

## Preliminary Program

# Principles of Operative Treatment of Craniomaxillofacial Trauma and Reconstruction

**August 23 – 24, 2014**

Hyatt Boston Harbor

Boston, Massachusetts



**AOCMF**

**AOSpine**

**AOTrauma**

**AOVET**



**EDUCATION**



**FELLOWSHIPS**



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**RESEARCH**

AO North America  
1700 Russell Road  
Paoli, PA 19301

[www.aona.org](http://www.aona.org)

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# A letter from the AO CMFNA 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

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).

## **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 fracture fragments, particularly joint fractures;
- Stable fixation to ensure proper healing of the fracture allowing surrounding tissue to move and strengthen;
- Atraumatic surgical technique to preserve blood supply to the bone fragments and soft tissue; and
- 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 offered to date include: Cadaver Practical Workshops, Distraction Osteogenesis, Orthognathic, Navigation, Pre-surgical Planning and Patient Specific Implants, Orbital Reconstruction, and Pediatrics, 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,

A handwritten signature in black ink, appearing to read 'Damir Matic', with a stylized, flowing script.

Damir Matic, MD, MSc, FRCSC  
Chairperson, AOCMF North America Education Council



## CME Mission Statement

The Continuing Medical Education (CME) mission of AO North America (AONA®) is to provide comprehensive multidisciplinary needs based education to surgeons, fellows, and residents in the specialties of orthopedic, hand, craniomaxillofacial, spine, and veterinary surgery in the areas of trauma (i.e., operative reduction and fixation), degenerative disorders, deformities, tumors, and reconstruction.

Expected results of AONA's CME activities for surgeons, fellows, and residents are to:

- Increase their knowledge base and surgical skill level
- Apply and document competencies in areas of relevant advances in knowledge in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques into patient care resulting in improved competence
- Address practice performance gaps by improving management of all aspects of musculoskeletal injuries and disorders (i.e., pre-operative planning to post-operative care)





## Course Description and Statement of Need

Residents in the CMF Specialties may lack adequate training or experience to treat specific trauma to the head and face. The CMF surgeon's main goal during the diagnosis and treatment of trauma to the head and face is to restore patients to their pre-injury state. The diagnosis and treatment of traumatic injuries to the craniomaxillofacial region sometimes presents a difficult problem requiring a multidisciplinary approach. Management of these injuries often require rigid internal fixation that adheres to the AO philosophy for fracture care.

The principles courses are designed to equip surgeons with the state-of-the-art skills and techniques for treating and managing CMF fractures from trauma, as well as congenital defects, secondary correction of injuries and aesthetic reconstruction. Highlights of the course will include sessions on anatomy, biomechanics, surgical approaches and principles of internal fixation of the mandible and midface.

Experts in the field of CMF Surgery will compare and contrast current methods and provide indications for the use of these techniques. The modular course format will focus on the craniomaxillofacial patient in a conceptual case study and practical exercise format. Participants in small groups will rotate through each module over the two day course. These SGD compliment both the lectures and the practical exercises by discussing the four AO Principles of Fracture Fixation:

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

## Target Audience

This course is primarily designed for surgeons in training in the fields of Oral and Maxillofacial Surgery, Otolaryngology, Plastic and Reconstruction, Ophthalmology and Oculoplastics. Practicing surgeons may also find this course beneficial.

## Learner Objectives

At the conclusion of this course, the participant should be able to:

- 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 how this may affect the management of these fractures
- Apply the psychomotor skills developed in the practical exercises into surgical practice.

## Accreditation



AO North America is accredited by the Accreditation Council for Continuing Medical Education 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 course 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 course.

## Designation Statement

AO North America designates this *Live* educational activity for a maximum of 13.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### For Canadian Based Physicians Attending AONA Courses

All live conferences or live courses held outside of Canada can be reported as accredited group learning activities under Section 1 of the MOC Program if they are developed by a university, academy, college, academic institution or physician organization.

Courses sponsored by AO North America meet the criteria of the Royal College of Physicians and Surgeons for accredited group learning activities.



## Faculty

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

### Course Chairman

#### **Shahid R. Aziz, MD, DMD, FACS**

Professor

Department of Oral & Maxillofacial Surgery

Rutgers University School of Dental Medicine

Division of Plastic Surgery

Department of Surgery

Rutgers - New Jersey Medical School

Newark, New Jersey

### Course Co-Chairmen

#### **Sydney C. Butts, MD, FACS**

Assistant Professor

Chief, Facial Plastic and Reconstructive Surgery

Department of Otolaryngology

SUNY Downstate Medical Center

Brooklyn, New York

#### **Stephen Sullivan, MD, MPH**

Assistant Professor of Surgery and Pediatrics

Division of Plastic Surgery

Co-Director, Cleft and Craniofacial Center

Brown University Alpert Medical School

Providence, Rhode Island

### Course Director

#### **D. Gregory Farwell, MD, FACS**

Professor

Director of Head and Neck Oncology and

Microvascular Surgery

Department of Otolaryngology

UC Davis School of Medicine

Sacramento, California

## Faculty (continued)

### Scott Bartlett, MD

Professor of Surgery  
Peter Randall Endowed Chair in Pediatric  
Plastic Surgery  
Children's Hospital of Philadelphia  
University of Pennsylvania  
Philadelphia, Pennsylvania

### Amir Dorafshar, MBChB, FACS, FAAP

Assistant Professor  
Department of Plastic and Reconstructive Surgery  
Johns Hopkins Medical Institute  
Baltimore, Maryland

### David Hamlar, MD, DDS

Assistant Professor  
Craniofacial Skull Base Center  
Department of Otolaryngology  
Minneapolis, Minnesota

### Clinton Humphrey, MD, FACS

Assistant Professor  
Facial Plastic and Reconstructive Surgery  
Department of Otolaryngology-Head and  
Neck Surgery  
University of Kansas Medical Center  
Kansas City, Kansas

### Jose Marchena, DMD, MD

Clinical Assistant Professor of Oral and  
Maxillofacial Surgery  
University of Texas at Houston  
Houston, Texas  
Private Practice  
Newburyport Oral Surgery  
Newburyport, Massachusetts

### Richard Redett, MD

Associate Professor, Plastic Surgery  
Director, Facial Paralysis Center  
Director, Cleft Lip and Palate Center  
Johns Hopkins Hospital  
Baltimore, Maryland

### Steven M. Roser, DMD, MD, FACS

Professor and Chief  
Division of Oral and Maxillofacial Surgery  
Emory University School of Medicine  
Atlanta, Georgia

### Cecelia E. Schmalbach, MD, FACS

Associate Professor  
Otolaryngology Program Director  
Head & Neck/Microvascular Surgery  
University of Alabama at Birmingham  
Birmingham, Alabama

### David C. Stanton, DMD, MD, FACS

Associate Professor  
Department of Oral & Maxillofacial Surgery  
University of Pennsylvania  
Philadelphia, Pennsylvania

*Faculty list subject to change.*

## Preliminary Program

### Saturday, August 23, 2014

| Time | Agenda Item |
|------|-------------|
|------|-------------|

|               |         |
|---------------|---------|
| 08:00 – 08:05 | Welcome |
|---------------|---------|

|               |                                   |
|---------------|-----------------------------------|
| 08:05 – 08:15 | Mandible Pre-Module Questionnaire |
|---------------|-----------------------------------|

|               |                             |
|---------------|-----------------------------|
| 08:15 – 08:25 | Approaches to Upper/Midface |
|---------------|-----------------------------|

|               |            |
|---------------|------------|
| 08:25 – 08:35 | Buttresses |
|---------------|------------|

|               |               |
|---------------|---------------|
| 08:35 – 08:45 | Occlusion/MMF |
|---------------|---------------|

**08:45 – 08:50 Travel to Small Groups**

#### Participants Will Rotate Through the Four Small Group Sessions Below

|                      |                              |
|----------------------|------------------------------|
| <b>08:50 – 10:35</b> | <b>Small Group Session A</b> |
|----------------------|------------------------------|

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>10:35 – 10:50</b> | <b>Coffee Break / Travel to Next Module</b> |
|----------------------|---------------------------------------------|

|                      |                              |
|----------------------|------------------------------|
| <b>10:50 – 12:35</b> | <b>Small Group Session B</b> |
|----------------------|------------------------------|

|                      |              |
|----------------------|--------------|
| <b>12:35 – 13:15</b> | <b>Lunch</b> |
|----------------------|--------------|

|                      |                              |
|----------------------|------------------------------|
| <b>13:15 – 15:00</b> | <b>Small Group Session C</b> |
|----------------------|------------------------------|

|                      |                                             |
|----------------------|---------------------------------------------|
| <b>15:00 – 15:15</b> | <b>Coffee Break / Travel to Next Module</b> |
|----------------------|---------------------------------------------|

|                      |                              |
|----------------------|------------------------------|
| <b>15:15 – 17:00</b> | <b>Small Group Session D</b> |
|----------------------|------------------------------|

#### Modules for Small Group Sessions A, B, C, D

**MIDFACE MODULE I:** Zygoma

**MIDFACE MODULE II:** Orbit

**MIDFACE MODULE III:** Advanced Topics

Panfacial Fractures

Nasal – Orbital – Ethmoid Fractures (NOE)

Frontal Sinus

**MIDFACE MODULE IV:** Practical Exercise

Orbital Fractures

Zygoma Fractures

Panfacial Fractures

**17:00**

**Course Adjourns for the Day**

Preliminary Program

Sunday, August 24, 2014

| Time          | Agenda Item                   |
|---------------|-------------------------------|
| 07:30 – 07:40 | AOCMF Membership              |
| 07:40 – 08:00 | Load Sharing and Load Bearing |
| 08:00 – 08:05 | Travel to Small Groups        |

| Participants Will Rotate Through the Four Small Group Sessions Below                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 08:05 – 09:15                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Small Group Session A                 |
| 09:15 – 09:20                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Travel to Next Module                 |
| 09:20 – 10:30                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Small Group Session B                 |
| 10:30 – 10:45                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Coffee Break / Travel to Next Module  |
| 10:45 – 11:55                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Small Group Session C                 |
| 11:55 – 12:20                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Pick up Lunch / Travel to Next Module |
| 12:20 – 13:30                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Small Group Session D                 |
| Modules for Small Group Sessions A, B, C, D                                                                                                                                                                                                                                                                                                                                                                                                                                |                                       |
| <div>MANDIBLE MODULE I: Load Sharing</div> <div>MANDIBLE MODULE II: Load Bearing</div> <div>MANDIBLE MODULE III: Special Topics</div> <div>Approaches</div> <div>Tooth in the Fracture Line</div> <div>Condylar Fractures</div> <div>MANDIBLE MODULE IV: PRACTICAL EXERCISE</div> <div>Symphyseal Fracture – 2 Mini-Plates</div> <div>Angle Fracture – Champy</div> <div>Comminuted Fracture – Load Bearing Fixation with LRP</div> <div>Lag Screw – Time Permitting</div> |                                       |

|               |                                    |
|---------------|------------------------------------|
| 13:30 – 13:35 | Travel to Lecture Hall             |
| 13:35 – 13:45 | Mandible Post Module Questionnaire |
| 13:45 – 14:00 | Closing and Evaluation Questions   |
| 14:00         | Course Adjourns                    |

## Presentation Information

### 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 the disclosure is not to prevent a faculty with a relevant financial or other relationship from teaching, but to provide participants with information that might be of importance to their evaluation of content. All potential conflicts of interest 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.

### Off-Label / Experimental Discussions

Some medical devices used for teaching purposes and/or discussed in AO North America's educational activities may have been cleared by the FDA for specific uses only or may not yet be approved for any purpose. Faculty may discuss off-label, investigational, or experimental uses of products/devices in CME certified educational activities. Faculty have been advised that all recommendations involving clinical medicine in this CME activity are based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients. All scientific research referred to, reported or used in this CME activity in support or justification of a patient care recommendation conforms to the generally accepted standards of experimental design, data collection and analysis.

### Liability Statement

AO North America faculty and staff assume no personal liability for the techniques or the use of any equipment and accessories used for teaching purposes in the laboratory. The certificate provided pertains only to the participants' completion of the course and does not, in any way, attest to the proficiency of the participants' clinical experience.

### Disclaimer

AONA does not endorse nor promote the use of any product/device of commercial entities. Equipment used in this course is for teaching purposes only with the intent to enhance the learning experience.

*AO North America gratefully acknowledges in-kind support for equipment and/or technical staff from DePuy Synthes.*



## Tuition and Registration

AONA is offering this course free of charge to all participants.

### **No Show Fee/Cancellation:**

Cancellation of your registration must be received prior to the start date of the course. Otherwise, a “no show” fee of \$100 will be charged to the credit card on file with customer service.

**Tuition Includes:** Course materials, breakfasts, lunch and coffee breaks

Registration is available online only at [www.aona.org](http://www.aona.org)

### **We encourage early registration, as seating is limited.**

Upon receipt of your registration, you will receive an email confirmation of your registration in the Course, along with hotel and travel information to assist you in making your arrangements.

**PLEASE NOTE: Registration deadline is July 24, 2014**

### **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.

Until an email confirmation is received, please do not consider yourself registered in this Course.

### **For Information:**

Contact AONA Customer Service Department

Phone: (800) 769-1391

(610) 695-2459

Fax: (610) 695-2420

Email: [customerservice@aona.org](mailto:customerservice@aona.org)

## Hotel and Travel

### Resident Hotel Accommodations and Travel

Residents and Fellows traveling from out-of-town (distance greater than 60 miles) will be provided with a standard hotel room for 2 nights (Friday and Saturday). Upon check-in at the hotel, you will be required to provide a credit card to cover individual incidentals. Please complete the reservation information during registration at [www.aona.org](http://www.aona.org). If you register for the course but do not attend, your credit card will be charged one night's hotel room rate plus tax. In the event you do not utilize your hotel room for all nights reserved, and AO North America incurs a "no-show" fee for your reservation, your credit card, on file with customer service, will be charged.

### Attending Hotel Accommodations and Travel

Attendings' hotel reservations are the responsibility of the individual registrant. If you have not done so, please make your reservation at the Hyatt Boston Harbor Hotel as soon as possible as the room block tends to fill up quickly (see hotel link and phone number listed below). Be sure to indicate that you are attending the "AO North America Course" when making your reservation to ensure that you receive the group discount rate of 179 per night (plus applicable taxes and fees) for a 2 night stay. This rate will be available until July 31, 2014 or until the room block fills (whichever comes first). Check-in time is 3PM and check out is 12 Noon. For additional information on the Crowne Plaza Redondo Beach & Marina, please visit their website at: <http://bostonharbor.hyatt.com/en/hotel/home.html>

### Hotel Information:

Hyatt Boston Harbor  
101 Harborside Drive, Boston MA 02128  
617-568-1234

### Hotel Concessions:

Complimentary use of the hotel fitness center

### Travel

The waterfront Hyatt Boston Harbor is one mile from the terminals of Logan International Airport

- 24 hour complimentary airport shuttle is available for guests of our hotel near Boston Airport.

### No Show Fee / Cancellation

Cancellation of your registration must be received prior to the start date of the Course. Otherwise, A "No Show" fee of \$100.00 will be charged to the credit card on file with AONA Customer Service.

\* Please Note: Quoted prices are subject to change.

Complete information will be provided in the confirmation email.

Please visit our website: [www.aona.org](http://www.aona.org) to register and for other course offerings.



## Preliminary Program

# Principles of Operative Treatment of Cranio-maxillofacial Trauma and Reconstruction

AO North America  
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Paoli, PA 19301

Registration is available only online: [www.aona.org](http://www.aona.org)  
Registration Deadline: July 24, 2014