



The American Academy of Foot & Ankle Osteosynthesis

presents

***ADVANCED TECHNIQUES IN SKELETAL FIXATION
OF THE FOOT AND ANKLE***

**Goodlett Farms Innovation Centre
Memphis, Tennessee**

SCIENTIFIC CHAIRMEN

**John M. Schuberth, DPM
San Francisco, California**

American Academy of Foot and Ankle Osteosynthesis

*. . . dedicated to the training of podiatric residents
in the techniques and skills of skeletal fixation
trauma and reconstructive surgery of the foot and ankle*

Mission Statement

The mission of the American Academy of Foot and Ankle Osteosynthesis (AAFAO) is to provide comprehensive education in the training of podiatric residents in the techniques and skills of skeletal fixation trauma and reconstructive surgery of the foot and ankle.

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

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

Advanced Course Description

This course is designed to acquaint the surgeon with advances in operative treatment of fractures and deformities in the lower extremity/foot and ankle. The objectives of the course are to focus on all aspects of diagnosis, treatment and subsequent management of these injuries. The most current and innovative principles and techniques of stable internal fixation and their applications will be covered.

Advanced Course Prerequisite

Course attendees must have previously attended AO North America's Basic Podiatric Course or AAFAO's Comprehensive Course of Internal Fixation for Reconstructive Surgery and Trauma of the Foot & Ankle.

Advanced Course Lerner Objectives

Upon completion of the course, participants should be able to:

- Apply the principles of internal fixation to the foot and ankle
- Identify the problems, complications and intraoperative difficulties that can result from internal fixation
- Implement principles and techniques for complex repair, revision and reconstructive surgery to the lower extremity
- Avoid complications and improve outcomes through preoperative planning
- Apply the psychomotor skills developed in the practical exercises in podiatric practice

Continuing Education Contact Hours

This activity has been planned and implemented in accordance with the standards, requirements, and guidelines for approval of sponsors of continuing education in podiatric medicine through an affiliation of The Podiatry Institute and the American Academy of Foot and Ankle Osteosynthesis. The Podiatry Institute is approved by the Council on Podiatric Medical Education as a sponsor of continuing education in podiatric medicine. The Podiatry Institute has approved this activity for a maximum of **20 continuing education contact hours**.

This course is supported by an unrestricted educational grant from Smith & Nephew

Thursday

ALL ADVANCED COURSE LECTURES TO BE HELD IN THE 2nd FLOOR LECTURE HALL

7:25 7:30 *Welcome and Introduction*

7:30 9:00 ADVANCED CONTEMPORARY CONCEPTS OF INTERNAL FIXATION

7:30 7:40 Welcome and Introduction
7:40 8:05 Biomechanics of Bone
8:05 8:30 Biologic Modulation of Bone Healing
8:30 9:00 Minimally Invasive Fracture Reduction/Percutaneous Plating

9:00 9:20 *Coffee Break and Return to Lectures*

9:20 10:20 ADVANCED CONTEMPORARY CONCEPTS OF INTERNAL FIXATION

9:20 9:40 Osteopenic/Diabetic Ankle Fractures
9:40 10:00 Comminuted Fibula
10:00 10:20 Fixation of the Syndesmotom Injury
10:20 11:45 COMPLEX ISSUES IN ACUTE TRAUMA
10:20 10:40 Malunited Ankle Fractures (Fibular Lengthening)
10:40 11:00 Management of Distal Lateral Tibial Osteonecrosis
11:00 11:25 Polytrauma
11:25 11:45 High Energy Soft Tissue Injuries/Open Fractures

11:45 12:30 *Lunch and Return to Lectures*

1:55 3:00 EXTERNAL FIXATION/BONE DEFECTS

12:30 12:55 Mechanical Properties / Nomenclature
12:55 1:15 Bone Transport/Callus Distraction
1:15 1:35 Segmental Bone Loss

3:00 3:50 MISCELLANEOUS TOPICS OF INTEREST

1:35 1:55 Treatment of Osteomyelitis
1:55 2:15 Pediatric Fractures

2:15 2:30 *Coffee Break and Travel to Clinical Conferences*

2:30 4:15 CLINICAL CASE CONFERENCES

Rooms: VSP A, VSP B, VSP C, VSP D
Check your name badge for your assigned room

Friday

ALL ADVANCED COURSE LECTURES TO BE HELD IN THE 2nd FLOOR LECTURE HALL

7:25 7:30 *Good Morning and Instructions*

7:30 8:55 PRACTICAL EXERCISE I: COMPLEX REPAIR TECHNIQUES/EXTERNAL FIXATION

- 7:30 7:55 A. Fibular Lengthening
7:55 8:05 B. Live Demonstration
8:05 8:30 C. Small (Delta Frame Construction on First Metatarsal)
8:30 8:55 D. Large Spanning Delta Frame

8:55 9:10 *Coffee Break and Return to Lab*

9:10 10:25 PRACTICAL EXERCISE II: ANKLE FUSION TECHNIQUES

- 9:10 9:50 A. Ankle Fusion with Bilateral Frame
9:50 10:25 B. Ankle Fusion with Anterior/Posterior Plate
10:25 11:05 PRACTICAL EXERCISE III: ADVANCED TRAUMA TECHNIQUES
10:25 10:50 A. Lis Franc (Screw Orientation, Cuneiform Diastases)
10:50 11:05 D. Talar Fractures

11:05 11:50 *Lunch and Travel to Lectures*

11:50 1:50 COMPLEX PEDAL/ANKLE TRAUMA: COMPLEX/CHALLENGING FOOT INJURIES

- 11:50 12:10 Lis Franc Injuries
12:10 12:35 Talar Fractures: Acute Management of Talar Neck, Body and Process Fractures
12:35 12:55 Avascular Necrosis of the Talus
12:55 1:15 Calcaneal Fractures
1:15 1:30 Complex Tarsal Fractures
1:30 1:50 Pilon Fractures

1:50 2:05 *Coffee Break and Return to Lectures*

2:05 3:25 REVISIONAL AND RECONSTRUCTIVE SURGERY OF THE LOWER EXTREMITY

- 2:05 2:25 Neglected Calcaneal Fractures
2:25 2:45 Reconstruction of Neglected Lis-Franc
2:45 3:05 Revision of the Malaligned Triple Arthrodesis
3:05 3:25 Revision of Malaligned Ankle Fusion

3:25 3:35 *Travel to Clinical Case Conferences*

3:35 5:20 CLINICAL CASE CONFERENCES

Rooms: VSP A, VSP B, VSP C, VSP D
Check your name badge for your assigned room

Saturday

ALL ADVANCED COURSE LECTURES TO BE HELD IN THE 2nd FLOOR LECTURE HALL

7:25 7:30 *Good Morning and Instructions*

7:30 9:30	STRATEGIES FOR ANKLE ARTHRITIS
7:30 7:50	Ankle Arthritis / Fusion
7:50 8:10	Distal Tibial Osteotomies / Pedal Realignment Procedures
8:10 8:30	Distraction
8:30 8:50	Ankle Replacement
8:50 9:10	Take Down of Ankle Fusions
9:10 9:30	Cartilage Replacement Techniques

9:30 9:45 *Coffee Break and Return to Lab*

9:45 12:40	PRACTICAL EXERCISE III: ADVANCED TRAUMA TECHNIQUES
9:45 10:30	B. Calcaneal Fractures
10:30 10:50	C. Calcaneal Malunions (Distraction Fusion with Graft)
10:50 11:40	E. Pilon Fractures
11:40 12:05	F. Triple Arthrodesis Revision
12:05 12:40	G. Supramalleolar Osteotomy

12:40 *Lunch and Go Home*