ACCREDITATION
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council of Continuing Medical Education through the joint sponsorship of the American Academy of Orthopaedic Surgeons and the American Shoulder and Elbow Society. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

CME CREDIT
The American Academy of Orthopaedic Surgeons designates this educational activity for a maximum of 8.5 category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those credits that he/she actually spent in the activity.

7:30-7:35 am  Welcome and Opening Remarks
David M Dines, MD
Immediate Past-President, American Shoulder & Elbow Surgeons

SESSION I: ROTATOR CUFF
Moderator: Gary M Gartsman, MD

Paper 1  7:35-7:40 am  Arthroscopic Rotator Cuff Repair: The Effect of Depth of Suture Passage on Three-Dimensional Repair Site Surface Area and Load to Failure Using Single-Row Anchor Fixation
Allen Deutsch, MD

Paper 2  7:40-7:45 am  Repair Integrity and Functional Outcome after Arthroscopic Double-row Rotator Cuff Repair: A Prospective Outcome Study
Hiroyuki Sugaya, MD, Kazuhiko Maeda, MD, Keisuke Matsuki, MD, Joji Morishi, MD

Paper 3  7:45-7:50 am  Arthroscopic Rotator Cuff Repair. Correlations of Clinical Results with Integrity of the Tendon
Pierre-Henri Flurin, MD, Philippe Landreau, MD, Pascal Boileau, MD, Laurent LaFosse, MD, Stephane Guillo, MD, Jean-Francois Kempf, MD, Bruno Toussaint, MD, Olivier Courage, MD, Christophe Charousset, MD

7:50-8:00 am  HOW-TO VIDEO
Capsular Release for Stiff Shoulder Following Cuff Repair
Mark Lazarus, MD

Paper 4  8:00-8:05 am  Footprint Contact Biomechanics for a New Arthroscopic Transossesous-Equivalent Rotator Cuff Repair Technique Compared to a Double-Row Technique Arthroscopic Rotator Cuff Repair. Correlations of clinical results with integrity of the tendon
Maxwell C Park, MD, Neal S ElAttrache, MD, James E Tibone, MD, Christopher S Ahmad, MD, Bong J Jun, MS, Thay Q Lee, PhD

Paper 5  8:05-8:10 am  Porcine Small Intestinal Submucosa (Restore Orthobiologic Implant) Augmentation of Chronic Two-Tendon Rotator Cuff Tears Treated with Open Surgical Repair. A Randomized Controlled Trial
Joseph Iannotti, MD, PhD, Michael Codsi, MD, Young Kwon, MD, PhD, Kathe Derwin, PhD, John Brems, MD

8:10-8:22 am  Discussion

SESSION II: ELBOW I
Moderator: Ken Yamaguchi, MD

Paper 6  8:22-8:27 am  Intra-Articular Distal Humerus Fractures: 12-30 Years Follow-Up
Joppe P van Duijn, BS, Job N Doornberg, MS, Peter Kloen, MD, PhD, Ernst L F B Raaymakers, MD, PhD, Durk S Linzel, BS, Rene K Marti, MD, PhD

Paper 7  8:27-8:32 am  Long Term Outcome of Surgically Treated Complex Olecranon Fractures
Anneluuk C Lindenhovius, BS, Job N Doornberg, MS, Chaitanya S Mudgal, MD, Peter Kloen, MD, PhD, Rene R K Marti, MD, PhD, Ernst L F B Raaymakers, MD, PhD, David C Ring, MD

Paper 8  8:32-8:37 am  Clinical Results of Anterior Fixation of Humeral Capitellar Fractures
Mark A Mighell, MD, Scott Schneider, MD, Mark A Frankie, MD, Eddie Eckles, MD

8:37-8:44 am  Discussion

8:44-8:54 am  HOW-TO VIDEO
Radial Head Fracture
John Itamura, MD

Presenters are listed in bold.
SESSION III: ARTHROPLASTY

Moderator: Tom R Norris, MD

Paper 9
8:54-8:59 am
Minimum 5 Year Follow-up of Humeral Head Replacement for the Treatment of Osteoarthritis
Damian M Rispoli, MD, John W Sperling, MD, George S Athwall, MD, Robert H Cofield, MD

Paper 10
8:59-9:04 am
Biomechanical Evaluation of Subscapularis Repair Used During Shoulder Arthroplasty
Christopher S. Ahmad, MD, David W Wing, BS, Thomas R Gardner, MCE, William N Levine, MD, Louis U Bigliani, MD

Paper 11
9:04-9:09 am
Coronal Plane Tilt Angle Affects Risk of Catastrophic Failure in Patients Treated With a Reverse Shoulder Prosthesis
Mark A Frankle, MD, Steven Segal, MD, Derek R Pupello, BS, Sergio Gutierrez, MSc, Michael Griewe, MD, Mark A Mighell, MD, Rami Hart, BS

Paper 12
9:09-9:14 am
Deep-Vein Thrombosis Following Reconstructive Shoulder Arthroplasty: A Prospective Observational Study
Andrew A Willis, MD, Stephen Fealy, MD, Russell F Warren, MD, Ronald S Adler, PhD, MD, Edward V Craig, MD, Frank A Cordasco, MD, Stephen Lyman, PhD

Paper 13
9:14-9:19 am
Symptomatic Glenoid Loosening Complicating Total Shoulder Arthroplasty
Joshua S Dines, MD, James O’Holleran, MD, Stephen Fealy, MD, Russell F Warren, MD, David M Dines, MD

Paper 14
9:19-9:24 am
Severe Glenohumeral Chondrolysis Following Shoulder Arthroscopy: A Series of 6 Cases Treated with Hemiarthroplasty
Mitchell W Larsen, MD, Laurence Higgins, MD, Carl J Basamania, MD
9:24-9:36 am
Discussion

9:56-10:06 am
Complications: Avoidance and Management
Christian Gerber, MD

10:06-10:16 am
HOW-TO-VIDEO
Superior Approach for the Reverse Shoulder
Anders Ecklund, MD

10:16-10:26 am
Discussion

10:26-10:46 am
BREAK

SESSION IV: INSTABILITY

Moderator: Frederick A Matsen, III MD

Paper 15
10:46-10:51 am
Longterm Prognosis of First Time Anterior Shoulder Dislocation in the Young. 229 Shoulders Prospectively Followed for 25 years.
Lennart Hovelius, MD, Ulf Skoglund, MD, Bjorn Sandstrom, MD, Ulf Sannerby, MD, Bengt Goran Augustini, MD, Hans Fredin, MD, Bo Tillnader, MD, Lars Krantz, MD, Modolv Saebo, MD

Paper 16
10:51-10:56 am
Postoperative Subscapularis Insufficiency after Primary and Revision Open Shoulder Stabilization
Markus Scheibel, MD, Alexander Tsynman, MD, Petra Magosch, MD, Ralf J Schroder, MD, Ariane Gerber-Popp, MD, Peter Habermeyer, MD

Paper 17
10:56-11:01 am
In-vivo Glenohumeral Ligament Function
Ramprasad Papannagari, MS, Thomas J Gill, MD, Patrick J Boyer, MD, Susan L Stewart, MD, Jon JP Warner, MD, Guoan Li, MD

11:01-11:09 am
Discussion

SYMPOSIUM II: MID SHAFT CLAVICLE FRACTURES

Moderator: Charles A Rockwood, Jr, MD

Panel:

11:09-11:19 am
Conservative Treatment of Clavicle Fractures
Edward V Craig, MD

11:19-11:29 am
Intramedullary Pin Fixation
Carl J Basamania, MD

11:29-11:39 am
Plate Fixation of Clavicle Fractures
Michael D McKee, MD

11:39-11:49 am
Discussion

Presenters are listed in bold.
SESSION V: ACROMIO-CLAVICULAR JOINT

Moderator: Gerald R Williams Jr, MD

Paper 18
11:49-11:54 am
Acromioclavicular Joint Arthroscopic Reconstruction: 2 year follow up
Andreas B Imhoff, MD, Thomas Tischer, MD

Paper 19
11:54-11:59 am
AC Joint Reconstruction with CA Ligament Transfer Using the Docking Technique
Ivan H Pacheco, MD, Reuben Gobezie, MD, Nicolaos Tsankilides, MD, Bryan Krastins, MD, Peter J Millett, MD, MSc

Paper 20
11:59-12:04 am
Arthroscopic Distal Clavicle Resection: A Biomechanical Analysis in a Cadaver Model
Sara L Edwards, MD, Nicole A Wilson, MS, Steve Flores, MD, Jason Koh, MD, Li-Qun Zhang, PhD

12:04-12:12 pm Discussion
12:12-1:12 pm Lunch
1:12-1:17 pm Neer Award Presentation

SYMPOSIUM III: NERVE

Moderator: Hill Hastings, II, MD

Panel:
Peter Weiss, MD
Robert N Hotchkiss, MD
Mark S Cohen, MD

Discussion

SESSION VI: ELBOW II

Moderator: Neal S ElAttrache, MD

Paper 21
1:57-2:02 pm Split Anconeus Fascia Transfer for Reconstruction of the Elbow Lateral Collateral Ligament Complex: Anatomic and Biomechanical Testing
Anand M Murthi, MD, Caroline M Chebli, MD

Paper 22
2:02-2:07 pm Comparison of Elbow Contracture Release in Patients with and without Heterotopic Ossification
Job N Doornberg, MS, Durk S Linzel, BS, Joppe P van Duijn, BS, Jesse B Jupiter, MD, David C Ring, MD

Paper 23
2:07-2:12 pm Varus Posteromedial Rotational Elbow Injuries
David C Ring, MD, Job N Doornberg, MD

2:12-2:19 pm Discussion
2:19-2:29 pm HOW-TO VIDEO
Single Incision Biceps
Jeffrey Hughes, MD

SESSION VII: TRAUMA

Moderator: David N Collins, MD

Paper 24
2:29-2:34 pm Early Complications of Operatively Treated Proximal Humerus Fractures
Adam M Smith, MD, Rodrigo M Mardones, MD, John W Sperling, MD, Robert H Cofield, MD

Paper 25
2:34-2:39 pm Biomechanical Assessment of Inferior Tuberosity Placement During Hemiarthroplasty for 4-part Proximal Humerus Fractures.
G. Russell Huffman, MD, John M Itamura, MD, Michelle H McGarry, MS, James E Tibone, MD, Long Duong, BS, Jeremy Gilliland, BS, Thay Q Lee, PhD

2:39-2:45 pm Discussion
2:45-3:00 pm BREAK

Please proceed to McCormick Place Convention Center Lakeside E354 B for the joint session of ASES and AOSSM

Presenters are listed in bold.
3:00 – 3:02pm  **WELCOME**

W Z Burkhead Jr MD, 2006 ASES Program Chair  
(Dallas, TX)  
Mark E. Steiner MD, 2006 AOSSM Program Chair  
(Boston, MA)

3:03 – 3:15pm  **CURRENT CONCEPTS: Management of the In-Season Collision Athlete with Shoulder Instability**

Moderator: Robert T Burks MD (Salt Lake City, UT)  
Anthony A Romeo MD (Chicago, IL)  
Robert A Arciero MD (Farmington, CT)

**Objectives:**

Upon completion of this Current Concepts, learners will be able to:

- Identify which episodes of instability require surgery in the collision athlete
- Understand the role of immobilization for episodes of instability
- Understand the role of bracing to treat shoulder instability
- Understand the indications for return to play after surgical reconstruction

3:16 – 3:34pm  **SPOTLIGHT ON SURGICAL TECHNIQUE: How I Customize Shoulder Reconstruction Based on the Athlete’s Sport and Position**

Moderator: Mark E Steiner MD (Boston, MA)

**Anterior Instability**
James R Andrews MD (Birmingham, AL)

**Posterior Instability**
Russell F Warren MD (New York, NY)

**Objectives:**

Upon completion of this Spotlight on Surgical Technique, learners will be able to:

- Understand the potential variations in reconstruction technique based on an athlete’s sport and position
- Identify the indications for alteration in surgical technique in shoulder reconstruction for athletes

3:35 – 3:53pm  **DEBATE: Anterior Shoulder Instability Reconstruction in the Contact Athlete – Bone Graft and/or Soft Tissue Augmentation**

Arthroscopic Reconstruction is All That is Required  
Felix H Savoie III MD (Jackson, MS)

Why I Use Bone Grafts and Soft Tissue Graft Augmentation  
Stephen S Burkhart MD (San Antonio, TX)

**Objectives:**

Upon completion of this Debate, learners will be able to:

- Identify the indications for soft tissue or bone graft augmentation in shoulder reconstruction
- Understand the techniques for augmentation in shoulder reconstruction

3:54 – 4:04pm  **Question & Answer Session**

3:04 – 4:21pm  **Arthroscopic Biceps Tenodesis**

Moderator: W Z Burkhead Jr MD (Dallas, TX)

**The Biceps Tenodesis Screw Technique**
Pascal Boileau MD (Nice, France)

**Arthroscopic Biceps Fixation Techniques**
Lonnie E Paulos MD (Salt Lake City, UT)

**Arthroscopic Coracoid Fixation Technique**
Stephen J O’Brien MD, MBA (New York, NY)

**Objectives:**

Upon completion of this Session, learners should be able to:

- Understand surgical techniques for biceps tenodesis
- Identify the indications for different methods of biceps tenodesis

4:22 – 4:37pm  **CASE PRESENTATIONS: Is This a SLAP Tear and Does It Need Repair?**

Moderator: Jon J.P. Warner MD (Boston, MA)  
Neal S ElAttrache MD (Los Angeles, CA)  
Craig D Morgan MD (Wilmington, DE)  
Stephen J Snyder MD (Van Nuys, CA)

**Objectives:**

Upon completion of these Case Presentations, learners should be able to:

- Identify the arthroscopic appearance of different types of SLAP tears
- Understand the indications for repair based on a patient’s history, physical examination, and pathologic anatomy

4:38 – 4:50pm  **Question & Answer Session**
4:51 – 5:01pm  POINT/COUNTERPOINT: Are We Overtreating Elbow Instability?  
Moderator: Neal S ElAttrache MD (Los Angeles, CA)  

Pro  
William A Grana MD, MPH (Tucson, AZ)  

Con  
David W Altchek MD (New York, NY)  

Objectives:  
Upon completion of this Point/Counterpoint, learners should be able to:  
• Understand the increased utilization of medial elbow stabilization surgery 
• Identify indications for medial elbow stabilization  

5:02 – 5:08pm  SPOTLIGHT ON SURGICAL TECHNIQUE:  
Optimum Suture Placement for Rotator Cuff Repairs  
Moderator: Christopher Jobe MD (Linda Loma, CA)  
Ronald E Glousman MD (Los Angeles, CA)  

Objectives:  
Upon completion of this Spotlight on Surgical Technique, learners should be able to:  
• Understand new methods of anchor and suture placement to recreate the footprint of the rotator cuff and increase repair strength  
• Identify the indications for different methods of suture and anchor placement in rotator cuff repair  

5:09 – 5:15pm  UPDATE: Biomechanics and Muscle Activity During the Golf Swing  
Marilyn Pink PhD, PT, MBA (Centinella, CA)  

Objectives:  
Upon completion of this Update, learners should be able to:  
• Understand the methods for studying the biomechanics of the golf swing  
• Understand the biomechanics and muscle activation patterns utilized in a golf swing  

5:16 – 5:30pm  CURRENT CONCEPTS: The Upper Extremity in Golf and How to Improve Your Score  
William J Mallon MD (Durham, NC)  

Objectives:  
Upon completion of this Current Concepts, learners should be able to:  
• Understand alterations in the golf swing related to muscle activation patterns  
• Identify strategies for changes in the golf swing to improve performance  

5:30pm  CONFERENCE ADJOURNS