Event program

AOCMF Seminar—Advances in Computer Assisted Surgery

June 10-11, 2017, Keelung, Taiwan
Mission

Our mission is to continuously set standards in postgraduate medical education and to foster the sharing of medically guided expertise in a worldwide network of healthcare professionals to improve patient care in trauma or disorders of the musculoskeletal system.

The AO Principles of fracture management

1. Fracture reduction and fixation to restore anatomical relationships.
2. Fracture fixation providing absolute or relative stability, as required by the “personality” of the fracture, the patient, and the injury.
3. Preservation of the blood supply to soft tissues and bone by gentle reduction techniques and careful handling.
4. Early and safe mobilization and rehabilitation of the injured part and the patient as a whole.
Welcome from International Chair
AOCMF

On behalf of AOCMF (the craniomaxillofacial clinical division of the AO Foundation), it is my pleasure to personally welcome you to this course. Each year, AOCMF provides over 110 educational opportunities to more than 4,500 passionate surgeons worldwide.

The mission of AOCMF is excellence in facial surgery across the specialties. We encourage the involvement of all interested professions, including oral and maxillofacial surgery, plastic surgery, ENT, oculoplastic surgery, and neurosurgery. To achieve our mission, we are committed to remaining at the forefront of education and new developments, by offering remarkable learning and networking experiences focusing on craniomaxillofacial trauma and reconstruction.

Through our courses, membership program, and our website, our goal is to encourage and inspire surgeons—including residents, fellows, and practitioners—to pursue fulfilling careers in our field. In addition, we endeavor to provide lifelong learning opportunities and career development options for more experienced specialists in the most appropriate and useful ways as their needs evolve.

Your role is vital to improving patient care. We hope that your experience with our faculty, chairs, and your peers over the next few days will bring new knowledge, skills, and understanding that you can directly apply to your own practice. We look forward to your participation and encourage you to share your ideas, unique perspectives, and opinions, to help build and enhance our dynamic community, and contribute to the further development of craniomaxillofacial surgery.

I wish you an outstanding learning experience.

Yours sincerely,

Warren Schubert, MD
Chairperson
AOCMF, International Board
Welcome from AOCMF Asia Pacific

Dear colleagues,

The multispecialty organization—AOCMF Asia Pacific—includes 13 countries in the region. It is steadfast in its commitment to serve as the voice and resource for surgeons in the field of CMF reconstruction and trauma.

Numerous courses, seminars, workshops, and symposia on basic and advanced CMF principles have been organized and conducted by the organization—educating surgeons, benefiting patients, and improving the quality of CMF healthcare. Therefore, it is with great pride and pleasure that I warmly welcome you to another such educational activity organized by the AOCMF Asia Pacific.

On behalf of our organization, I thank all international, regional, and local faculty members, and staff for their time and expertise put in to pave the way to the realization of this event. My utmost gratitude, likewise, goes to the industry providers and healthcare institutions for their logistical support and cooperation. I would also like to take this opportunity to congratulate the organizing committee for coming up with a relevant and state-of-the-art scientific program that will definitely stimulate the minds of all attendees—regardless of their personal specializations.

A note to the participants: I am confident that this excellent event will equip all the participants with current information and will enhance your skills.

I am sure that everyone will enjoy the networking and fellowship programs and form new and lasting friendships.

Last but not least, as you journey through your surgical career, I encourage you to join the AOCMF community. We are always ready to welcome keen minds as members and even as future faculty.

Thank you.

Sincerely yours,

Francis V Roasa, MD
AOCMF Asia Pacific Chair
Seminar description

This advanced seminar in computer-assisted surgery will include lectures covering craniofacial, orbital reconstruction, mandibular reconstruction, midface reconstruction, orthognathic surgery (OGS) and facial aesthetic and presented by distinguished international, regional and local speakers. They will review current computer-assisted surgery technology, and how to plan CMF surgeries by computer-assisted technology. Special emphasis will be given to modern three-dimensional planning and printing.

Target participants

Enrollment is open to practicing surgeons, residents and fellows in oral and maxillofacial surgery, plastic surgery, otolaryngology surgery, facial plastic and reconstructive surgery, and other surgical specialties.

Learning objectives

At the conclusion of this seminar, participants should be knowledgeable about:

• Computer-assisted surgery in craniofacial reconstruction
• Computer-assisted in orbital reconstruction
• Computer-assisted surgery in mandibular reconstruction
• Computer-assisted surgery in midface reconstruction
• Computer-assisted planning for OGS and facial aesthetic
Course Director  
Chien-Tzung Chen  
Keelung Chang Gung Memorial Hospital  
Keelung, Taiwan

Course Chair  
Philip KT Chen  
Taoyuan Chang Gung Memorial Hospital  
Taoyuan, Taiwan

Course Co-Chair  
Han-Tsung Liao  
Linko Chang Gung Memorial Hospital  
Linko, Taiwan

International Faculty  
Schramm Alexander  
University Hospital and Military Hospital Ulm  
Germany Ulm

Regional Faculty  
Cai Zhi-Gang  
Peking University, School of Stomatology  
China Beijing

Lim Thiam-Chye  
National University of Singapore  
Singapore Singapore

National Faculty  
Chang Yang-Ming  
Taipei Chang Gung Memorial Hospital  
Taiwan Taipei

Chen Yuan-Chien  
Taichung China Medical University Hospital  
Taiwan Taichung

Ho Cheng-Ting  
Linko Chang Gung Memorial Hospital  
Taiwan Linko

Hsieh Mon-Hsian  
National Taiwan University Hospital  
Taiwan Taipei

Hsieh Ming-Chi  
Charm United Clinic  
Taiwan Taipei

Hsu Sheng-Pin  
Taipei Chang Gung Memorial Hospital  
Taiwan Taipei

Lai Ray-Bin  
Kaohsiung Chang Gung Memorial Hospital  
Taiwan Kaohsiung

Lee Su-Shin  
Kaohsiung Medical University Hospital  
Taiwan Kaohsiung

Lee Jing-Wei  
National Cheng Kung University Hospital  
Taiwan Tainan

Liang Chi-Cheng  
Kaohsiung Chang Gung Memorial Hospital  
Taiwan Kaohsiung

Lo Lun-Jou  
Linko Chang Gung Memorial Hospital  
Taiwan Taipei

Wu Cheng-Hsien  
Taipei Veterans General Hospital  
Taiwan Taipei

Yang Ching-Hsiang  
Kaohsiung Chang Gung Memorial Hospital  
Taiwan Kaohsiung
### Saturday, June 10, 2017

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00—08:30</td>
<td>Registration</td>
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<tr>
<td>08:30—08:40</td>
<td>Opening CT Chen</td>
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<tr>
<td>08:40—09:00</td>
<td>Introduction of AO history and AOCMF membership P Chen</td>
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</tr>
</tbody>
</table>

#### Module 1  Overview of computer assisted surgery in craniofacial reconstruction  
Moderator: P Chen / HT Liao

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00—09:20</td>
<td>Overview of computer-assisted surgery in craniofacial reconstruction</td>
<td>CT Chen</td>
</tr>
<tr>
<td>09:20—09:40</td>
<td>3-D planning in craniofacial reconstruction</td>
<td>SP Hsu</td>
</tr>
<tr>
<td>09:40—10:00</td>
<td>A new computer algorithm in the management of bilateral facial fractures for navigation</td>
<td>TC Lim</td>
</tr>
<tr>
<td>10:00—10:10</td>
<td>Discussion</td>
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<tr>
<td>10:10—10:30</td>
<td>COFFEE BREAK</td>
<td></td>
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</tbody>
</table>

#### Module 2  Computer-assisted in orbital reconstruction  
Moderator: ZG Cai / CH Wu

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30—10:50</td>
<td>A audit on the use of navigation in orbital surgery</td>
<td>TC Lim</td>
</tr>
<tr>
<td>10:50—11:10</td>
<td>The application of intraoperative navigation in acute orbital fracture</td>
<td>CC Liang</td>
</tr>
<tr>
<td>11:10—11:30</td>
<td>The application of intraoperative navigation in post-traumatic enophthalmos</td>
<td>HT Liao</td>
</tr>
<tr>
<td>11:30—11:50</td>
<td>Comparison of intraoperative surgical guiding system for orbital wall reconstruction</td>
<td>SS Lee</td>
</tr>
<tr>
<td>11:50—12:10</td>
<td>Patient specific implants and intraoperative navigation in orbital and midface reconstruction</td>
<td>A Schramm</td>
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<tr>
<td>12:10—12:20</td>
<td>Discussion and group photo</td>
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<tr>
<td>12:20—13:10</td>
<td>LUNCH BREAK</td>
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</tr>
</tbody>
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# Saturday, June 10, 2017, continued

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
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</thead>
<tbody>
<tr>
<td><strong>Module 3</strong></td>
<td><strong>Computer-assisted surgery in mandibular reconstruction</strong></td>
<td>Moderator: SS Lee / A Schramm</td>
</tr>
<tr>
<td>13:10—13:30</td>
<td>Digital work flow for computer-assisted mandible reconstruction</td>
<td>CH Wu</td>
</tr>
<tr>
<td>13:30—13:50</td>
<td>Computer-assisted planning and surgery in mandibular reconstruction</td>
<td>ZG Cai</td>
</tr>
<tr>
<td>13:50—14:10</td>
<td>3-D printing for reconstruction of secondary mandibular deformity after osteoradionecrosis by 3-D model for prebending reconstruction plate</td>
<td>HT Liao</td>
</tr>
<tr>
<td>14:10—14:40</td>
<td>Compare &quot;fibula/jaw in a day&quot; with simultaneous dental implants placement in fibula bone flap (delay prosthesis fabricated) for total oral functional reconstruction: the use of intra-oral scan</td>
<td>YM Chang</td>
</tr>
<tr>
<td>14:40—15:00</td>
<td>Discussion</td>
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<tr>
<td>15:00—15:30</td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>15:30—15:50</td>
<td>Customized implants and surgical guides in mandibular reconstruction</td>
<td>A Schramm</td>
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<tr>
<td>15:50—16:10</td>
<td>How can you improve the height of alveola after fibular transplantation for mandibular reconstruction</td>
<td>ZG Cai</td>
</tr>
<tr>
<td>16:10—16:30</td>
<td>Using 3-D simulation and printing model to assist comminuted facial fracture</td>
<td>CH Yang</td>
</tr>
<tr>
<td>16:30—16:50</td>
<td>3-D guided oral implantation (experience with over 3,000 patient)</td>
<td>A Schramm</td>
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<tr>
<td>16:50—17:10</td>
<td>Discussion</td>
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<tr>
<td>17:10</td>
<td>End of day 1</td>
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**Sunday, June 11, 2017**

<table>
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<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
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<tbody>
<tr>
<td><strong>Module 4</strong></td>
<td><strong>Computer-assisted surgery in midface reconstruction</strong></td>
<td>Moderator: P Chen / MH Hsieh</td>
</tr>
<tr>
<td>08:30—08:50</td>
<td>Digital surgery technique used in mid-face &amp; orbital reconstruction</td>
<td>ZG Cai</td>
</tr>
<tr>
<td>08:50—09:10</td>
<td>Uses of navigation in orbital &amp; zygomatic fractures</td>
<td>TC Lim</td>
</tr>
<tr>
<td>09:10—09:30</td>
<td>Multifariously combined use of virtual image manipulation and physical model fabrication in craniofacial reconstructive surgery</td>
<td>JW Lee</td>
</tr>
<tr>
<td>09:30—09:50</td>
<td>Intraoperative imaging in facial trauma repair (zygoma, orbit, subcondylar)</td>
<td>A Schramm</td>
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<tr>
<td>09:50—10:00</td>
<td>Discussion</td>
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<tr>
<td>10:00—10:20</td>
<td><strong>COFFEE BREAK</strong></td>
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</tr>
<tr>
<td>10:20—10:40</td>
<td>Computer-assisted and intraoperative navigation for old orbital-zygoma fracture management</td>
<td>CH Wu</td>
</tr>
<tr>
<td>10:40—11:00</td>
<td>Problems associated with the use of navigation in CMF surgery</td>
<td>TC Lim</td>
</tr>
<tr>
<td>11:00—11:20</td>
<td>Computer-assisted planning and surgery in maxillary reconstruction</td>
<td>ZG Cai</td>
</tr>
<tr>
<td>11:20—11:40</td>
<td>Surgical navigation assisted miface osteotomy in syndromic craniosynostosis</td>
<td>MH Hsieh</td>
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<tr>
<td>11:40—11:50</td>
<td>Discussion</td>
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<tr>
<td>11:50—13:00</td>
<td><strong>LUNCH BREAK</strong></td>
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# Sunday, June 11, 2017, continued

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<tr>
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</thead>
<tbody>
<tr>
<td><strong>Module 5</strong></td>
<td><strong>Computer-assisted planning for orthognathic surgery (OGS) and facial aesthetic</strong></td>
<td>Moderator: CT Ho / LJ Lo</td>
</tr>
<tr>
<td>13:00—13:20</td>
<td>3-D planning and workflow for OGS</td>
<td>SP Hsu</td>
</tr>
<tr>
<td>13:20—13:40</td>
<td>Splintless maxillary positioning and 3-D printed plates in orthognathic surgery</td>
<td>A Schramm</td>
</tr>
<tr>
<td>13:40—14:00</td>
<td>Maxillary positioning with surgical guide and prefabricated fixators in orthognathic surgery</td>
<td>RB Lai</td>
</tr>
<tr>
<td>14:00—14:20</td>
<td>3-D printing in the OGS for patients with facial asymmetry</td>
<td>LJ Lo</td>
</tr>
<tr>
<td>14:20—14:50</td>
<td>Piezo and CAD/CAM for OGS</td>
<td>YC Chen</td>
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<tr>
<td>14:50—15:10</td>
<td>Discussion</td>
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<tr>
<td>15:10—15:40</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>15:40—16:10</td>
<td>Virtual planning in orthognathic and aesthetic facial skeletal surgery</td>
<td>MC Hsieh</td>
</tr>
<tr>
<td>16:10—16:30</td>
<td>Application of navigation in orthognathic surgery</td>
<td>LJ Lo</td>
</tr>
<tr>
<td>16:30—16:50</td>
<td>Postoperative outcomes of 2-D and 3-D planning in orthognathic surgery: A comparative study</td>
<td>CT Ho</td>
</tr>
<tr>
<td>16:50—17:00</td>
<td>Discussion</td>
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<tr>
<td>17:00</td>
<td>End of the seminar</td>
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</tbody>
</table>
Event organization

AOCMF Asia Pacific
Unit 1310-11 Tower 1,
Millennium City 1,
388 Kwun Tong Road,
Kowloon, Hong Kong
Tel +852 2581 1776
Fax +852 2581 1772
Email naoko.kawai@aocmf.org

Event information

Event fee
USD 500
Included in event fee are coffee breaks, lunch, certificate and event materials.

CME accreditation
An application has been made to the Taiwan Society of Plastic Surgery for CME accreditation of this event.

Evaluation guidelines
All AOCMF events apply the same evaluation process, either audience response system (ARS) or paper and pencil questionnaires. This will help AOCMF to ensure that we continue to meet your training needs. In some regions, CME accreditation is dependent on the participant’s evaluation results.

Intellectual property
Event materials, presentations, and case studies are the intellectual property of the event faculty. All rights are reserved. Check hazards and legal restrictions on www.aofoundation.org/legal.

Event venue

Keelung Chang Gung Memorial Hospital
No. 222, Maijin road,
Anle district, Keelung,
Taiwan
Tel +886 2 2431 3131

Event logistics

Mr. Philip Lin
Johnson & Johnson Medical Taiwan
9F, 319, Tun-Hwa South Rd.,
Sec. 2, Taipei 10669, Taiwan
Tel: +886 2 27328345 ext 105
Email: plin3@its.jnj.com

Recording, photographing, or copying of lectures, practical exercises, case discussions, or any event materials is absolutely forbidden. Participants violating intellectual property will be dismissed.

The AO Foundation reserves the right to film, photograph, and audio record during their events. Participants must understand that in this context they may appear in these recorded materials. The AO Foundation assumes participants agree that these recorded materials may be used for AO marketing and other purposes, and made available to the public.

Security
Please wear a name tag during lectures, workshops, group discussions.

No insurance
The event organization does not take out insurance to cover any individual against accidents, theft, or other risks.

Use of mobile phones
Use of mobile phones is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by turning your mobile off.

Event language
Chinese / English

Dress code
Smart casual for all events.
Notes:
Notes:
Notes:
AO Foundation—Principles of AO Educational Events

1) Academic independence

Development of all curricula, design of scientific event programs, and selection of faculty are the sole responsibilities of volunteer surgeons from the AO network. All education is planned based on needs assessment data, designed and evaluated using concepts and evidence from the most current medical education research, and involving the expertise of the AO Education Institute (www.aofoundation.org). Industry participation is not allowed during the entire curriculum development and planning process to ensure academic independence and to keep content free from bias.

2) Compliance to accreditation and industry codes

All planning, organization, and execution of educational activities follow existing codes for accreditation of high-quality education:

- Accreditation Criteria of the Accreditation Council for Continuing Medical Education, USA (www.accme.org)
- ACCME Standards for Commercial Support: Standards to Ensure Independence in CME Activities (www.accme.org)
- Criteria for Accreditation of Live Educational Events of the European Accreditation Council for Continuing Medical Education (www.uems.eu)

Events that receive direct or indirect unrestricted educational grants or in-kind support from industry also follow the ethical codes of the medical industry, such as:

- Eucomed Guidelines on Interactions with Healthcare Professionals (www.medtecheurope.org)
- Advamed Code of Ethics on Interactions with Health Care Professionals (advamed.org)
- Mecomed Guidelines on Interactions with Healthcare Professionals (www.mecomed.org)

3) Branding and advertising

No industry logos or advertising (with the exception of the AO Foundation and AO Clinical Division) are permitted in the area where educational activities take place. Sponsors providing financial or in-kind support are allowed to have a promotional booth or run activities outside the educational area with approval from the event chairperson.

4) Use of technologies and products in simulations

Case simulations are chosen as an educational method to educate skills, we only use technology approved by the AOTK System (AOTK)—a large independent group of volunteer surgeons developing and peer-reviewing new technology (more information about AOTK, its development and approval process can be found on the AO Foundation website: www.aofoundation.org).

5) Personnel

Industry staff is not allowed to interfere with the educational content or engage in educational activities during the event.
Your benefits as an AOCMF Member

- Networking
- 10% discount on AO Publications
- Science Direct
- Teaching videos
- Fellowships
- AOCMF Directory
- Full access to AO Surgery Reference
- JCMTR online access
- 25% discount on AOCMF Manual
- Print copy of JCMTR

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For members: Print copy of JCMTR

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