmentations? Decision making in the zone of esthetic priority – Basic considerations.  
In the afternoon: Guest speaker Dr. Konrad Meyenberg with 2 lectures about: Optimal soft-tissue aesthetics around implants – Current concepts and controversies and teeth or implants: The replacement of single and multiple missing teeth in the esthetic zone.
- Fourth day, Sunday 31 August: Professor Jean-Pierre Bernard will explain advanced surgical procedures, ridge augmentation, Guided Bone Regeneration (GBR), Guided Tissue Regeneration (GTR) techniques and sinus lift elevation procedures, in combination with dental implant placement.  
In the afternoon: Guest speaker Prof. Dr. med. dent. Dr. h.c. mult. Anton Sculean, M.S with a lecture about “New modalities for soft tissue management around natural teeth and dental Implants” and hands on Training Workshop (Sinus lift procedure) with Professor J-P. Bernard and Dr. Nahi Jabbour.

## Target Group

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Tailored to the practitioners interested in implant dentistry who desire to achieve a high level of competence for daily practice applications.

The course will cover the basic aspects of scientific evidence relevant for daily patient managements including a new concept of comprehensive treatment planning based on biological research of the last three decades. Case presentations and discussions as well as practical exercises will be presented to help to acquire in depth the implant application knowledge.

## Goals of this course

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To set up comprehensive treatment plans and competent application of oral implants.



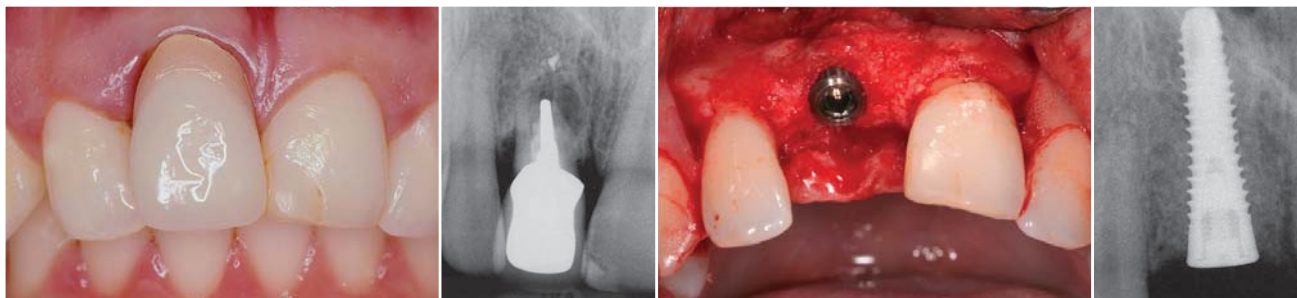
# Contents

## Comprehensive Certification Program in Advanced Reconstructive Dentistry Using Dental Implants

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### Current Trend in Esthetic Dentistry

#### Delayed implant placement



Clinical and Radiological view of tooth no. 11 old crown with perforated post, and root resorption

Implant placement after ridge reconstruction and X-Ray



Situation with gingiva former (modified with composite and healed sulcus)

Selection of ART abutment form wax-up (ART grinding abutment)



Customized ART abutment on the model

Wax-up

Customized ART abutment in situation



X-ray check of approximal contour

Final Zirconium crown cemented on Zirconium abutment

16 months x-ray follow-up

Pictures by courtesy of

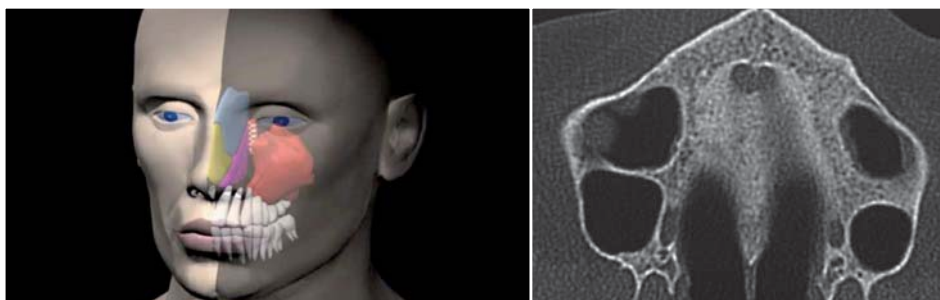
**6** Dr. Konrad Meyenberg, private practice, Zurich, Switzerland, Dr. Marco Imoberdorf, private practice, Zurich, Switzerland, Walter Gebhard, dental technician, Zurich, Switzerland

## Evidence-based and long-term results on sinus grafting procedures

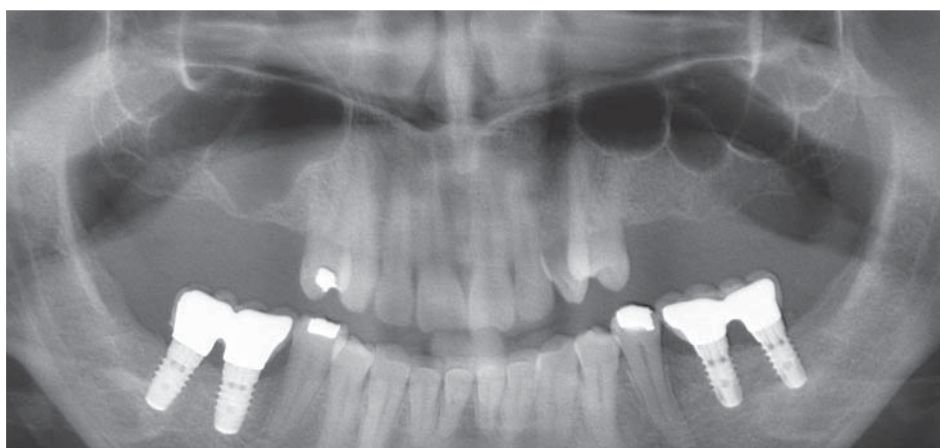
### Vertical ridge augmentation

### Lateral and horizontal ridge augmentation

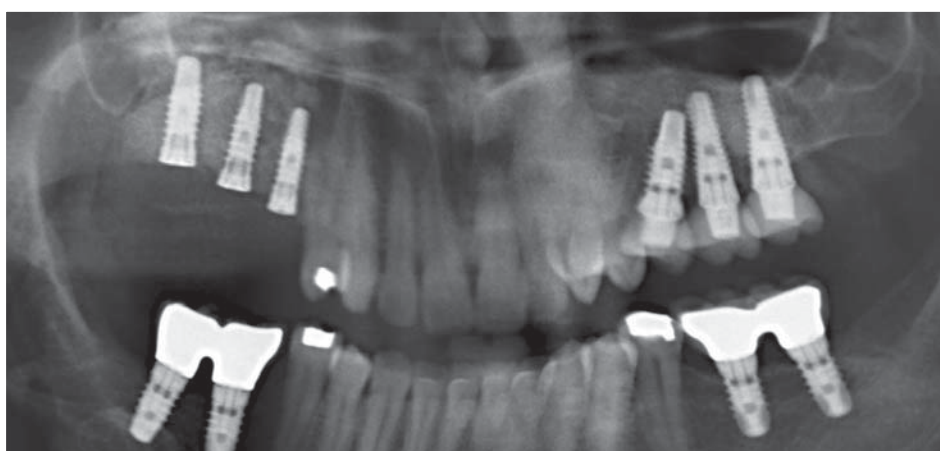
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CT scan x-ray give better details about the sinus anatomy and the presence of septum



Please note it is clear that patient needs sinus lift procedure on the right maxilla as well as on the left



X-ray shows on the left side upper maxilla we replaced the missing teeth no. 25, 26, 27 with three implants simultaneously with the sinus grafting procedure

## Evidence-based and long-term results on sinus grafting procedures

### Vertical ridge augmentation

### Lateral and horizontal ridge augmentation

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1. Clinical view upper maxilla



2. Lateral view confirm not enough inter-occlusal space



3. The design of the lateral window (please note) the perforation of the sinus membrane



4. View of the lateral window



5. Inserting the implant after filling the sinus with grafting materials



6. Sutures and wound closure



7-8. Two months later view of the gingival former ...



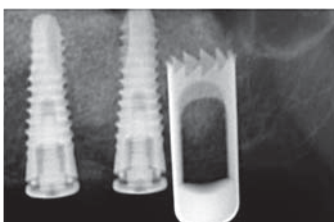
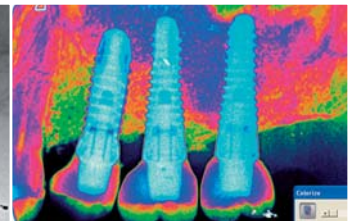
9. View of the final crowns



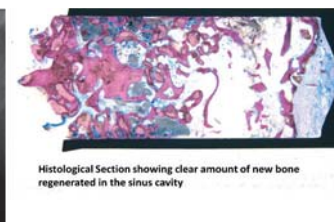
10. X-ray two years after loading



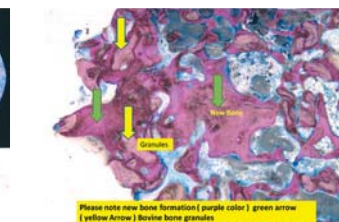
11-12. X-ray computer analysis, presenting bone stability around the implant margins two years of function



13. Taking Biopsy using Trephine drill

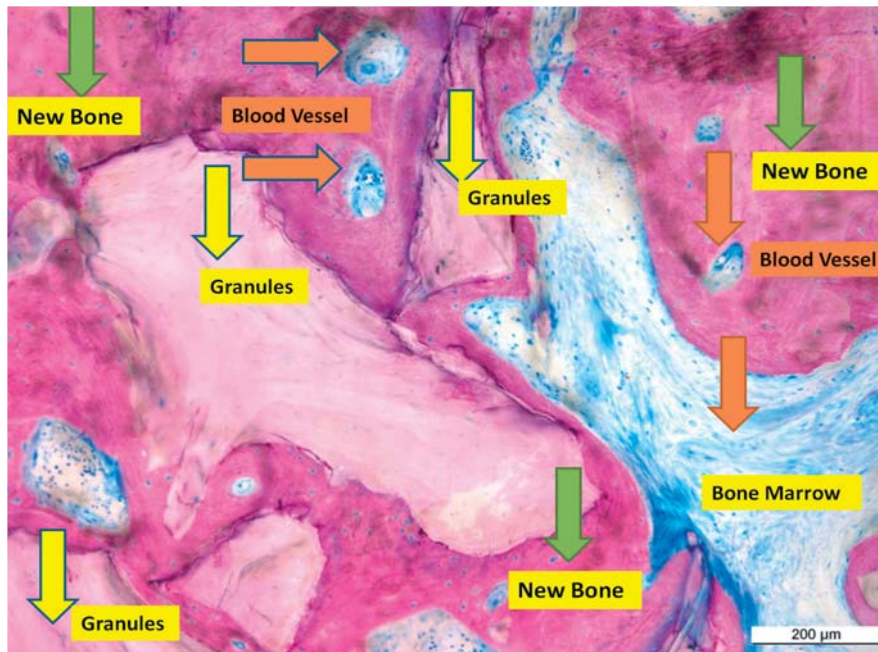


14. Histological Section

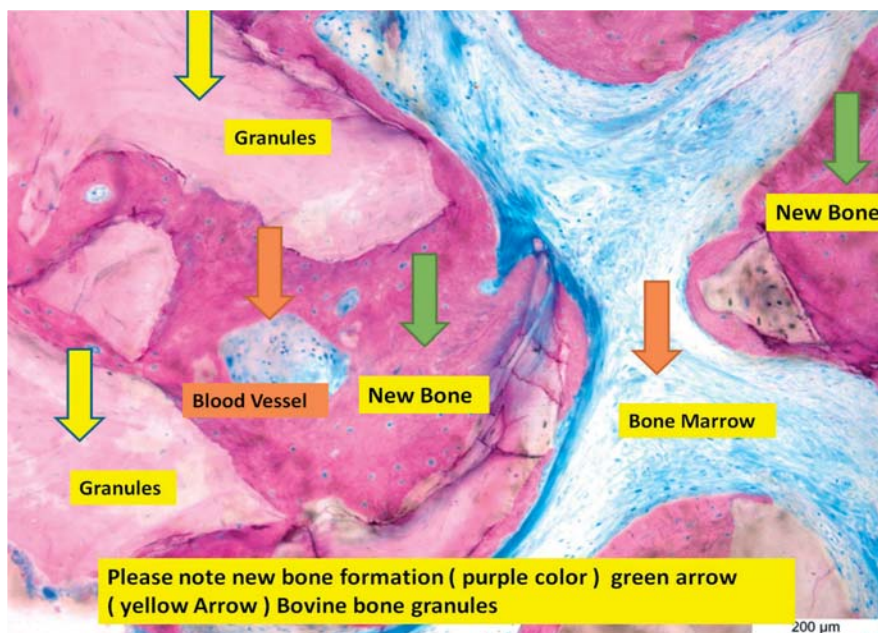


15. Please note New bone formation inside the sinus in (purple color green arrows) Bovine Granules (yellow arrows)





16.  
Please note New bone formation inside the sinus in (purple color green arrows)  
Cerabone Bovine Granules (yellow arrows), Bone Marrow and Blood vessels  
(Orange Arrows) this is clear evidence that we have vital bone inside the sinus  
which can support a dental implant for long term loading.



17.  
Please note New bone formation inside the sinus in (purple color green arrows)  
Cerabone Bovine Granules (yellow arrows), Bone Marrow and Blood vessels  
(Orange Arrows) this is clear evidence that we have vital bone inside the sinus  
which can support a dental implant for long term loading.

Pictures by courtesy of  
Dr. Nahi Jabbour and Dr. Khalifa Al Harthy (Royal Police Hospital In Oman)  
Histology By courtesy of Dr. Peter Schüpbach Zurich/Switzerland

## Clinical Case 2

### Dr. Nahi Jabbour

### Sinus Lift and Horizontal ridge Augmentation



1. Preparation of the lateral Window using Diamond Bur 3 mm



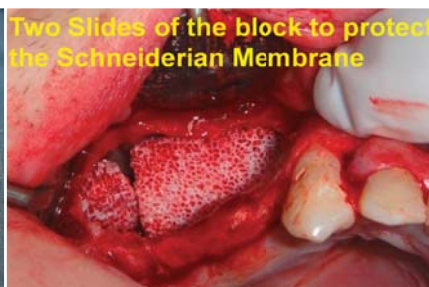
2. Retraction of lateral window together with Schneiderian membrane



3. Deproteinized Bovine Bone (DBB) Granules large size 1-2 mm and DBB Block



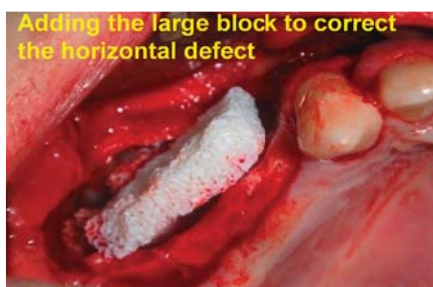
4. Cutting the block using diamond Preparation Bur



5. Two slides of the block Placed in the sinus to protect The Schneiderian Membrane



6. Filling part of the sinus cavity with Cerabone Bovine Granules



7. Adding the large block to correct The horizontal



8. Covering with small Bovine granules 0.5 mm to 1 mm



9. Covering with Jason Collagen membrane



10. Suture Tech, Flap Closer Tension free

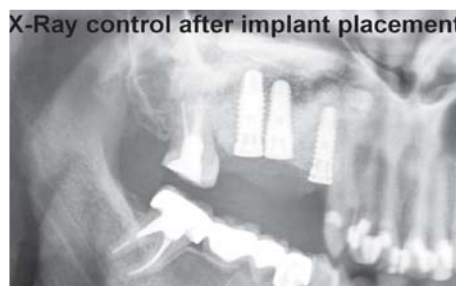


11. Wound Healing after one year

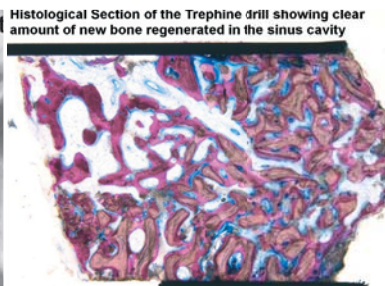


12. Taking Biopsy using trephine drill and 3 implants placed Using punch Technique.

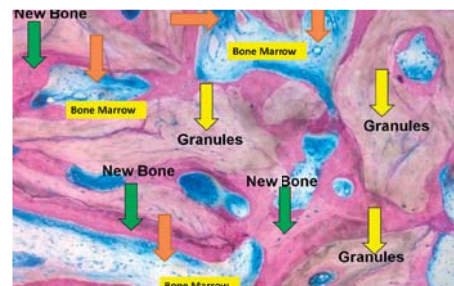




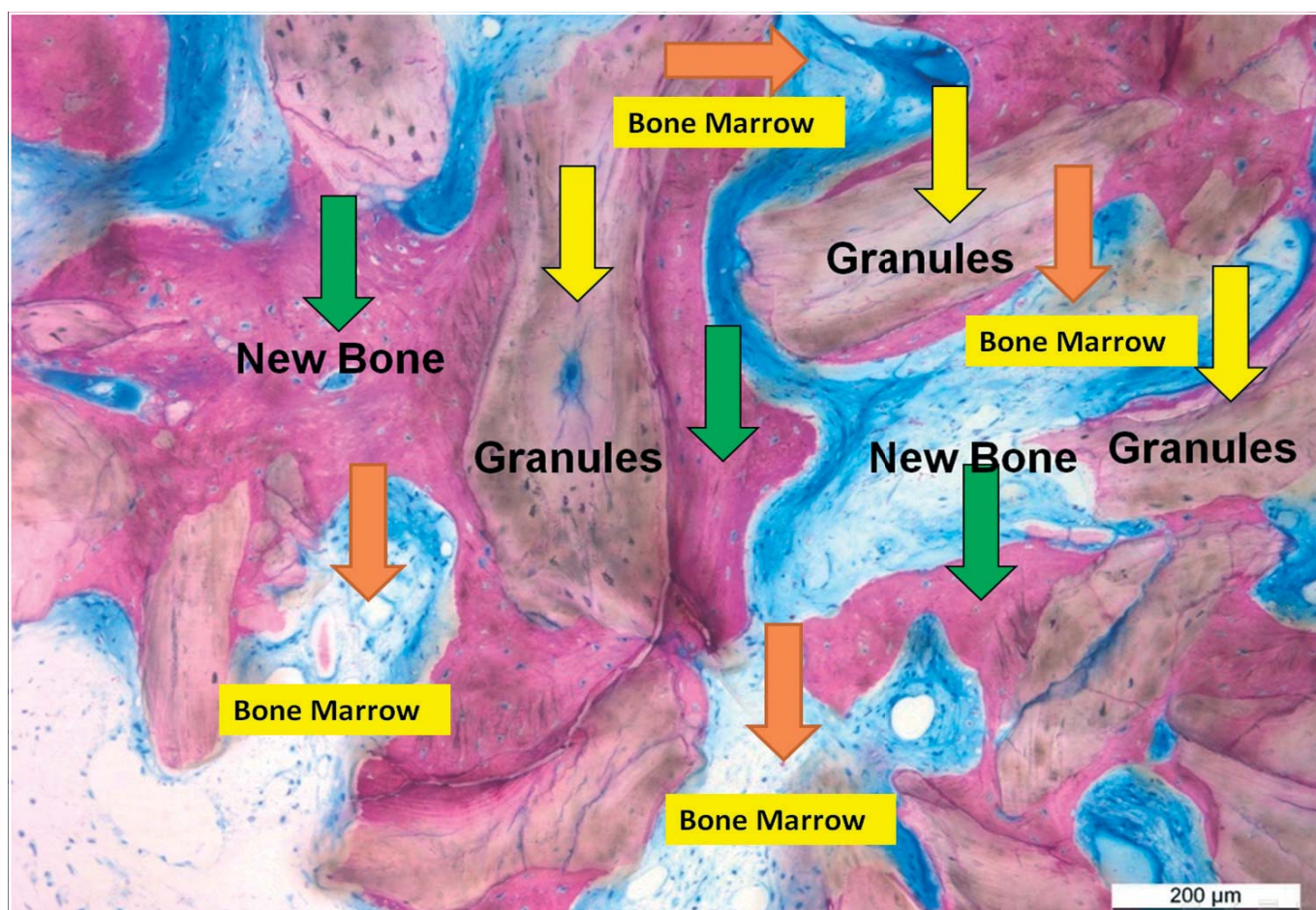
13.  
X-Ray Control after Implant placements



14.  
Histological section of the trephine drill showing clear amount of new Bone regenerated in the sinus cavity



15.  
Please note new bone Formation inside the sinus in (purple color green arrows) Cerabone Bovine Granules (yellow arrows)

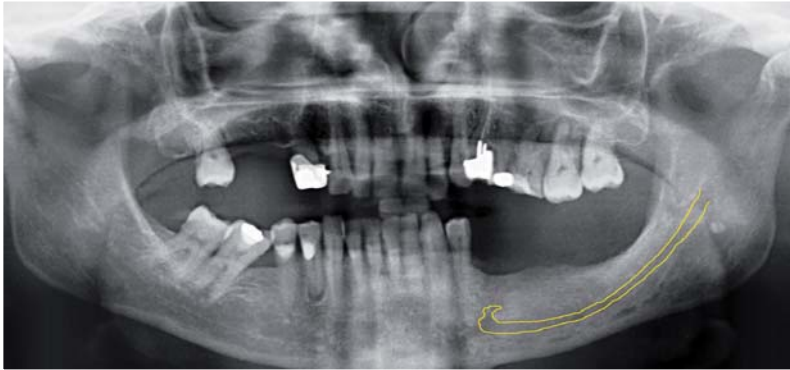


16.  
Please note New bone formation inside the sinus in (purple color green arrows) Cerabone Bovine Granules (yellow arrows), Bone Marrow and Blood vessels (Orange Arrows) this is clear evidence that we have vital bone inside the sinus which can support a dental implant for long term loading.

## Immediate loading: When? Risk and success!

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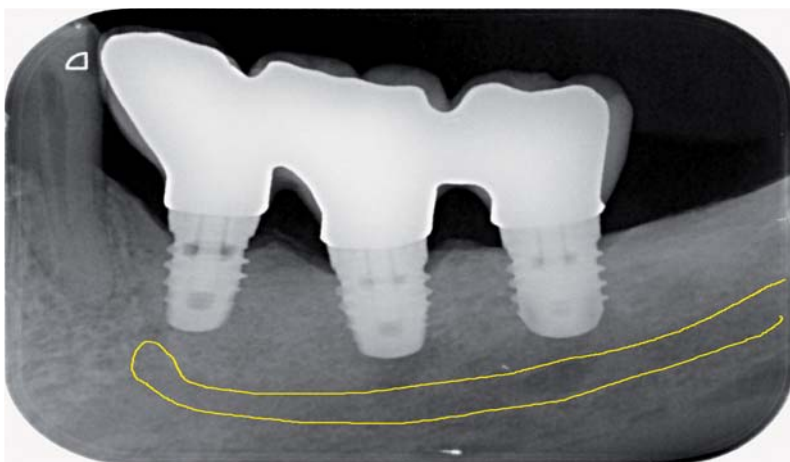
Immediate loading with short implant 6.5 mm, case report presented by Dr. Jabbour and Dr. Khalifa Al Harthy (Royal Oman Police Hospital)



X-ray panoramic view for periodontally compromised patient missing teeth no. 35, 36, 37 in the lower mandible



Clinical view after treatment two years follow-up immediate loading on three short implants 6.5 mm length



X-ray made after two years of function; please note the marginal bone stability around these short implants



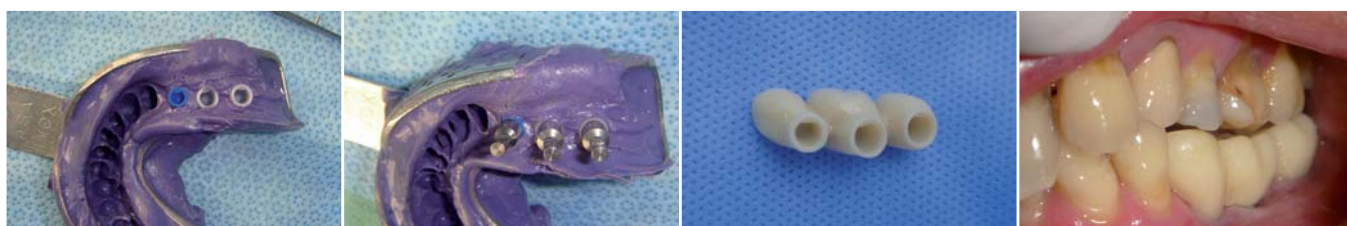
## Immediate loading with short implant 6.5 mm



1. Panoramic x-ray, presenting multiple missing teeth
2. X-ray view of limited amount of bone in height including super eruption of the upper teeth
3. Three short 6.5mm length Thommen implants inserted with flapless surgery technique
4. X-ray, after implant placement (note bone level)



5. Abutments connection to immediate loading process
6. 3 Easy abutments screwed with 25 Ncm (inter-occlusal space is fine)
7. Impression-taking, plastic coping in position (snap-on)
8. Temporary caps cemented on the abutments



9. View of the impression coping closed tray with v.silicone material
10. Abutment Analogs snapped into the impression coping
11. Temporary bridge lab-fabricated
12. View of the temporary bridge cemented 24 hours after implant placement (please note free occlusal contact)



13. Clinical view of the final bridge after two years of function
14. X-ray follow-up two years. Note the marginal bone stability around the short implants
15. Computer analysis presenting bone stability around the short implants after two years of function

## Clinical Case with CAD/CAM Titanium milled screw-retained abutments on Thommen Medical Implants



1. Edentulous posterior maxilla, extension of the sinus



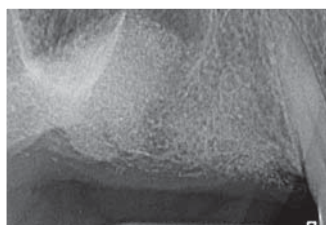
2. X-ray before treatment extension of the sinus



3. Cast and wax-up of the teeth to be replaced



4. Sinus floor elevation on location of first molar



5. X-ray after sinus elevation please observe the grafting materials



6. Three Thommen Element implants 11 mm were placed



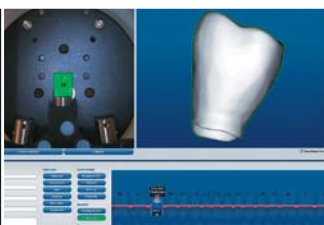
7. Reentry with CO<sub>2</sub> Laser after six months of healing time, 3 gingival formers were placed



8. Impression-taking with open tray



9. Master-cast with implant-analogs in situation



10. CAD/CAM fabrication of titanium framework: computer-design



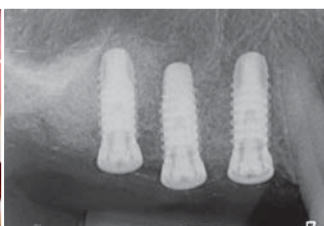
11. CAD/CAM milled titanium-framework: direct screw-retention at Implant level



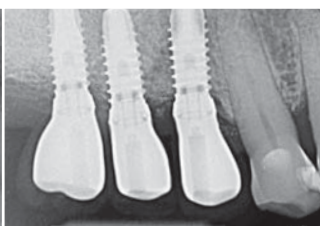
12. Crowns with veneering, direct screw access to implant level



13. Final crown in situation Titanium framework: computer-design



14. X-ray implant before loading: Direct screw-retention at Implant level



15. Implants after loading with screw-retained crowns



## Compromised site twenty years after tooth re-plantation

Severely resorbed central incisor with compromised mucosa 20 years after tooth re-plantation followed by an implant therapy (hard and soft tissue augmentation, single crown)



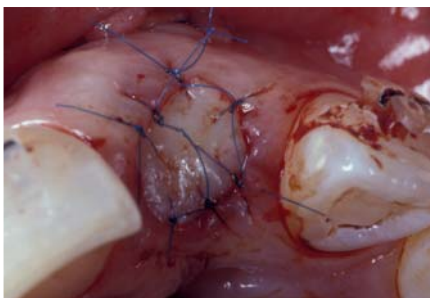
1. Initial situation with recession and mucosal dehiscence



2. After tooth extraction. There is no buccal bone left



3. Severly resorbed central incisor



4. Primary closure of the socket and dehiscence with connective tissue grafts



5. Healed site after guided bone regeneration



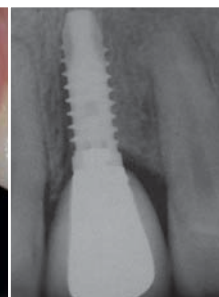
6. After abutment connection, six months after implant placement



7. First provisional restoration



8. Final crown, one year after - cementation



9. X-ray of the implant, one year after final crown insertion

# Speakers

- **Dr. med. dent. Ueli Grunder**

Senior Lecturer at the University of Zürich, Master Degree from the Medical Faculty of the University of Zürich (MSD in Prosthodontics), past president of the Swiss Society of Implant Oral Implantology (SSOI) and Past-President of the European Academy of Esthetic Dentistry (EAED)

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- **Prof. Dr. med. dent. Regina Mericske-Stern**

Head of Department of Prosthodontics and Reconstructive Dentistry, School of Dental Medicine, University of Berne, Switzerland

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- **Dr. med. dent. Konrad H. Meyenberg**

Senior lecturer at the University of Zurich, Dental Schools, and the University of Berne

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- **Dr. med. dent. Rino Burkhardt**

Master Degree from the Medical Faculty of the University of Berne  
(MAS in Periodontology, Honorary Associate Professor at the University of Hong Kong)

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- **Prof. Dr. med. dent. Jean-Pierre Bernard**

Chief of Department of Oral Surgery, School of Dental Medicine,  
University of Geneva, Switzerland

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- **Prof. Dr. med.dent Norbert Enkling**

Associate Professor and Vice-Chairman, Department of Prostodontics, University of Bern, Switzerland

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- **Prof. Dr. med. dent. Dr. h.c. mult. Anton Sculean, M.S**

Chairman of Department of Periodontology, School of Dental Medicine, University of Bern, Switzerland

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- **Prof. Yousef F. Talic**

Professor of Prosthodontics and Implantology, department of Prosthetic Dental  
Sciences, College of Dentistry, King Saud University, Riyadh, Saudi Arabia

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- **Dr. Nahi Jabbour DDS, MDS**

Chairman of the Swiss International Academy of Implantology and Maxillofacial Research, Education  
Manager at Star Science International GmbH/Switzerland- Head of clinical research and business  
developments

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Private practice, Zurich, Switzerland  
**Dr. med. dent. Ueli Grunder**

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Dr. Ueli Grunder received his DMD degree from the University of Zürich, Switzerland, in 1982. His post-graduate education in advanced fixed Prosthodontics also came from the University of Zürich. He maintains a private practice since 1989 in Zollikon-Zürich together with Dr. Gaberthüel and has published numerous papers and extensively lectured nationally and internationally on the surgical and prosthetic aspects of implant dentistry. He is Senior Lecturer at the University of Zürich since 1987. Dr. Grunder is Past-President of the Swiss Society of Oral Implantology (SSOI) and Past-President of the European Academy of Esthetic Dentistry (EAED)



School of Dental Medicine, University of Berne, Switzerland  
**Prof. Dr. med. dent. Regina Mericske-Stern**

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Prof. R. Mericske is the Chairwoman of the Department of Prosthodontics, University of Berne. Here she received her PhD degree and today she is the Director of the Master Program in prosthodontics and implant dentistry. The students elected her teacher of the year. She was a regular guest professor at the Dental School of Toronto, has lectured in over 25 countries. She is a member of various national and international societies: honorary member of the Japanese Association of implantology, past-president of the Swiss Geriatric Society and currently president of the Swiss Society of Reconstructive Dentistry (SSRD). Her activities, both in clinical practice and research, cover the field of implant prosthodontics and geriatric dentistry.



Private practice, Zurich, Switzerland  
**Dr. med. dent. Konrad H. Meyenberg**

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Konrad H. Meyenberg graduated at the University of Zurich, Switzerland. He afterwards completed his 4-year post graduate program in reconstructive dentistry in Zurich at the department for fixed and removable prosthodontics and material sciences (chairman: Prof. Peter Schärer). His special areas of interests and research are perioprosthodontics, adhesive dentistry, esthetic prosthodontics and implant dentistry. He maintains a private practice limited to esthetic reconstructive dentistry in Zurich, Switzerland, together with 3 partners (Marco Imoberdorf: periodontology & implant surgery, Frank Paqué: endodontics & microsurgery, Christian Ramel: implant surgery & reconstructive dentistry). He is a senior lecturer at the University of Zurich, Dental Schools. Speaker at numerous international congresses. He published numerous articles in the fields of esthetic dentistry, perio-prosthodontics and implant prosthodontics. Active Member of the European Academy of Esthetic Dentistry, the Academy of Osseointegration and the Swiss Society of Reconstructive Dentistry. He is a certified specialist for Reconstructive Dentistry of the Swiss and European Dental Society. Member of the editorial board of the International Journal of Periodontics and Restorative Dentistry, the European Journal of Esthetic Dentistry and the journal of Implantologie.



Private practice, Zurich, Switzerland  
**Dr. med. dent. Rino Burkhardt**

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Rino Burkhardt graduated from the University of Zurich and received his doctorate from the Medical Faculty of the same University. He is an EFP (European Federation of Periodontology) certified specialist in periodontology and received his master's degree from the Medical Faculty of the University of Berne (MAS in Periodontology).

He maintains a private practice in Zurich, limited to periodontology and implantology.

Additionally he acts as a senior lecturer at the University of Zurich and has an appointment as honorary associate professor at the University of Hong Kong.

He has published several articles, reviews and book chapters (two in "Clinical Periodontology and Implant Dentistry"). He is an active member of the European Academy of Esthetic Dentistry (EAED), the European Association for Osseointegration (EAO), the Swiss Society of Periodontology (SSP) and Board member of the Swiss Society of Implantology (SGI).



University of Geneva, Switzerland  
**Prof. Dr. med. dent. Jean-Pierre Bernard**

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He has a medical degree and specialization in stomatology and maxillofacial surgery in Paris, France.

Full time at the University of Geneva since 1980.

Private Docent University of Geneva.

Professor and Chairman for Oral Surgery and Dento Maxillofacial Radiology.

Department of Stomatology and Oral Surgery, School of dental medicine, University of Geneva.

Member of the International Team for Implantology (ITI) since 1992 to date.



University of Bern, Switzerland  
**Prof. Dr. med. dent. Dr. h.c. mult. Anton Sculean, M.S**

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Anton Sculean is professor and chairman of the Department of Periodontology at the University of Berne in Switzerland. He qualified in 1990 at the Semmelweis University in Budapest, Hungary and has received his postgraduate training at the Universities Münster, Germany and Royal Dental College Aarhus, Denmark. He received his Habilitation (PhD) at the University of Saarland, Homburg, Germany. From 2004 to 2008

he was appointed as Head of the Department of Periodontology and Program Director of the EFP accredited postgraduate program at the Radboud University in Nijmegen, the Netherlands. In December 2008, he was appointed Professor and Chairman of the Department of Periodontology of the University of Bern, Switzerland. Professor Sculean has been a recipient of many research awards, among others the Anthony Rizzo Award of the Periodontal Research Group of the International Association for Dental Research (IADR), and the IADR/Straumann Award in Regenerative Periodontal Medicine. He received honorary doctorates (Dr. h.c.) from the Semmelweis University in Budapest, Hungary and from the Victor Babes University in Timisoara, Romania. He has been the author of more than 160 publications in peer reviewed journals. He is on the editorial board of more than 10 dental journals amongst others the Journal of Clinical Periodontology, Clinical Oral Implants Research, Journal of Periodontal Research, Clinical Oral Investigations and Clinical Advances in Periodontics. He is Associate Editor of Quintessence International and Section Editor of BMC Oral Health. Professor Sculean served from 2009-2010 as president of the Periodontal Research Group of the IADR and is currently president of the Swiss Society of Periodontology. His current research interests include periodontal wound healing, regenerative and

plastic-esthetic periodontal therapy, treatment of peri-implantitis, antibiotic and antiseptic therapies, laser treatments and oral biofilms. He has authored more than 200 articles in peer-reviewed journals, 12 chapters in periodontal textbooks and has delivered more than 300 lectures at national and international meetings. He is editor of the book Periodontal Regenerative Therapy published by Quintessence in 2010 and Guest Editor of the Periodontology 2000 volume entitled "Wound Healing Models in Periodontology and Implantology".



School of Dental Medicine, University of Berne, Switzerland  
Prof. Dr. med. dent. Norbert Enkling

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Current position: Associate Professor and Vice Chairman Department of Prosthodontics, University of Bern, Switzerland (Chair: Prof. Dr. R. Mericske-Stern)

Visiting Assistant Professor, Department of Prosthodontics, Preclinical Education and Material Sciences, University of Bonn, Germany (Chair: Prof. Dr. H. Stark)

Undergraduate and postgraduate teaching:

Department of Prosthodontics, University of Bern – Switzerland; Department of Oral Surgery

University of Witten Herdecke – Germany; Department of Prosthodontics, University of Bonn – Germany

2003–2006: Postgraduate education in "Oral surgery" and deputy-clinical-director Dental Clinic Bochum, Augusta-Kranken-Anstalt, Bochum, Germany (Prof. Dr. Hans-Peter Jöhren)

2000–2003: Postgraduate education in "Prosthetic dentistry", Department of Prosthodontics, University of Bonn, Germany (Prof. Dr. B. Koeck)

Undergraduate studies of dentistry at the University of Bonn, Final exams 2000

Doctoral thesis – Dr. med. dent.: 2001 University of Bonn; 2004 University of Bern

2003: Certificate, implantology: "Curriculum Implantologie DGIAPW" German Association for Implantology

2005: Certificate, implantology: "Tätigkeitsschwerpunkt Implantologie" German Association for Implantology

2005: "Specialist for prosthetic dentistry – Spezialist für Prothetik" and active member of the German board of prosthodontists, German Association for Prosthetic Dentistry and Material Sciences

2006: "Specialist in reconstructive dentistry, aesthetics and oral function", European Dental Association

2006: "Specialist in oral surgery – Fachzahnarzt für Oralchirurgie"

Since 2005: President of the Tucker Study Club # 59

Since 2006: Vice-president of the German Association for Psychology and Psychosomatic in Dentistry (AKPP – DGZMK)

Since 2002 national and international scientific presentations and publications





Professor of Prosthodontics and Implantology, department of Prosthetic Dental Sciences, College of Dentistry, King Saud University, Riyadh Saudi Arabia  
**Prof. Yousef F. Talic**

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Prof. Yousef F. Talic is Professor of Fixed and Removable Prosthodontics and Implantology in the Department of Prosthetic Dental Sciences, College of Dentistry, King Saud University Riyadh, Saudi Arabia.

He obtained his Bachelor's degree in Dental Sciences from King Saud University in 1983 and Certificate of Specialty in Advanced Fixed and Removable Prosthodontics from Ohio State University, Columbus, Ohio, U.S.A. in 1988 and Master of Science in 1989 from the same university. He served as Chairman of the Department of Prosthetic Dental Sciences from 1994–2000, Program Director of the Prosthodontics Graduate Program from 1996–2003, Director of Postgraduate Dental Education from 2000 to 2005 in the College of Dentistry King Saud University, former President of the Saudi Dental Society 2004–2010, former Editor-in-Chief of the Saudi Dental Journal 2004–2010, Member of the Board of Executives of the Gulf Dental Society (2005–2009), Member of the Board of Directors of the Asia Pacific Dental Federation (2006–2010), Chairman of the Dental Accreditation Committee of the National Commission for Academic Accreditation and Assessment (2005), and held numerous academic and administrative positions in the University and other governmental sectors, external examiners for several local and Arab universities.

He was awarded as Senator of the World Nations Congress in 2003 and American Hall of Fame in the same year by the American Biographical Institute, USA for his outstanding commitment, accomplishment, dedication and inspirational leadership to the International Congress and Fellowship Middle East Region. He was also awarded as the International Scientist of the Year 2003 and International Man of the Year 1992–1993 by the International Biographical Center, Cambridge, England in recognition of his services rendered to dentistry in the Arab World.

Currently, he is the Director of the International Cooperation and Scientific Societies at King Saud University, Vice-President of the International College of Dentist Middle East Section, external examiner for promotion of faculties in King Abdulaziz University in Jeddah and Taibah University in Madinah Monawara, research consultant in King Abdulaziz Scientific Technology (CAST). Member in the board of director for Farabi Dental College. Member of the Editorial Board of the Journal of American Dental Association (JADA) Arab World Edition, member of the advisory board for the Saudi dental journal. Fellow Diplomat, International College of Oral Implantologist and Diplomat, American Society of Osseointegration.



Star Science International GmbH, Berne, Switzerland  
**Dr. Nahi Jabbour DDS, MDS**

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Graduated from Damascus University – School of Dental Medicine, in 1981, Doctor of Dental Surgery

Specializes in oral surgery 1982–1984

First training in implant dentistry at New York University, USA, 1986

Head of the Dental and Implant Center 1989–1991, Riyadh, Saudi Arabia

Special Training at Berne University, Dept. Oral Surgery (Chairman Prof. Berthold), 1993

Education Manager at Straumann Institute for Dental Implant Development and Research until 2002

Until present time, Education Manager for Star Science International GmbH in Berne, Switzerland

Head of Clinical and Animal Research and Business Developments

Chairman of the Swiss International Academy of Osseo- integration and Maxillofacial Research

Dr. Jabbour has a lot of experiences in dental implant surgery, guided bone regeneration – GBR technique, ridge augmentation and sinus lift procedures.

He has given more than 250 lectures and courses, with clinical activities in implantology and oral surgery at both national and international levels.





# Program

First day

Thursday 28 August 2014

08:30–09:00	Introduction (welcome to Switzerland and social activities program) by Dr. Nahi Jabbour
09:00–10:30	1st topic: <b>Implants and GBR: How can we be really successful? (Part 1)</b> <i>Speaker: Dr. Ueli Grunder</i>
10:30–11:00	Coffee Break
11:00–12:30	2nd topic: <b>Implants and GBR: How can we be really successful? (Part 2)</b> <i>Speaker: Dr. Ueli Grunder</i>
12:30–14:00	Lunch Break at Hotel Restaurant Seepark
14:00–15:30	<b>Hands-on course on implant placement with simultaneous GBR (workshop on the models)</b> <ul style="list-style-type: none"> <li>• The selection of the ideal technique</li> <li>• Type of incision</li> <li>• GBR techniques (membranes, graft material)</li> <li>• Suturing technique</li> </ul> <i>Speaker: Dr. Ueli Grunder</i>
15:30–16:00	Coffee Break
16:00–18:00	<b>Hands-on course training on implant placement with simultaneous GBR (workshop on the models)</b> <i>Speaker: Dr. Ueli Grunder</i>

Second day

Friday 29 August 2014

08:30–09:00	<b>Case presentation, discussion</b> <i>Speakers: Dr. Nahi Jabbour and Prof. Yousef Talic</i>
09:00–10:30	<b>Restorative and prosthetic implant procedures for successful completion of treatment Option of immediate implant placement versus delayed implant placement, immediate loading and the CAD-CAM technologies titanium and zirconia. (Part 1)</b> <i>Speaker: Prof. Dr. med. dent. Regina Mericske-Stern</i>
10:30–11:00	Coffee Break
11:00–12:30	<b>Restorative and prosthetic implant procedures for successful completion of treatment Option of immediate implant placement versus delayed implant placement, immediate loading and the CAD-CAM technologies titanium and zirconia. (Part 2)</b> <i>Speaker: Prof. Dr. med. dent. Regina Mericske-Stern</i>
12:30–14:00	Lunch Break
14:00–15:30	<b>Principle of Stress Free Bar to retain overdenture in the lower mandible</b> <i>Speaker: Prof. Dr. med. dent. Norbert Enkling</i>
15:30–16:00	Coffee Break
16:00–18:00	<b>Hands on training prosthetic procedures (with Professor Regina Mericske and Dr. Nahi Jabbour and Prof. Enkling)</b>



Third day

Saturday 30 August

08:30–09:00	<b>Case presentation solution, discussion</b> <i>Speakers: Dr. Nahi Jabbour and Prof. Yousef Talic</i>
09:00–10:30	<b>Fundamental principles In periodontal and peri-implant plastic surgery</b> <i>Speaker: Dr. med. dent. Rino Burkhardt</i>
10:30–11:00	Coffee Break
11:00–12:30	<b>Short implants – do we still need bone augmentations?</b> <b>Decision making in the zone of esthetic priority – Basic considerations</b> <i>Speaker: Dr. med. dent. Rino Burkhardt</i>
12:30–14:00	Lunch Break
14:00–15:30	1st topic: <b>Optimal soft-tissue aesthetics around implants –</b> <b>Current concepts and controversies</b> <b>Main question: Can we further support tissue surrounding implants through</b> <b>restorative Technologies or techniques</b> <i>Speaker: Dr. med.dent. Konrad H. Meyenberg</i>
15:30–16:00	Coffee Break
16:00–17:30	2nd topic <b>Teeth or implants: The replacement of single and multiple missing teeth in</b> <b>the esthetic zone.</b> <b>The following topics are addressed: when to extract and when to keep a</b> <b>tooth in the esthetic zone. Esthetic and biological considerations</b> <ul style="list-style-type: none"><li>• The predictability of the soft tissue profile in periodontally compromised cases</li><li>• Perfect pink esthetics: tissue or porcelain? Reconstruction or replica?</li></ul> <i>Speaker: Dr. med.dent. Konrad H. Meyenberg</i>
17:30–18:00	<b>Open discussion and case presentation Dr. Nahi Jabbour and</b> <b>Prof.Yousef Talic</b>



Fourth day

Sunday 31 August 2014

08:30–09:00	<b>Case presentation solution, discussion</b> <i>Speakers: Dr. Nahi Jabbour and Prof. Yousef Talic</i>
09:00–10:30	<b>Advanced surgical procedure, ridge augmentation, Guided Bone Regeneration (GBR)</b> <b>Guided Tissue Regeneration (GTR) techniques and sinus lift elevation procedures in combination with dental implant placement (part 1)</b> <i>Speaker: Prof. Dr. Jean Pierre Bernard</i>
10:30–11:00	Coffee Break
11:00–12:30	<b>Advanced surgical procedure, ridge augmentation, Guided Bone Regeneration (GBR)</b> <b>Guided Tissue Regeneration (GTR) techniques and sinus lift elevation procedures in combination with dental implant placement (part 2)</b> <i>Speaker: Prof. Dr. Jean Pierre Bernard</i>
12:30–14:00	Lunch Break
14:00–15:30	<b>New modalities for soft tissue management around natural teeth and dental implants</b> <i>Speaker: Prof. Dr. med. dent. Dr. h.c. mult. Anton Sculean, M.S</i>
15:30–16:00	Coffee Break
16:00–17:30	<b>Hands on Training on sinus lift procedure with Professor J-P. Bernard and Dr. Nahi Jabbour</b>
19:30	Gala dinner and Certification in Hotel Seepark in Thun

Fifth day

Monday 1 September 2014

Departure to Zurich by train individually





# Lecture Abstracts

Dr. med. dent. Konrad H. Meyenberg

Optimal soft tissue aesthetics around implants – current concepts & controversies – first part

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## Main question

Can we further support tissue surrounding implants through restorative technologies or techniques?

## Content

Currently a variety of new implant designs are on the market. Most of these designs are based on advanced ideas how to improve esthetics. Major differences exist regarding the head, the neck, the abutment part and their respective connections.

This, however, provokes some questions: Is there one superior design? What is the influence on esthetics by the macro- and microgeometry of these new designs? What are the clinical consequences? How is the process of bone remodelling around the neck influenced? Can the soft tissue better be attached to micro- and macrostructured neck surfaces, and what are the respective biologic risks? What is the real benefit of “white” implants and abutments? Is zirconia esthetically really superior to other abutment materials? Is the surgical challenge reduced and the predictability of esthetics improved just by the choice of the “right” materials and designs?

In addition the technical development of implant abutments in the recent time is shown and analyzed. New approaches in terms of biologic and esthetic advances are explained (horizontal and vertical set-off, vertically reduced biological width, conical seal designs with friction fit).

Upon completion of this presentation, participants should be able to:

- a understand the ideas behind the current implant designs
- b understand the different concepts to optimize the vertical component of the biological width
- c understand the clinical potential of the various systems
- d understand the limitations of each concept

## Teeth or Implants: The replacement of single and multiple missing teeth in the esthetic zone

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Restorative, technical, esthetical and biological aspects of esthetically demanding cases are discussed under the key-words “predictability and excellence”.

Clinical cases are presented to compare the esthetic and functional outcome of implant- and tooth-supported fixed restorations with and without pontics.

The following topics are addressed:

- when to extract and when to keep a tooth in the esthetic zone: esthetic and biological considerations
- the predictability of the soft tissue profile in periodontally compromised cases
- perfect pink esthetics: tissue or porcelain? Reconstruction or replica?

Dr. med. dent. Rino Burkhardt

## Human Factors and Technical Factors influencing the outcome in Periodontal Surgery

Since the origin of periodontal surgery at the beginning of the last century, a huge development took place in this field of specialty. In periodontitis therapy the concept of surgical pocket elimination has been replaced by eliminating the activity and inflammation by deep scalings. Additional surgical interventions are indicated in a second step to treat local sites to get better access to the defects, to improve hygiene measures or to further improve the attachment level by guided tissue regeneration and similar surgical procedures.

Additionally, the traditional mucogingival surgery from the sixties has moved from its original indication of improving the relationship between the gingiva and the lining mucosa into a surgical specialty which includes techniques to treat periodontal and periimplant problems.

To perform modern plastic surgery successfully it is mandatory to adapt to these new requirements by refining the surgical approach, producing less trauma to the patients, respect and know the background of scarring and also think about ones own mind-set from time to time. Scientific psychological publications confirm that the mind-set of a surgeon and his learning potential from errors may be more important than the years of practice and experience.

It is the aim of this lecture to show the development of periodontal surgery in the course of time by clinical cases. Additionally, the human factors concerning decision making will be discussed as well as the technical ones which strongly influence the final results.

## The influence of the masticatory mucosa on functional and esthetic results of implant restorations

The role of masticatory mucosa around teeth has scientifically been investigated in the last decades and the concept of a minimally necessary width to maintain gingival health is no longer valid from a scientific point of view. A similar discussion is going on since a few years about the necessary width of masticatory mucosa around implants and there is no consent within the implant community.

It is the aim of this lecture to summarize the actual literature. Additionally it should be discussed what at all we are aiming for concerning esthetic and functional outcome. These definitions only give us the treatment endpoints of success.

The clinical oriented part of the lecture describes different techniques to maintain and recreate masticatory mucosa at different time points in the sequence of the treatment. At the end there still is the question if the current modality of implant-tissue attachment is the best available we have?

Thommen Implant System



## New Swiss implant generation and immediate loading concept

---

Based on the concept of osseointegration, implant therapy became a scientifically accepted treatment modality, which provides a success rate of more than 90% after 10 years of follow up.

However, in some conditions when we have a healthy cooperative patient, clinically having enough 3-dimensional bone, optimal soft tissue, favorable intermaxillary space, immediate loading with temporary fixed partial denture, or even single tooth restoration, is possible, and overall survival rates for such type of immediate loading procedures are similar after 10 years of function to the normal delayed type of loading 2–4 months after implant placement.

The new generation of the Thommen Implant System has already improved:

- the surface tomography to enhance early bone formation (bioactive surface)
- the drilling instruments to have a very precise non traumatic implant bed preparation
- the implant design with special cutting tread and self-taping apex to improve the primary stability
- the prosthetic components, to be easy, more precise, and low risk of technical failure on long-term function.

In this lecture I will summarize, based on scientific evidence, the advantages of those features to optimize the success of immediate loading procedures.

## Risk Assessment of Dental Implant

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Many factors lead to implant failure, during treatment or late complications after the treatment. Some of these factors are related to our patients, or Implant System applied, or to the clinicians using these implants. In this lecture I will summarize the risk of using Dental Implant as treatment option in daily practice, how to avoid early failure and minimize late complication.

## Implant complications and treatment options

---

Osseointegrated implants are subject to mechanical, and biological complication, or a combination of both. Or complete failures. Most mechanical complications are system related depending on the implant design, and abutment components. Clinical research and many reports have proven that overloading of implants may lead to superstructure complications, or loss of osseointegration. Meanwhile, most of the implants are subject to biological complications, caused by biofilms, and bacterial challenges, when plaque is allowed to accumulate for prolonged periods of time around those implants. Experimental research has demonstrated that “mucositis” may develop in to “peri-implantitis” affecting the peri-implant supporting bone circumferentially, although the bony support may be lost coronally. Bleeding on probing, probing depth, and radiographic interpretation of conventional or subtraction radiographs may help to classify the diagnosis of failures, and a very strict recall visit to apply a maintenance system termed “Cumulative Interceptive Supportive Therapy” has been proposed to solve these biological complications. (Ref: Prof. N. Lang Department of Periodontology and fixed Prosthodontics, Berne University, Switzerland.) In this lecture I will summarize, based on scientific evidence, the treatment options of these complications.

Dr. Nahi Jabbour DDS, MDS, Education Manager Star Science International, Switzerland, Head of Clinical Research and Business Developments, e-mail: nahi.jabbour@bluewin.ch

# SFI-Bar®: a new unique stress-free bar system on implants

- + Stress-free, excellent and stable fit
- + Chairside and labside application
- + Significant reduction of processing time
- + Simply ingenious, thanks to telescope-like connection and individual shortening
- + Safety for patients through the «snap-effect»

The fully prefabricated titanium parts require no critical procedures like casting, soldering, laser welding or milling. Highly sophisticated parts and instruments allow safe and easy processing with saving in time and reduction in costs.

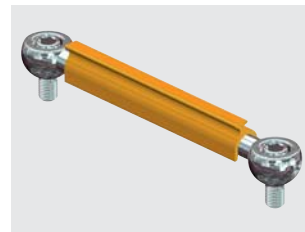
Due to the telescopic design of the bar joints no lateral stress is applied to the implants. The risk of implant failure is therefore significantly reduced.



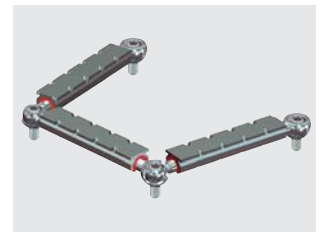
Measuring of exact length of tube bar



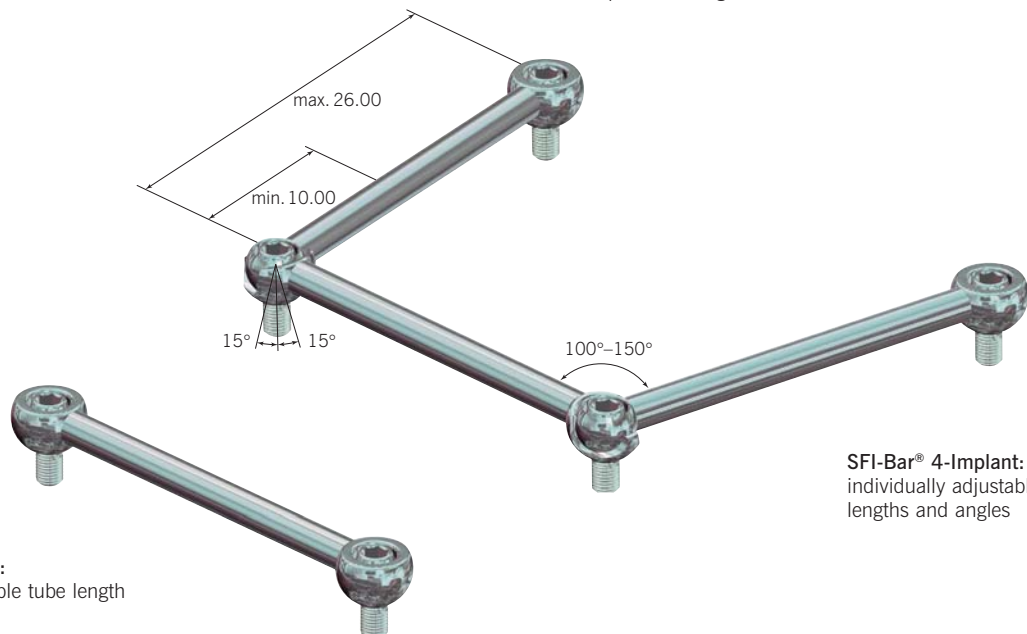
Shortening of the tube bar



SFI-Bar® 2-Implant with asymmetrical gold female part requiring minimum space for integration



SFI-Bar® 4-Implant with titanium female parts with replaceable retention inserts



SFI-Bar® 2-Implant:  
individually adjustable tube length

SFI-Bar® 4-Implant:  
individually adjustable tube lengths and angles

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- Compatibility with implant systems
- Step-by-step animation
- University of Bern, clinical case video

- Technical information
- Instructions for use
- Scientific and clinical publications



# Registration Form for single day

1 day course Dr. Ueli Grunder 28 August including workshop

Course fee: 400.- CHF till 30 June 2014, after 30 June 2014, 500.- CHF

Coffee breaks and business lunch in Hotel Seepark included

<b>Participant</b>	<input type="checkbox"/> Mrs.	<input type="checkbox"/> Mr.
<b>Title</b>	<input type="checkbox"/> Prof.	<input type="checkbox"/> Dr.
<b>Specialization</b>	<input type="checkbox"/> General Practitioner	<input type="checkbox"/> Prosthodontist
	<input type="checkbox"/> Oral Surgeon	<input type="checkbox"/> Periodontist
	<input type="checkbox"/>	<input type="checkbox"/>

Last name:

First name:

Address/street:

Zip code:

City:

Country:

Phone:

Fax:

E-mail:

Total amount paid: Swiss Francs

I herewith accept the terms of this agreement, payment made to the account:

16 9. 394. 462. 04 Universalkonto in Swiss francs

Education and implant program

Bank name: Valiant Bank, Gümligen BE

Address: Füllerichstrasse 53/CH-3073 Gümligen, Switzerland

Swift code: VABECH22XXX/IBAN: CH 39 0630 0016 9394 4620 4

Place and date:

Signature:

## Please mail or fax this form to

Star Science International GmbH | Jupiterstrasse 57 | CH-3015 Bern, Switzerland

Tel. 0041 31 941 07 31 | fax 0041 31 941 07 33 | star.science@bluewin.ch

**Important note:** Invitation letter and course registration will be done after receiving your payment (copy of bank transfer). Refund of paid amount can only be done by reject of visa request (with proof of the Embassy)

## Full course (including pre congress day) Advanced continuing education course in implant dentistry

28 August – 31 August 2014, Course No. 007

<b>Participant</b>	<input type="checkbox"/> Mrs.	<input type="checkbox"/> Mr.
<b>Title</b>	<input type="checkbox"/> Prof.	<input type="checkbox"/> Dr.
<b>Specialization</b>	<input type="checkbox"/> General Practitioner	<input type="checkbox"/> Prosthodontist
	<input type="checkbox"/> Oral Surgeon	<input type="checkbox"/> Periodontist
	<input type="checkbox"/>	<input type="checkbox"/>

Last name:

First name:

Address/street:

Zip code:

City:

Country:

Phone:

Fax:

E-mail:

**Registration:** Course fee: 1,600 CHF till 30 June 2014, after 30 June 2014, 2,000 CHF

**Including:** • lectures and 3 workshops according to the program

- Coffee breaks and business lunches on 28/29/30/31 August 2014 in Hotel Seepark
- Gala dinner and certification on Sunday 31 August 2014 in Hotel Seepark

### Registration for additional person on the Galadinner (spouse or children)

Adult	CHF	100.00
Children age from 4 to 12 years	CHF	50.00
Above 12 years normal price	CHF	100.00

Name adult:

Name child:

Age

Name child:

Age

Deadline for registration 30 June 2014.

**Hotel accommodation is not included. Kindly make your hotel booking (see attached hotel list and approx. prices on the next page). Transportation from Zürich Airport to Thun and back to Zurich is not organized from our Company and can be done from Zürich-Airport to Thun by train. (cost approx. CHF 124.- for a return ticket) Please consult Information desk at Zurich airport**

Total amount paid: Swiss Francs

I herewith accept the terms of this agreement, payment made to the account:

16 9. 394. 462. 04 Universalkonto in Swiss francs

Education and implant program

Bank name: Valiant Bank, Gümligen BE

Address: Füllerichstrasse 53/CH-3073 Gümligen, Switzerland

Swift code: VABECH22XXX/IBAN: CH 39 0630 0016 9394 4620 4

Place and date:







Signature:

**Please mail or fax this form to:** Star Science International GmbH | Jupiterstrasse 57 | CH-3015 Bern, Switzerland, Tel. 0041 31 941 07 31 | fax 0041 31 941 07 33 | star.science@bluewin.ch

**Important note:** Invitation letter and course registration will be done after receiving your payment (copy of bank transfer). Refund of paid amount can only be done by reject of visa request (with proof of the Embassy)

# Accommodation

You are kindly requested to make your hotel bookings by yourself  
Please find below Hotel proposal in Thun:  
The seminary takes place in Congress Hotel Seepark

	Prices single room	double room
<b>Congress Hotel Seepark 4*</b>  Seestrasse 47, 3602 Thun Tel. +41 33 226 12 12 <a href="http://www.Seepark.ch">www. Seepark.ch</a> booking through: <a href="mailto:info@seepark.ch">info@seepark.ch</a> remark for booking: Star Science seminary location: directly on the lake shore The seminary is hold inside of this Hotel	220 CHF incl. breakfast	330–350 CHF incl. breakfast
 		
<b>Hotel Freienhof 4*</b>  Freienhofgasse 3, 3600 Thun Tel. +41 33 227 50 50 <a href="http://www.freienhof.ch">www.freienhof.ch</a> booking through: <a href="mailto:info@freienhof.ch">info@freienhof.ch</a> location: in the center of Thun city From Hotel Freienhof to seminary room: <ul style="list-style-type: none"> <li>• By walking: 20 minutes</li> <li>• By bus: 5 minutes (from railway station)</li> </ul>	160–180 CHF incl. breakfast	265–285 CHF incl. breakfast
 		
<b>Hotel Holiday 3*</b>  Gwattstrasse 1, 3604 Thun Tel. +41 33 334 67 67 <a href="http://www.holiday-thun.ch">www.holiday-thun.ch</a> booking through: <a href="mailto:info@holidaythun.ch">info@holidaythun.ch</a> remark: Star Science seminary location: near the lake shore From Hotel Holiday to seminary room: <ul style="list-style-type: none"> <li>• By walking: 10 minutes</li> <li>• By bus: 4 minutes</li> </ul>	150 – 165 CHF incl. breakfast	210 CHF incl. breakfast
 		



# General Terms of Business

**1. Registration** Written applications by way of the fax/postal form or online are deemed binding and must be filed at the latest by before deadline. Consideration is given to applications in the order in which they are received. A legally valid contract shall only be brought about following confirmation of the application. The respective amount is to be settled without trade discounts or reductions (free of expenses for the recipient).

We reserve the right to amend the program. Verbal subsidiary agreements are not valid if they have not been confirmed in writing. All General Terms and Conditions are accepted once a party files an application to participate in the course.

**2. Security and implementation regulations** Upon registering for the course, participants acknowledge organizer's security, access and other implementation regulations and take note that if participants do not abide by these regulations or the instructions issued by the promoters on site they may be excluded from the event without any entitlement to compensation.

**3. Postponing the event** If the event is postponed, tickets shall automatically be valid for the event reschedule date. Participants may neither return nor exchange tickets.

**4. Cancellation of event** If the event is cancelled, participants may return tickets to the organizer office within 30 days following cancellation of the event. In such cases, amounts paid in advance for tickets shall be reimbursed in full.

**5. Stopping the event** If the event needs to be stopped due to external factors such as fire, water or other environmental factors, the entrance fee cannot be reimbursed. The same applies if the event needs to be stopped due to demonstrations, violence or threats by third parties.

**6. Cancellation policy** All cancellations must be notified in writing (by mail or fax) to the congress office according to the following conditions:

Cancellation is accepted in special cases: no obtain of visa or illness/accident (with written and stamped attest)

- **Before 30 June 2014: Total amount will be refunded less CHF 100 for administrative fees. With no payment received before cancellation, these CHF 100 will still remain due.**
- **Between 31 March and 31 May 2014: Reimbursement of 50% of the fees paid. With no payment received before cancellation, this amount will still remain due.**
- **After 30 June 2014: No refund. With no payment received before that date, the total amount will still remain due.**

**All refunds will be issued after the congress. Requests will not be accepted after 31 October 2014.**

These conditions shall also apply if participants are prevented from attending the symposium due to illness, accidents, or for similar reasons. In such cases notification of rescission is to be given by post (to Star Science International GmbH, Jupiterstrasse 57, CH-3015 Bern, Switzerland, Tel. 0041 31 941 07 31, Fax 0041 31 941 07 33, E-mail: star.science@bluewin.ch).

The date on which notification is received shall be deemed authoritative in respect of determining an entitlement to reimbursement.

**7. Exemption from liability** The liability on the part of organizers for direct and indirect damage as well as consequential damage that participants sustain in conjunction with the organization and implementation of an event shall be eliminated by way of agreement insofar as such action is legally permissible. In particular, Star Science International GmbH shall only be liable for damage or consequential damage that is caused by event cancellations or inappropriate organization. Insurance coverage for personal and material damage is the participant's responsibility. In any case, liability for all contractual, tortious or other claims is limited to the event participation fee. Any kind of further-reaching damage shall not be compensated. Any claims for damages or other claims on the part of the participant for provision of an amount of money shall fall under the statute of limitations within one year from the time at which they are lodged. To safeguard such claims, participants are required to lodge claims in court within 90 days with effect from the date on which they occurred.

Otherwise, participants shall forfeit claims in full.

**8. Data protection** Organizer attaches great importance to data protection. Personal data are therefore treated in strict confidence. The details provided by participants shall not be forwarded to third parties and shall only be used to stage an event (including lists of participants with names, companies and locations). However, the organizer reserves the right to use such data for its own advertising purposes or at the request of sponsors and supporters to forward such data to such parties for one-off use in conjunction with the sponsored event. If expressly requested by participants, organizer will, of course, refrain from such action if participants inform organizer accordingly in writing without delay following registration.

**9. Applicable law and place of jurisdiction** Swiss law applies to the contractual relationship and all disputes between participants and organizer **Star Science International GmbH**. The ordinary court of law with jurisdiction for the location in which **Star Science International GmbH** has its registered office (Bern, Switzerland) is hereby deemed the sole pertinent court in respect of all contractual, tortious or other claims.

# Organization

## Organizer

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mmetwally@atc.com.kw

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Beirut, Lebanon  
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Mr. Jean Paul Hage  
Mobile +961 3 10 12 11  
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