

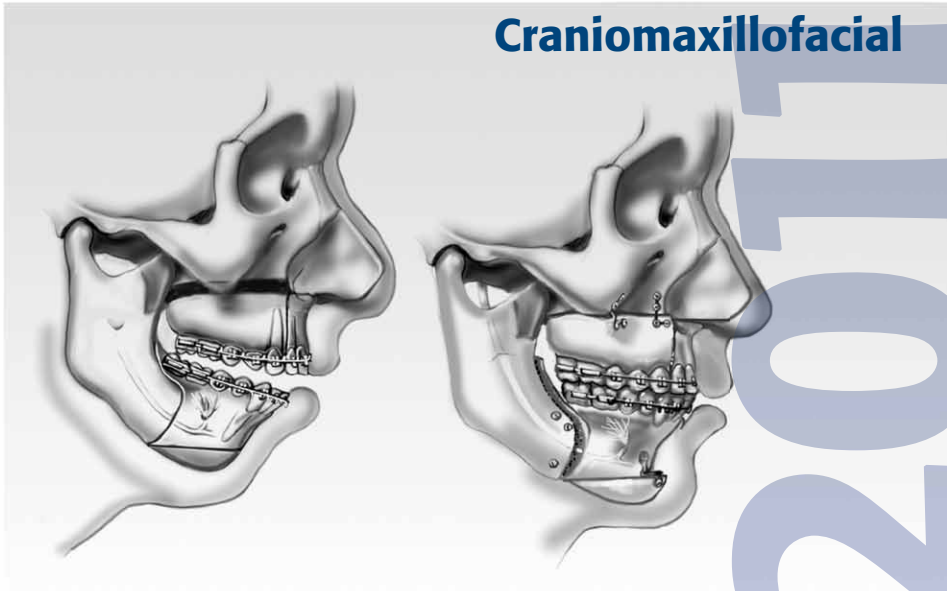
11th Annual Symposium

**Selected Topics in
Orthognathic Surgery**

Course Chair: **Jeffrey C. Posnick, DMD, MD**

March 19, 2011

Ritz Carlton Washington DC
Washington, DC



A letter from the Chair

As Chairperson of the AO North America Craniomaxillofacial (CMF) Council, I would like to take this opportunity to share with you some thoughts on AO Education.

Founded in Switzerland in 1958 under the name "Arbeitsgemeinschaft für Osteosynthesefragen", the AO today is the world leader in the study of stable internal fixation and is known as the "Association in Osteosynthesis".

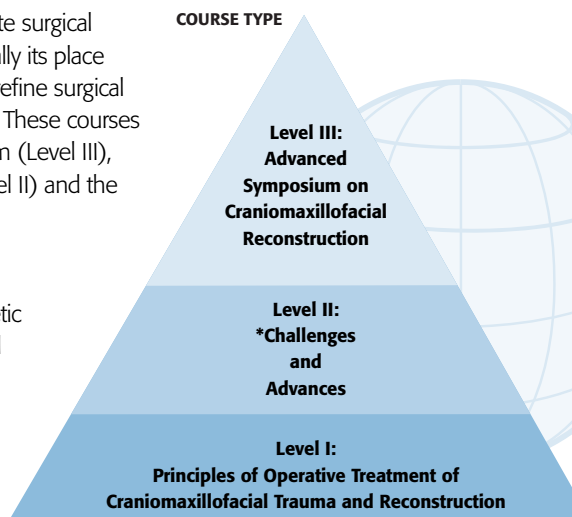
AO North America (AONA) is a non-profit organization based on a network of surgeons committed to the study, practice, and teaching of AO principles and their advancement in the field of trauma and reconstructive surgery; working in the areas of research, development, education and quality assurance for the benefit of improving patient care.

The focus is to develop and support graduate and post-graduate education. AONA is an accredited CME provider and is committed to providing the highest quality education for surgeons at all stages of their development. AONA offers a comprehensive spectrum of education activities to support surgeons who strive to be lifelong learners. AONA is dedicated to providing the highest quality educational experience for course participants and Faculty. This is evidenced by the AONA Craniomaxillofacial Systematic Education Approach Pyramid as described below.

Within the AONA CMF organization, the three primary specialties, oral and craniomaxillofacial surgery, otolaryngology/head and neck surgery, and plastic and reconstructive surgery meet on a constructive basis and develop a joint approach.

AONA CMF courses are designed to teach principles and techniques, both at the theoretical and practical levels. The aim is not to popularize the use of indiscriminate surgical fixation but instead to evaluate scientifically its place in the care of the sick or injured, and to refine surgical practice for optimized patient outcomes. These courses include the annual Advanced Symposium (Level III), *Challenges and Advances courses (Level II) and the Principles courses (Level I).

*Courses offered to date include: Aesthetic Facial Skeletal Surgery, Cadaver Practical Workshop, Distraction, Great Debates, Mandible, Minimally Invasive Surgery, Orbital, and Pediatrics.



Principles Course Objectives (Level I)

- describe the principles of stable internal fixation as outlined by the AO;
- define the biological and mechanical aspects of fracture healing;
- discuss the problems, complications and intraoperative difficulties that can result from internal fixation;
- explain preoperative planning methods and outcome analysis; and
- apply the psychomotor skills developed in the practical exercises into surgical practice.

These objectives are reached through lectures, hands-on exercises, panels and small group discussions. This course is designed for Junior Residents, Fellows and Practicing Surgeons looking to refresh their skills. The course presents the basic information regarding the AO Principles of Stable Internal Fixation:

- Anatomic Reduction of the fractur fragments, particularly joint fractures
- Stable fixation to ensure proper healing of the fracture allowing surrounding tissue to move and strenghten
- Atraumatic surgical technique to preserve blood supply to the bone fragments and soft tissue
- Early, pain free mobilization returning the patient to function as soon as possible

Challenges and Advances Objectives (Level II) are determined by the programs.

Examples of courses conducted are Navigation, Pediatrics, Aesthetics, Microsurgery, Orbital Reconstruction and Distraction Osteogenesis to name a few. These courses are conducted both didactically and with practical exercises (most with cadavers) and also provide opportunities for panels and small group discussions. These courses are designed for Practicing Surgeons, Fellows and Residents that have completed the Principles course.

The annual Advanced Symposium (Level III) is conducted to address the most challenging issues facing surgeons today. The program is didactic and allows time for small group discussions to assist surgeons in understanding how best to address their concerns. This course is geared towards the Practicing Surgeons, Fellows and most senior Residents.

We hope you will take every opportunity to attend these programs designed to assist you in providing improved patient care.

Sincerely,



James Q. Swift, DDS
Chairperson, AONA CMF Council

Statement of Need

Orthognathic surgery seeks to correct maxillofacial deformities often associated with significant functional impairment. Procedures to alter the relationship of the jaws and teeth include osteotomies of the maxilla, mandible and chin. An understanding of the evolution of the principles and practices, combined with knowledge of recent advances in surgical technique and technology, helps the clinician effectively treat challenging problems. Interdisciplinary treatment planning, backed by strategies to manage complications, are necessary components of effective Orthognathic surgery. Continuing education benefits clinicians by exposing them to changing methods in the field, which in turn, leads to improved patient outcomes. This symposium focuses on interdisciplinary problem-solving in Orthognathic surgery. This Symposium will be of interest to attending clinicians and residents in Oral and Maxillofacial, Otolaryngology—Head and Neck, Plastic and Reconstructive Surgery and Orthodontists.

Learner Objectives

Upon completion of the symposium, participants should be able to:

- identify advances in practice and technique that contribute to functional and aesthetic improvement in Orthognathic patients;
- describe prevailing approaches to both routine and complex Orthognathic clinical care problems;
- develop a comprehensive treatment plan for Orthognathic patients, including a thorough evaluation, proper diagnosis, realistic predictions, and resulting outcome; and
- identify the importance of utilizing an interdisciplinary approach in the evaluation and treatment of patients with Orthognathic deformities.

Accreditation



AO North America is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Continuing Education Dental Credit Statement

As an Accreditation Council for Continuing Medical Education (ACCME) accredited provider, AO North America meets the definition of a constituent or component organization of the AMA and thereby meets most state dental board requirements of an approved sponsor of continuing education. This symposium is focused on clinical issues in oral-maxillofacial surgery that are relevant to the treatment and care of dental patients. Most states accept AMA constituents as approved sponsors for continuing dental education credit. If you have questions, your state dental board can confirm eligibility of this symposium.

Designation Statement

AO North America designates this educational activity for a maximum of 7.25 *AMA PRA Category 1 Credits*[™]. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Faculty Disclosure

It is the policy of AO North America to abide by the Accreditation Council for Continuing Medical Education Standards for Commercial Support. Standard 2: Disclosures Relevant to Potential Commercial Bias and Relevant Financial Relationships of Those with Control over CME Content,” requires all planners, including Course Directors, Chairs and Faculty involved in the development of CME content to disclose their relevant financial relationships prior to participating in the activity. Relevant financial relationships will be disclosed to the activity audience. The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but to provide participants with information that might be of potential importance to their evaluation of a presentation. Any conflicts have been resolved prior to the commencement of this activity.

Conflict Of Interest Resolution Statement

When individuals in a position to control or influence the development of the content have reported Financial Relationships with one or more commercial interests, AO North America utilizes a process to identify and resolve potential conflicts to ensure that the content presented is free of commercial bias. The content of this presentation was vetted through AONA's process of peer review and content validation and modified as required to meet this standard.

Off-Label / Experimental Discussions

Some medical devices discussed or demonstrated in AO North America's educational activities may not have been cleared by the FDA or may have been cleared by the FDA for specific uses only. AO North America requires the Faculty for this Course to disclose unlabeled uses of products. It is the Faculty's responsibility to disclose when an unlabeled use of a commercial product, or an investigational use not yet approved for any purpose will be discussed during an education activity.

Support for this course has been made possible through an educational grant and In-kind support from Synthes, USA.

Program Agenda – Saturday, March 19, 2011

Time	Moderator	Session Topic	Speaker
7:45am – 8:00am		Course Introductory Remarks	J. Swift
8:00am – 8:15am		Orthognathic Surgery: Contributions to the Field by Dr. Robert V. Walker	J. Posnick
8:15am – 9:15am	J. Posnick	Session I. The Restorative and Rehabilitative Capability of the Tempromandibular Apparatus: 50 Year Observations	R V. Walker
9:15am – 10:15am	G. Obeid	Session II. Idiopathic Condylar Resorption: The Natural History of This Condition and Preferred Treatment Approach	W. Arnett
10:15am – 10:30am		Discussion: Session I and II	
10:30am–11:00am		Coffee Break	
11:00am–11:30am	J. Swift	Session III. Chronic Nasal Airway Obstruction: Frequency – Etiology – Management	N. Futran
11:30am–12:00pm		Chronic Nasal Airway Obstruction in the Jaw Deformity Patient: Frequency – Diagnosis – Definitive Management	J. Posnick
12:00pm–1:00pm		Lunch	
1:00pm–1:45pm	E. Ellis	Session IV. The Cervical Vertebral Maturation Method for Assessment of Optimal Treatment Timing in Dentofacial Deformities	J. McNamara
1:45pm–2:00pm		Panel Discussion	L. Hallman J. Orchin S. Siegal
2:00pm–2:15pm		Coffee Break	

Time	Moderator	Session Topic	Speaker
Session V.			
2:15pm–2:45pm	E. Ellis	Definitive Treatment of the Class II Mandibular Deficiency Patient: The Role of Dentofacial Orthopedics vs. Orthognathic Reconstruction	J. McNamara
2:45pm–3:15 pm		Definitive Treatment of the Class II Mandibular Deficiency Patient: The Role of Dentofacial Orthopedics vs. Orthognathic Reconstruction	W. Arnett
3:15pm–3:30pm		Panel Discussion	L. Hallman J. Orchin S. Siegal
3:30pm–3:45pm		Coffee Break	
Session VI.			
3:45pm–4:15pm	E. Ellis	Definitive Treatment of the Class III Mandibular Excess/Maxillary Deficiency: The Role of Dentofacial Orthopedics vs. Orthognathic Reconstruction	J. McNamara
4:15pm–4:45 pm		Definitive Treatment of the Class III Mandibular Excess/Maxillary Deficiency: The Role of Dentofacial Orthopedics vs. Orthognathic Reconstruction	J. Posnick
4:45pm–5:00pm		Panel Discussion	L. Hallman J. Orchin S. Siegal
5:00pm–7:00pm		Reception and Meet with the Faculty	

Schedule and preliminary program subject to modification.

About the Faculty

The Faculty for this Symposium includes clinicians distinguished in the fields of Oral and Maxillofacial Surgery, Otolaryngology – Head and Neck Surgery, Plastic and Reconstructive Surgery, and Orthodontists.

Course Chairman

Jeffrey C. Posnick, DMD, MD



Educated in both dentistry (Harvard University) and medicine (Vanderbilt University) Dr. Posnick is board certified in Oral and Maxillofacial Surgery and Plastic Surgery. His professional appointments include Clinical Professor of Surgery and Pediatrics at Georgetown University in Washington, DC. and Adjunct Professor of Orthodontics at University of Maryland, Baltimore College of Dental Surgery. He has lectured around the world and published more than 200 journal articles and book chapters. His textbook entitled *Craniofacial and Maxillofacial Surgery in Children and Young Adults* is considered a standard reference in the field. He conducts an active clinical practice and serves as director of the Posnick Center for Facial Plastic Surgery in Chevy Chase, Maryland.

Co-Chairmen

Edward Ellis III, DDS, MS



Dr. Ellis is Chair and a Professor of Surgery in the Department of Oral and Maxillofacial Surgery, having joined the faculty at The University of Texas Health Science Center at San Antonio in 2010. He came from The University of Michigan where he went to dental school and trained in oral and maxillofacial surgery prior to joining their OMS faculty. For the past 22 years, he was the director of the UT Southwestern/Parkland OMS residency in Dallas.

Dr. Ellis' clinical interests are in maxillofacial traumatology, dentofacial deformities, and dental implantology. He has authored over 100 scientific articles and two books. In 1997 he received the American Association of Oral and Maxillofacial Surgeons (AAOMS) Research Recognition Award. He was also elected to Fellowship in the Royal College of Surgeons of England.

Dr. Ellis is the past President of the American Board of Oral and Maxillofacial Surgery. He is on the editorial boards of *The Journal of Oral and Maxillofacial Surgery*, *The International Journal of Oral and Maxillofacial Surgery*, *The Spanish Journal of Oral and Maxillofacial Surgery*, and *Archives of Facial Plastic and Reconstructive Surgery*. Dr. Ellis is an internationally recognized educator and clinician in the surgical field.

Neal D. Futran, MD, DMD



Dr. Futran is the Allison T. Wanamaker Professor and Chair of the Department of Otolaryngology–Head and Neck Surgery. He is also the director of head and neck surgery, as well as an adjunct professor in the departments of plastic surgery and neurological surgery.

He is board-certified in both otolaryngology and oral and maxillofacial surgery. His expertise in head and neck cancer, microvascular reconstruction, and rehabilitation of complex cancer and trauma cases is well known. He also specializes in thyroid and parathyroid surgery and skull base surgery, utilizing both endoscopic and open approaches. He is a recognized educator and clinician in the field of head and neck and maxillofacial surgery.

Course Director

James Q. Swift, DDS



James Q. Swift is Professor and Director of the Division of Oral and Maxillofacial Surgery at the University of Minnesota, School of Dentistry. He is a graduate of the University of Iowa, College of Dentistry and completed his oral and maxillofacial surgery residency training at the University of Oklahoma Health Sciences Center. Dr. Swift received an RO1 award from the National Institute of Dental Research to study inflammatory mediators and pain. He has also carried out clinical research in the area of temporomandibular disorders and inflammatory mediators of the temporomandibular joint space. He has acted as principal investigator on implant research which included pre-market approval studies for a number of implant systems as well as basic science research on implants. Dr. Swift is a former President of the American Dental Education Association as well as former President of the American Board of Oral and Maxillofacial Surgery. In 1999, he and his colleagues received the Daniel M. Laskin Award for the most outstanding article published in the *Journal of Oral and Maxillofacial Surgery* for 1998.

In 2002 he was named the Century Club Outstanding Professor for the University of Minnesota, School of Dentistry. In 2009 he received the Distinguished Service Award from the American Dental Education Association. Dr. Swift is an outstanding educator and clinical surgeon who practices full scope oral and maxillofacial surgery in the Twin Cities area.

Invited Faculty

G. William Arnett, DDS FACD



Dr. G. William Arnett graduated from the University of California at Los Angeles and began his private practice in 1975. At that time he practiced the full scope of oral and maxillofacial surgery in Santa Barbara, California with an emphasis on Orthognathic surgery. In 1985 Dr. Arnett made the decision to specialize in Orthognathic Surgery and Research and the practice was named "The Center for Corrective Jaw Surgery." In 2003 Dr. Michael Gunson joined Dr. Arnett's practice and also limits his practice to Orthognathic surgery.

Specializing in Orthognathic Surgery and Research has enabled Dr. Arnett to examine approximately 10,000 patients, and perform over 4,000 operations on patients with the same or similar cosmetic, functional, and airway conditions. As of result of sub-specialization he has been able to study and enhance his surgical results while sharing this information with other doctors through publications and lectures.

Invited Faculty continued

James A. McNamara, DDS, MS, PhD



Dr. James A. McNamara is a graduate of the University of California Berkeley, received his dental and orthodontic education at the University of California, San Francisco, and a Doctorate in Anatomy from the University of Michigan. He serves as the Thomas M. and Doris Graber Endowed Professor of Dentistry in the Department of Orthodontics and Pediatric Dentistry, Professor of Cell and Developmental Biology in the University of Michigan Medical School and Research Scientist at the Center for Human Growth and Development.

Dr. McNamara is a Diplomate of the American Board of Orthodontics and a Fellow of the American College of Dentists. He also is past President of the Midwest Edward H. Angle Society of Orthodontists. In addition, Dr. McNamara served as Chairman of the Council on Scientific Affairs of the American Association of Orthodontists.

Dr. McNamara has a long history of both experimental and clinical research in orthodontics and dentofacial orthopedics. He maintained a large colony of rhesus monkeys for nearly 20 years, publishing a series of papers dealing with electromyography, cephalometrics, and histological analysis of craniofacial adaptations in rhesus monkeys to various orthopedic techniques used in orthodontics. Dr. McNamara has conducted an active private orthodontic practice in Ann Arbor since 1971. He is the co-author of the text, *Orthodontics and Dentofacial Orthopedics*. He is Editor-in-Chief of the 46 volume *Craniofacial Growth Monograph Series* published through the University of Michigan. Dr. McNamara has published over 240 scientific articles in refereed journals, has written, edited or contributed to 65 books, and has presented courses and lectures in 35 countries.

Robert V. Walker, DDS



Dr. Walker completed his oral and maxillofacial surgery residency training at Parkland Memorial Hospital in Dallas, Texas. Upon graduation in 1956, he was invited to join the faculty at the University of Texas Southwestern Medical School to create a Division of Oral Surgery within the Department of Surgery, and it is there that he remained for 52 years. He retired from his day-to-day activities in 1997.

Throughout his long career, Dr. Walker has had a vigorous leadership role in oral and maxillofacial surgery serving as President for a number of organizations including the American Board of Oral and Maxillofacial Surgery, American Association of Oral and Maxillofacial Surgeons, and the International Association of Oral and Maxillofacial Surgeons. He also chaired many ADA committees. It was during his tenure as President of AAOMS that he and three colleagues were instrumental in gaining ADA authorization to change the specialty's name from oral surgery to oral and maxillofacial surgery to more accurately embrace the scope of the specialty. This name change spread internationally. Dr. Walker has received ample recognition for his work, the more notable include: the Dallas County Dental Society Lifetime Achievement Award in 2002; induction into the Baylor College of Dentistry Hall of Fame in 1999; the American Trauma Society William S. Stone Award in 1998; Honorary Fellowship in the International Association of Oral and Maxillofacial Surgery in 1997; and the establishment of the Robert V. Walker Chair in Oral and Maxillofacial Surgery in 1992 at the University of Texas Southwestern Medical Center in Dallas, TX. He has also been elected to Fellowship in both the Royal College of Surgeons of Ireland and the Royal College of Surgeons of England.

Even though retired, Dr. Walker enjoys emeritus status at the University of Texas Southwestern Medical Center.

Local Faculty

Linda Hallman, DDS, PhD



After receiving her DDS and PhD from the University of Maryland and a postdoctoral research fellowship at Thomas Jefferson University, Dr. Hallman completed her orthodontic training at the University of California, San Francisco. She currently serves as Director of Orthodontics at Washington Hospital Center in Washington, DC, with an academic appointment as Assistant Professor at George Washington University Medical School. She conducts an active pediatric and adult orthodontic private practice in Chevy Chase, Maryland.

George Obeid, DDS



Dr. Obeid is chairman of the Department of Oral and Maxillofacial Surgery at the Washington Hospital Center in Washington, DC. He also serves as the Director of the Residency Training Program and as a Senior Attending Surgeon at the Washington Hospital Center. He is an Attending Surgeon at the Children's National Medical Center and an active member of the Children's Hospital cleft and craniofacial team. He holds an Assistant Clinical Professor appointment at George Washington University also in Washington, DC. Dr. Obeid is not only an experienced senior full scope Oral and Maxillofacial Clinical Surgeon in the greater Washington community but is considered an outstanding educator in our field.

Jerry Orchin, DDS



After receiving his dental degree from Case Western Reserve University, Dr. Orchin completed his training at Columbia University School of Orthodontics. He is a diplomate of the American Board of Orthodontics and a member of the Angle Society of Orthodontics. He currently serves as senior attending, Department of Orthodontics at Washington Hospital Center. He is Clinical Professor, Division of Dentistry, Department of Otolaryngology/Head and Neck Surgery at Georgetown University in Washington, DC. Dr. Orchin is considered one of the outstanding orthodontists in the Washington, DC area where he has maintained an active clinical practice for the past thirty years.

Steven Siegal, DMD



After receiving his DMD from Tufts University School of Dental Medicine (*magna cum laude*), Dr. Siegal went on to serve as a Commissioned Dental Officer in the United States Public Health Service. In 1988, he received his Orthodontic certificate from the University of Medicine & Dentistry of New Jersey. Dr. Siegal currently serves as Clinical Assistant Professor in the Baltimore College of Dental Surgery's post-graduate orthodontics department. He is a member of the Johns Hopkins Cleft and Craniofacial Rehabilitation Team and serves as a staff member in the Department of Oral and Maxillofacial Surgery and Dentistry at the Sinai Hospital of Baltimore. Dr. Siegal is past president of the Maryland State Society of Orthodontists and presently serves as Director for the Middle Atlantic Society of Orthodontists. He maintains private practices in Glen Burnie, Reisterstown, and Owings Mills, Maryland.

Tuition and Registration

Tuition for this	\$435.00	Attending Physicians/Surgeons and Dentists
Symposium will be:	\$95.00	Residents and Allied Health Personnel (Limited seating)

Tuition includes:

Symposium materials, breakfast, lunch, refreshments and reception.

Registration

Registration is available online at www.aona.org

We encourage early registration, as seating is limited.

Upon receipt of your online registration and payment, you will be sent a confirmation of your registration in the symposium, along with hotel and travel information to assist you in making your arrangements.

ADA Statement

AO North America fully intends to comply with the legal requirements of the Americans with Disabilities Act. If any registrant is in need of accommodation, please do not hesitate to submit a written request at least one month prior to this activity.

PLEASE NOTE:

Registration Deadline is February 17, 2011.

Full refunds will be made only if written notice of cancellation is received by this date. Refunds, less \$50.00 administration fee, will be issued if written cancellation notice is received by March 5, 2011. No symposium tuition refund will be issued for cancellations received after this date.

Until confirmation is received, do not consider yourself registered in this symposium.

For Information:

Contact the Craniomaxillofacial Registrar

Phone: (800) 769-1391, Extension 5118

(610) 695-2459, Extension 5118

Fax: (610) 695-2420

e-mail: craniomaxregistrar@aona.org

Hotel and Travel

Hotel

Room reservations are the responsibility of the individual registrant. A block of rooms has been reserved at the rate of \$249.00 per night, plus tax, single/double occupancy, at the Ritz Carlton Washington, DC. Rooms will be held until February 17, 2011, or until room block is filled, whichever comes first. After this date, rooms will be on an as-available basis.

Travel

The Ritz Carlton Washington, DC is located approximately 45 minutes east of Dulles International Airport and 20 minutes north of Ronald Regan Washington National Airport. Taxi service is available from either airport to the hotel.

The Power of Synergy Working Together for a Stronger Tomorrow



What can a craniomaxillofacial surgeon **teach** a trauma surgeon or veterinarian?



What can a craniomaxillofacial surgeon **learn** from a trauma surgeon or veterinarian?



Find out at the

2010 Challenges in Fracture Care Across Disciplines

November 11–14, 2010

JW Marriott Desert Ridge, Phoenix, Arizona

The meeting theme, “The Power of Synergy—Working Together for a Stronger Tomorrow,” is uniquely designed to bring together surgeons in Orthopaedic Trauma, **Craniomaxillofacial** and Veterinary medicine to discuss challenges in musculoskeletal fracture management. Open to surgeons across these disciplines, as well as fellows and residents, this scientific meeting will present cutting edge information on research in areas such as bone healing, malunions and non-unions, and innovations in fracture care.

For additional information, please visit www.aona.org





Selected Topics in Orthognathic Surgery

AO North America
Department of Continuing Medical Education
1700 Russell Road
Paoli, PA 19301

Registration is available only online: **www.aona.org**

Registration and hotel deadline:
February 17, 2011

©2009 AO North America. All rights reserved.

8/10 A-1113A