

# ASAP

ADVANCED SHOULDER ARTHROPLASTY MEETING

## CARVING OUT THE FUTURE

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-Sotelo, 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



HEALTH  
UNIVERSITY OF UTAH



**Jointly Sponsored By**

The University of Utah Department of Orthopaedics and Advanced Shoulder ArthroPlasty Seminars

[www.asapmeeting.org](http://www.asapmeeting.org)



# ASAP

## ADVANCED SHOULDER ARTHROPLASTY MEETING



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# ASAP

ADVANCED SHOULDER ARTHROPLASTY

*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 Chairmen**

George S. Athwal, MD  
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# ASAP SCIENTIFIC COMMITTEE



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Holy Cross Orthopedic Research Institute  
Director, ASES Shoulder & Elbow Fellowship  
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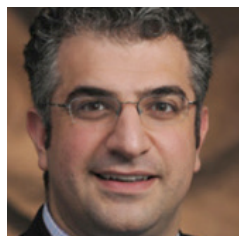


**Howard D. Routman, DO, FAOAO**  
Associate Clinical Professor, Department  
of Orthopaedic Surgery, Director of Palm  
Beach Shoulder Service, President and  
Founder of Palm Beach Shoulder and  
Sports Medicine Foundation  
Palm Beach, FL



**Joaquin Sanchez-Sotelo, MD, PHD**  
Professor of Orthopedics, Director,  
Adult Upper Extremity Reconstructive  
Fellowship, Mayo School of Graduate  
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# ASAP FACULTY



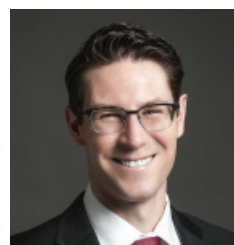
**Joseph Abboud, MD**  
Professor of Shoulder & Elbow Surgery,  
Senior Vice President Rotham Institute,  
The Sidney Kimmel Medical College,  
Thomas Jefferson University  
Philadelphia, PA



**Robert T. Burks, MD**  
Professor of Orthopaedic Surgery,  
The Robert W. Metcalf, MD Presidential  
Endowed Chair, Orthopaedic Surgery  
University of Utah  
Salt Lake City, UT



**April D. Armstrong, MD**  
Vice Chair Clinical Affairs and Quality,  
Associate Designated Institutional Official  
(DIO), Director of Health Systems Science  
for GME, Chief Shoulder and Elbow  
Surgery, Penn State Milton S. Hersey  
Medical Center, Bone and Joint Institute  
Hershey, PA



**Peter Chalmers, MD**  
Assistant Professor, University of Utah  
Department of Orthopaedic Surgery,  
Team Physician for the Salt Lake City  
Bees, Triple-A baseball team and the  
University of Utah baseball team, Salt  
Lake City, UT



**George S. Athwal, MD, FRCSC**  
Professor of Surgery and a Clinician  
Scientist at the University of Western  
Ontario in London, Co-Director of the  
ASAP Meeting  
London, Ontario



**David M. Dines, MD**  
Medical Director of the ATP Tour and  
former President of the American Shoulder  
and Elbow Society. Member of the  
Sports Medicine Service at Hospital for  
Special Surgery and Clinical Professor  
of Orthopedic Surgery at Weill Cornell  
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New York, NY



**Pascal Boileau, MD**  
Professor of Orthopedic Surgery,  
University of Nice-Sophia-Antipolis, Head  
of Department of Orthopedic Surgery,  
Archet 2 Hospital  
Nice, France



**Bassem T. Elhassan, MD**  
Professor of Orthopedics, Department  
of Orthopedic Surgery, Mayo Clinic  
Rochester, MN



**Kenneth J. Faber, MD**  
Associate Professor in the Department of Surgery at the University of Western Ontario, London, Ontario



**Laurent Lafosse, MD**  
Chairman of the Alps Surgery Institute, shoulder arthroscopist and reconstructive surgeon, Annecy, France



**Mark A. Frankle, MD**  
Director of the Biomechanical Shoulder and Elbow Research Lab at the University of South Florida College of Engineering and is the Director of the "Current Concepts in Shoulder and Elbow Surgery" Florida Orthopaedic Institute Temple Terrace, FL



**William N. Levine, MD**  
Frank E. Stinchfield Professor and Chairman, Department of Orthopedic Surgery, Columbia University Medical Center, Orthopedic Surgeon-in-Chief, New York-Presbyterian/Columbia, Head Team Physician, Columbia University Athletics Chief, Shoulder Service, Co-Director, Center for Shoulder, Elbow and Sports Medicine, New York, NY



**Charles L. Getz, MD**  
Associate Professor, The Sidney Kimmel Medical College, Thomas Jefferson University, Rothman Specialty Hospital Philadelphia, PA



**Gregory P. Nicholson, MD**  
Associate Professor, Rush University Medical Center. Team physician since 2004 for the Chicago White Sox, Chicago, IL



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



**Brad Parsons, MD**  
Associate Professor and Residency Program Director, Leni and Peter W. May Department of Orthopaedic Surgery, Mount Sinai School of Medicine, New York, NY



**Jay Keener, MD**  
Professor, Chief of Shoulder and Elbow Service, Fellowship Director, Department of Orthopaedic Surgery, Washington University, Co-Director of the ASAP Meeting St. Louis, MO



**Matthew L. Ramsey, MD**  
Professor, Chief of Rothman Institute's Shoulder and Elbow Division, Philadelphia, PA



**Alexandre Lädermann, MD**  
FMH Specialist in Orthopaedic Surgery and Traumatology of the Locomotor System Shoulder surgery Geneva, Switzerland



**Eric Ricchetti, MD**  
Director, Shoulder and Elbow Fellowship, Cleveland Clinic, Director, Shoulder Center, Cleveland Clinic Cleveland, OH





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



**Thomas W. Throckmorton, MD**  
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



**Ludwig Seebauer, MD**  
Chairman and Director at the Center of Orthopaedics, Klinikum Bogenhausen, Munich, Bavaria, Germany



**Philippe Valenti, MD**  
Specialist in reconstructive and upper body surgery. He is a founding member of La Chaîne de l'espoir, Paris France



**John W. Sperling, MD**  
Professor of Orthopedics Mayo Clinic, focuses on Shoulder Disorders, Rochester, MN



**Gilles Walch, MD**  
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



**Robert Tashjian, MD**  
Professor Department of Orthopaedics, University of Utah School of Medicine, Chief of Orthopaedics, Veteran's Administration Hospital, Co-Director of the ASAP Meeting, Salt Lake City, UT



**Jon "JP" Warner, MD**  
Chief of Massachusetts General Hospital and Director of Harvard Shoulder and Elbow Fellowship, Professor of Orthopaedic Surgery, Harvard Medical School, Current President of the New England Shoulder and Elbow Society, Boston, MA



**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)*<sup>™</sup>. 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](http://www.parkcitymountain.com) or [www.asapmeeting.org](http://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](mailto: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**     Moderators: **Athwal, Levy, Ramsey**  
*Surgeon: Gregory P. Nicholson, MD*  
*Live-Streamed from Midwest Orthopaedics at RUSH*

**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**

# THURSDAY - ANATOMIC SHOULDER ARTHROPLASTY

Kokopelli Grand Ballroom, Parlors I and II

- 4:00 - 4:10p** All polyethylene glenoid implants: Follow the golden rules! What are the limits of glenoid implantation? **Warner**
- 4:10 - 4:20p** The young patient with OA: What to do before arthroplasty **Burks**
- 4:20 - 4:30p** Glenohumeral OA in the young-everything else has failed. It's time to replace. Best implant choices. **Ramsey**
- 4:30 - 4:40p** Is there still a role for hemiarthroplasty and resurfacing? **Lafosse**
- 4:40 - 4:50p** What's the big deal with the B2/B3 glenoid? **Elhassan**
- 4:50 - 4:55p** B2: Can I still ream and run? **Getz**
- 4:55 - 5:00p** B2: Ream and replace **Levine**
- 5:00 - 5:05p** Video Presentation: Ream and replace **Armstrong**
- 5:05 - 5:10p** B2: Is bone grafting still an option? **Keener**
- 5:10 - 5:15p** Video Presentation: B2: Bone grafting **Warner**
- 5:15 - 5:20p** Video Presentation: B2: The augmented glenoid & TSA **Ricchetti**
- 5:20 - 5:25p** Video Presentation: B2: Augment **Athwal**
- 5:25 - 5:32p** B2: Reverse is best **Frankle**
- 5:32 - 5:51p** **BREAK - Kokopelli Parlor III, Grand Ballroom Lobby and White Pine Ballroom**
- 5:51 - 5:58p** Cost effectiveness and value: Should I care? **Levy**
- 5:58 - 6:08p** Glenoid exposure and preparation: How I do it **Saltzman**
- 6:08 - 6:18p** My top 5 tricks to expose the challenging glenoid **Sanchez - Sotelo**
- 6:18 - 6:25p** What to do with the symptomatic hypoplastic type C glenoid? **Getz**
- 6:25 - 6:30p** Video Presentation: Inset glenoid component for type C glenoid **Athwal**
- 6:30 - 6:40p** Alternate bearing surfaces: What's new and what's coming down the pipeline? **Abboud**
- 6:40 - 6:45p** Video Presentation: Alternate approach: Subscapularis on **Lafosse**
- 6:45 - 6:50p** How do I rehab my anatomic TSA? **Läderrmann**
- 6:50 - 7:00p** Factors influencing outcomes and survivability of TSA **Chalmers**
- 7:00 - 7:45p** PANEL DISCUSSION - Can I conclude anything about B2 management? Moderator: **Levine**
- 7:45 - 9:00p** **EXHIBITOR'S RECEPTION** **Exhibit Area**





# FRIDAY - REVERSE SHOULDER ARTHROPLASTY

*Kokopelli Grand Ballroom, Parlors I and II*

- 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 Deltopectoral 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** Moderators: **Frankle, Keener, Levy**  
**Surgeon: David M. Dines, MD**  
*Live-Streamed from Hospital for Special Surgery, New York*
- 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**
- 3:07 - 3:17p Humeral implants: Standard, short or stemless? Is there still a role for cementing? **Walch**
- 3:17 - 3:27p Maximizing prosthetic stability – Implant design, strategies **Armstrong**
- 3:27 - 3:32p **Video** Presentation: Intraoperative trialing – How I do it **Keener**
- 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**

# FRIDAY - REVERSE SHOULDER ARTHROPLASTY

*Kokopelli Grand Ballroom, Parlors I and II*

- 4:19 - 4:29p** Stratifying RSA outcomes – Best to worst *Parsons*
- 4:29 - 4:39p** Regaining external rotation ROM – Is RSA all you need? *Valenti*
- 4:39 - 4:44p** **Video** Presentation: RSA combined with latissimus dorsi transfer – Surgical technique *Elhassan*
- 4:44 - 4:54p** RSA for proximal humerus fractures – Indications and tips for maximizing tuberosity fixation *Sanchez-Sotelo*
- 4:54 - 5:15p** **BREAK - Kokopelli Parlor III, Grand Ballroom Lobby and White Pine Ballroom**
- 5:15 - 5:22p** Hemiarthroplasty for proximal humerus fracture – Is there still a role? *Getz*
- 5:22 - 5:32p** Can you go uncemented with hemi or RSA for fracture? *Ramsey*
- 5:32 - 5:42p** RSA in the setting of fracture sequela *Boileau*
- 5:42 - 5:52p** RSA in the setting of deltoid/acromial dysfunction *Lädermann*
- 5:52 - 6:02p** Structured rehabilitation versus home exercise – Does it matter? *Routman*
- 6:02 - 6:12p** Durability of RSA – Will this outperform anatomic TSA? *Walch*
- 6:12 - 7:00p** **PANEL DISCUSSION** – Complications related to RSA Moderator: *Sanchez-Sotelo*



# SATURDAY - REVISION SHOULDER ARTHROPLASTY

*Kokopelli Grand Ballroom, Parlors I and II*

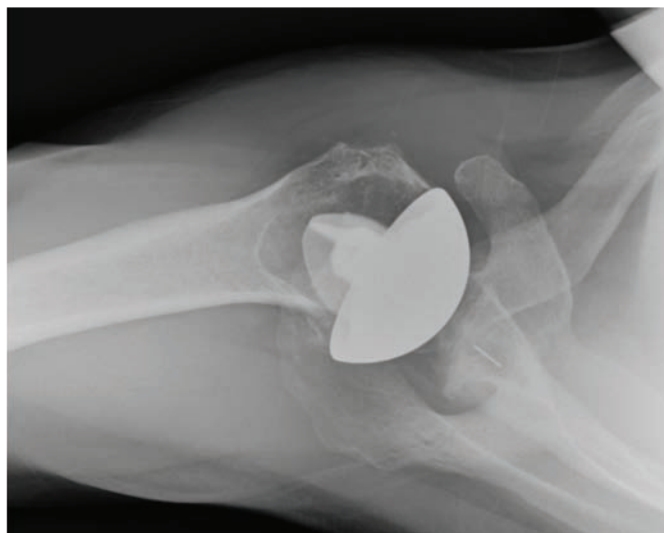
- 6:30 - 7:00a Breakfast - **Kokopelli Parlor III and White Pine Ballroom**
- 7:00 - 7:05a Announcements **Athwal, Keener, Tashjian**
- 7:05 - 7:15a How to plan for revising a humeral component – Instruments, imaging & imagination **Armstrong**
- 7:15 - 7:22a In 2019, is there still a role for revision 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 **Lädemann**
- 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

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



## 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.

*Please join us for a*  
**EXHIBITOR'S RECEPTION**  
*in the Exhibit areas*

**THURSDAY**  
**7:45pm to 9:00pm**

*Families and Guests are invited*

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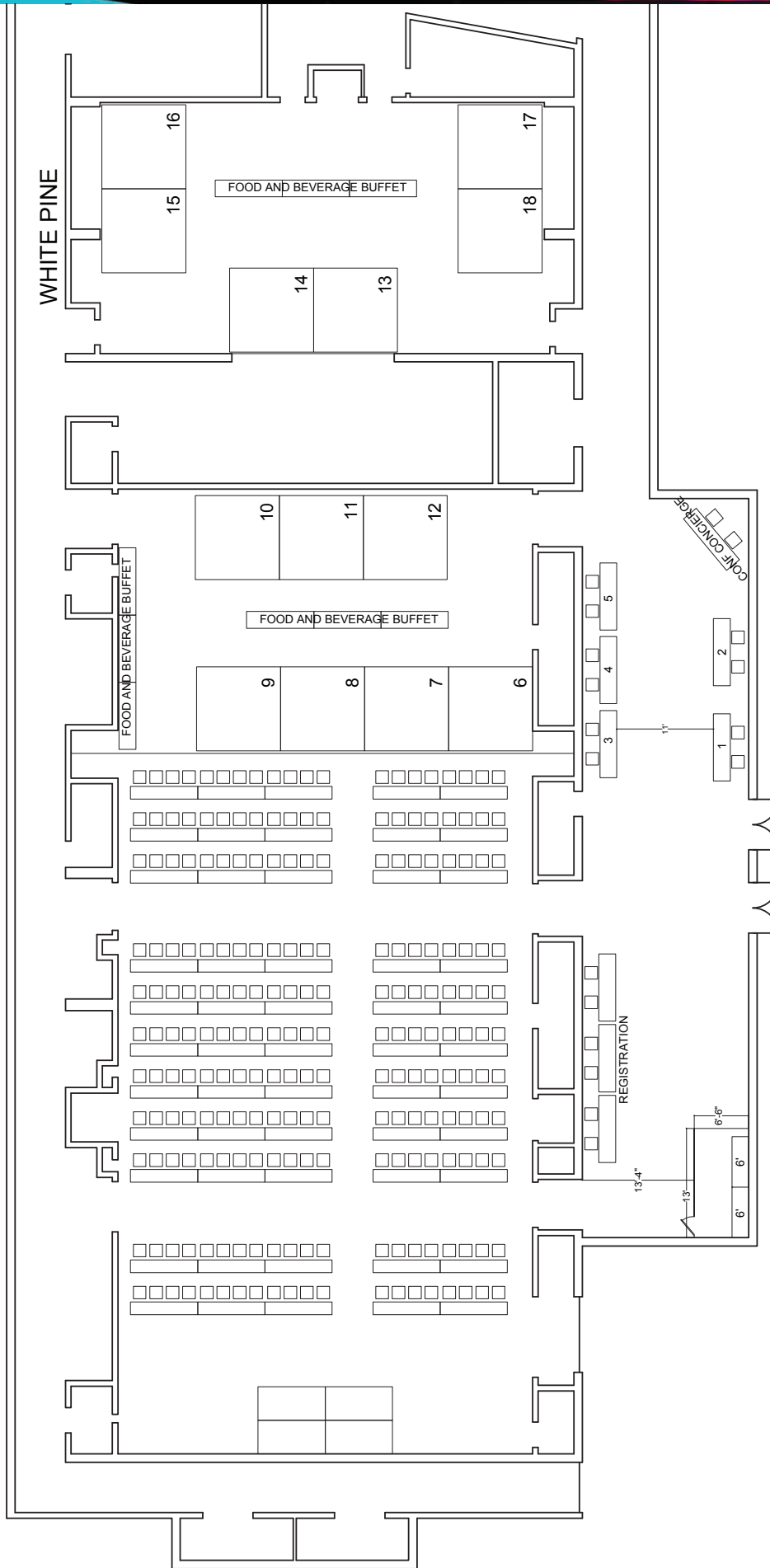
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1. Cuff et al. Reverse shoulder arthroplasty for the treatment of rotator cuff deficiency: a concise follow-up, at a minimum of 10 years, of previous reports. Journal of Bone and Joint Surgery. 2017.

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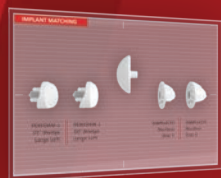
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