JANUARY 10-12
2019
THE CANYONS GRAND SUMMIT
PARK CITY, UTAH

Course Chairmen
George S. Athwal, MD
Jay D. Keener, MD
Robert Z. Tashjian, MD

Scientific Committee
Jonathan C. Levy, MD
Howard Routman, DO
Joaquin Sanchez-Sotele, MD

Faculty
Joseph Abboud, MD
April D. Armstrong, MD
Pascal Boileau, MD
Robert T. Burks, MD
Peter Chalmers, MD
David M. Dines, MD
Bassem T. Elhassan, MD
Kenneth J. Faber, MD
Mark A. Frankle, MD
Charles L. Getz, MD
Lawrence V. Gulotta, MD
Alexandre Lädermann, MD
Laurent Lafosse, MD
William N. Levine, MD
Gregory P. Nicholson, MD
Brad Parsons, MD
Matthew L. Ramsey, MD
Eric Ricchetti, MD
Matthew Saltzman, MD
Ludwig Seebauer, MD
John W. Sperling, MD
Thomas W. Throckmorton, MD
Philippe Valenti, MD
Gilles Walch, MD
Jon “JP” Warner, MD
Jointly Sponsored By
The University of Utah Department of Orthopaedics and Advanced Shoulder ArthroPlasty Seminars

www.asapmeeting.org
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**ASAP WIFI**

**SSID:** ASAP  
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Welcome,

The Advanced Shoulder ArthroPlasty (ASAP) Meeting warmly welcomes all participants to the inaugural meeting in beautiful Park City, Utah!

Our goal and mission is to be the premier international shoulder arthroplasty course educating surgeons on all aspects of shoulder arthroplasty from simple to complex. We are emphasizing practicality – surgeons learning not only the theory of shoulder arthroplasty but actual surgical techniques and practical treatment algorithms through video instruction, live surgery, surgical and computer planning workshops, case presentations and faculty discussions. We will present cutting-edge information while still keeping the focus on helping to solve practical clinical problems for the shoulder arthroplasty surgeon over 3-days of world-class education.

We would like to thank all attendees for your interest and support of this outstanding meeting. We are confident you will find the ASAP Meeting a worthwhile learning experience that will enhance your practice and patient care. We encourage you to take advantage of the many amenities offered in Park City that will add to your enjoyment. Please let us know if we may be of assistance.

Sincerely,

Course Chairman
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ASAP SCIENTIFIC COMMITTEE

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Associate Attending Orthopedic Surgeon at Hospital for Special Surgery, specializing in shoulder surgery and sports medicine. New York, NY

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Feinberg School of Medicine
Chicago, IL

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Professor of Orthopedics Mayo Clinic, focuses on Shoulder Disorders, Rochester, MN

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Specialist in reconstructive and upper body surgery. He is a founding member of La Chaîne de l’espoir, Paris France

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Arthroplasty and reconstructive shoulder surgeon. Past President of the European Society for Surgery of the Shoulder and Elbow (S.E.C.E.C.) Lyon, France

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Matthew Saltzman, MD
Orthopaedic Surgeon at Northwestern Memorial Hospital and Associate Professor Northwestern University
Feinberg School of Medicine
Chicago, IL

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Professor, Shoulder and Elbow Surgery, Residency Program Director University of Tennessee-Campbell Clinic Department of Orthopaedic Surgery, Affiliated with Baptist Memorial Hospital-Memphis and Methodist Hospitals of Memphis Germantown, TN
TARGET AUDIENCE
Orthopaedic surgeons, residents, fellows, surgical assistants and other healthcare professionals whose scope of practice includes arthroplasty of the shoulder.

STATEMENT OF NEED
Demand for shoulder arthroplasty is increasing. This demand has direct implications on the necessity for qualified surgeons to meet the needs of our populations. With increasing rates of primary surgeries and therefore revisions, the need for advanced training in complex shoulder arthroplasty is required to optimize patient outcomes and minimize complications. Overall, better shoulder arthroplasty education is needed to meet the needs of patients and surgeons alike.

Currently, the resources for shoulder arthroplasty education are limited. Training courses exist although most of these courses are devoted to all aspects of shoulder surgery with limited focus on arthroplasty and revision. Consequently, a gap in education exists – specifically advanced training in shoulder arthroplasty.

ACCREDITATION
The University of Utah School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA CREDIT
The University of Utah School of Medicine designates this live activity for a maximum of 24 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

NONDISCRIMINATION AND DISABILITY ACCOMMODATION STATEMENT:
The University of Utah does not exclude, deny benefits to or otherwise discriminate against any person on the basis of race, color, national origin, ethnicity, sex, disability, age, veteran’s status, religion, gender identity, gender expression, genetic information, or sexual orientation in admission to or participation in its programs and activities. Reasonable accommodations will be provided to qualified individuals with disabilities upon request, with reasonable notice. Requests for accommodations or inquiries or complaints about University nondiscrimination and disability/access policies may be directed to the Director, OEO/AA, Title IX/Section 504/ADA Coordinator, 201 S President’s Circle, RM 135, Salt Lake City, UT 84112, 801-581-8365 (Voice/TTY), 801-585-5746 (Fax).

DISCLAIMER FOR ALL PROGRAMS
The methods, techniques and procedures demonstrated and the views and opinions expressed by the speakers, presenters and faculty are their own, and do not necessarily represent those of ASAP, nor does presentation on the program represent or constitute endorsement of promotion by ASAP. The information provided in this CME activity is for continuing medical education purposes only and is not meant to substitute for the independent medical judgment of a health care provider relative to the diagnostic, management, and treatment options of a specific patient’s medical condition.

SPEAKER AND PLANNING COMMITTEE DISCLOSURE SUMMARY:
The University Of Utah School Of Medicine Continuing Medical Education Office meets the ACCME expectations regarding the identification and resolution of conflicts of interest that arise from financial relationships with commercial interests.

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Everyone in control of content, including all speakers and planners are expected to disclose any relevant financial relationships in any amount within the past 12 months. Speakers are also expected to openly disclose intent to discuss any off-label, experimental, or investigational use of drugs, devices, or equipment in their presentations.

No one in The University of Utah Continuing Medical Education Office in control of content for the course has any relevant financial relationship with commercial products or services discussed during this conference.

How to claim your CME credit: http://goo.gl/nrJKrN
CME Activity code: 47783
ACCOMMODATIONS AND HOTEL CHECK-IN
The ASAP meeting will be held at the Grand Summit Hotel. We have discounted room blocks in the Grand Summit, Sundial and Silverado Lodges. Our group code is: CC5ASAP. Please make your reservations online at: https://asapmeeting.org/accommodations or call 888-416-6195.

BREAKFAST/BREAKS/LUNCH
All food and beverages will be served in the Kokopelli Parlor III and White Pine Ballrooms. Breakfast and Lunch will be ½ hour before morning and afternoon sessions. Food functions are for course participants only. We regret that families and guests are not permitted in these areas, except for the Exhibitor’s Reception on Thursday night.

COURSE REGISTRATION – BALLROOM LOBBY REGISTRATION DESK
Registration will begin on Wednesday, January 9th from 4-7:00pm, in the Kokopelli Ballroom Lobby at the Grand Summit Hotel and each morning.

DRESS
The dress code for this meeting is casual. Please dress comfortably for the meeting.

GENERAL SESSION – KOKOPELLI BALLROOM
The course will begin at 7am Thursday morning January 10th in the Kokopelli Ballroom preceded by breakfast in the Kokopelli Parlor III and White Pine Ballrooms and will end Saturday, January 12 at 7:30pm.

GROUND TRANSPORTATION
The Grand Summit Hotel is 36 miles from the Salt Lake City International Airport. Canyon Transportation is the recommended ground transportation service to/from the airport. The ASAP Group will receive a 10% discount. Reservations can be made online or call 801-255-1841. Group code: ASAP2019. http://canyontransport.hudsonltd.net/res?USERIDENTRY=ASAP2019&LOGON=GO

REGISTRATION REFUNDS & CANCELLATIONS
Cancellations received in writing prior to Nov 15, 2018 will be subject to a US $100 processing fee. Refunds will NOT be granted after Nov 15, 2018. Refunds will NOT be given for no-shows after the conference.

SKI AND SNOWBOARD RENTALS WITH 20% DISCOUNT
Canyon Mountain Rentals are giving ASAP attendees (and guests) a 20% discount on ski equipment if you reserve in advance online. If you do not reserve in advance, the discount will only be 5%. https://www.rentskis.com/#!/groups/asapmeeting. Exclusive to ASAP guests is complimentary overnight ski & snowboard storage so there’s no need to carry your skis to/from the mountain each day. Call with questions: 888-427-3393. Be sure to mention you are with the ASAP meeting group.

VENUE
The course location is at the Grand Summit Hotel, 4000 Canyons Resort Drive, Park City, UT, 84098, 888-226-9667. Visit: www.parkcitymountain.com or www.asapmeeting.org for more details.

We look forward to seeing you and hope you will find your stay both educational and enjoyable. If you have any questions, please contact Sue Duncan, at 801/560-2446 or sue.duncan@hsc.utah.edu.
ASAP PROGRAM

6:00p - 8:00p  WEDNESDAY - Wright Medical Sponsored Workshop (Non-CME)
- Kokopelli Grand Ballroom
  THINKING IN 3D
  Black Diamond Case Debate
  Gilles Walch, MD, Pascal Boileau, MD, John “JP” Warner, MD, Alexandre Lädermann, MD and Christopher Chuinard, MD

THURSDAY - ANATOMIC SHOULDER ARTHROPLASTY
Kokopelli Grand Ballroom, Parlors I and II

6:30 - 7:00a  Breakfast - Kokopelli Parlor III and White Pine Ballroom

7:00 - 7:15a  Welcome and Introduction of Faculty  Athwal, Keener, Tashjian

7:15 - 7:22a  The ABC’s of the Walch Classification  Walch

7:22 - 7:32a  How I use x-rays, CT +/- MRI for preoperative TSA planning  Warner

7:32 - 7:42a  Making sense of all our measures-inclination, version, subluxation, reaming depth & implant seating  Tashjian

7:42 - 7:52a  Pre-operative planning: Why you have to do this  Levy

7:52 - 8:02a  Can computer assisted planning alone without PSI help?  Ricchetti

8:02 - 8:12a  When and how I use patient specific instrumentation  Boileau

8:12 - 8:22a  Navigation in shoulder arthroplasty: Is this the future…  Faber

8:22 - 8:32a  Operative positioning and patient preparation  Parsons

8:32 - 8:42a  Subscapularis management: Peel it, cut it, break it?  Athwal

8:42 - 8:47a  Video Presentation: Subscapularis: Peel it and repair it  Abboud

8:47 - 8:52a  Video Presentation: Subscapularis: Tenotomy and repair  Routman

8:52 - 8:57a  Video Presentation: Subscapularis: LTO and repair  Keener

8:57 - 9:07a  How to expose the humerus and cut the head: Freehand or guided assisted?  Sperling

9:07 - 9:30a  BREAK - Kokopelli Parlor III, Grand Ballroom Lobby and White Pine Ballroom

9:30 - 9:50a  CHAIRMEN’S GUEST LECTURE:
  What I have learned about anatomic arthroplasty over the last 25 years  Walch

9:50 - 10:50a  ANATOMIC TOTAL SHOULDER ARTHROPLASTY
  Surgeon: Gregory P. Nicholson, MD
  Live-Streamed from Midwest Orthopaedics at RUSH
  Moderators: Athwal, Levy, Ramsey

10:50 - 11:45a  PANEL DISCUSSION - Planning & PSI for Anatomic Shoulder Arthroplasty
  Moderator: Levy

11:45 - 3:00p  AFTERNOON BREAK

11:45 - 1:00p  Genesis Sponsored Workshop (Non-CME)  Painted Horse 1

3:00 - 3:30p  Lunch - Kokopelli Parlor III and White Pine Ballroom

3:30 - 3:40p  Humeral Implants: Standard, short or stemless?  Seebauer

3:40 - 3:50p  Platform systems versus easily revisable: Which is better?  Valenti

3:50 - 4:00p  Glenoids: Keel, pegs, inlay, inset or hybrid?  Levine
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<td>4:00 - 4:10p</td>
<td>All polyethylene glenoid implants: Follow the golden rules! What are the limits of glenoid implantation?</td>
<td>Warner</td>
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<td>4:10 - 4:20p</td>
<td>The young patient with OA: What to do before arthroplasty</td>
<td>Burks</td>
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<td>4:20 - 4:30p</td>
<td>Glenohumeral OA in the young—everything else has failed. It’s time to replace. Best implant choices.</td>
<td>Ramsey</td>
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<td>4:30 - 4:40p</td>
<td>Is there still a role for hemiarthroplasty and resurfacing?</td>
<td>Lafosse</td>
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<td>4:40 - 4:50p</td>
<td>What’s the big deal with the B2/B3 glenoid?</td>
<td>Elhassan</td>
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<td>4:55 - 5:00p</td>
<td>B2: Ream and replace</td>
<td>Levine</td>
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<td>5:00 - 5:05p</td>
<td>Video Presentation: Ream and replace</td>
<td>Armstrong</td>
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<td>5:25 - 5:32p</td>
<td>B2: Reverse is best</td>
<td>Frankle</td>
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<td>5:58 - 6:08p</td>
<td>Glenoid exposure and preparation: How I do it</td>
<td>Saltzman</td>
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<td>6:08 - 6:18p</td>
<td>My top 5 tricks to expose the challenging glenoid</td>
<td>Sanchez - Sotelo</td>
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<td>6:18 - 6:25p</td>
<td>What to do with the symptomatic hypoplastic type C glenoid</td>
<td>Getz</td>
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<td>6:25 - 6:30p</td>
<td>Video Presentation: Inset glenoid component for type C glenoid</td>
<td>Athwal</td>
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<td>6:30 - 6:40p</td>
<td>Alternate bearing surfaces: What’s new and what’s coming down the pipeline?</td>
<td>Abboud</td>
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<td>6:40 - 6:45p</td>
<td>Video Presentation: Alternate approach: Subscapularis</td>
<td>Lafosse</td>
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<td>6:45 - 6:50p</td>
<td>How do I rehab my anatomic TSA?</td>
<td>Lädermann</td>
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<td>6:50 - 7:00p</td>
<td>Factors influencing outcomes and survivability of TSA</td>
<td>Chalmers</td>
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<td>7:00 - 7:45p</td>
<td>PANEL DISCUSSION - Can I conclude anything about B2 management?</td>
<td>Levine</td>
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<td>7:45 - 9:00p</td>
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6:30 - 7:00a  Breakfast - Kokopelli Parlor III and White Pine Ballroom
7:00 - 7:05a  Announcements  Athwal, Keener, Tashjian
7:05 - 7:15a  Cuff tear arthropathy-Grading and indications for CT scan  Sperling
7:15 - 7:22a  RSA definitions – What’s COR and offset?  Saltzman
7:22 - 7:32a  Medialized designs work – Stick with the original  Levine
7:32 - 7:42a  Lateralized glenoids with inlay humerus is the way to go  Frankle
7:42 - 7:52a  A bit of both, medial glenoid and lateral humerus RSA  Faber
7:52 - 8:02a  What is the optimal baseplate position?  Warner
8:02 - 8:12a  Deltoperctoral versus superolateral approaches  Lafosse
8:12 - 8:17a  Video Presentation: Optimizing glenoid exposure through the deltopectoral approach for RSA  Getz
8:17 - 8:22a  Video Presentation: Optimizing glenoid exposure through the superolateral approach for RSA  Seebauer
8:22 - 8:32a  What should we do with the subscapularis – Let it fly or repair?  Valenti
8:32 - 8:42a  The glenoid is eroded/deformed – Options for treatment  Ricchetti
8:42 - 8:49a  Video Presentation: BIORSA for glenoid deformity  Athwal
8:49 - 8:56a  Video Presentation: Bone grafting for E2/E3 deformity  Tashjian
8:56 - 9:03a  Video Presentation: Metal baseplate augmentation for E2/E3 deformity  Routman
9:03 - 9:10a  Video Presentation: Alternate glenoid centerline – When and how  Frankle
9:10 - 9:30a  BREAK - Kokopelli Parlor III, Grand Ballroom Lobby and White Pine Ballroom

9:30 - 10:30a  REVERSE SHOULDER ARTHROPLASTY  Surgeon: David M. Dines, MD  Livestreamed from Hospital for Special Surgery, New York
               Moderators:  Frankle, Keener, Levy
10:30 - 11:30a  PANEL DISCUSSION - Management of glenoid deformities with RSA  Moderator:  Throckmorton
11:30 - 1:30p  DePuy Synthes Sponsored Workshop  (Non-CME)  Painted Horse 1
11:30 - 2:30p  AFTERNOON BREAK
2:30 - 3:00p  Lunch - Kokopelli Parlor III and White Pine Ballroom
3:00 - 3:07p  What is the best humeral neck-shaft angle?  Lädermann
3:17 - 3:27p  Maximizing prosthetic stability – Implant design, strategies  Armstrong
3:32 - 3:42p  Preventing instability after RSA – What I have learned over time  Throckmorton
3:42 - 3:49p  First clinic visit – It’s dislocated!  Chalmers
3:49 - 3:59p  Solving the acromial stress fracture problem – Who’s at risk, etiology and prevention  Faber
3:59 - 4:09p  Treatment of acromial stress fractures – Does it affect the result?  Levy
4:09 - 4:19p  Nerve complications – How much lengthening is too much?  Abboud
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<td>Stratifying RSA outcomes – Best to worst</td>
<td>Parsons</td>
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<td>4:29-4:39p</td>
<td>Regaining external rotation ROM – Is RSA all you need?</td>
<td>Valenti</td>
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<td>4:39-4:44p</td>
<td>Video Presentation: RSA combined with latissimus dorsi transfer – Surgical technique</td>
<td>Elhassan</td>
</tr>
<tr>
<td>4:44-4:54p</td>
<td>RSA for proximal humerus fractures – Indications and tips for maximizing tuberosity fixation</td>
<td>Sanchez-Sotelo</td>
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<td>BREAK - Kokopelli Parlor III, Grand Ballroom Lobby and White Pine Ballroom</td>
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<td>5:15-5:22p</td>
<td>Hemiarthroplasty for proximal humerus fracture – Is there still a role?</td>
<td>Getz</td>
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<td>Can you go uncemented with hemi or RSA for fracture?</td>
<td>Ramsey</td>
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<td>RSA in the setting of fracture sequela</td>
<td>Boileau</td>
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<td>5:42-5:52p</td>
<td>RSA in the setting of deltid/acromial dysfunction</td>
<td>Lädermann</td>
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<td>5:52-6:02p</td>
<td>Structured rehabilitation versus home exercise – Does it matter?</td>
<td>Routman</td>
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<td>6:02-6:12p</td>
<td>Durability of RSA – Will this outperform anatomic TSA?</td>
<td>Walch</td>
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<tr>
<td>6:12-7:00p</td>
<td>PANEL DISCUSSION – Complications related to RSA</td>
<td>Moderator: Sanchez-Sotelo</td>
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6:30 - 7:00a  Breakfast - Kokopelli Parlor III and White Pine Ballroom

7:00 - 7:05a  Announcements  Athwal, Keener, Tashjian

7:05 - 7:15a  How to plan for revising a humeral component – Instruments, imaging & imagination  Armstrong

7:15 - 7:22a  In 2019, is there still a role for revision to anatomic TSA  Throckmorton

7:22 - 7:32a  Humeral revision options: Standard length and long stem  Seebauer

7:32 - 7:39a  Video Presentation: Revision deltopectoral approach  Keener

7:39 - 7:44a  Video Presentation: Removal of a well-fixed cemented stemmed implant  Routman

7:44 - 7:49a  Video Presentation: Removal of a well-fixed uncemented stemmed implant  Saltzman

7:49 - 7:54a  Video Presentation: How to perform a humeral episiotomy and window  Athwal

7:54 - 8:04a  Complications associated with humeral revision and how to avoid them – Instability, loosening, poor postoperative function, over stuffing/poor restoration of anatomy  Boileau

8:04 - 8:09a  Video Presentation: Platform conversion: technique  Lafosse

8:09 - 8:14a  Video Presentation: BIO-RSA technique for the revision glenoid  Boileau

8:14 - 8:19a  Video Presentation: Allograft prosthetic technique for humeral bone loss: technique  Levy

8:19 - 8:24a  Video Presentation: Metal prosthetic reconstruction for humeral bone loss: technique  Routman

8:24 - 8:34a  Reverse shoulder arthroplasty instability – Work up and initial management for a dislocating reverse  Seebauer

8:34 - 8:44a  When there is nothing left-fusion, resection - How and when do we do these?  Throckmorton

8:44 - 8:54a  Classification of glenoid defects in revision surgery  Boileau

8:54 - 9:04a  What to do with a loose glenoid and a well-fixed, well-placed humeral stem  Levine

9:04 - 9:25a  BREAK - Kokopelli Parlor III, Grand Ballroom Lobby and White Pine Ballroom

9:25 - 10:25a  REVISION SHOULDER ARTHROPLASTY  Moderators: Lafosse, Tashjian, Throckmorton
Surgeon: Lawrence V. Gulotta, MD
Live-Streamed from Hospital for Special Surgery, New York

10:25 - 11:25a  PANEL DISCUSSION – Failed humeral and glenoid component cases  Moderator: Walch

11:25 - 3:00p  AFTERNOON BREAK

3:00 - 3:30p  Lunch - Kokopelli Parlor III and White Pine Ballroom

3:30 - 3:35p  Video Presentation: Arthroscopic glenoid poly removal  Burks

3:35 - 3:40p  Video Presentation: How I use autograft (iliac crest, distal clavicle, coracoid) to reconstruct the glenoid bone  Sanchez-Sotelo

3:40 - 3:50p  Options for glenoid reconstruction – Grafts or metal – How to choose?  Warner

3:50 - 3:55p  Video Presentation: How I use free structural bone graft for large superior or central bone defects  Valenti

3:55- 4:00p  Video Presentation: I don’t bone graft, I use the alternate center line  Frankle

4:00- 4:05p  Video Presentation: I don’t bone graft, I use a metal augmented base plate  Lädermann

4:05- 4:10p  Video Presentation: How I use a custom patient specific base plate  Keener

4:10 - 4:15p  Video Presentation: How I two-stage the glenoid  Ricchetti
### Saturday - Revision Shoulder Arthroplasty

**Kokopelli Grand Ballroom, Parlors I and II**

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tr>
<td>4:15 - 4:20p</td>
<td>Hemi Reverse</td>
<td>Walch</td>
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<tr>
<td>4:20 - 4:30p</td>
<td>Convertible stems: When to hold them and when to fold them</td>
<td>Faber</td>
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<tr>
<td>4:30 - 4:37p</td>
<td>Metal allergy in shoulder arthroplasty – Does it exist?</td>
<td>Getz</td>
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<tr>
<td>4:37 - 4:47p</td>
<td>What is the optimal method to diagnose infection preoperative and intraoperative in revision shoulder arthroplasty</td>
<td>Ricchetti</td>
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<tr>
<td>4:47 - 4:57p</td>
<td>What can we do to prevent deep postoperative infection after shoulder arthroplasty – Powders and pixie dust?</td>
<td>Abboud</td>
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<tr>
<td>4:57 - 5:07p</td>
<td>Two-stage revision for infected arthroplasty is the treatment of choice</td>
<td>Sanchez-Sotelo</td>
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<tr>
<td>5:07 - 5:17p</td>
<td>One-stage revision for infected arthroplasty is the way to go</td>
<td>Frankle</td>
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<td>5:17 - 5:22p</td>
<td>Video Presentation: How I perform an antibiotic spacer insertion</td>
<td>Parsons</td>
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<tr>
<td>5:22 - 5:32p</td>
<td>When should we consider debridement alone, chronic suppressive antibiotics or non-arthroplasty revision options?</td>
<td>Armstrong</td>
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<tr>
<td>5:47 - 5:57p</td>
<td>Tendon transfers after a well-positioned and fixed reverse arthroplasty</td>
<td>Elhassan</td>
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<tr>
<td>5:57 - 6:07p</td>
<td>Humeral periprosthetic fractures – Non-op versus surgery</td>
<td>Tashjian</td>
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<td>6:07 - 6:12p</td>
<td>Video Presentation: How to revise a periprosthetic humeral fracture with a loose stem</td>
<td>Lädermann</td>
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<tr>
<td>6:12 - 6:22p</td>
<td>How to deal with proximal humeral bone loss – Nothing, cement, allograft or metal?</td>
<td>Sanchez-Sotelo</td>
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<tr>
<td>6:22 - 6:32p</td>
<td>Managing anatomic shoulder arthroplasty instability</td>
<td>Elhassan</td>
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<tr>
<td>6:32 - 6:37p</td>
<td>How to manage a well-fixed humerus stem with a fracture below: Internal fixation with or without component revision</td>
<td>Tashjian</td>
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<tr>
<td>6:37 - 6:47p</td>
<td>Surgical strategies for the unstable reverse shoulder arthroplasty – Lengthen, lateralize, increase glenosphere size, constrained implants and more</td>
<td>Walch</td>
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<tr>
<td>6:47 - 7:30p</td>
<td>PANEL DISCUSSION – Complications Moderators: Athwal, Keener, Tashjian</td>
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<tr>
<td>7:30 - 8:30p</td>
<td>FxShoulder Sponsored Workshop (Non-CME)</td>
<td>Arrowhead Room</td>
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**WEDNESDAY WORKSHOP**

6:00p - 8:00p  *Wright Medical Sponsored Workshop* (Non-CME)  
- *Kokopelli Grand Ballroom - Lunch Provided*  
Thinking in 3D Black Diamond Case Debate  
Faculty: Gilles Walch, MD, Pascal Boileau, MD, John “JP” Warner, MD, Alexandre Lädermann, MD and Christopher Chuinard, MD

**THURSDAY WORKSHOP**

12:00p - 1:30p  *Genesis Sponsored Workshop* (Non-CME)  
- *Painted Horse 1 - Lunch Provided*  
Invention to Implant - Exploring issues of commercializing your product ideas with industry  
Presentations:  
• Options...Why work with industry?  
• The trials and tribulations of a surgeon innovator/entrepreneur  
• Panel Discussions: Faculty  
• Closing: Action items: Where to go from here?  
Faculty: Sean Churchill, MD, Aurora Health Systems, Medical Director, Genesis Innovation Group, Chris Chuinard MD, Great Lake Orthopaedics, Steve Gunther, MD, Martha Jefferson Orthopaedic Services, Rob Ball, CEO Genesis Group, Dave Blue, VP, Sales and Marketing, Genesis Innovation Group, Matt Ahearn, VP of Finance, Genesis Innovation Group, Don Running, VP R & D, Genesis Innovation Group.

**FRIDAY WORKSHOP**

11:30a - 1:30p  *DePuy Synthes Sponsored Workshop* (Non-CME)  
- *Painted Horse 1 - Lunch Provided*  
Advanced Shoulder Revision Techniques - Dr. Ludwig Seebauer  
DePuy Synthes welcomes you to a unique opportunity to learn from Dr. Ludwig Seebauer for instruction in advanced Shoulder Arthroplasty Revision techniques, case review and discussion. Primary topics will include Glenoid and Humeral Bone loss as well as Implant Associated Infection.

**SATURDAY WORKSHOP**

7:30p - 8:30p  *FxShoulder Sponsored Workshop* (Non-CME)  
- *Arrowhead Room - Dinner Provided*  
Dr. WZ “Buz” Burkhead will be presenting “The Advantages of FX Shoulder USA in Shoulder Arthroplasty” for our cocktail reception. Dr. Burkhead will give a presentation showing the unique advantages of our shoulder arthroplasty implants in a variety of indications and procedures.

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**EXHIBITOR’S RECEPTION**

*Please join us for a EXHIBITOR’S RECEPTION in the Exhibit areas*  
**THURSDAY**  
7:45pm to 9:00pm  
*Families and Guests are invited*
Please join us for an EXHIBITOR'S RECEPTION in the Exhibit areas.

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