MEISINGER’s 5th Annual High Altitude Comprehensive Implant Symposium
(Formerly High Altitude Bone Management® Winter Camp)
January 28th – February 1st 2015
Vail, Colorado, USA

Up to 22 CE Credits

Speaker Lineup

Dr. Michael A. Pikos
Dr. Istvan Urban
Dr. Sascha Jovanovic
Dr. Daniel Cullum

Dr. Scott Ganz
Dr. John Russo
Dr. Dwayne Karateew
Dr. Michael S. Block

Dr. Brian Butler
Dr. Mitra Sadrameli
Dr. Robert Gellin
Dr. Robert J. Miller
Symposium Highlights
The symposium will feature lectures and optional hands-on workshops by world renowned speakers. There are four in-depth limited-attendance hands-on workshops.

Topics include
Soft Tissue Autografts and Allografts workshop with Dr. John Russo and Dr. Robert Gellin
Ridge Expansion & Modified Osteotome Techniques in Implant Reconstruction with Dr. Daniel Cullum
Sinus Elevation at Time of Tooth Removal with Dr. Michael Block
Course Intent

Bone Management® is key to successful implant procedures. “Tissue is the Issue but Bone sets the Tone.” Besides the prosthetic aspect, achieving minimally invasive surgical techniques, along with predictable results, facilitates less traumatic and more controlled surgical procedures.

This course outlines implant treatment planning, site preparation, surgical procedures and techniques including: ridge expansion, connective tissue grafting, bone grafting, esthetic zone implants, e.max® and zirconia restoration, CBCT imaging, and much more. Bone Management® is not simply limited to a technique but rather to a mindset and surgical guidelines.

Learning Objectives

Participants will gain an understanding of:

• Developing a treatment plan and transforming it into clinical actuality
• The benefits of computer based planning in promoting communication between the implant surgeon, the restorative dentist, and the laboratory technician
• The importance of hard and soft tissue management in the esthetic and non-esthetic zones
• Optimizing CBCT imaging for implant and bone graft success
• Determining surgical risk factors and avoiding complications

Venue

Marriott: Vail Mountain Resort
715 W Lionshead Circle
Vail, CO 81657

The Marriott Vail Mountain Resort was chosen not only because of Vail Mountain having one of the world’s most expansive ski resorts, but also because of Vail’s incredible location. The resort is conveniently located within walking distance of Vail Village where guests will find over 100 shops, pubs and restaurants.

Group room rates starting at $389/night. Call 1-877-622-3140 or go to https://resweb.passkey.com/go/BoneMgmt2014 – to make your hotel reservations!

For more information

MEISINGER USA: Phone: +1 (303) 268-5400 / Toll free: +1 (866) 634-7464, info@meisingerusa.com, www.meisingerusa.com
### Wednesday, January 28th, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>04:00 pm – 08:00 pm</td>
<td>Registration</td>
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<tr>
<td>06:00 pm – 08:00 pm</td>
<td>Opening Reception / Registration / Exhibits / Full Bar and Hors d’oeuvres</td>
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### Thursday, January 29th, 2015

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<tr>
<th>Time</th>
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<tr>
<td>06:45 am – 07:30 am</td>
<td>Breakfast / Opening Remarks and Introductions</td>
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<tr>
<td>07:45 am – 09:45 am</td>
<td>Dr. Daniel Cullum: Ridge Expansion &amp; Modified Osteotome Techniques in Implant Reconstruction</td>
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<tr>
<td>10:00 am – 11:30 am</td>
<td><strong>Workshop 1</strong> Dr. Daniel Cullum: Ridge Expansion &amp; Modified Osteotome Techniques in Implant Reconstruction</td>
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<td>12:00 pm – 01:30 pm</td>
<td><strong>Workshop 6</strong> Dr. Daniel Cullum: Crestal Sinus Elevation Techniques</td>
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<td>01:30 pm – 05:00 pm</td>
<td><strong>Workshop 2</strong> Dr. John Russo &amp; Dr. Robert Gellin: Soft Tissue Autografts and Allografts</td>
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<tr>
<td>05:15 pm – 06:45 pm</td>
<td>Dr. Michael Pikos: Maxillary Arch Reconstruction: Single Tooth to Full Arch</td>
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<tr>
<td>06:45 pm – 08:30 pm</td>
<td>Exhibitor Party / Case Review</td>
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**Schedule of Events**

### Friday, January 30th, 2015

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<tr>
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| 07:30 am – 09:00 am  | **Dr. Michael Block**  
Sinus Elevation at Time of Tooth Removal  
Maxillary Full Arch Restoration – Diagnosis and Treatment Planning for Removable vs. Fixed Crown and Bridge vs. Hybrid Designs |
| 09:15 am – 10:15 am  | **Dr. Scott Ganz**  
An Important Link to Prosthetic Success for Immediate and Delayed Loading Managing the Abutment |
| 10:30 am – 12:00 pm  | **Workshop 3**  
**Dr. Scott Ganz**  
ALMOST SOLD OUT  
An Important Link to Prosthetic Success for Immediate and Delayed Loading Managing the Abutment |
| 10:30 am – 01:30 pm  | **Workshop 4A**  
**Dr. Istvan Urban**  
ALMOST SOLD OUT  
Reconstruction of Severely Atrophic Ridges |
| 02:00 pm – 05:00 pm  | **Workshop 4B**  
**Dr. Istvan Urban**  
NEW!  
Reconstruction of Severely Atrophic Ridges |
| 05:15 pm – 06:15 pm  | **Dr. Brian Butler**  
Restoring Implant Complications |
| 06:30 pm – 07:30 pm  | **Dr. Sascha Jovanovic**  
Immediate Tooth Replacement - Indications, Limitations and Results |

### Saturday, January 31st, 2015

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<tr>
<td>06:45 am – 07:30 am</td>
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| 07:30 am – 09:00 am  | **Dr. Mitra Sadrameli and Dr. Dwayne Karateew**  
Avoiding Complications with 3D Imaging and Virtual Treatment Planning for Predictable Implant and Ancillary Procedures |
| 09:15 am – 10:15 am  | **Dr. Robert Miller**  
Biologic Strategies to Enhance Clinical and Aesthetic Success in Oral Implantology |
| 10:30 am – 12:00 pm  | **Workshop 5**  
**Dr. Robert Miller**  
NEW!  
Biologic Strategies to Enhance Clinical and Aesthetic Success in Oral Implantology |
| 01:30 pm – 03:00 pm  | Ski-Race                                                                |
| 05:30 pm – 09:00 pm  | Closing Dinner and Awards                                                |

Schedule Subjects to change
About our Speakers

Dr. Michael S. Block
Dr. Block graduated from the University of Rochester in 1975, attaining both a BA in Biology and a BS in Biomedical Engineering. He completed his dental training at the Harvard School of Dental Medicine in 1979, receiving his D.M.D. cum laude in a special field. He completed his residency program in Oral and Maxillofacial Surgery at the LSU School of Dentistry in 1983. He remained at the LSU School of Dentistry and achieved the academic rank of Professor in the Department of Oral and Maxillofacial Surgery. Currently he is in private practice dedicated to patient oriented care. Dr. Block is particularly interested in the translation of technology for efficient and predictable reconstruction of the jaw to provide ideal bone for implant placement and esthetic replacement of missing teeth, the use of multiple techniques and implants to reconstruct significant atrophic conditions, and interceptive strategies for rehabilitating extraction sites with implant restorations.

Dr. Brian Butler
Dr. Brian Butler received his dental degree in 2000, his certificate in prosthodontics in 2003, and his M.S. in 2007 from Baylor College of Dentistry. He is currently practicing as a partner in a private prosthodontic practice specializing in implant and restorative dentistry in Denver, Colorado. Brian is a Fellow of the ITI and The Academy of Dentistry International and a member of the American Dental Association, Colorado Dental Association, Metropolitan Denver Dental Society, Colorado Prosthodontic Society, Texas Dental Association, American College of Prosthodontics, and Academy of Osseointegration. He lectures on complex restorative therapy and dental implants including diagnoses, treatment planning, and restorative treatment options. He is active in ITI Project 31 domestic and international dental mission work. Brian enjoys hunting, fishing, backpacking, skiing and a love for the outdoors in his free time.

Dr. Daniel Cullum
Dr. Dan Cullum completed his DDS with distinction at the University of Alberta, Canada and residency training at Westchester Medical Center, New York. Dr. Cullum is a Diplomat of the American Board of Oral and Maxillofacial Surgery and is on faculty as a Visiting Lecturer at Loma Linda University, Department of Oral and Maxillofacial Surgery and UCLA, Department of Oral and Maxillofacial Surgery. He speaks internationally and has contributed articles and textbook chapters on implant reconstruction. At Implants Northwest (Coeur d’Alene, ID), he practices Oral and Maxillofacial Surgery with emphasis on immediate and minimally invasive techniques in esthetic implant reconstruction. Dr. Cullum is also president of Implants Northwest LIVE Learning Center, which emphasizes training in advanced techniques for surgeon/restorative teams using LIVE surgery and hands-on application.

Dr. Scott Ganz
graduated from New Jersey Dental School and then completed a three-year specialty program in Maxillofacial Prosthetics at M.D. Anderson Cancer Center in Houston, TX. Dr. Ganz has published over 75 articles and contributed to 9 scientific textbooks. He presents nationally and internationally on Prosthetic and Surgical phases of Implant Dentistry and is considered one of the world’s leading experts in the field of Computer Utilization for Diagnostic, Graphical, and Treatment Planning Applications in Dentistry. For more than 22 years Dr. Ganz has been a featured speaker for numerous professional organizations, currently serves as Associate Editor for the peer-reviewed journal, Implant Dentistry, and the editorial staff of several other publications. Dr. Ganz is a Past President of the N.J. Section of the American College of Prosthodontists, and the Computer Aided Implantology Academy (CAI Academy), and currently serves on the Board of Directors of the ICOI.
About our Speakers

Dr. Robert Gellin
Robert G. Gellin, DMD, MHS is a 1980 graduate of the University of Kentucky, College of Dentistry. He earned his Certificate in Periodontics and Master in Health Sciences degree in 1985 from the Medical University of South Carolina, College of Dental Medicine. Dr. Gellin is Professor and Chair of the Department of Stomatology and Director of the Division of Periodontics at the Medical University of South Carolina (MUSC), College of Dental Medicine. He has been on the faculty at MUSC since 1985. Dr. Gellin is a Diplomate of the American Board of Periodontology. Prior to his specialty training in Periodontics, he spent three years in the U.S. Public Health Service including a one-year general practice residency. He maintains an active practice limited to Periodontics within the College’s Dental Faculty Practice. Dr. Gellin presents didactic lectures and seminars to pre-doctoral students and post-doctoral periodontic residents and is an attending in the Periodontics Clinic.

Dr. Sascha Jovanovic
Sascha A. Jovanovic was formally trained in Periodontics at UCLA School of Dentistry, in Implant Dentistry at Loma Linda University and in Prosthodontics at University of Aachen, Germany and holds a Master of Sciences degree in Oral Biology from UCLA. He graduated dental school from the University of Amsterdam (ACTA). Since 1990, he resides in Los Angeles and restricts his patient and research work for 23+ years to dental implant therapy and bone & soft tissue reconstruction. He is Course Director in Implant Dentistry at UCLA Continuing Dental Education, is Academic Chair and Founder of gIDE, which is the #1 ranking dental education institute (www.gidedental.com). He teaches implant dentistry extensively worldwide. He has published 63 articles and book chapters, and one textbook titled Color Atlas of Implantology (Thieme Publ.). He is on several editorial boards for scientific journals and has published a DVD and Online education series titled ‘Advanced Implant Therapy’.

Dr. Dwayne Karateew
Dr. Karateew’s dental degree is from Columbia University in New York City, and has diplomas in Periodontics and Fixed Prosthodontics from the University of Pennsylvania. He has served on the faculties of the University of Washington, in post-graduate Prosthodontics, and the University of British Columbia both in undergraduate Prosthodontics and postgraduate Periodontics as the Director of Implant Surgery. Currently, Dr. Karateew maintains a high-end boutique style solo practice in beautiful Vancouver, Canada concentrating on implant assisted dental rehabilitation and aesthetics.

Dr. Robert J. Miller
Dr. Robert J. Miller is an internationally recognized lecturer, academician, author, and researcher. A 1981 graduate of New York University College of Dentistry, he completed a postgraduate residency at Flushing Hospital and Medical Center. Dr. Miller’s private practice in Palm Beach, Florida includes a multidiscipline state-of-the-art facility including 3D imaging, lasers, and navigated implant placement. He is a Fellow American College of Dentists, Diplomate American Board of Oral Implantology, Honored Fellow of the American Academy of Implant Dentistry, Diplomate International Congress of Oral Implantologists, Fellow Academy of Osseointegration and serves as Chairman of the Department of Oral Implantology at the Atlantic Coast Dental Research Clinic in Palm Beach, Florida.
About our Speakers

**Dr. Michael A. Pikos**

Dr. Michael A. Pikos is originally from Campbell, Ohio. He attended The Ohio State University where he graduated Summa Cum Laude and Phi Beta Kappa. He also graduated with honors from The Ohio State University College of Dentistry. Dr. Pikos completed an internship at Miami Valley Hospital and residency training in Oral & Maxillofacial Surgery at the University of Pittsburgh, Montefiore Hospital.

Dr. Pikos is founder and CEO of the Pikos Implant Institute. Since 1990, he has been teaching advanced bone and soft tissue grafting courses with alumni that now number more than 2,700 from all 50 states and 32 countries. Dr. Pikos maintains a private practice which is limited exclusively to implant surgery in Palm Harbor, Florida.

**Dr. John Russo**

John Russo, D.D.S., M.H.S. is a graduate of The Ohio State University College of Dentistry. He completed his periodontal training and earned a Master in Health Sciences degree from the Medical University of South Carolina. Dr. Russo is a Diplomate of the International Congress of Oral Implantologists. He is in private practice in Sarasota, FL and is a clinical assistant professor at the Medical University of South Carolina in the Division of Periodontics. He is an author and an International lecturer on bone grafting and dental implant surgery.

**Dr. Istvan Urban, DMD, MD**

received his DMD degree and subsequently his MD degree from Semmelweis University School of Medicine and Dentistry in 1992 and 1996. 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, Dr. Urban is conducting several clinical studies about the success of bone augmentation procedures and the long-term success rates of dental implants placed in regenerated bone. He has published several scientific articles and book chapters on the topic of bone regeneration.

**Dr. Mitra Sadrameli**

completed a three-year specialty program in Oral and Maxillofacial Radiology at University of Texas Health Science Center in San Antonio Texas (UTHSCSA). Dr. Sadrameli has delivered presentations nationally and internationally on 3D imaging and its influence on personal patient care including diagnosis of pathology as well as implant planning and treatment, and is a Key Opinion Leader for SimPlant software (Materialise) technology. She received her dental degree from University of Florida, and AEGD certificate from Columbia University College of Dental Medicine. She practiced general dentistry for over a decade prior to returning to graduate school for specialty training. Her areas of interest are 3D personal patient care, medical 3D printing and rapid prototyping.
Impressions

of the 4th Annual High Altitude Bone Management® Winter Camp 2014 in Beaver Creek, Colorado

“Quality of Speakers, Meisinger Staff, Mixture of Business and Relaxation”

Dr. Rick Robinette

“Very well organized, speakers, very accommodating and accessible great course!”

Joyce Warwick
Lecture Topics

**Sinus Elevation at Time of Tooth Removal**
(Lecture)
**Dr. Michael Block**

This presentation will demonstrate a method to intrude bone into the sinus at the time of molar removal. This method results in 5 to 8mm more bone than available from simple socket grafting. After the socket has healed an addition 3mm can be intruded for placement of 11mm long implants, avoiding the need for lateral window approach.

**Maxillary Full Arch Restoration – Diagnosis and Treatment Planning for Removable Vs. Fixed Crown and Bridge Vs Hybrid Designs**
(Lecture)
**Dr. Michael Block**

This presentation will begin with the preoperative examination of the patient and the intertwining of digital methods to diagnose the optimal plan for the patient taking into consideration smile line, alveolar ridge bone height, method of final restoration, and different methods to provisionalize after tooth removal. The use of cone type attachments will be shown for those with space and financial limitations; the use of hybrid designs will be shown, and the use of zirconia type restorations will be shown for those patients who will be missing only their crowns with excellent bone height preservation.

**Restoring Implant Complications**
(Lecture)
**Dr. Brian Butler**

This presentation will discuss the techniques to provide esthetic results for anterior esthetic implant restorations. Treatment planning and restoring the ideal implant restoration for the anterior tooth will be discussed as well as how to treatment plan and restore implants with complications. Implants with complications can provide the most challenging scenarios a restorative dentist must face and how to provide predictable results, will be discussed.
- Ideal implant restorations
- Restoring complicated implant restorations
- Dentist-Laboratory Technician communication
- Dental material selection
- Implant Naturalization for implant complications

**Ridge Expansion & Modified Osteotome Techniques in Implant Reconstruction**
(Lecture)
**Dr. Daniel Cullum**

Bone manipulation can enhance bone quality and improve alveolar dimensions with ridge expansion and minimally invasive sinus floor elevation. With ridge expansion (RE) a vascular “bone flap” is developed to restore the functional proportions of the alveolus with simultaneous implant insertion. RE utilizes the healing potential of bone like an extraction site. Recent application of new technologies including: ultrasonic bone cutting, mechanical expanders and implant designs have simplified treatment of mandibular horizontal deficiencies. Modified osteotome techniques and Contiguous Sinus Floor Elevation offer a minimally invasive approach in the management of moderate horizontal and vertical maxillary defects. Cone Beam CT imaging is important in evaluation and technique selection. Application of bone manipulation, including flap designs, soft tissue augmentation and the prevention of complications will be discussed.

**Objective 1:** Reduce treatment time and expenses for patients with the application of ridge expansion techniques for single stage implant placement.

**Objective 2:** Identify defects at inadequate implant recipient sites appropriate for implant reconstruction with ridge expansion and trans-alveolar sinus elevation.

**Objective 3:** Identify and manage the low sinus with trans-alveolar sinus elevation techniques at the time of tooth extraction.
An Important Link to Prosthetic Success for Immediate and Delayed Loading Managing the Abutment  
(Lecture)  
Dr. Scott D. Ganz

Proper pre-surgical prosthetic planning involves understanding the patient’s bony anatomy, adjacent teeth, vital structures, occlusion and desired esthetics. Utilizing advanced three-dimensional imaging modalities combined with interactive treatment planning software helps clinicians provide an accurate assessment of implant receptor sites for both immediate and delayed loading protocols. Once the implant position is determined, the link between the implant and the desired tooth position is the abutment.

Ideally, it is important to determine the restorative options based on implant position and prosthetic connection prior to implant placement. Dental implant companies offer a growing selection of restorative options, including a variety of stock and custom abutments that are designed to accommodate the individual needs of your patient. Choosing the correct abutment is an important part of the planning and ultimate restorative process, and can aid in the healing process for immediate restorations. Abutment considerations should be based upon multiple factors including the type of restoration (screw-retained or cementable), interarch spacing, location esthetics, implant angulation, spatial positioning, and surrounding soft tissue.

In today’s economy, with cost being a major concern for both patients and practices, stock abutments are growing in popularity. Stock Abutments can be used as is, or can be customized to meet the specific restorative demands of the site and the anti-rotational features of the implant. Other stock abutments have pre-machined margins, or are prefabricated in such a way as to save both time and money when used in conjunction with matching restorative and laboratory components. Once the clinician or the dental laboratory prepares a stock abutment it becomes a “custom abutment”… The purpose of this course is to help you navigate the decision matrix that goes into choosing the right abutment, and learning how to properly prepare stock abutments with the Abutment Preparation Kit from Meisinger, and to learn how to maximize fit of the restoration, and ultimate esthetics and function.

Immediate Tooth Replacement - Clinical and Biologic Protocols for Success  
(Lecture)  
Dr. Sascha Jovanovic

This presentation will provide the current knowledge in implant team approach on how to achieve the biological and clinical success when placing implants into extractions sites.

It is well established that tooth extraction will result in an apico-coronal and bucco-lingual reduction of the alveolar ridge, mostly in the buccal aspects of the extraction site. It will be demonstrated that immediate implant placement fails to prevent buccal bone loss and that socket graft with bone substitutes can compensate for such bone loss.

Clinical case decision making on the timing of the implant placement, the type of bone graft placement and GBR membranes, the need for soft tissue grafts and the focus on biological shaped abutments will show the potential of an harmonious healing of the tissues and a stable successful implant gingival margin.

Objective 1: To understand the criteria for immediate implant placement.  
Objective 2: To be able to identify the proper tissue management and grafting protocol.  
Objective 3: To choose the ideal material, shape and timing of abutment and prosthesis.
Maxillary Arch Reconstruction: Single Tooth to Full Arch

Dr. Michael A. Pikos

Implant therapy for the maxillary arch can be challenging for the dental implant team both from a functional and esthetic prospective. Regenerative, implant and restorative disciplines endeavor to recreate an esthetic harmony of a healthy dentoalveolar process, to the goal of definitive restorations that mimic or enhance natural dentition. This presentation will focus on integrating digital imaging technology with hard and soft tissue regenerative protocols to rehabilitate the compromised anterior and posterior maxilla. The use of autografts, allografts, and xenografts along with bioactive modifiers and nonresorbable and resorbable mesh will be covered. The spectrum of extraction site to 3D defect management will be covered.

Objective 1: Understand extraction site management of compromised sites in the esthetic zone.

Objective 2: Understand the indications and application of autogenous bone for anterior, posterior and full arch maxillary alveolar ridge deficiencies.

Objective 3: Understand the indications and application of mesh particulate grafts with bioactive modifiers for anterior, posterior and full arch maxillary alveolar ridge deficiencies.
Avoiding Complications with 3D Imaging and Virtual Treatment Planning for Predictable Implant and Ancillary Procedures
(Lecture)
Dr. Mitra Sadrameli and Dr. Dwayne Karateew

Advances in digital technologies are rapidly changing the manner in which we plan and treat our implant patients. Predictable outcomes are achieved through a consolidated effort involving the maxillofacial radiologist, the surgical dentist, the restorative dentist and the technician. The flow and symbiotic relationship of digital data (DICOM and STL) not only ensures accurate diagnosis and treatment planning, but also predictable bone grafting, fixture placement and an enhanced esthetic and functional outcome. The use of CBCT, Virtual Treatment Planning, CAD/CAM surgical guide utilization, CAD/CAM custom allograft fabrication, all combine to enable the team to increase the available informatics and assist in the avoidance of significant complications.

Objective 1: Create an understanding of the topography of the compromised or atrophied alveolar ridge (immediate socket environment, anterior ridge, posterior ridge and para-sinus), and provide insight into what information the surgeon requires.

Objective 2: Highlight the benefits of a digital diagnostics and workflow

Objective 3: Understand the difference between conventional techniques and digital protocols

Objective 4: Create an advanced treatment plan incorporating implant and/or bone grafting procedures with an understanding of each of the digital component sections
Optional Hands-On Workshops

**Thursday, January 29th, 2015**

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<th>Time</th>
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| 10:00 am – 11:30 am | **Workshop 1** | **Dr. Daniel Cullum**  
Ridge Expansion & Modified Osteotome Techniques in Implant Reconstruction  
(limited attendance-hands-on workshop)  
Bone manipulation can enhance bone quality and improve alveolar dimensions with ridge expansion and minimally invasive sinus floor elevation. With ridge expansion (RE) a vascular “bone flap” is developed to restore the functional proportions of the alveolus with simultaneous implant insertion. RE utilizes the healing potential of bone like an extraction site. Recent application of new technologies including: ultrasonic bone cutting, mechanical expanders and implant designs have simplified treatment of mandibular horizontal deficiencies. Modified osteotome techniques and Contiguous Sinus Floor Elevation offer a minimally invasive approach in the management of moderate horizontal and vertical maxillary defects. Cone Beam CT imaging is important in evaluation and technique selection. Application of bone manipulation, including flap designs, soft tissue augmentation and the prevention of complications will be discussed.  
Fee: $395.00 | $395.00 |
| 12:00 pm – 1:30 pm | **Workshop 6** | **Dr. Daniel Cullum**  
Crestal Sinus Elevation Techniques  
(limited attendance-hands-on workshop)  
The vertically deficient posterior maxilla often requires augmentation to allow implant placement. Using an extensive video library and hands-on demonstration this course will review Trans-alveolar Sinus Elevation (TASE) techniques with osteotomes, crestal lift control and advanced techniques using Contiguous Sinus Floor Elevation (CSFE) for large elevations (5-8 mm). These techniques offer minimally invasive approach and often simultaneous implant insertion. Sinus floor elevation at maxillary extraction sites can offer patients immediate implant reconstruction. These techniques offer a faster healing interval and minimal discomfort. Cone Beam CT imaging is important for evaluation of alveolar dimensions, sinus anatomy and pathology for appropriate technique selection. We will discuss progressive skill development and CT diagnosis to avoid complications.  
Fee: $395.00 | $395.00 |
### Optional Hands-On Workshops

**Workshop 3**  
**Thursday, January 29th, 2015**  
**01:30 pm – 05:00 pm**  
**Dr. John Russo and Dr. Robert Gellin**  
Soft Tissue Autografts and Allografts  
*(limited attendance-hands-on workshop)*  
**ALMOST SOLD OUT**

This presentation will be divided into a focused one-hour lecture and a two-hour hands-on session. The discussion will include the free gingival graft, connective tissue graft, acellular dermal matrix and living cellular sheet. The objective is for the participant to have a clearer understanding of the differences between these procedures regarding: definition, indications, contraindications, surgical techniques and expected outcomes. The procedures will be demonstrated and the Periodontist faculty will provide one-on-one instruction in the surgical technique on prepared porcine specimens. Special instruments for soft tissue grafting will be demonstrated and provided for use during the hands-on session.

**Fee:** $325.00

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**Workshop 2**  
**Friday, January 30th, 2015**  
**10:30 am – 12:00 pm**  
**Dr. Scott Ganz**  
An Important Link to Prosthetic Success for Immediate and Delayed Loading Managing the Abutment  
*(limited attendance-hands-on workshop)*  
**ALMOST SOLD OUT**

Proper pre-surgical prosthetic planning involves understanding the patient’s bony anatomy, adjacent teeth, vital structures, occlusion and desired esthetics. Utilizing advanced three-dimensional imaging modalities combined with interactive treatment planning software helps clinicians provide an accurate assessment of implant receptor sites for both immediate and delayed loading protocols. Once the implant position is determined, the link between the implant and the desired tooth position is the abutment. Ideally, it is important to determine the restorative options based on implant position and prosthetic connection prior to implant placement. Dental implant companies offer a growing selection of restorative options, including a variety of stock and custom abutments that are designed to accommodate the individual needs of your patient. Choosing the correct abutment is an important part of the planning and ultimate restorative process, and can aid in the healing process for immediate restorations. Abutment considerations should be based upon multiple factors including the type of restoration (screw-retained or cementable), interarch spacing, location esthetics, implant angulation, spatial positioning, and surrounding soft tissue. In today’s economy, with cost being a major concern for both patients and practices, stock abutments are growing in popularity. Stock Abutments can be used as is, or can be customized to meet the specific restorative demands of the site and the antirotational features of the implant. Other stock abutments have pre-machined margins, or are prefabricated in such a way as to save both time and money when used in conjunction with matching restorative and laboratory components. Once the clinician or the dental laboratory prepares a stock abutment it becomes a “custom abutment”… The purpose of this course is to help you navigate the decision matrix that goes into choosing the right abutment, and learning how to properly prepare stock abutments with the Abutment Preparation Kit from Meisinger, and to learn how to maximize fit of the restoration, and ultimate esthetics and function.

**Fee:** $149.00
**Optional Hands-On Workshops**

**Saturday January 31st, 2015**

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<th>Time</th>
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| 10:30 am – 01:30 pm | **Dr. Robert Miller**  
Bioengineering with L-PRF™ Membrane Technology  
(limited attendance-hands-on workshop) | Reconstruction of Severely Atrophic Ridges  
(limited attendance-hands-on workshop) |

L-PRF™ (Leukocyte – Platelet Rich Fibrin) is a 3-D autogenous combination of Platelet Rich Fibrin derived from the patient’s blood. A simplified chairside procedure results in the production of a thin, compressed layer of platelet rich fibrin that is strong, pliable and suitable for suturing. This natural fibrin network is rich in platelets, growth factors and cytokines that are derived from the blood platelets and leukocytes. The presence of these proteins are reported to produce rapid healing, especially during the critical first seven days after placement. This network promotes more efficient cell migration and proliferation without chemical or bovine thrombin additives.

- Simple and economic
- Natural - 100% autologous
- Thin Fibrin Matrix & Plugs
- Leukocytes, Platelets and Fibrin
- Slow Release at ≥ 7 days
- Matrix for Bone Graft Material

Intra-Lock’s featured workshop by Dr. Robert Miller will be devoted to presenting the background, science, research, applications, and methodologies of L-PRF. L-PRF membranes are autogenous and contain natural proteins, growth factor technology, and biological characteristics indigenous to the patient – It is all natural.

**Fee:**

- **$149.00**

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Reconstruction of Severely Atrophic Ridges  
(limited attendance-hands-on workshop) | Reconstruction of Severely Atrophic Ridges  
(limited attendance-hands-on workshop) |

Reconstruction of severely atrophic ridges presents one of the greatest challenges in implant dentistry. This is primarily due to the difficulty of the surgical procedures and its potential complications. Patient selection, patient preparation for surgery, precise surgical techniques and postoperative management are the key factors in reducing the rate of bone graft complications. Careful adherence to these factors should result in complications with bone graft healing in less than 3% of the cases. Recent research on ridge augmentation will be presented. An exciting, new treatment modality of soft tissue reconstruction surgery that regenerates tissues after bone reconstructions using collagen matrixes in conjunction with autogenous micro grafts will be introduced. Utilizing these procedures may lessen the need of harvested autogenous bone and may generally lead to decreased morbidity and therefore increased patient comfort and satisfaction associated with these regenerative procedures.

**Fee:**

- **$395.00**

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**NEW!**
Course Fee Includes:

• Access to opening reception (Wednesday evening)
• Access to all lectures
• Buffet breakfast served on January 29\textsuperscript{th} - January 31\textsuperscript{st} (Thursday, Friday, and Saturday)
• Access to Case Review/Exhibitor Party (Thursday evening)

Important Notice:

• Acts beyond our control that may preclude this course from being held shall not be grounds for a refund
• Course speakers and course sponsors are subject to change
• The course deposit is non-refundable
• Rooms are limited at the Vail Marriott to the first 100 registrants
• Should the course be cancelled due to unforeseen reasons, all monies collected prior to the event will be promptly refunded
• All registrations must be made through MEISINGER USA

Accreditation:

173 Ashley Avenue • Charleston, SC 29425
The Medical University of South Carolina, Department of Stomatologv, Division of Periodontics has been using cadavers for continuing education in order to teach advanced bone grafting surgical procedures since 2001.

The MUSC College of Dental Medicine is an ADA CERP recognized provider.

ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry. The MUSC College of Dental Medicine designates this activity for 22 hours of continuing education credits.
Hybrid Pin System - developed with Dr. Istvan Urban

The Bone Management® system Master-Pin-Control is especially designed for the fixation of reabsorbable, non-reabsorbable and titanium membranes. Since the pins have an extra mini-thread, they are a hybrid between a screw and a pin. The sharp tip and the sturdy construction allow the pins to be inserted into very compact cortical bone. In addition, the pins can easily and safely be removed especially after a successful healing period due to its thread and unique head design.

At a glance
- Fixation of membrane with pins
- Removal of pins and gentle tapping with pin holder
- Twist drilling can be performed depending on indication
- Pre-graining possible with rotating pilot drill hand instrument
- Placement of bleeding points with twist drill as required
I approve that the amount listed be charged to my credit card to be applied as a deposit towards my complete course costs. I will be invoiced for the remainder of the course fees and additional charges as may arise (workshops, room upgrades, special arrangements).

One form must be submitted for each registrant.

If I choose to pay only the deposit at this time, I understand that the remainder is due on or before December 19, 2014. Failure to pay when due may result in forfeiture of my deposit and course attendance.

A NON-REFUNDABLE fee of $500.00 is required to reserve your conference attendance.

Additional information will be sent after registration has been accepted.

Additional Hotel Nights:
We have negotiated special rates for 3 days prior to the course beginning and 3 days after the course ends. The additional nights are the sole responsibility of the attendee and their guests and are NOT part of any offered package.

For additional information, please speak directly with a MEISINGER representative.

* Denotes Required Field

Meisinger USA, L.L.C.
10200 E. Easter Avenue | Centennial, Colorado 80112 | USA
Phone: +1 (303) 268-5400 | Toll free: +1 (866) 634-7464
info@meisingerusa.com | www.meisingerusa.com

Registration Form

Hereby I apply bindingly for the 5th Annual High Altitude Comprehensive Implant Symposium taking place in Vail, Colorado from January 28th – February 1st 2015.*

□ DDS □ DMD □ MD

First Name*

Last Name*

Practice Address*

City/State* /

Unit/Suite Billing Zip Code*

Phone Number (Office)*

Phone Number (Cell)

Fax

E-mail*

Course Fees:

□ Course participation $1695.00

Optional hands-on workshops are limited to 30 attendees per workshop.

□ Workshop 1 - D. Cullum (Thurs.) $395.00

□ Workshop 2 - Dr. J. Russo/Dr. R. Gellin (Thurs.) $325.00

□ Workshop 3 - Dr. S. Pank (Fri.) $149.00

□ Workshop 4A - Dr. I. Urban (Fri.) $395.00

□ Workshop 4B - Dr. I. Urban (Fri.) NEW $395.00

□ Workshop 5 - Dr. R. Miller (Sat.) NEW $149.00

□ Workshop 6 - Dr. D. Cullum (Thurs.) NEW $395.00

Please fill in the number of participants

Ski Race: (Sat. January 31st)

□ Ski Race $30.00

Exhibitor Party & Closing Dinner additional guest(s) fees:

Exhibitor Party (Evening of January 29th):

□ Price per person $50.00

Closing Dinner (Evening of January 31st):

□ Price per person (course participants fee is complimentary) $95.00

Closing Dinner Additional Guest(s) Name(s):

Additional guest name

Additional guest name

Banking Information:

□ MasterCard □ Visa □ American Express

□ Deposit ($500.00) OR □ Process full payment (total from above)

Credit card number

CCV Expiry date

Signature*

Online Registration

www.meisingerusa.com