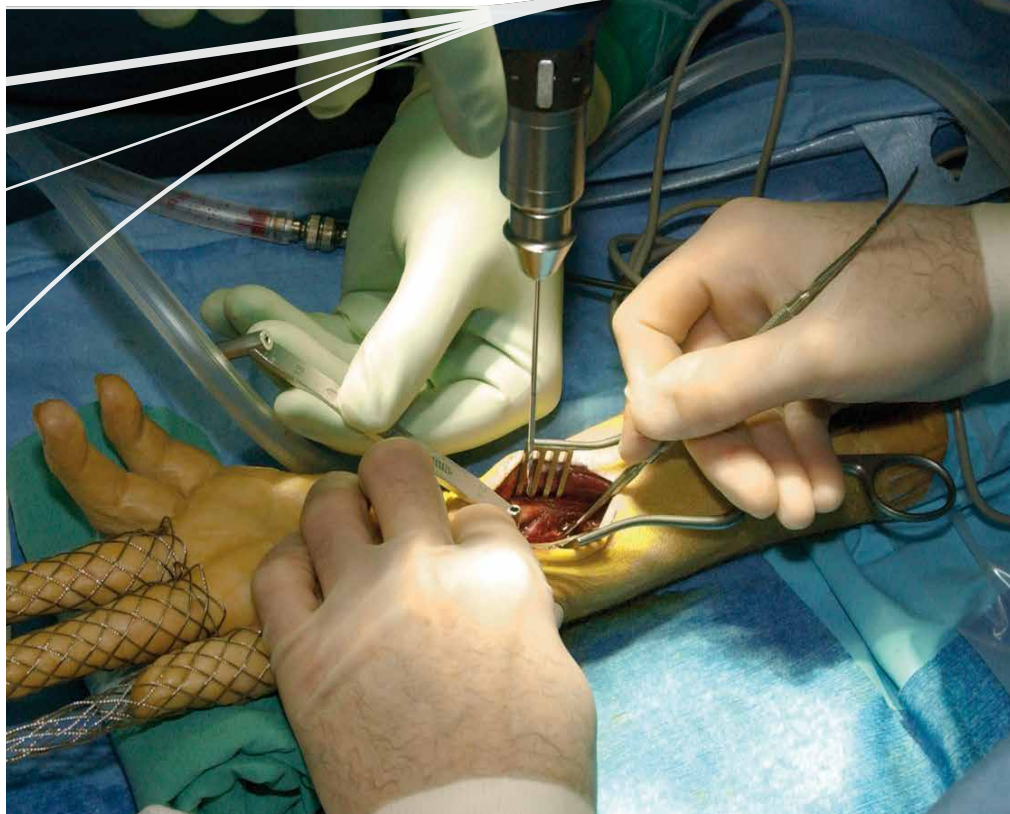


Program

# AOTrauma courses with practical exercises on human specimens

September 4 – 21, 2016

Graz, Austria

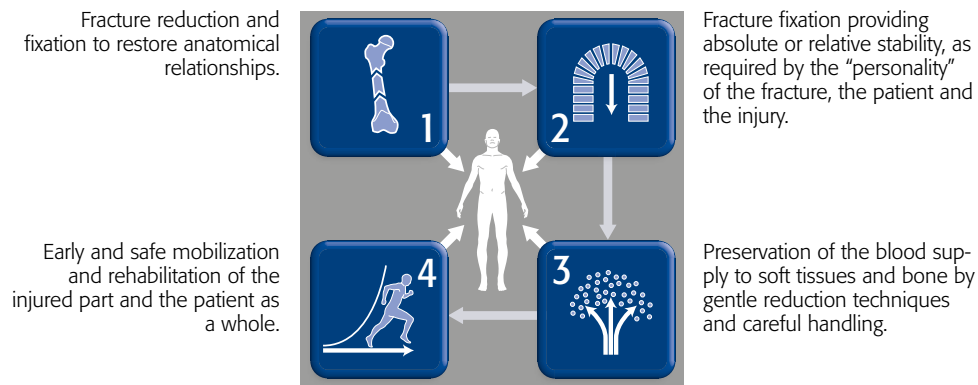


Home to Trauma & Orthopaedics

## 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 orthopaedic 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



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 250.000 surgeons and 135.000 ORP staff from over 110 countries have attended AO Courses – we now launch AOTrauma to move our education to the next level.

## Foreword

Since 1960 Prof. Thiel has developed his own method of embalming cadavers in Graz. The aim was to facilitate both students and doctors of medicine to find conditions on cadavers comparable to living persons. Thus an optimal possibility was created: Surgeons of different special fields are now enabled to train surgery on cadavers as an exercise before acting on patients. In addition new instruments and new methods of surgical approaches have been and can be developed.

Thiel's method of embalming was published in 1992 and 2002 in "Annals of Anatomy". Doctors and anatomists from all over the world have come to Graz in the meantime to learn his method in order to use it in their homelands for students education and in postgraduate courses for doctors.

Based on this embalming Prof. Thiel published also an atlas named "Photographic Atlas of Practical Anatomy". The first edition – translated into many languages – is out of print, the second edition has been on sale since December 2002.

The main advantage of the new embalming is that the cadavers colour, consistency and movability are preserved to a very great extent. In Addition the storable stock solution and the working solutions are bactericidal, fungicidal and virucidal.

The institute of anatomy in Graz houses approximately one thousand doctors every year, who visit the institute to attend our workshops and postgraduate courses on embalmed cadavers as a result of the special facilities given.

Friedrich Anderhuber, O.Univ.-Prof. Dr.

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The course is dealing with surgical approaches, anatomy and techniques of osteosynthesis.

The main interest is extended practical exercises and hands-on-work on cadavers at the Institute of Anatomy by only two participants for each working station.

Beside the scientific program Graz – chosen 2003 as Europe's Culture Capital UNESCO world Heritage Site – has a lot of attractions and sightseeing.

Wolfgang Grechenig, Ao.Univ.-Prof. Dr.

## Chairmen



**Grechenig Wolfgang, Ao.Univ.-Prof. Dr.**  
Medical Univ. Graz, Univ. Clinic Traumatology,  
Graz, Austria



**Wagner Michael, Univ.-Prof. Dr.**  
President AOTrauma Austria,  
Vienna, Austria

## Faculty and Table Instructors

|             |           |                    |   |
|-------------|-----------|--------------------|---|
| Anderhuber  | Friedrich | o. Univ.-Prof. Dr. | Med. Univ Graz, Institut für Anatomie, Graz                   |
| Bakota      | Bore      | MD                 | General Hospital, Karlovacs, Croatia                          |
| Berner      | Arne      | OA Priv. Doz. Dr.  | Univ. Klinik für Unfallchirurgie, Regensburg, Germany         |
| Berzins     | Uldis     | Dr.                | Univ. Klinik für Unfallchirurgie, Graz                        |
| Clement     | Hans G.   | OA Priv. Doz. Dr.  | Unfallkrankenhaus, Graz                                       |
| Cretnik     | Andrej    | MD                 | University Clinical Centre, Traumatology, Maribor, Slovenia   |
| Feigl       | Georg     | Univ.-Prof. Dr.    | Med. Univ Graz, Institut für Anatomie, Graz                   |
| Gänsslen    | Axel      | OA Dr. med.        | Klinikum der Stadt Wolfsberg, Unfallchirurgie, Germany        |
| Grass       | Rene      | Prof. Dr. med.     | Univ. Klinikum Carl Gustav Carus, Dresden, Germany            |
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| Grechenig   | Stephan   | Dr.                | Univ. Klinik für Unfallchirurgie, Regensburg, Germany         |
| Hartl       | Christoph | OA Dr.             | Krankenhaus Steyr, Unfallchirurgie, Steyr                     |
| Hilber      | Franz     | Dr.                | Univ. Klinik für Unfallchirurgie, Regensburg, Germany         |
| Hohenberger | Gloria    | Dr.                | Univ. Klinik für Unfallchirurgie, Graz                        |
| Holweg      | Patrick   | Dr.                | Univ. Klinik für Unfallchirurgie, Graz                        |
| Ivanic      | Gerd      | Prim. Doz. Dr.     | Privatklinik Graz-Ragnitz, Graz                               |
| Kalske      | Juha      | MD                 | Helsinki University Central Hospital, Jorvi Hospital, Finland |

|            |           |                   |   |
|------------|-----------|-------------------|---|
| Kastelec   | Matej     | MD                | University Clinic Centre, Ljubljana, Slovenia   |
| Kiljunen   | Veikko    | MD                | Helsinki University Central Hospital, Töölö Hospital, Finland                                     |
| Klemola    | Tero      | MD                | Oulu University Hospital, Oulu, Finland   |
| Lidder     | Surjit    | MD                | William Harvey Hospital, Kent, UK   |
| Lindahl    | Jan       | MD                | Helsinki University Central Hospital,<br>Dpt of Orthopaedics and Traumatology, Finland            |
| Loibl      | Markus    | Dr.               | Univ. Klinik für Unfallchirurgie, Regensburg, Germany   |
| Mahr       | Daniel    | Dr.               | Univ. Klinik für Unfallchirurgie, Regensburg, Germany   |
| Mandl      | Jürgen    | OA Dr.            | Unfallkrankenhaus, Graz   |
| Matzi      | Veronika  | OÄ Priv. Doz. Dr. | Unfallkrankenhaus, Graz   |
| Mezник     | Alexander | OA Dr.            | Unfallkrankenhaus Meidling, Vienna  |
| Mohajer    | Azizbaig  | OA Dr.            | LKH Stolzalpe, Orthopädie, Murau  |
| Müller     | Michael   | OA PD Dr.         | Univ. Klinik für Unfallchirurgie, Regensburg, Germany   |
| Nerlich    | Michael   | Univ.-Prof. Dr.   | Univ. Klinik für Unfallchirurgie, Regensburg, Germany   |
| Orthner    | Ernst     | Univ. Doz. Dr.    | Fußzentrum, Wels  |
| Pachucki   | Andreas   | Prim. Dr.         | Landeskrankenhaus Amstetten, Unfallchirurgie, Amstetten   |
| Pfeifer    | Christian | Dr.               | Univ. Klinik für Unfallchirurgie, Regensburg, Germany   |
| Rois       | Johannes  | OA Dr.            | Unfallkrankenhaus Meidling, Vienna  |
| Sadoghi    | Patrick   | Priv. Doz. Dr.    | Medizinische Univ. Graz, Univ. Klinik für Orthopädie, Graz  |
| Schintler  | Michael   | Univ.-Prof. Dr.   | Univ. Klinik für Chirurgie, Klinische Abtlg. für Plastische<br>und Rekonstruktive Chirurgie, Graz |
| Schmitz    | Paul      | Dr.               | Univ. Klinik für Unfallchirurgie, Regensburg, Germany   |
| Seggl      | Wolfgang  | Dr.               | Graz  |
| Spendel    | Stephan   | Univ.-Prof. Dr.   | Univ. Klinik für Chirurgie, Klinische Abtlg. für Plastische<br>und Rekonstruktive Chirurgie, Graz |
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| Tesch      | Peter     | Ass. Prof. Dr.    | Med. Univ Graz, Institut für Anatomie, Graz   |
| Thewanger  | Georg     | OA Dr.            | Unfallkrankenhaus, Linz   |
| Vasenius   | Jarkko    | MD                | Medical Centre Dextra, Helsinki, Finland  |
| Weiglein   | Andreas   | Univ.-Prof. Dr.   | Med. Univ Graz, Institut für Anatomie, Graz   |
| Weinberg   | Annelie   | Prof. Dr.         | Graz  |
| Zellner    | Johannes  | Priv. Doz. Dr.    | Univ. Klinik für Unfallchirurgie, Regensburg, Germany   |

## Course objectives

- to broaden the knowledge and comprehension of operative fracture treatment according to the level of education or speciality
- to assist in decision making as to the optimal treatment modality according to the AO Principles
- to learn about the latest developments in research and clinical investigation
- to become acquainted with new techniques and technologies as well as alternative approaches in fracture treatment
- to improve the manual skills by practicing on different bone models
- to understand the evolution of AO Philosophy and Education – what is new and what is still valid as well as the rationale behind any changes

## Course description

The topics will be taught in lectures.

The lectures are followed by practical exercises on human specimens of the Anatomical Institute.

During these dissections key steps are projected on the screens.

Each working place is limited to 2 participants.

Faculty members are there to help you.

Each participant has one side of a complete head and neck site to dissect and one side to assist.

Instruments, gloves and gowns are supplied.

## Target audience

- Trauma surgeons
- Orthopedic surgeons

## Course overview

|  |                    |        |
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| AOTrauma Introductory Course<br><b>Principles in Operative Fracture Treatment</b><br>Chairman: Grechenig | September 04, 2016 | Page 8 |
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| AOTrauma Advanced Course<br><b>Approaches &amp; Osteosynthesis</b><br>Hands-on-Course in Traumatology<br>Chairman: Grechenig | September 05–09, 2016 | Page 9 |
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| AOTrauma Workshop<br><b>“Fracture Management during the Growth”</b><br>Chairperson: Weinberg | September 09, 2016 | Page 14 |
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| AOTrauma Course<br><b>Pelvic Advanced</b><br>Chairmen: Gänsslen, Lindahl | September 10–13, 2016 | Page 15 |
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| AOTrauma Course<br><b>Foot &amp; Ankle Surgery</b><br>Chairman: Grechenig, Orthner | September 14–17, 2016 | Page 19 |
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| AOTrauma Course<br><b>Hand Surgery</b><br>Chairmen: Grechenig, Kastelec | September 18–21, 2016 | Page 24 |
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## Sunday, September 04, 2016

### AOTrauma Introductory Course

#### **WORKSHOP: Principles in operative fracture treatment**

| TIME          | AGENDA ITEM  |
|---------------|--|
| 09:00 – 10:00 | Registration   |
| 10:00 – 10:15 | Welcome  |
| 10:15 – 10:45 | Standard and new screws  |
| 10:45 – 11:00 | How to drill, tap, measure length,...  |
| 11:00 – 12:30 | <b>Practical exercises: screws (different clinical applications)</b>   |
| 12:30 – 13:00 | Standard and new plates  |
| 13:00 – 13:45 | COMMON LUNCH   |
| 13:45 – 14:00 | Principles in angle stable plate fixation  |
| 14:00 – 16:00 | <b>Practical exercises:<br/>Classical principles in plate fixation</b> (neutralisation, compression, bridging)<br>- LCP principles, DLS<br>- Anatomical plates (prox.humerus-Philos, distal radius two column plate) |
| 16:00 – 16:30 | COFFEE BREAK   |
| 16:30 – 16:45 | Tension band   |
| 16:45 – 19:30 | <b>Practical exercises: tension band</b>   |
| 19:30         | End of day 1   |

## Monday, September 05, 2016

### AOTrauma Course

#### **Approaches and Osteosynthesis – Hands-on-Course in Traumatology**

| TIME          | AGENDA ITEM  |
|---------------|--|
| 07:30 – 08:15 | Registration   |
| 08:15 – 08:30 | Welcome  |
| 08:30 – 08:55 | Organisational comments  |
| 08:55 – 09:15 | Surgical approaches shoulder   |
| 09:15 – 09:45 | <b>Practical exercises: anatomy of the shoulder</b>  |
| 09:45 – 10:10 | <b>Practical exercises: subclavian artery</b>  |
| 10:10 – 10:30 | Practical exercises: approaches to the SC / AC joint / clavicle plating, drilling coracoid process anatomy                             |
| 10:30 – 11:00 | COFFEE BREAK   |
| 11:00 – 11:30 | MIO – upper extremity  |
| 11:30 – 12:30 | <b>Practical exercises: anterior approach to the glenohumeral joint, approach subacromial space, medial approach (vessels, nerves)</b> |
| 12:30 – 13:30 | <b>Practical exercises: humeral shaft fracture – anterolateral approach and plating</b>  |
| 13:30 – 14:15 | COMMON LUNCH   |
| 14:15 – 14:30 | Humeral shaft fracture treatment   |
| 14:30 – 15:00 | <b>Practical exercises: anatomy – glenohum. joint posterior</b>  |
| 15:00 – 15:30 | <b>Practical exercises: posterior approach to the glenohumeral joint</b>   |
| 15:30 – 16:00 | <b>Practical exercises : surgical anatomy of the radial nerve</b>  |
| 16:00 – 16:30 | <b>Practical exercises : humeral shaft fracture – dorsal approach and plating</b>  |
| 16:30 – 17:00 | COFFEE BREAK   |
| 17:00 – 17:20 | Anatomy elbow  |
| 17:20 – 20:00 | <b>Practical exercises: surgical anatomy – joint, ligaments</b>  |
| 20:00         | End of day 2   |

## Tuesday, September 06, 2016

### AOTrauma Course

#### Approaches and Osteosynthesis – Hands-on-Course in Traumatology

| TIME          | AGENDA ITEM  |
|---------------|--|
| 08:15 – 09:00 | <b>Practical exercise: surgical anatomy upper extremity – muscles, nerves</b>  |
| 09:00 – 10:00 | <b>Practical exercises: surgical approaches</b><br>- elbow dorsal (olecranon osteotomy)<br>- Boyd, - Bryan Morrey  |
| 10:00 – 10:30 | Approaches elbow   |
| 10:30 – 10:45 | Video: Bryan Morrey  |
| 10:45 – 11:15 | BREAK  |
| 11:15 – 11:45 | Forearm fracture   |
| 11:45 – 12:15 | <b>Practical exercises: anatomy</b>  |
| 12:15 – 13:30 | <b>Practical exercises: surgical approaches</b><br>- shaft of the ulna, - elbow anterior, artery<br>- radius anterior (Henry), - radius posterior (Thompson) |
| 13:30 – 14:30 | <b>Practical exercises: forearm shaft fracture surgical approach / plating</b>   |
| 14:30 – 15:15 | COMMON LUNCH   |
| 15:15 – 15:45 | <b>Practical exercises: approach axillar artery</b>  |
| 15:45 – 16:00 | Video: dermatofasciotomy upper extremity   |
| 16:00 – 16:15 | <b>Practical exercise: dermato fasciotomy upper extremity</b>  |
| 16:15 – 16:30 | <b>Practical exercise: puzzle carpal bones</b>   |
| 16:30 – 17:00 | Surgical approaches to the distal radius   |
| 17:00 – 17:15 | BREAK  |
| 17:15 – 17:45 | <b>Practical exercise: distal radius – surgical approach</b>   |
| 17:45 – 18:30 | <b>Practical exercise: approaches hand</b>   |
| 18:30 – 18:45 | Video: nerves upper extremity  |
| 18:45 – 20:00 | <b>Practical exercise:</b> - proximal amputation, - coniotomy, - digital thoracocentesis   |
| 20:00         | End of day 3   |

## Wednesday, September 07, 2016

### AOTrauma Course

#### Approaches and Osteosynthesis – Hands-on-Course in Traumatology

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:30 – 09:00 | Approaches knee   |
| 09:00 – 09:30 | Practical exercise: anatomy   |
| 09:30 – 09:55 | <b>Practical exercise: dorsal approach to the knee</b>  |
| 09:55 – 10:10 | <b>Practical exercise: approach popliteal artery</b>  |
| 10:10 – 10:30 | <b>Practical exercise: dorsal approach to the ankle</b>   |
| 10:30 – 11:00 | BREAK   |
| 11:00 – 11:30 | Anatomy ankle   |
| 11:30 – 12:00 | <b>Practical exercises: surgical approach to the knee – anterior / medial / lateral – muscles specimens</b> |
| 12:00 – 12:30 | <b>Practical exercises: tibia head medial / lateral</b>   |
| 12:30 – 13:00 | <b>Practical exercises: surgical approach to the ankle – anterior / lateral / medial</b>                    |
| 13:00 – 13:45 | COMMON LUNCH  |
| 13:45 – 14:15 | Principles in angle stable plate fixation   |
| 14:15 – 14:30 | <b>Practical exercise: surgical anatomy (bone puzzle)</b>   |
| 14:30 – 15:00 | <b>Practical exercises: approaches: talus / calcaneus</b>   |
| 15:00 – 15:15 | <b>Practical exercise: anatomy</b>  |
| 15:15 – 15:30 | <b>Practical exercises: approach – Chopart / Lisfranc</b>   |
| 15:30 – 15:50 | BREAK   |
| 15:50 – 16:10 | <b>Practical exercises: approach femoral artery</b>   |
| 16:10 – 16:20 | <b>Practical exercise: surgical anatomy to the foot</b>   |
| 16:20 – 16:45 | <b>Practical exercises: special surgical exposures to the foot</b>  |
| 16:45 – 19:15 | <b>Practical exercises: preparation anatomy foot</b>  |
| 19:15         | End of day 4  |

## Thursday, September 08, 2016

### AOTrauma Course

#### Approaches and Osteosynthesis – Hands-on-Course in Traumatology

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:15 – 08:45 | Principles of treatment: femur shaft fracture   |
| 08:45 – 08:55 | Video: surgical approaches to the femur   |
| 08:55 – 09:15 | <b>Practical exercise: MIPO femur</b>   |
| 09:15 – 09:45 | <b>Practical exercise: femur shaft fracture lateral approach and plating</b>  |
| 09:45 – 10:15 | <b>Practical exercise: medial approach to the distal femur, Amputation</b>  |
| 10:15 – 10:45 | Exposures for intramedullary nailing  |
| 10:45 – 11:15 | BREAK   |
| 11:15 – 11:25 | Video: nerves lower extremity   |
| 11:25 – 12:15 | <b>Practical exercise: surgical anatomy of the nerves of lower extremity</b>  |
| 12:15 – 12:35 | Approach pelvis   |
| 12:35 – 13:30 | COMMON LUNCH  |
| 13:30 – 14:00 | Video: gastrocnemius / soleus muscle flap   |
| 14:00 – 17:30 | <b>WORKSHOP</b><br>- Gastrocnemius / soleus muscle flap<br>- IM-nailing – artificial bone – demonstration – lecture hall<br>- Anatomy Tour<br>- pelvic tamponade, approaches pelvis |
| 17:30         | End of day 5  |

## Friday, September 09, 2016

### AOTrauma Course

#### Approaches and Osteosynthesis – Hands-on-Course in Traumatology

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:00 – 08:20 | Compartmentsyndrom – lower extremity  |
| 08:20 – 08:30 | Video: dermatofasciotomy lower extremity  |
| 08:30 – 09:00 | <b>Practical exercise: dermatofasciotomy in the lower extremity</b>                   |
| 09:00 – 09:10 | Video: approaches tibia shaft   |
| 09:10 – 09:25 | <b>Practical exercise: MIPO tibia</b>   |
| 09:25 – 10:15 | <b>Practical exercise: tibia shaft fracture: anterior approach and plate fixation</b> |
| 10:15 – 10:30 | <b>Practical exercise: peroneal nerve preparation</b>                                 |
| 10:30 – 10:45 | Cancellous bone graft-iliac crest   |
| 10:45 – 11:00 | <b>Practical demonstration: graft harvesting</b>                                      |
| 11:00 – 11:15 | BREAK   |
| 11:15 – 11:45 | Approaches hip  |
| 11:45 – 12:30 | <b>Demonstration: surgical anatomy – hip / pelvis</b>                                 |
| 12:30         | End of day 5  |

## Friday, September 09, 2016

### AOTrauma Workshop

#### Fracture management during the growth

| TIME          | AGENDA ITEM  |
|---------------|--|
| 13:00 – 19:00 | <p>Scientific Organisation: A. Weinberg, MD, Prim. Univ. Prof.</p> <ol style="list-style-type: none"> <li>1. Paediatric trauma: what is different to adults</li> <li>2. Biomechanics ESIN (elastic stable intramedullary nailing) and technical principles, indications, limits</li> <li>3. Operative treatment of diaphyseal fractures: femur fractures, Forearm fractures</li> </ol> <p><b>Hands on course</b><br/>ESIN – femur, tibia (plastic bone)</p> <ol style="list-style-type: none"> <li>4. Postoperative care and implant removal</li> <li>5. Operative treatment of metaphyseal fractures: K-wire osteosynthesis/Screw fixations</li> <li>6. Supracondylar humerus fractures: different treatment options (ESIN, Fixateur externe and k-wire osteosynthesis)</li> </ol> <p><b>Hands on course</b><br/>K-wire stabilisation: lateral condyle humerus, medial epicondyle humerus, supracondylar fracture, subcapital fracture humerus (cadaver and plastic bone)</p> |
| 19:00         | End of day 6   |

## Saturday, September 10, 2016

### AOTrauma Course

#### Pelvic Advanced Course

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:15 – 08:30 | Welcome   |
| 08:30 – 08:40 | Organisational comments   |
|               | <b>PELVIS</b>   |
| 08:40 – 09:05 | Classification  |
| 09:05 – 09:15 | Hemipelvectomy  |
| 09:15 – 09:30 | External fixateur / pelvic clamp  |
| 09:30 – 09:50 | Video : pelvic clamp  |
| 09:50 – 12:40 | <p><b>Practical exercise:</b><br/> <b>1+2) external fixateur</b><br/> <b>3) hemipelvectomy</b><br/> <b>4) patient positioning / x-ray</b></p> <p style="text-align: right;"><b>5) pelvic packing</b><br/><b>6) pelvic clamp</b></p> |
| 11:00 – 11:30 | COFFEE BREAK  |
| 12:40 – 12:50 | SIJ / sacrum  |
| 12:50 – 13:10 | Symphysis   |
| 13:10 – 14:15 | LUNCH PROVIDED  |
| 14:15 – 16:30 | <p><b>Practical exercise:</b><br/> <b>1+2) plating symphysis, ISG anterior</b><br/> <b>3) SIJ dorsal: plate ilioiliacal</b><br/> <b>4) Sacral rods</b><br/> <b>5+6) SIJ screwing percutaneous</b></p>                               |
| 16:30 – 17:15 | Pelvic ring disruptions – principles of treatment   |
| 17:15 – 17:45 | COFFEE BREAK  |
| 17:45 – 18:00 | Intrapelvic approach  |
| 18:00 – 18:15 | <b>Practical exercise: symphysis: approach</b>  |
| 18:15 – 18:30 | <b>Practical exercise: SIJ anterior anatomy</b>   |
| 18:30 – 19:00 | <b>Practical exercise: SIJ approach</b>   |
| 19:00         | End of day 1  |



## Sunday, September 11, 2016

### AOTrauma Course Pelvic Advanced Course

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:15 – 08:30 | Sacrum fracture   |
| 08:30 – 08:50 | Lumbopelvic fixation  |
| 08:50 – 09:10 | Principles of treatment in complex trauma   |
| 09:10 – 09:55 | <b>Practical exercise: SIJ and sacrum dorsal anatomy</b>  |
| 09:55 – 10:40 | <b>Practical exercise: approach sacrum, screws, plate dorsal</b>  |
| 10:40 – 11:10 | COFFEE BREAK  |
|               | <b>ACETABULUM</b>   |
| 11:10 – 11:40 | Classification  |
| 11:40 – 13:40 | <b>Practical exercises:</b><br><b>1) Acetabulum plate position dorsal ORIF joint specimen</b><br><b>2) Anatomy ileoinguinal approach</b><br><b>3) Lumbopelvic fixation</b><br><b>4) Classification pelvis</b><br><b>5) + 6) Classification acetabulum</b> |
| 13:45 – 14:15 | <b>Practical exercise: anatomy</b>  |
| 14:15 – 14:30 | Video: approach iliacal, femoral artery   |
| 14:30 – 15:00 | Video: ilioinguinal approach  |
| 15:00 – 15:30 | <b>Practical exercise: ilioinguinal approach</b>  |
| 15:30 – 15:45 | COFFEE BREAK  |
| 15:45 – 16:10 | Computer-assisted perc. fracture treatment  |
| 16:10 – 16:25 | Acetabulum fracture: ORIF dorsal  |
| 16:25 – 16:40 | Acetabulum fracture: ORIF ventral   |
| 16:40 – 17:10 | <b>Practical exercise: ORIF acetabulum</b>  |
| 17:10         | End of day 2  |

## Monday, September 12, 2016

### AOTrauma Course Pelvic Advanced Course

| TIME          | AGENDA ITEM  |
|---------------|--|
| 08:15 – 08:45 | Pipkin fracture  |
| 08:45 – 09:15 | Reduction technique  |
| 09:15 – 09:35 | Video: approach Kocher Langenbeck  |
| 09:35 – 10:00 | <b>Practical exercise: Kocher Langenbeck</b>   |
| 10:00 – 10:15 | <b>Practical exercise: hamstring – refixation</b>  |
| 10:15 – 10:30 | Video: vessels, nerves hip   |
| 10:30 – 12:30 | <b>Practical exercises:</b><br><b>1) ilioinguinal approach</b><br><b>2) trochanter osteotomy</b><br><b>4) anatomy</b><br><b>5) Intrapelvic approach anatomy</b><br><b>6) hip luxation "Ganz"</b> |
| 12:30 – 13:00 | LUNCH PROVIDED   |
| 13:00 – 14:30 | Case discussion  |
| 14:30 – 14:50 | COFFEE BREAK   |
| 14:50 – 15:10 | Fracture in the elderly  |
| 15:10 – 15:20 | Video: anterior approach hip   |
| 15:20 – 15:45 | Practical exercise: anterior approach hip  |
| 15:45 – 16:00 | Fracture children  |
| 16:00 – 16:30 | Hip arthroscopy  |
| 16:30 – 18:00 | Discussion   |
| 18:00         | End of day 3   |

## Tuesday, September 13, 2016

### AOTrauma Course Pelvic Advanced Course

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:30 – 08:50 | Infections  |
| 08:50 – 09:15 | Hip arthrodesis – indication/technologie  |
| 09:15 – 09:35 | Intertrochanteric fracture  |
| 09:35 – 10:00 | Periprosthetic fracture   |
| 10:00 – 10:30 | COFFEE BREAK  |
| 10:30 – 14:00 | <b>Practical exercise:</b><br><b>1) minimal invasive approach</b><br><b>2) Arthroscopy hip</b><br><b>3) clinical Videos</b><br><b>4) Femur neck screwing, DHS, buttress plate, PFN, PFNA</b><br><b>5) hip arthrodesis</b> |
| 14:00 – 15:00 | Final meeting with all the facultys<br>End of day 4   |

## Wednesday, September 14, 2016

### AOTrauma Course Foot and Ankle Surgery

| TIME          | AGENDA ITEM  |
|---------------|--|
| 08:15 – 08:30 | Welcome  |
| 08:30 – 09:00 | Achilles tendon  |
| 09:00 – 09:15 | Demonstration: percutaneous technique  |
| 09:15 – 10:30 | <b>Practical exercises: achilles tendon, suture, reconstruction, anchor, VY plasty</b>           |
| 10:30 – 10:45 | <b>Practical exercises: anatomy (puzzle)</b>   |
| 10:45 – 11:30 | <b>Practical exercises: anatomy (tendon, vessels, nerves)</b>                                    |
| 11:30 – 12:00 | COFFEE BREAK   |
| 12:00 – 12:15 | Ankle fracture classification  |
| 12:15 – 12:45 | Ankle fracture treatment   |
| 12:45 – 13:30 | <b>Practical exercises: approaches ankle</b>   |
| 13:30 – 14:15 | <b>Practical exercises: osteosynthesis ankle</b>   |
| 14:15 – 15:00 | LUNCH  |
| 15:00 – 15:30 | Pilon tibial fracture  |
| 15:30 – 17:00 | <b>Practical exercises: ORIF / PILON (plates, hybrid fixateur)</b>                               |
| 17:00 – 17:30 | COFFEE BREAK   |
| 17:30 – 17:50 | Chronic ankle instability  |
| 17:50 – 19:15 | <b>Practical exercises: chronic ankle instability (Retinaculum flap, Peroneus brevis plasty)</b> |
| 19:15         | End of day 1   |

Thursday, September 15, 2016

## AOTrauma Course

**Foot and Ankle Surgery**

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:15 – 08:35 | The mangled extremity   |
| 08:35 – 09:00 | Compartment syndrome lower extremity  |
| 09:00 – 09:30 | <b>Practical exercises: MIPO Tibia distal, fibula</b>                                     |
| 09:30 – 09:45 | Video: compartment syndrome. Fasciotomy   |
| 09:45 – 10:15 | <b>Practical exercises: Fasciotomy</b>  |
| 10:15 – 10:30 | COFFEE BREAK  |
| 10:30 – 11:00 | Talus   |
| 11:00 – 11:15 | Video: nerves lower extremity   |
| 11:15 – 11:45 | <b>Practical exercises: anatomy talus, constructive anatomy of the talus (plastillin)</b> |
| 11:45 – 12:00 | <b>Practical exercises: osteosynthesis talus</b>  |
| 12:00 – 12:15 | Dorsal approach, distal tibia   |
| 12:15 – 12:45 | <b>Practical exercises: dorsal approach ankle / talus</b>                                 |
| 12:45 – 13:15 | LUNCH   |
| 13:15 – 13:45 | Calcaneal fractures   |
| 13:45 – 14:00 | Calcaneal fractures – percutan techniques   |
| 14:00 – 14:10 | <b>Practical exercises: anatomy calcaneus</b>   |
| 14:10 – 14:20 | Video: calcaneus lateral approach   |
| 14:20 – 14:40 | <b>Practical exercises: calcaneus lateral approach</b>                                    |
| 14:40 – 15:00 | <b>Practical exercises: calcaneus medial approach</b>                                     |
| 15:00 – 16:00 | <b>Practical exercises: osteosynthesis calcaneus – artificial bone</b>                    |

Thursday, September 15, 2016

## AOTrauma Course

**Foot and Ankle Surgery**

| TIME          | AGENDA ITEM  |
|---------------|--|
| 16:00 – 16:30 | COFFEE BREAK   |
| 16:30 – 16:50 | Chopart / Lisfranc   |
| 16:50 – 17:00 | Video: Lisfranc  |
| 17:00 – 17:20 | Metatarsal V fracture trent  |
| 17:20 – 19:00 | <b>Practical exercises:<br/>1) calcaneus percutane technique, 2) osteosynthesis metatarsalia<br/>3) metatarsale V fixation – demonstration, 4) approaches Chopart / Lisfranc</b> |
| 19:00         | End of day 2   |

## Friday, September 16, 2016

### AOTrauma Course

#### Foot and Ankle Surgery

| TIME          | AGENDA ITEM  |
|---------------|--|
| 08:15 – 08:45 | Anatomy ankle  |
| 08:45 – 09:15 | Acute and chronic syndesmosis lesions  |
| 09:15 – 09:25 | Video: nerves lower extremity  |
| 09:25 – 10:15 | <b>Practical exercises: reconstruction tibia-fibula Syndesmosis</b>  |
| 10:15 – 10:45 | COFFEE BREAK   |
| 10:45 – 11:15 | General principles in arthrodesis  |
| 11:15 – 11:45 | Prosthesis ankle   |
| 11:45 – 12:15 | Arthroscopy ankle / subtalar   |
| 12:15 – 12:30 | Subtalar arthrodesis   |
| 12:30 – 14:30 | <b>Practical exercises:</b><br><b>1) arthrodesis ankle</b><br><b>2) subtalar arthrodesis</b><br><b>3) prosthesis</b> |
| 14:30 – 15:30 | LUNCH  |
| 15:30 – 16:00 | Fracture metatarsal phalanges  |
| 16:00 – 17:00 | Case discussion  |
| 17:00 – 18:00 | <b>Practical exercises: Demo approaches</b>  |
| 18:00 – 19:00 | Workshop Arthroscopy   |
| 19:00         | End of day 3   |

## Saturday, September 17, 2016

### AOTrauma Course

#### Foot and Ankle Surgery

| TIME          | AGENDA ITEM  |
|---------------|--|
| 08:30 – 10:00 | A) Clinical examination foot and ankle<br>B) Anatomy:<br>- vessels<br>- nerves<br>- biomechanics,<br>- tendons   |
| 10:00 – 10:30 | COFFEE BREAK   |
| 10:30 – 10:45 | Peroneus tendon luxation   |
| 10:45 – 11:00 | Tibialis posterior transfer  |
| 11:00 – 11:15 | Tibialis posterior insufficiency   |
| 11:15 – 11:30 | Arthrodesis Chopart / Lisfranc   |
| 11:30 – 13:00 | <b>Practical exercises:</b><br><b>1) peroneus tendon luxation</b><br><b>2) tibialis posterior transfer</b><br><b>3) tibialis posterior insufficient</b><br><b>4) walk around anatomy</b><br><b>5) ultrasound achilles tendon</b> |
| 13:00 – 13:30 | LUNCH  |
| 13:30 – 14:15 | Hallux valgus treatment – general principles   |
| 14:15 – 17:00 | <b>Practical exercises: forefoot</b><br><b>1) anatomy approaches</b><br><b>2) TMT1 arthrodesis</b><br><b>3) MTP1 arthrodesis</b><br><b>4) Chevron</b>  |
| 17:00         | End of day 4   |

## Sunday, September 18, 2016

### AOTrauma Course

#### Hand Surgery

| TIME          | AGENDA ITEM   |
|---------------|---|
| 09:00 – 09:15 | Welcome   |
| 09:15 – 09:45 | Distal radius fracture trent  |
| 09:45 – 11:00 | <b>Practical exercises: distal radius fracture – plating</b>  |
| 11:00 – 11:10 | <b>Practical exercises: surgical anatomy</b>  |
| 11:10 – 11:40 | <b>Practical exercises: surgical approaches</b>   |
| 11:40 – 12:00 | <b>Practical exercises: approaches metacarpals/phalangeals</b>  |
| 12:00 – 12:30 | LUNCH   |
| 12:30 – 12:45 | Compartmentsyndrom upper extremity  |
| 12:45 – 14:15 | <b>Practical exercises:</b><br><b>1) fasciotomy</b><br><b>2) anatomy</b>  |
| 14:15 – 14:40 | Scaphoid fracture / non unions  |
| 14:40 – 15:00 | External fixateur   |
| 15:00 – 15:30 | COFFEE BREAK  |
| 15:30 – 15:50 | ORIF / MC / Phalanges   |
| 15:50 – 16:05 | Fracture thumb  |
| 16:05 – 16:15 | Video: scaphoid percutaneous technique  |
| 16:15 – 18:30 | <b>Practical exercises:</b><br><b>1.) external fixateur</b><br><b>2.) osteosynthesis scaphoid</b><br><b>3.) percutaneous screw fixation</b><br><b>4.) ORIF / MC</b> |
| 18:30         | End of day 1  |

## Monday, September 19, 2016

### AOTrauma Course

#### Hand Surgery

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:30 – 09:00 | Forearm fracture  |
| 09:00 – 09:30 | Compressions syndromes upper extremity  |
| 09:30 – 11:10 | <b>Practical exercises: anatomy</b><br><b>1) extensor apparatus, flexor tendons, carpal tunnel</b><br><b>2) biomechanics</b><br><b>3) vessels and nerves</b>  |
|               | <b>Practical exercises:</b><br><b>CTS, trigger finger, Guyon, De Quervain, UCL, approach Scaphoid, approach Bennett</b>   |
| 11:10 – 11:30 | COFFEE BREAK  |
| 11:30 – 12:00 | Rizarthrosis – principles of trent  |
| 12:00 – 12:30 | Denervation   |
| 12:30 – 14:00 | <b>Practical exercises:</b><br><b>1) denervation</b><br><b>2) resection arthroplasty</b><br><b>3) arthrodesis MCP I plasty</b><br><b>4) praeparation vessel / nerves</b><br><b>5) walk around anatomy</b>                         |
| 14:00 – 14:45 | LUNCH   |
| 14:45 – 15:15 | Wrist arthrosis – principles of trent   |
| 15:15 – 15:45 | Carpal instability  |
| 15:45 – 16:15 | Perilunate fracture trent   |
| 16:15 – 18:30 | <b>Practical exercises: carpal bones - puzzle</b><br><b>1) arthrodesis wrist</b><br><b>2) midcarpal arthrodesis</b><br><b>3) proximal row carpectomy</b><br><b>4) dorsale capsulodesis</b><br><b>5) perilunate fracture trent</b> |
| 18:30         | End of day 2  |

## Tuesday, September 20, 2016

### AOTrauma Course

#### Hand Surgery

| TIME          | AGENDA ITEM   |
|---------------|---|
| 08:30 – 09:00 | Problems at the distal radioulnar joint   |
| 09:00 – 09:15 | Ulnocarpal abutment syndrome  |
| 09:15 – 09:45 | Ulna shortening / Kapandji / Darrach  |
| 09:45 – 11:15 | <b>Practical exercises:</b><br><b>1) Ulna shortening</b><br><b>2) Kapandji</b><br><b>3) Darrach</b><br><b>4) TFCC</b><br><b>5) PIP volar approach</b>         |
| 11:15 – 11:45 | COFFEE BREAK  |
| 11:45 – 12:15 | Wrist arthroscopy   |
| 12:15 – 12:30 | Video: wrist arthroscopy  |
| 12:30 – 13:40 | <b>Practical exercises:</b><br><b>1) wrist arthroscopy</b><br><b>2) ultrasound hand</b><br><b>3) clinical examination hand</b><br>Video: extensor aponeurosis |
| 13:45 – 14:45 | <b>Practical exercises:</b><br><b>anatomy, snow plastic, distal refixation</b><br><b>(Lengemann / anchor suture)</b><br><b>arthrolysis PIP</b>                |
| 14:45 – 15:00 | COFFEE BREAK  |
| 15:00 – 15:15 | Arthrodesis finger joints   |
| 15:15 – 15:45 | Arthrodesis of the wrist  |
| 15:45 – 16:45 | <b>Practical exercises: arthrodesis finger joints</b>   |
| 16:45 – 17:00 | Corrective osteotomie MC/phalanges  |
| 17:00 – 18:00 | <b>Practical exercises: corrective osteotomie MC / phalanges</b>  |
| 18:00         | End of day 3  |

## Wednesday, September 21, 2016

### AOTrauma Course

#### Hand Surgery

| TIME          | AGENDA ITEM  |
|---------------|--|
| 08:15 - 08:20 | Organizational comments  |
| 08:20 - 08:35 | Principles in hand surgery   |
| 08:35 - 08:55 | Extensor tendon injuries   |
| 08:55 - 09:15 | Flexor tendon injuries   |
| 09:15 - 09:30 | Replantation   |
| 09:30 - 11:00 | <b>Practical exercises:</b><br><b>1) Extensor tendon suture/distal refixation</b><br><b>2) Extensor indicis plasty</b><br><b>3) Flexor tendon suture</b><br><b>4) Pulley refixation/reconstruction</b>   |
| 11:00 – 11:20 | COFFEE BREAK   |
| 11:20 – 11:40 | Nerv injuries and neuroma trent  |
| 12:00 – 12:20 | Burn injuries and scar management  |
| 12:20 – 12:40 | Infections of the hand   |
| 12:40 - 13:00 | Dupuytren's contracture  |
| 13:00 - 14:00 | LUNCH  |
| 14:00 – 14:30 | Local hand flaps   |
| 14:30 – 14:50 | Amputation   |
| 14:50 – 18:30 | <b>Practical exercises:</b><br><b>1) Scar trent / Z-plasty</b><br><b>2) Rhomboid flaps</b><br><b>3) Crossfinger/reversed crossfinger flap</b><br><b>4) Moberg flap</b><br><b>5) Foucher flap</b><br><b>6) Distal pedicled metacarpal artery flap</b> |
| 18:30         | End of day 4   |

## Organization

### AO Foundation

AOTrauma International  
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## Registration & Course fees

Please register online:

AOTrauma Introductory Course  
[http://GRAZ1609\\_BAS.aotrauma.org](http://GRAZ1609_BAS.aotrauma.org)

AOTrauma Course Approaches & Osteosynthesis  
[http://GRAZ1609\\_ADV\\_AS.aotrauma.org](http://GRAZ1609_ADV_AS.aotrauma.org)

AOTrauma Symposium Fracture Management during Growth  
[http://GRAZ1609\\_GROWTH.aotrauma.org](http://GRAZ1609_GROWTH.aotrauma.org)

AOTrauma Course Pelvic & Acetabulum  
[http://GRAZ1609\\_PE\\_AS.aotrauma.org](http://GRAZ1609_PE_AS.aotrauma.org)

AOTrauma Course Foot & Ankle  
[http://GRAZ1609\\_FA\\_AS.aotrauma.org](http://GRAZ1609_FA_AS.aotrauma.org)

AOTrauma Course Hand & Wrist  
[http://GRAZ1609\\_HA\\_AS.aotrauma.org](http://GRAZ1609_HA_AS.aotrauma.org)

### Course fee

Covers admission, course bag, coffee breaks and lunch breaks.

### Course account

Name of Account: „AO Kurssekretariat“, Bank Austria/Creditanstalt Salzburg  
IBAN: AT11 1100 0009 5161 6200  
BIC: BKAUATWW

Please pay in Euro before August 20, 2016 and state your name on every remittance slip.  
Bank charges must be paid by the participant.

After receipt of payment you will receive a confirmation of your registration.  
Payment by credit card will not be accepted!

### Cancellation

No refund for cancellations within 10 days before the event.

## Local Chair

### Grechenig Wolfgang, Ao.Univ.-Prof. Dr.

LKH Universitätsklinikum Graz  
Univ. Klinik für Unfallchirurgie  
Auenbruggerplatz 5  
A-8036 Graz

## Course information

### AO Course office

Mag. (FH) Sylvia Reischl  
Phone +43 664 925 3869  
e-Mail reischl.sylvia@ao-courses.com

September 4, 2016  
**Course Fee: € 140,-**

September 5–9, 2016  
**Course Fee: € 1.179,-**

September 9, 2016  
**Course Fee: € 120,-**

September 10–13, 2016  
**Course Fee: € 820,-**

September 14–17, 2016  
**Course Fee: € 820,-**

September 18–21, 2016  
**Course Fee: € 820,-**

## Course Information

### Accreditation info

An application has been made to the UEMS-EACCME® for CME accreditation of this event

### Evaluation guidelines

All AO/CMF courses apply the same evaluation process, either ARS (audience response system) or paper and pencil questionnaires. This will help AO/CMF to ensure that we continue to meet your training needs.

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## Course venue

Anatomical Institute of the Medical University Graz  
8010 Graz, Harrachgasse 21 (Entrance Goethestrasse 33)

## Hotel information

<https://www.graztourismus.at/en>  
Hotel costs have to be paid separately and are not included in the course fee.





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