Preliminary event program

AOTrauma Masters Course—Current Concepts—Knee Injuries and Deformities

December 2–7, 2018 Davos, Switzerland

Lecture hall: Seehorn
Value statement

AOTrauma is committed to improve patient care outcomes through the highest quality education. We strive to combine the right knowledge and surgical skills that empower the orthopedic and trauma surgeons to put theory into practice and to improve fracture management for the benefit of the patient.

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.
The first AO Course was held in Davos in 1960—these early courses pioneered psychomotor techniques by teaching practical skills of AO Techniques. Since those early days over 455,000 surgeons and 155,000 ORP from over 110 countries have attended AO Courses.

Content

Floor plan
Value statement
The AO Principles of fracture management
Welcome
Goal of the course
Target participants
Learning objectives
Course description
Chairpersons
Faculty
Sunday, December 2, 2018
Monday, December 3, 2018
Tuesday, December 4, 2018
Wednesday, December 5, 2018
Thursday, December 6, 2018
Friday, December 7, 2018
Event organization
Event information
Event venue
Principles of AO Educational Events
Business centre
Wireless network
Exhibitions
AO Research Institute Davos (ARI)
Sponsors
Upcoming AO Courses—Davos 2019
Welcome

Dear AOTrauma course participant,

Welcome to AOTrauma’s Davos Courses 2018. AOTrauma provides a wide range of relevant courses designed to meet your specific professional needs. We are confident that you will find your course as well as the networking experiences professionally rewarding.

With a global reputation for innovation, leadership, and excellence in Continuing Medical Education (CME), the AOTrauma Clinical Division and the AO Education Institute are transforming education. AOTrauma is constantly expanding its portfolio of educational activities available to you. Continuing Medical Education is not just about face-to-face courses. Portfolios address the specific clinical problems that you encounter every day. Visit the AOTrauma home page (www.aotrauma.org) to sample the new assets which are being added constantly.

The AOTrauma Davos Courses offer more than just a course experience. Your primary focus is active engagement in your course. In addition, we encourage you to:

- Interact with over 300 international faculty
- Expand your professional network by establishing new relationships with colleagues that include faculty and participants from over 80 countries
- Visit and speak with staff and surgeons from the AO Foundation’s Clinical Divisions, Institutes and Initiatives. Both the exhibits in the AO World and the “Insight into the AO Center Davos” allow you to learn about the AO’s ongoing activities and the resources available to support you in your clinical work
- Experience the ‘AO Spirit’ of collegiality and camaraderie that is felt by participants and faculty alike at the Davos Courses

Your current level of knowledge, attitudes, and skills will be challenged throughout the week. The best-in-class curriculum and faculty will provide you a memorable learning experience that will remain with you for a lifetime.

If you enjoy the experience during this week and would like to stay in touch with the elite AOTrauma organization, we invite you to become a member of AOTrauma. Membership for medical doctors (and DO’s) requires only a completed AOTrauma Basic Principles Course and the payment of a reasonable yearly fee.

Yours sincerely,

Wa’el Taha
Chairperson AOTrauma
Education Commission

Kodi Kojima
Chairperson AOTrauma
International Board

PS: Your experiences with us, over the next few days, will result in the realization of new and meaningful knowledge, skills, and understanding that we hope will translate into improved patient care.
Course structure
This 5-day, Masters-level course comprises three 1-day modules. Participants also select two from a wide choice of 1-day self-directed learning modules.

Goal of the course
The goal of this course is to present a broad perspective about the knee joint, aiming to understand the knee as an organ, constituted by specialized tissues that should work in a synergic way to promote optimal function. The concept is to integrate existing knowledge in the areas of orthopedic trauma, joint reconstruction, and sports medicine to determine solutions for patient care. The focus is to deliver a set of principles that may guide surgeons on how to make decisions while dealing with knee injuries and deformities. The state-of-the-art in diagnosis, planning, and management of complex injuries and their complications will be addressed by a group of very experienced colleagues.

Target participants
This course is dedicated to orthopedic surgeons interested in the management of traumatic, developmental and degenerative conditions around the knee. Participants must have completed the AO Trauma Basic Principles and Advanced Principles courses. They must be actively involved in orthopedic trauma management and preferably have at least five years of experience post residency in trauma surgery. Participants must be willing to share their ideas and be able to communicate well in English.

Learning objectives
Upon completion of this course, participants will be able to:

- Recognize the tridimensional anatomy of the tibial plateau and its implications for the management of fractures
- Perform the most relevant surgical approaches to the knee
- Explain the mechanisms of trauma and the likelihood of soft tissues damage for specific injury patterns
- Explain the principles of knee deformity analysis in all planes
- Perform preoperative planning for osteotomies around the knee
- Apply the principles of deformity correction to perform osteotomies around the knee
- Recognize pathologies in the area of the knee where the overlap of knowledge between trauma and reconstructive surgery is required
- Explain the principles of management of periprosthetic knee fractures, with a special focus on decision making regarding when to revise and when to fix

Course description
Current Concepts courses and modules address the latest techniques and best practices in operative fracture management to deal with complex orthopedic trauma problems. The course includes many case presentations and open group discussions moderated by experts in the field. Best evidence is presented through summary lectures and practical exercises.
### Overall Chairperson

**Friedrich Baumgaertel**  
University of Marburg  
Koblenz, Germany

**Mauricio Kfuri**  
Missouri Orthopaedic Institute,  
University of Missouri  
Columbia, MO, USA

**Steffen Schröter**  
BG Trauma Center Tübingen  
Tübingen, Germany

### International Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>City</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abulsoud</td>
<td>Mohamed Al-Azhar University</td>
<td>Cairo</td>
<td>Egypt</td>
</tr>
<tr>
<td>Fogagnolo</td>
<td>Fabricio Sao Paulo University, School of Medicine of Ribeirão Preto</td>
<td>Ribeirao Preto</td>
<td>Brazil</td>
</tr>
<tr>
<td>Higgins</td>
<td>Thomas University of Utah Health Sciences Center</td>
<td>Salt Lake City</td>
<td>USA</td>
</tr>
<tr>
<td>Huang</td>
<td>Ye Beijing Jishuitan Hospital</td>
<td>Beijing</td>
<td>China</td>
</tr>
<tr>
<td>Nakayama</td>
<td>Hiroshi Hyogo College of Medicine</td>
<td>Nishinomiya City</td>
<td>Japan</td>
</tr>
<tr>
<td>Stannard</td>
<td>James University of Missouri - Department of Orthopaedic Surgery</td>
<td>Columbia</td>
<td>USA</td>
</tr>
<tr>
<td>Twaddle</td>
<td>Bruce Auckland City Hospital</td>
<td>Auckland</td>
<td>New Zealand</td>
</tr>
</tbody>
</table>

### Regional Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Jörg</th>
<th>Helmut-G.-Walther Klinikum Lichtenfels</th>
<th>Lichtenfels</th>
<th>Germany</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harrer</td>
<td>Hans Philipp</td>
<td>Gelenkchirurgie Orthopaedie Hannover</td>
<td>Hannover</td>
<td>Germany</td>
</tr>
</tbody>
</table>

### Guest lecturer

<table>
<thead>
<tr>
<th>Joseph</th>
<th>Schatzker</th>
<th>Emeritus Professor, Sunnybrook Hospital</th>
<th>Toronto</th>
<th>Canada</th>
</tr>
</thead>
</table>
Sunday, December 2, 2018

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:00</td>
<td>Opening of the Congress Center</td>
<td></td>
</tr>
<tr>
<td>15:00–17:00</td>
<td>Registration of participants</td>
<td></td>
</tr>
<tr>
<td>17:00–18:00</td>
<td>Opening ceremony</td>
<td></td>
</tr>
<tr>
<td>18:00–19:00</td>
<td>FOUNDERS’ RECEPTION</td>
<td></td>
</tr>
<tr>
<td>TIME</td>
<td>AGENDA ITEM</td>
<td>WHO</td>
</tr>
<tr>
<td>--------------</td>
<td>------------------------------------------------------------------------------</td>
<td>------------------------------------</td>
</tr>
<tr>
<td>08:00–08:15</td>
<td>Welcome and introduction to the course and today’s module</td>
<td>M Kfuri, S Schröter</td>
</tr>
<tr>
<td>08:15–08:45</td>
<td>Keynote lecture—the management of tibial plateau fractures in the 1970s</td>
<td>J Schatzker</td>
</tr>
<tr>
<td>08:45–09:05</td>
<td>The principles of anatomical classification for tibial plateau fractures</td>
<td>M Kfuri</td>
</tr>
<tr>
<td>09:05–09:25</td>
<td>Posterolateral split depression fractures—what makes them so challenging?</td>
<td>F Fogagnolo</td>
</tr>
<tr>
<td>09:25–09:45</td>
<td>Tibial plateau fractures in association with ligament injuries—now what?</td>
<td>J Stannard</td>
</tr>
<tr>
<td>09:45–10:00</td>
<td>Patellar fractures—what are the current trends and future directions?</td>
<td>B Twaddle</td>
</tr>
<tr>
<td>10:00–10:30</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>10:30–11:25</td>
<td>Discussion group 1 Fractures and ligament injuries around the knee</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group 1</td>
<td>P Lobenhoffer, F Fogagnolo</td>
</tr>
<tr>
<td></td>
<td>Group 2</td>
<td>J Stannard, M Abdulsoud</td>
</tr>
<tr>
<td></td>
<td>Group 3</td>
<td>B Twaddle, S Schröter</td>
</tr>
<tr>
<td>11:25–11:30</td>
<td>LOCATION CHANGE TO LECTURE HALL</td>
<td></td>
</tr>
<tr>
<td>11:30–11:45</td>
<td>Arthroscopic-assisted techniques for tibial plateau fractures</td>
<td>H Nakayama</td>
</tr>
<tr>
<td>11:45–12:00</td>
<td>Algorithm for the acute management of knee dislocations</td>
<td>F Fogagnolo</td>
</tr>
<tr>
<td>12:00–12:15</td>
<td>Periprosthetic fractures around the knee—when and how to fix?</td>
<td>M Abdulsoud</td>
</tr>
<tr>
<td>12:15–12:30</td>
<td>Acute patellar dislocation—algorithm for treatment</td>
<td>B Twaddle</td>
</tr>
<tr>
<td>12:30–14:00</td>
<td>LUNCH BREAK</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Topic</td>
<td>Speaker(s)</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>14:00–14:15</td>
<td>Bicondylar tibial plateau fractures—what do we know and what do we have to learn?</td>
<td>T Higgins</td>
</tr>
<tr>
<td>14:15–14:30</td>
<td>Acute cartilage injury—state-of-the-art in 2018</td>
<td>J Stannard</td>
</tr>
<tr>
<td>14:30–14:45</td>
<td>Comminuted distal femoral fracture—how to manage it?</td>
<td>J Harrer</td>
</tr>
<tr>
<td>14:45–15:00</td>
<td>Total knee arthroplasty (TKA) after failed tibial plateau fracture</td>
<td>Y Huang</td>
</tr>
<tr>
<td>15:00–15:25</td>
<td>Overview of the most commonly used surgical approaches around the knee</td>
<td>P Lobenhoffer</td>
</tr>
<tr>
<td>15:25–15:50</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>15:50–16:10</td>
<td>TRANSFER TO THE HOSPITAL MEETING POINT 15:50 MAIN ENTRANCE CONGRESS CENTER</td>
<td></td>
</tr>
<tr>
<td>16:10–16:15</td>
<td>Preparation for the anatomical specimen laboratory</td>
<td></td>
</tr>
<tr>
<td>16:15–19:15</td>
<td><strong>Anatomical specimen laboratory</strong></td>
<td>All faculty</td>
</tr>
<tr>
<td></td>
<td>Surgical approach for a distal femoral closing wedge osteotomy</td>
<td>S Schröter</td>
</tr>
<tr>
<td></td>
<td>Surgical approach for an open wedge high tibial osteotomy (HTO)</td>
<td>Y Huang</td>
</tr>
<tr>
<td></td>
<td>Posteromedial approach for tibial plateau fractures</td>
<td>J Stannard</td>
</tr>
<tr>
<td></td>
<td>Lobenhoffer approach</td>
<td>P Lobenhoffer</td>
</tr>
<tr>
<td></td>
<td>Medial gastrocnemius flap</td>
<td>M Kfuri</td>
</tr>
</tbody>
</table>
Self Directed Learning Day

Participants will choose their own program by selecting one of the following 5 modules:

- Pelvic Injuries—Acute and Definitive Care
- Soft-Tissue Coverage for the Non-microvascular Surgeon
- Nonunion
- Fracture Related Infection
- Polytrauma

For the detailed program please refer to the separate program attached on this page
<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00–08:05</td>
<td><strong>Principles and management of knee deformities</strong></td>
<td>Y Huang, J Harrer</td>
</tr>
<tr>
<td>08:05–08:35</td>
<td>Introduction to today’s module</td>
<td>S Schröter</td>
</tr>
<tr>
<td>08:35–08:50</td>
<td>Keynote lecture—history and development of osteotomies around the knee</td>
<td>P Lobenhoffer</td>
</tr>
<tr>
<td>08:50–09:10</td>
<td>Rationale for osteotomies around the knee</td>
<td>M Kfuri</td>
</tr>
<tr>
<td>09:10–09:25</td>
<td>Deformity analysis in the frontal plane</td>
<td>J Harrer</td>
</tr>
<tr>
<td>09:25–09:50</td>
<td>Preoperative planning in the frontal plane—high tibial osteotomy (HTO) and</td>
<td>S Schröter</td>
</tr>
<tr>
<td></td>
<td>distal femoral osteotomy (DFO)</td>
<td></td>
</tr>
<tr>
<td>09:50–10:50</td>
<td><strong>Practical exercise—planning I</strong></td>
<td>S Schröter</td>
</tr>
<tr>
<td></td>
<td>Preoperative planning—HTO and DFO</td>
<td>All faculty</td>
</tr>
<tr>
<td>10:50–11:05</td>
<td>Deformity analysis and planning in the sagittal and axial plane</td>
<td>S Schröter</td>
</tr>
<tr>
<td>11:05–11:30</td>
<td>Preoperative planning using the CORA method</td>
<td>J Harrer</td>
</tr>
<tr>
<td>11:30–12:30</td>
<td><strong>Practical exercise—planning II</strong></td>
<td>J Harrer</td>
</tr>
<tr>
<td></td>
<td>Preoperative planning—CORA method and sagittal plane</td>
<td>All faculty</td>
</tr>
<tr>
<td>12:30–14:00</td>
<td><strong>LUNCH BREAK</strong></td>
<td></td>
</tr>
<tr>
<td>14:00–14:55</td>
<td><strong>Discussion group 1</strong></td>
<td>J Harrer, T Higgins, Y Huang, B Twaddle, P Lobenhoffer, H</td>
</tr>
<tr>
<td></td>
<td>Osteotomies around the knee I</td>
<td>Nakayama</td>
</tr>
<tr>
<td></td>
<td>Group 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group 3</td>
<td></td>
</tr>
<tr>
<td>14:55–15:00</td>
<td><strong>LOCATION CHANGE TO LECTURE HALL</strong></td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Topic</td>
<td>Presenter(s)</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------</td>
</tr>
<tr>
<td>15:00–15:15</td>
<td>Varus knee—high tibial osteotomy versus unicompartmental knee replacement</td>
<td>Y Huang</td>
</tr>
<tr>
<td>15:15–15:30</td>
<td>Surgical technique open wedge HTO</td>
<td>P Lobenhoffer</td>
</tr>
<tr>
<td>15:30–15:45</td>
<td>Surgical technique closing wedge DFO</td>
<td>S Schröter</td>
</tr>
<tr>
<td>15:45–16:00</td>
<td>Rationale and surgical technique double level osteotomy (DLO)</td>
<td>H Nakayama</td>
</tr>
<tr>
<td>16:00–16:15</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td>16:15–17:10</td>
<td>Discussion group 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Osteotomies around the knee II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Group 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>B Twaddle, H Nakayama</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y Huang, F Fogagnolo</td>
</tr>
<tr>
<td></td>
<td></td>
<td>P Lobenhoffer, J Stannard</td>
</tr>
<tr>
<td>17:10–17:15</td>
<td>LOCATION CHANGE TO LECTURE HALL</td>
<td></td>
</tr>
<tr>
<td>17:15–17:30</td>
<td>Osteotomies around the knee using intramedullary nails</td>
<td>T Higgins</td>
</tr>
<tr>
<td>17:30–17:45</td>
<td>Managing complex deformities around the knee</td>
<td>J Harrer</td>
</tr>
<tr>
<td>17:45–18:00</td>
<td>Summary, evaluation, and take-home messages</td>
<td>S Schröter</td>
</tr>
</tbody>
</table>
Thursday, December 6, 2018

Self Directed Learning Day

Participants will choose their own program by selecting one of the following 5 modules:

- Acetabulum—The Fracture and The Approach
- Limb Salvage and Amputation
- Malunion
- Fracture Related Infection
- Polytrauma

For the detailed program please refer to the separate program attached on this page.
# Friday, December 7, 2018

<table>
<thead>
<tr>
<th>TIME</th>
<th>AGENDA ITEM</th>
<th>WHO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>The complexity of the knee</strong></td>
<td>P Lobenhoffer, B Twaddle</td>
</tr>
<tr>
<td>08:00–08:05</td>
<td>Introduction to today’s module</td>
<td>M Kfuri, S Schröter</td>
</tr>
<tr>
<td>08:05–08:25</td>
<td>Distal femur—nonunion and malunion</td>
<td>J Schatzker</td>
</tr>
<tr>
<td>08:25–08:45</td>
<td>Biological resurfacing of the knee</td>
<td>J Stannard</td>
</tr>
<tr>
<td>08:45–09:05</td>
<td>Tibial plateau—malunion and nonunion</td>
<td>M Kfuri</td>
</tr>
<tr>
<td>09:05–09:30</td>
<td>COFFEE BREAK</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>LOCATION</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ROOM Davos 2</strong></td>
<td></td>
</tr>
<tr>
<td>09:30–10:45</td>
<td>Practical exercise I</td>
<td>Y Huang</td>
</tr>
<tr>
<td></td>
<td>Open wedge HTO</td>
<td></td>
</tr>
<tr>
<td>10:45–12:00</td>
<td>Practical exercise II</td>
<td>H Nakayama</td>
</tr>
<tr>
<td></td>
<td>Closed wedge DFO</td>
<td></td>
</tr>
<tr>
<td>12:00–12:30</td>
<td>BREAK WITH SANDWICHES</td>
<td></td>
</tr>
<tr>
<td>12:30–12:45</td>
<td>Planning a knee replacement in posttraumatic osteoarthritis of the knee</td>
<td>J Harrer</td>
</tr>
<tr>
<td>12:45–13:00</td>
<td>Fractures of the knee in osteoporotic bone</td>
<td>T Higgins</td>
</tr>
<tr>
<td>13:00–13:15</td>
<td>Surgical tips and tricks in unicompartmental arthroplasty (UKA)</td>
<td>P Lobenhoffer</td>
</tr>
<tr>
<td>13:15–13:35</td>
<td>Rotational osteotomy in case of patellar dislocation</td>
<td>S Schröter</td>
</tr>
<tr>
<td>13:35–13:55</td>
<td>Results after TKA, UKA, HTO, and tibial plateau fractures</td>
<td>M Abulsoud</td>
</tr>
<tr>
<td>Time</td>
<td>Topic</td>
<td>Speaker</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>13:55–14:10</td>
<td>Trochleoplasty—indications and technique</td>
<td>J Harrer</td>
</tr>
<tr>
<td>14:25–14:40</td>
<td>Managing tibial defects in total knee arthroplasty—the combination of trauma and reconstructive skills</td>
<td>F Fogagnolo</td>
</tr>
<tr>
<td>14:40–15:00</td>
<td>Summary of the day and the course, evaluation, and take-home messages</td>
<td>M Kfuri, S Schröter</td>
</tr>
</tbody>
</table>
Event organization

AO Trauma Education
Bettina Bolliger
Clavadelerstrasse 8
7270 Davos, Switzerland
Phone +41 81 414 27 21
Fax +41 81 414 22 84
Email bbolliger@aotrauma.org

AO funding sources
Unrestricted educational grants from different sources are collected and pooled together centrally by the AO Foundation. All events are planned and scheduled by local and regional AO surgeon groups based on local needs assessments. We rely on industrial/commercial partners for in-kind support to run simulations/skills training if educationally needed.

Event information

Event fee
AO Trauma Masters Course—Current Concepts—Knee Injuries and Deformities CHF 4350.00
Included in the event fee is the conference bag with documentation, coffee breaks, lunches, and AO World Night and course certificate.

European CME Accreditation
An application has been made to the UEMS-EACCME® in Brussels for CME accreditation of this event.

Swiss CME Accreditation
Additionally, an application has been made to the following Swiss societies:
Schweizerische Gesellschaft für Chirurgie (SGC / SSC)
Schweizerische Gesellschaft für Orthopädie und Traumatologie (SGO / SSO)

Conflicts of Interest (COI)
All disclosure information can be viewed at the event webpage:
http://DAVOS1812-KNEE.aotrauma.org

Course certificate
The course certificates will be available at the end of the event at the welcome desk.

Evaluation guidelines
All AO Trauma events apply the same evaluation process, online pre- and post-event evaluation and on-site paper and pencil questionnaires. This helps AO Trauma to ensure that we continue to meet your training needs.

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.

→ Recording, photographing, or copying of lectures, practical exercises, case discussions, or any event materials is strictly 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
Security checks will be conducted at the entrance of the building. Wearing of a name tag is compulsory during lectures, practical exercises, and group discussions.

No insurance
The event organization does not take out insurance to cover any individual against accidents, thefts 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 off your mobile phone.

Picture Gallery
Check out aodavoscourses.org for a daily selection of pictures from the Davos Courses 2017, the best from last year’s courses, and a selection of photographs from the first ever AO Davos Courses.

Dress code
Warm clothes and suitable shoes are advisable.
Event venue

Congress Center Davos
Talstrasse 49A
7270 Davos, Switzerland
Phone +41 81 414 62 00
Fax +41 81 414 62 29

General information
Sunday 12:00–19:00
Monday to Thursday 07:30–19:00
Friday 07:30–16:00

AO World
Sunday 15:00–17:00
Monday to Thursday 09:00–17:00 (Tuesday –20:30)
Friday 09:00–15:30

Industry exhibition
Sunday 15:00–19:00
Monday to Thursday 09:00–17:00 (Tuesday –18:00)
Friday 09:00–15:30
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

If 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.
Business center

There are business center facilities in the Congress Center which are accessible to everybody.

Services
- Internet and e-mail access
- Printer access
- www.aotrauma.org
  AO Course website offering course-related information

Opening hours
30 minutes before the first course of the day starts until
30 minutes after the last course ends

Disclaimer
The use of your own computer in the business center network is inherently not secure. We strongly recommend that you take appropriate actions to protect your computer against unauthorized use or theft (e.g., Firewall, VPN-Connection, VirusScanner). AO cannot be held responsible for any data loss or theft.

For further information or support please contact:
AO Foundation
Phone +41 81 414 28 70
E-mail it.helpdesk@aofoundation.org
Wireless network

How to connect to the AO Wireless LAN

• Open the Wireless Network Connection Window

• Choose the AO Business Network as shown in the print screen below and click on the Connect Button.

Our “AO Business” Wireless Network requires a WPA network key:

Network key: aowireless

• Then click on the OK Button.
Exhibitions

AO World
Visit the AO World in the main foyer, home to the AO Clinical Divisions, AO Institutes and the AO Foundation Initiatives. Here you can explore membership opportunities, browse our print and electronic publications and learn about groundbreaking activities within the AO. Discover research, development, fellowships, and other opportunities available to you by visiting all the booths in the AO World.

Industry exhibitors
Visit the exhibitions of our major industry partners DePuy Synthes and Siemens, who are also contributing in-kind support (material and logistics), and the other exhibitors: SYNBONE, Ethicon, Invibio, Victorinox, ICUC, Moticon GmbH, and Touch Surgery.

Media exhibitors
Lehmanns Media can be found at the entrance to the Congress Center.
AO Research Institute Davos (ARI)

**Mission**
Excellence in applied Preclinical Research and Development within trauma and disorders of the musculoskeletal system and translation of this knowledge to achieve more effective patient care worldwide.

**Goals**
- Contribute high quality applied Preclinical Research and Development focused towards clinical applications/solutions.
- Investigate and improve the performance of surgical procedures, devices and substances.
- Foster a close relationship with the AO medical community, academic societies, and universities.
- Provide research environment/support/training for AO clinicians.

At the AO World booths, meet with our team including our ARI Medical Research Fellows, establish contacts, freely discuss your clinical problems, ideas, and learn about the latest results from the AO Research Institute Davos (ARI). **Insight into the AO Center** will show our infrastructure under one roof and enable you to meet some of our research team.

**Areas:**

**Collaborative Research Programs**
- Annulus Fibrosus Rupture
- Acute Cartilage Injury

**Craniomaxillofacial**
- Imaging and planning of surgery, computer aided preoperative planning
- Medication-Related Osteonecrosis of the Jaw
- Bone Regeneration

**Spine**
- Degeneration and regeneration of the intervertebral disc
- Fracture fixation in osteoporotic bone

**Trauma**
- Bone infection, including the development and testing of active anti-infective interventions
- Fracture fixation in osteoporotic bone including intra-operative assessment of bone quality, augmentation techniques and prophylaxis
- Evaluation of the cortical and trabecular bone remodeling (with special regards to the porosity) in the proximal humerus and its impact on the fracture zones
- Development of smart surgical instruments and implant concepts for optimized bone healing
- Patient outcomes and biomarkers

**Veterinary Medicine**
- Improving osteosynthesis for small and large animals

**Multidisciplinary**
- Analysis of implant-specific functional anchorage with CT-technology
- Ex vivo testing using advanced biomechanical models
- In vivo studies using established or newly developed preclinical models
- Gene transfer- non-viral and viral
- Implant design using the Finite Element Methods
- Implant positioning assistance, C-arm guided implant placement
- Telemetric monitoring of bone healing
- In vivo and in vitro quantification of bone turnover and scaffold degradation
- Longitudinal analysis within in-vivo studies using CT-technology
- Medical image processing and analysis
- Polymers to deliver cells and biological factors, create potential space for tissue development and guide the process of tissue regeneration
- Prototype development and production
- Stem cell therapies for the treatment of bone, intervertebral disc and cartilage defects
- Bioreactor culture systems and mechanobiology
- Surface modification of PEEK to improve tissue integration
- Thermosresponsive gel for delivery of antibiotics, stem cells, growth factors, transfected cells etc.
- 3R – refinement of preclinical studies
- Development, standardization, optimization and improvement of preclinical models and methods

For the 2016 AO Research Institute Davos activity report and recent publications go to:
www.aofoundation.org/ari/publications
Sponsors

We thank our major industry partners **DePuy Synthes** and **Siemens** for contributing in-kind support (material and logistics) without which this event would not be possible. A special thanks to DePuy Synthes and Siemens for providing an unrestricted educational grant for this event.

We also extend our thanks to the following co-sponsors (educational grants, in-kind support):

- **Credit Suisse**
- **Synbone**
- **Ethicon**
Upcoming AO Events—Davos 2019

AO Courses—December 1–6, 2019
• AO Trauma Course—Basic Principles of Fracture Management
• AO Trauma Course—Advances Principles of Fracture Management
• AO Trauma Course—Advanced Principles of Fracture Management for Swiss Residents
• AO Trauma Masters Course—Current Concepts
• AO Trauma Course—Pelvic and Acetabulum Fractures
• AO Trauma Masters Kurs
• AO Trauma/AORecon Course—Comprehensive Periprosthetic Fracture Management of the Hip and Knee
• AORecon Course

AO Courses—December 8–12, 2019
• AO Trauma Course—Basic Principles of Fracture Management for Swiss Surgeons
• AOSpine Courses
• AO CMF Courses
• AO VET Courses

List subject to changes. The final Davos courses list as well as worldwide courses lists will be available on www.aotrauma.org in January 2019.
Driving excellence and empowering the next generation

AOTrauma membership
Discover the advantages of joining the leading global trauma and orthopedic community, providing its members with education, research and networking opportunities worldwide.

Apply for membership at www.aotrauma.org