



AO Trauma Course-Basic Principles of Fracture Management



August 17, 2017 - August 20, 2017
Bellevue, WA, USA

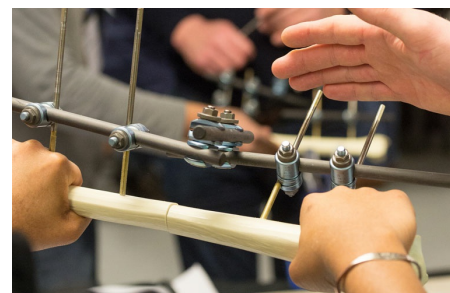
Course Description

This Basic Course is designed to provide the participant with a fundamental knowledge of operative treatment of fractures according to the AO principles.

The four guiding AO principles of fracture fixation are:

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

The course will cover the concepts of absolute and relative stability, as applied in context, of the soft tissue injury for each limb segment's major fracture types. This course is the foundation for the AONA curriculum, which teaches the surgeon how to manage trauma and trauma reconstruction. The goal of this course is not to advocate the treatment of all fractures by surgical fixation, but rather to help ensure that when surgery is carried out, that it is done properly based upon principles, appropriate preoperative planning, and decision making.



Bellevue, Washington

Event Summary

Tuition:

Level Name: Participant - Orthopaedic
Pricing Tier: Attending
Tuition: \$1,495.00

Level Name: Participant - Orthopaedic
Pricing Tier: Resident
Tuition: \$1,095.00

Course Prerequisite(s):

No Prerequisites

Venue:

Hyatt Regency Bellevue
900 Bellevue Way NE
Bellevue, Washington, USA
Phone Number: 425-698-4250

Please Note: This course is available to physicians only.

Language(s):

English

Directly Provided by:



Professional Level Prerequisite(s):

- Residency Year 1
- Residency Year 2
- Residency Year 3
- Residency Year 4
- Residency Year 5
- Residency Year 6
- Residency Year 7
- Residency Year 8
- Attending
- Fellow
- Physician Asst

CME

Continuing Education Credit: 31.00

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

AONA has been resurveyed by the Accreditation Council for Continuing Medical Education (ACCME) and awarded Accreditation with Commendation.

- **Designation Statement** - AO North America designates this live educational activity for a maximum of 31.00 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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, neurosurgery, 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:

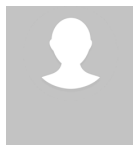
- Increase their knowledge base and surgical skill level
- Improve competence by applying advances of knowledge in patient care in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques
- Address practice performance gaps by improving management of aspects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

Learner Objectives

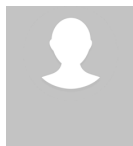
Upon completion, participants should be able to:

- Discuss the concepts of stability, their influence on bone healing, and how to apply implants to achieve appropriate stability
- Plan a treatment based on assessment, imaging, classification and decision making
- Apply reduction techniques in fracture management with attention to the importance of the soft tissue
- Plan the initial treatment of a polytraumatized patient
- Apply related psychomotor skills to the practical application of orthopaedic implants to fractured bones

Faculty

**Eastman, Jonathan - Co-Chairperson**

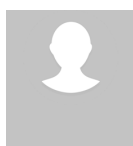
MD
Assistant Professor
Department of Orthopaedic Surgery
University of California, Davis Medical Center
Sacramento, CA

**Taitsman, Lisa - Co-Chairperson**

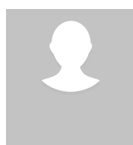
MD, MPH
Associate Professor
Department of Orthopaedics and Sports Medicine
Harborview Medical Center
Seattle, WA

**Lee, Mark - Evaluator**

MD
Professor
Fellowship Director and Vice Chair for Research
Department of Orthopaedic Surgery
University of California-Davis Medical Center
Sacramento, CA

**Gladden, Paul - Coach**

MD
Chief of Orthopaedic Trauma Surgery
Residency Program Director
Associate Professor
Tulane University School of Medicine
New Orleans, LA

**Hubbard, David - Coach**

MD
Professor
Chief, Section of Orthopaedic Trauma
Program Director
Department of Orthopaedic Surgery
West Virginia University
Morgantown, WV

**Stephen, David - Coach**

MD, FRCS(C)
Sunnybrook Health Sciences Centre
Associate Professor
University of Toronto
Toronto, ON

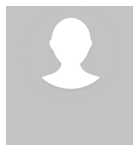
**Volgas, David - Coach**

MD
Associate Professor
Program Director
Department of Orthopaedic Surgery
University of Missouri
Columbia, MO

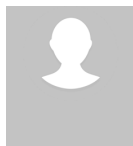
David Volgas is an orthopaedic surgeon who specializes in trauma. He has practiced at University of Missouri Health System since Sept 2010. His special interests are in pilon fractures, calcaneus fractures, proximal humerus fractures and in soft tissue reconstruction. Dr. Volgas attended medical school from 1983-87 at the University of Tennessee Center for the Health Sciences in Memphis. After medical school, he was assigned to Dwight D Eisenhower Army Medical Center for his transitional internship year. As common at that time for military residents, he was sent to the field for one year as a General Medical Officer at Ft. Polk, LA. He served as the Brigade Surgeon for the 2nd Battalion, 5th Infantry Division (Mechanized) where he was the primary medical officer for 4,000 troops and participated in field training for battalion personnel. He then was selected for orthopaedic residency training. He began orthopaedic residency in 1988 at DDEAMC in Augusta, GA at Ft. Gordon. As a junior resident (PGY-3), he was the senior resident on a service staffed by Reserve orthopaedic surgeons and more junior residents during Desert Storm. He did a 3-month trauma rotation during his PGY-4 year at Grady Hospital in Atlanta and fell in love with trauma surgery. He also did a 6-month pediatric rotation in Miami, FL at Jackson Memorial Hospital during his PGY-4 year. He completed his orthopaedic residency in 1993. He was transferred to Killeen, TX after residency and assigned to Darnall Army Community Hospital (DACH), where he served as a general orthopaedic surgeon. He applied for a trauma fellowship, but Army policy at the time precluded training in trauma and there were few trauma fellowships in the US. Because of his enjoyment of spine surgery and his enjoyment of being able to operate everywhere in the body, he applied for and was accepted to a pediatric fellowship at Jackson Memorial Hospital in Miami, FL. He began pediatric orthopaedic training in Aug 1994. During this training, he was exposed to a large volume of scoliosis, operative clubfoot and limb deformity cases. After fellowship, he was assigned to Brooke Army Medical Center as a pediatric orthopaedic surgeon. The military decided about 6 months later to combine the pediatric orthopaedic programs of Wilford Hall (the Air Force medical center in San Antonio). Fortuitously, at the same time, the Institute for Surgical Research at BAMC decided to begin extremity research and named Dr. James Stannard as the chief of this new unit. Dr. Stannard requested a second trauma surgeon. Dr. Volgas volunteered for this position, since it was his first love. He served in this role for almost 3 years, until his resignation from active duty in 1998. During the spring of 1998, Dr. Volgas spent one month with Dr. Stannard and Dr. Jorge Alonso at the University of Alabama - Birmingham (UAB) on an AO fellowship. Dr. Volgas joined Dr. Stannard and Dr. Alonso at UAB in August 1998. During his 12-year tenure at UAB, he was appointed the Program Director of the residency and served in that capacity for 7 years. He also noted very early in his career at UAB, that many patients had large soft tissue injuries and began to study simple coverage techniques such as sural flaps under the tutelage of a plastic surgeon. When Dr. Tad Heinz, a plastic surgeon who was keenly interested in orthopaedic traumatic wounds moved to Colorado, Dr. Volgas began doing soft tissue coverage independently. He also developed an extensive practice in reconstructive surgery including bone transport, limb lengthening, and flap coverage. He also developed a keen interest in pilon and calcaneal fractures. He developed a database to track the outcomes of these cases and, over the course of his final 3 years at UAB, he entered data about 126 pilon fractures and more than 100 flap cases. Recognizing the importance of soft tissue handling in orthopaedic trauma, Dr. Volgas met Prof Thomas Ruedi at an AO course and discussed with him the idea of writing a book on soft tissue techniques for the AO. Over the next 5 years, Dr. Volgas developed the concept of a soft tissue manual for the AO and as the chief editor, guided the format and presentation of the material which was eventually published in 2012 as the Manual of Soft Tissue Management for Orthopaedic Trauma. Dr. Volgas has gained an international reputation for soft tissue management and has served as chairman of several international and national courses on soft tissue management.

**Achor, Timothy - Lecturer**

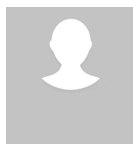
MD
Associate Professor
Director, Orthopaedic Trauma Fellowship
Department of Orthopaedic Surgery
University of Texas at Houston
Memorial Hermann Texas Medical Center
Houston, TX

**Adams, Mark - Lecturer**

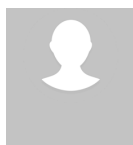
MD
Assistant Professor
Division of Orthopaedic Trauma
Rutgers New Jersey Medical School
Newark, NJ

**Altman, Daniel - Lecturer**

Orthopaedic Surgery Residency Program Director
Allegheny Health Network
Associate Professor of Orthopaedic Surgery
Drexel University College of Medicine
Pittsburgh, PA

**Altman, Gregory - Lecturer**

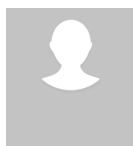
MD
Associate Professor of Orthopaedic Surgery
Temple University School of Medicine
Vice-Chairman Department of Orthopaedic Surgery
Co-Director of Orthopaedic Trauma
Allegheny General Hospital
Pittsburgh, PA

**Benirschke, Stephen - Lecturer**

MD
Professor
Department of Orthopaedics & Sports Medicine
Harborview Medical Center
Seattle, WA

**Bernstein, Mitchell - Lecturer**

MD, FRCSC
Assistant Professor
Orthopaedic Trauma & Limb Deformity
Department of Orthopaedic Surgery and Rehabilitation
Loyola University Medical Center
Maywood, IL

**Bishop, Julius - Lecturer**

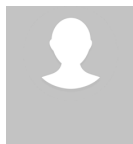
MD
Assistant Professor
Associate Residency Director
Orthopaedic Surgery
Stanford University Medical Center
Palo Alto, CA

**Camuso, Matthew - Lecturer**

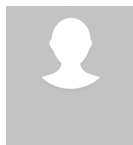
MD
Orthopaedic Trauma Surgery
Maine Medical Center
Portland, ME

**Cross, William - Lecturer**

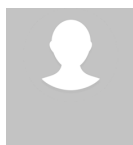
MD
Assistant Professor
Division of Orthopedic Trauma
Department of Orthopedic Surgery
Mayo Clinic
Rochester, MN

**Davies, Jonah - Lecturer**

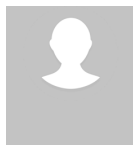
MD, FRCS(C)
Assistant Professor
Department of Orthopaedics
Harborview Medical Center
Seattle, WA

**Davis, Jason - Lecturer**

MD
Clinical Instructor
Department of Orthopaedic Surgery
UCSF Fresno
Fresno, CA

**Firoozabadi, Reza - Lecturer**

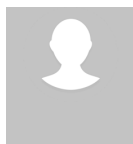
MD, MA
Director of Orthopaedic Trauma Research
Assistant Professor
Harborview Medical Center
Seattle, WA

**Forsh, David - Lecturer**

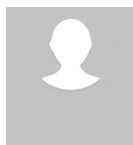
MD
Assistant Professor
Chief of Orthopaedic Trauma
Department of Orthopaedic Surgery
Mount Sinai Health System
New York, NY

**Gary, Joshua - Lecturer**

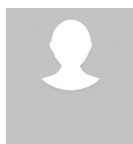
MD
Associate Professor
McGovern Medical School at UTHealth Houston
Houston, TX

**Githens, Michael - Lecturer**

MD, MS
Assistant Professor
Harborview Medical Center, University of Washington
SEATTLE, WA

**Hagen, Jennifer - Lecturer**

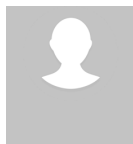
MD
Assistant Professor
Department of Orthopedics
University of Florida
Gainesville, FL

**Kleweno, Conor - Lecturer**

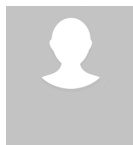
MD
Assistant Professor
Orthopaedics and Sports Medicine
University of Washington
Harborview Medical Center
Seattle, WA

**Krieg, James - Lecturer**

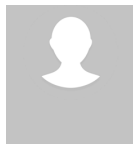
MD
Professor and Director of Orthopaedic Trauma
Rothman Institute at Jefferson University
Philadelphia, PA

**Large, Thomas - Lecturer**

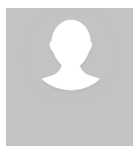
MD
Orthopaedic Trauma Services
Mission Hospital
Asheville, NC

**Mallon, Zachary - Lecturer**

MD
Orthopaedic Trauma Surgeon
Kaiser Permanente Napa/Solano
Napa, CA

**Moghadamian, Eric - Lecturer**

MD
Associate Professor
Medical Director, Orthopaedic Trauma Service
Department of Orthopaedics and Sports Medicine
University of Kentucky
Lexington, KY

**Mormino, Matthew - Lecturer**

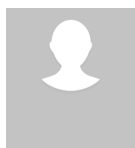
MD
Professor
Department of Orthopaedic Surgery
University of Nebraska Medical Center
Omaha, NE

**Munz, John - Lecturer**

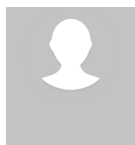
MD
Assistant Professor
Department of Orthopaedic Surgery
Orthopedic Trauma
UT Health
McGovern Medical School
Houston, TX

**Prasarn, Mark - Lecturer**

MD
Associate Professor
Department of Orthopaedics and Rehabilitation
Chief Division of Spine Surgery
Divisions of Spine and Trauma
University of Texas
Houston, TX

**Roberts, Zachary - Lecturer**

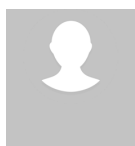
MD
Kansas City, MO

**Rothberg, David - Lecturer**

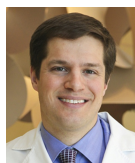
MD
Assistant Professor
University of Utah
Department of Orthopaedics
Salt Lake City, UT

**Routt, Milton - Lecturer**

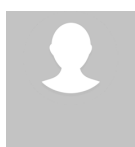
MD
Professor
Dr. Andrew R. Burgess Distinguished Chair
University of Texas Health McGovern Medical School at Houston
Department of Orthopaedic Surgery
Memorial Hermann - Texas Medical Center
Houston, TX

**Sassoon, Adam - Lecturer**

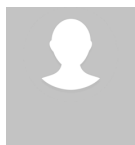
MD, MS (Ortho)
Assistant Professor
Department of Orthopaedics and Sports Medicine
University of Washington
Seattle, WA

**Scolaro, John - Lecturer**

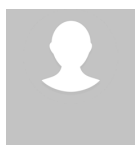
MD, MA
Assistant Clinical Professor
Department of Orthopaedic Surgery
University of California, Irvine
Orange, CA

**Unno, Florence - Lecturer**

MD, MASc
Hansjörg Wyss Hip and Pelvis Center
Swedish Medical Group
Seattle, WA

**Vallier, Heather - Lecturer**

MD
Professor
Case Western Reserve University
Department of Orthopaedic Surgery
MetroHealth Medical Center
Cleveland, OH

**Zelle, Boris - Lecturer**

MD
Associate Professor
UT Health San Antonio
San Antonio, TX

Agenda

Day1

Thursday, August 17, 2017 - 07:45 - 18:55 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
07:45 - 08:00	Introduction / Welcome		Eastman, J Taitzman, L	
08:00 - 08:20	AIRS PreTest		Taitzman, L	
08:20 - 09:20	MODULE 1: SOFT TISSUE	Munz, J		
08:20 - 08:35	History of Fracture Care and Evolution of Principles		Routt, M	
08:35 - 08:45	Bone: Fracture Classification - A Guide to Clinical Decision Making		Cross, W	
08:45 - 09:00	Soft Tissue Injury and Compartment Syndrome		Scolaro, J	
09:00 - 09:10	Open Fractures		Adams, M	
09:10 - 09:20	Questions / Answers and AIRS		Munz, J	
09:20 - 10:20	MODULE 2: STABILITY AND BONE HEALING	Cross, W		
09:20 - 09:35	Bone Healing		Gladden, P	
09:35 - 09:50	Spectrum of Stability		Achor, T	
09:50 - 10:05	Surgical Reduction Techniques: Respecting the Behavior of Bone		Camuso, M	
10:05 - 10:20	Questions / Answers and AIRS		Cross, W	
10:20 - 10:40	Coffee Break			
10:40 - 11:30	MODULE 3: PRINCIPLES - ABSOLUTE STABILITY	Achor, T		
10:40 - 10:50	Screw Design and Function		Bernstein, M	
10:50 - 11:00	Plate Design and Function		Munz, J	
11:00 - 11:10	Tension Band Principles		Rothberg, D	
11:10 - 11:30	Questions / Answers and AIRS		Achor, T	
11:30 - 12:15	Lunch			
12:15 - 13:55	PRACTICAL EXERCISE I: (Absolute Stability); A. Introduction to Implants; B. Lag Screw; C. Neutralization Plate; D. Buttress Plate	Bernstein, M Camuso, M		
13:55 - 14:05	Break			
14:05 - 15:45	PRACTICAL EXERCISE I: (Absolute Stability-Continued); E. Axial Compression with Plates; F. Oblique Fracture: Lag Through Plate; G. Olecranon Fixation	Bernstein, M Camuso, M		
15:45 - 16:05	Coffee Break / Travel to Lectures			
16:05 - 17:15	MODULE 4: PRINCIPLES - RELATIVE STABILITY	Krieg, J		
16:05 - 16:15	External Fixation Relative Stability		Roberts, Z	
16:15 - 16:30	Bridge Plating with Traditional Implants and Techniques		Moghadamian, E	
16:30 - 16:45	Locked Plating - Biology, Biomechanics, Clinical Applications		Vallier, H	
16:45 - 16:55	Intramedullary Techniques, Relative Stability		Bishop, J	
16:55 - 17:15	Questions / Answers and AIRS		Krieg, J	
17:15 - 17:25	Travel to Lab			
17:25 - 18:55	PRACTICAL EXERCISE II: (Relative Stability); A. External Fixation; B. Bridge Plating; C. Comparison of Locked and Unlocked Screws in Osteoporotic Bone	Hagen, J Moghadamian, E		

Day2

Friday, August 18, 2017 - 07:15 - 19:00 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
07:15 - 08:00	Daily Morning Huddle			
08:00 - 09:30	Discussion Group One: Review of Principles and Decision Making			
09:30 - 09:40	Travel to Lab			
09:40 - 11:40	PRACTICAL EXERCISE III: AO Skills Lab			
11:40 - 12:30	Lunch			
12:30 - 13:40	MODULE 5: DIAPHYSEAL MANAGEMENT	Bishop, J		
12:30 - 12:40	Radiation Safety		Krieg, J	
12:40 - 12:50	Femur		Hagen, J	
12:50 - 13:00	Tibia		Davis, J	
13:00 - 13:10	Humerus		Large, T	
13:10 - 13:20	Radius & Ulna		Rothberg, D	
13:20 - 13:40	Questions / Answers and AIRS		Bishop, J	
13:40 - 13:50	Travel to Breakouts			
13:50 - 14:40	Discussion in Small Group Roms: Review of Intramedullary Nailing			
14:40 - 14:50	Travel to Lab			
14:50 - 16:00	PRACTICAL EXERCISE IV: (Intramedullary Nailing); A. Femur; B. Tibia	Davies, J Mormino, M		
16:00 - 16:10	Travel to Lectures			

16:10 - 16:25	Unique Learning Resources of the AO Foundation	Stephen, D
16:25 - 16:40	Preoperative Planning	Forsh, D
16:40 - 17:50	PRACTICAL EXERCISE V: Preoperative Planning - Forearm Model	Forsh, D
17:50 - 18:00	Filler Time	
18:00 - 19:00	Reception	

Day3

Saturday, August 19, 2017 - 07:15 - 18:45 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
07:15 - 08:00	Daily Morning Huddle			
08:00 - 09:30	Discussion Group Two: Diaphyseal Fractures			
09:30 - 09:40	Travel to Lab			
09:40 - 10:50	PRACTICAL EXERCISE VI: Fixation of Radius / Ulna	Forsh, D		
10:50 - 11:00	Coffee Break / Travel to Lectures			
11:00 - 12:00	MODULE 6: LOWER EXTREMITY - ARTICULAR FRACTURES	Scolaro, J		
11:00 - 11:10	Principles of Management - Articular		Prasarn, M	
11:10 - 11:25	Ankle Fractures		Gary, J	
11:25 - 11:35	Introduction to Pilon Fractures		Benirschke, S	
11:35 - 11:45	Introduction to Tibial Plateau		Kleweno, C	
11:45 - 12:00	Questions / Answers and AIRS		Scolaro, J	
12:00 - 12:45	Lunch			
12:45 - 13:50	PRACTICAL EXERCISE VII: Ankle Fractures - Type C Malleolar	Githens, M Prasarn, M		
13:50 - 14:00	Travel to Lectures			
14:00 - 14:50	MODULE 6 (continued): LOWER EXTREMITY - ARTICULAR FRACTURES	Camuso, M		
14:00 - 14:10	Distal Femur		Hubbard, D	
14:10 - 14:20	Extracapsular Hip Fracture		Adams, M	
14:20 - 14:30	Intracapsular Hip Fracture		Sassoon, A	
14:30 - 14:40	Olecranon and Patellar Fractures		Githens, M	
14:40 - 14:50	Questions / Answers and AIRS		Camuso, M	
14:50 - 15:00	Travel to Lab			
15:00 - 16:15	PRACTICAL EXERCISE VIII: Fixation of an Intertrochanteric Hip Fracture - Nail vs. Plate	Roberts, Z Sassoon, A		
16:15 - 16:25	Coffee Break / Travel to Lectures			
16:25 - 17:10	MODULE 7: UPPER EXTREMITY - ARTICULAR FRACTURES	Mormino, M		
16:25 - 16:35	Proximal Humerus		Zelle, B	
16:35 - 16:45	Distal Humerus		Davies, J	
16:45 - 16:55	Distal Radius		Volgas, D	
16:55 - 17:10	Questions / Answers and AIRS		Mormino, M	
17:10 - 18:45	MODULE 8: SPECIAL FRACTURE PROBLEMS	Routt, M		
17:10 - 17:25	Polytrauma		Gary, J	
17:25 - 17:35	Radiographic Evaluation and Classification of Pelvic Ring Disruptions		Routt, M	
17:35 - 17:45	Acute Management of Pelvic Ring Injuries		Firoozabadi, R	
17:45 - 17:55	Questions / Answers and AIRS		Routt, M	
17:55 - 18:45	AIRS PostTest		Eastman, J Taitzman, L	

Day4

Sunday, August 20, 2017 - 08:00 - 12:10 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
08:00 - 09:15	Discussion Group Three: Articular Fractures			
09:15 - 09:20	Travel to Lab			
09:20 - 10:50	PRACTICAL EXERCISE IX: (External Fixation); A. Pelvic Fracture; B. Spanning External Fixation	Kleweno, C Routt, M		
10:50 - 10:55	Travel to Lectures			
10:55 - 12:10	MODULE 8 (Continued): SPECIAL FRACTURE PROBLEMS	Gary, J		
10:55 - 11:10	Infection		Unno, F	
11:10 - 11:20	Nonunions		Mormino, M	
11:20 - 11:30	Malunions		Altman, G	
11:30 - 11:50	Violations of AO Principles: How Not To Do AO		Benirschke, S	
11:50 - 12:00	Questions / Answers and AIRS		Gary, J	
12:00 - 12:10	Closing Comments (Introduce Principles II) / End of Course AIRS Questions		Eastman, J Taitzman, L	

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