Description
This course is designed for practicing orthopaedic surgeons, orthopaedic residents and fellows, and medical students who plan to specialize in the practice of orthopaedic surgery. The need for this program arose from the responses from previous course evaluations.

Educational Objectives
Upon completion of this course, the participant should be able to:

- Identify, evaluate and treat traumatic orthopaedic disorders.
- Recognize, evaluate and treat complications related to traumatic orthopaedic disorders.
- Differentiate and understand the management of extrinsic influences (Health Policy, Efficiencies) on their practice.
- Apply evidence-based medicine, best-practices and novel medical and surgical approaches to the above.
- Discuss approaches and techniques used to ensure patient safety in orthopaedic practice and procedures.

Accreditation Statement
This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Pennsylvania Orthopaedic Society. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 13.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

* Participation in the entire course fulfills 1.5 Patient Safety Credit requirements for the current licensing cycle ending in 2014.

Faculty List & Disclosure
A complete listing of faculty is included in this program. Any and all faculty disclosures will be provided in the Final Program which will be distributed at the course to all meeting attendees.

Disclaimer
The material presented in this continuing medical education program is being made available by the American Academy of Orthopaedic Surgeons and the Pennsylvania Orthopaedic Society (POS) for educational purposes only. The material is not intended to represent the only, nor necessarily the best, methods or procedures appropriate for the medical situation discussed, but rather is intended to present an approach, view statement, or opinion of the authors or presenters, which may be helpful, or of interest, to other practitioners.
Thursday, October 23, 2014

6:30–7:15am  Registration • Continental Breakfast

7:15–7:30am  Welcome
  Kevin Black, MD

Announcements
  April Armstrong, BSc(PT), MSc, MD, FRCSC; J. Spence Reid, MD

Session I  THE HIP and FEMUR

Moderator:  Daniel Horwitz, MD

7:30–7:45am  Pertrochanteric Femur Fractures: When to Plate, When to Nail,
  Techniques to Make Both Easier
  Carol Copeland, MD

7:45–8:00am  The Physiologically Young Femoral Neck Fracture – Open or Closed
  Reduction? Optimal Fixation Techniques?
  James Krieg, MD

8:00–8:15am  Vancouver B1 Periprosthetic Femur Fractures – Newer Fixation Techniques
  Michelle Bramer, MD

8:15–8:30am  Distal Femur Periprosthetic Fractures – Decision Making and Techniques
  Daniel Horwitz, MD

8:30–8:45am  Distal Femur Replacement for Geriatric Complex Distal Femur Fractures
  Ivan Tarkin, MD

8:45–8:55am  Q & A

8:55–9:25am  MORNING BREAK / VISIT EXHIBITS

Session II  THE KNEE and TIBIA

Moderator:  J. Spence Reid, MD

9:25-9:40am  Multi – Ligamentous Knee Injury in the Active Patient - What is the Evidence?
  Robert Gallo, MD

9:40-9:55am  Bicondylar Tibial Plateau Fractures – When is a Single Locked Plate Sufficient?
  Gregory Altman, MD
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Details</th>
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| 9:55–10:10am | Bicondylar Tibial Plateau Fractures with Compartment Syndrome or Tissue Loss– How Do I Manage the Soft Tissue and ORIF?  
  *J. Spence Reid, MD* |
| 10:10-10:20am| Q & A                                                                           |
| 10:20–10:35am| Segmental Bone Loss in the Tibia – What are the Options - What is the Evidence?  
  *Michael Suk, MD, JD, MPH, FACS* |
| 10:35-10:50am| The Distal Tibia Fracture – Plate or Nail? What About the Fibula?  
  *Matthew Craig, MD, MS* |
| 10:50-11:00am| Damage Control Orthopaedics: When to put on the Ex-Fix, When to Definitively Fix - What is the Evidence? *  
  *Saqib Rehman, MD* |
| 11:10-11:20am| Q & A                                                                           |

**Session III**  
**SPINE**  
**Moderator:**  
*Patrick Smith, MD*  
11:20-11:35am  
Thoracic and Lumbar Trauma  
*Mark Knaub, MD*  
11:35-11:50am  
Common Surgical Spine Trauma and Controversies in Timing of Surgery  
*Joon Lee, MD*  
11:50am-12:00pm  
Q & A  
12:00–1:30pm  
*POS Presidential Induction & Lunch*  

**Session IV**  
**WHAT WOULD YOU DO?**  
**Moderator:**  
*Kevin Black, MD*  
1:30–3:00pm  
CASE PRESENTATIONS BY PROGRAM CHAIRS & AUDIENCE DISCUSSION  
*April Armstrong, BSc(PT), MSc, MD, FRCSC and J. Spence Reid, MD*  
3:00-3:30pm  
AFTERNOON BREAK / VISIT EXHIBITS  

**SESSION V**  
**FOOT and ANKLE**  
**Moderator:**  
*Paul Juliano, MD*
3:30–3:45pm  The Open Pilon Fracture – Management Night of Injury – How to Package it Well?  
*  
Susan Harding, MD

3:45–4:00pm  The Lisfranc Injury – Plates, Screws, or Wires?  
Umur Aydogan, MD

4:00–4:15pm  Pilon Fracture Variants – Don’t Miss the Anklon Injury!  
Henry Boateng, MD

4:15–4:30pm  The Mangled Foot and Ankle: Decision Making and Management the Night of Injury  
*  
Matthew Brewster, DO

4:30–4:45pm  Q & A

Friday, October 24, 2014

6:30–7:15am  Registration  •  Continental Breakfast

7:15–7:30am  Announcements  
April Armstrong, BSc(PT), MSc, MD, FRCSC; J. Spence Reid, MD

Session VI  HAND and WRIST
Moderator:  Kenneth Taylor, MD

7:30–7:45am  Distal Radius Fractures – Is There Still a Role for External Fixator?  
Kenneth Taylor, MD

7:45–8:00am  The Arthritic Distal Radioulnar Joint – The Decision Tree for Treatment  
Dean Sotereanos, MD

8:00–8:15am  Scapholunate Ligament Tear – What do I do?  
A. Lee Osterman, MD

8:15–8:30am  Hand Transplantation  
Robert Goitz, MD

8:30–8:45am  Replant or Amputate – Indications, Relative and Absolute  
David Steinberg, MD

8:45–9:00 am  Q & A

9:00–9:30am  MORNING BREAK / VISIT EXHIBITS
### Session VII  HEALTHCARE REFORM and POLITICAL ISSUES

**Moderator:** Kevin Black, MD

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>9:30-9:35am</td>
<td>Business Meeting</td>
<td>Kevin Black, MD</td>
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<tr>
<td>9:35–10:05am</td>
<td>IT and Health Care: Friend or Foe *</td>
<td>Christopher DeFlitch, MD, FACEP, FAAEM</td>
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<tr>
<td>10:05–10:15am</td>
<td>OrthoPAC Update</td>
<td>Chip Hummer, MD</td>
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<tr>
<td>10:15–10:45am</td>
<td>Democratic Party Nominee for Governor of Pennsylvania</td>
<td>Thomas Wolf</td>
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<td>10:45-11:00am</td>
<td>Discussion</td>
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### Session VIII  FELLOW / RESIDENT PRESENTATIONS

**Moderator:** Kevin Black, MD

<table>
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:00–11:10am</td>
<td>Post-Operative Bracing Compared to No Bracing After Tibial Plateau Fixation Shows No Difference in Radiographic, Functional, and Subjective Outcomes</td>
<td>Aakash Chauhan, MD, MBA</td>
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<tr>
<td>11:10 –11:20am</td>
<td>Strength and Stiffness of Plate Versus Screw Fixation of Radial Neck Fractures: A Biomechanical Study</td>
<td>Benjamin Zmistowski, MD</td>
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<tr>
<td>11:20-11:30am</td>
<td>Radiation Exposure to the Surgeon’s Hands: A Practical Comparison of Large and Mini C-arm Fluoroscopy *</td>
<td>Michael Vosbikian, MD</td>
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<tr>
<td>11:30-11:40am</td>
<td>Does Obesity Impact the Perioperative Course of Patients with Isolated Diaphyseal Tibia Fractures?</td>
<td>Matthew Schessler, MD</td>
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<tr>
<td>11:40am-12:00pm</td>
<td>Discussion &amp; Award Presentations</td>
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12:00-1:30pm  Luncheon Speaker  
The Burden of Post - Traumatic Osteomyelitis  
*J. Spence Reid, MD*

### Session IX  PEDIATRICS
**Moderator:** William Hennrikus, MD

1:30–1:45pm  Update on Non-Accidental Pediatric Fractures  
*William Hennrikus, MD*

1:45–2:00pm  Treatment of ACL Tears in Skeletally Immature Athletes  
*Lawrence Wells, MD*

2:00–2:15pm  Supracondylar Elbow Fractures – Current Management  
*Douglas Armstrong, MD*

2:15–2:30pm  Pediatric Femur Fractures – Controversies in Management  
*William Mirenda, MD*

2:30–2:45pm  Q & A

2:45-3:15PM  AFTERNOON BREAK / VISIT EXHIBITS

**Session X  ELBOW**

**Moderator:** April Armstrong, BSc(PT), MSc, MD, FRCSC

3:15-3:30pm  Osteopenic Comminuted Distal Humerus Fracture – To Fix or Replace?  
*David Kolessar, MD*

3:30-4:00pm  Terrible or Not So Terrible: Elbow Fracture Dislocations  
*GUEST SPEAKER – George Athwal, MD*

4:00-4:10pm  Q & A

**Session XI  SHOULDER**

**Moderator:** Charles Getz, MD

4:10-4:25pm  Treatment Options for Osteoporotic Proximal Humerus Fractures  
*Ivan Tarkin, MD*

4:25-4:40pm  Arthroplasty for Proximal Humerus Fracture – Hemiarthroplasty or Reverse?  
*April Armstrong, BSc(PT), MSc, MD, FRCSC*

4:40-4:55pm  Should This Greater Tuberosity Fracture be Fixed?  
*Charles Getz, MD*

4:55-5:00pm  Discussion

**Thank you for your participation. Meeting Adjourned!**
Program Chairmen

April Armstrong, BSc (PT), MSc, MD, FRCSC
Professor, Chief Shoulder and Elbow Surgery, Associate CMO PSHMG Surgical Care, Penn State Hershey Medical Center, Bone and Joint Institute, Hershey, PA

J. Spence Reid, MD
Professor, Chief of Orthopaedic Trauma, Penn State Hershey Medical Center, Hershey, PA

Guest Faculty

George Athwal, MD, FRCSC
Associate Professor, University of Western Ontario, Canada

Christopher DeFlitch, MD, FACEP, FAAEM
CMIO, Penn State Hershey Vice-Chair, Department of Emergency Medicine, Penn State Hershey Medical Center, Hershey, PA

Thomas Wolf

Invited Faculty

Gregory Altman, MD
Associate Professor, Orthopaedic Surgery, Temple University College of Medicine; Vice Chairman, Department of Orthopaedic Surgery, Allegheny General Hospital, Pittsburgh, PA

Douglas Armstrong, MD
Edwards P. Schwentker Professor, Division Head Pediatric Orthopedics, Penn State Hershey Medical Center, Hershey, PA

Umur Aydogan, MD
Assistant Professor, Foot and Ankle Surgery, Penn State Hershey Medical Center, Penn State College of Medicine, Penn State Hershey Bone and Joint Institute, Hershey, PA

Kevin Black, MD
President, Pennsylvania Orthopaedic Society, 2013-14: Professor and C. McCollister Evarts Chair, Department of Orthopaedics and Rehabilitation, Vice Dean for the University Park Regional Medical Campus, Penn State Hershey Medical Center, Hershey, PA

Henry Boateng, MD
Associate Professor, Orthopaedic Trauma Service, Penn State Hershey Medical Center, Hershey, PA

Michelle Bramer, MD
Assistant Professor, Orthopaedic Trauma Surgery, WVU Orthopaedics, Morgantown, WV

Matthew Brewster, DO
Foot and Ankle Fellow, Penn State Hershey Medical Center, Hershey, PA

Carol Copeland, MD
Associate Professor, Orthopaedic Trauma Service, Penn State Hershey Medical Center, Hershey, PA

Matthew Craig, MD, MS
Clinical Assistant Professor, Temple University Department of Orthopaedics; Director of Orthopaedic Trauma, Abington Memorial Hospital, Abington, PA
Robert Gallo, MD  
Associate Professor Sports Medicine, Orthopaedic Surgery, Penn State Hershey Medical Center, Penn State College of Medicine, Hershey, PA

Charles Getz, MD  
Associate Professor, Orthopaedic Surgery, Thomas Jefferson University Hospital, The Rothman Institute, Philadelphia, PA

Robert Goitz, MD  
Professor, Orthopaedic Surgery, Plastic Surgery and Bioengineering; Chief, Hand & Upper Extremity Surgery, Department of Orthopaedic Surgery, University of Pittsburgh Medical Center, Pittsburgh, PA

Susan Harding, MD  
Clinical Associate Professor, Drexel University College of Medicine, Director of Orthopaedic Trauma, Hahnemann University Hospital, Department of Orthopaedic Surgery, Philadelphia, PA

William Hennrikus Jr., MD  
Professor of Orthopaedic Surgery, Associate Dean of Education, Penn State College Of Medicine, Hershey, PA

Daniel Horwitz, MD  
Chief, Orthopaedic Trauma Surgery, Geisinger Health System, Danville, PA

Charles (Chip) Hummer III, MD  
Orthopaedic Surgeon, Premier Orthopaedic Medicine and Sports Associates, LTD.; Medical Director/ Team Physician Philadelphia Union of MLS, Upland, PA

Paul Juliano, MD  
Professor, Vice-Chairman, Residency Director; Chief, Foot and Ankle Division, Department of Orthopaedics; Capt.-USNR, Retired; Penn State Hershey Medical Center, Hershey, PA

Mark Knaub, MD  
Assistant Professor, Department of Orthopaedics and Rehabilitation, Chief, Orthopaedic Spine Service, Penn State Hershey Medical Center, Hershey, PA

David Kolessar, MD  
Associate Professor of Clinical Orthopaedic Surgery, Temple University School of Medicine; Chief, Adult Hip Reconstruction, Geisinger Health System, Danville, PA

James Krieg, MD  
Professor and Director of Orthopaedic Trauma, The Rothman Institute at Thomas Jefferson University, Philadelphia, PA

Joon Lee, MD  
Orthopaedic Surgeon, University of Pittsburgh Physicians, Pittsburgh, PA

William Mirenda, MD  
Chief, Pediatric Orthopaedic Surgery, Geisinger Medical Center, Danville, PA

A. Lee Osterman, MD  
Professor of Orthopedic and Hand Surgery, Thomas Jefferson University; President, The Philadelphia Hand Center, King of Prussia, PA

Saqib Rehman, MD  
Director of Orthopaedic Trauma, Associate Professor of Orthopaedic Surgery, Temple University Hospital, Philadelphia, PA
Patrick Smith, MD
Clinical Instructor, Three Rivers Orthopaedics, UPMC-St. Margaret's Hospital, Pittsburgh, PA

Dean Sotereanos, MD
Clinical Professor of Orthopaedic Surgery, University of Pittsburgh School of Medicine Orthopaedic Specialists, UPMC, Pittsburgh, PA

David Steinberg, MD
Associate Professor, Department of Orthopaedic Surgery, Director, Hand, Upper Extremity & Microsurgery Fellowship, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA

Michael Suk, MD, JD, MPH, FACS
Chairman, Department of Orthopaedic Surgery, Geisinger Health System, Danville, PA

Ivan Tarkin, MD
Chief, Orthopedic Trauma, Associate Professor, UPMC, Pittsburgh, PA

Kenneth Taylor, MD
Associate Professor, Chief, Division of Orthopaedic Hand Surgery, Penn State Hershey Medical Center, Hershey PA

Lawrence Wells, MD
Associate Professor of Orthopedic Surgery, Perelman School of Medicine University of Pennsylvania; Attending Surgeon, The Children’s Hospital of Philadelphia, Philadelphia, PA

Fellow/Resident Speakers

Aakash Chauhan, MD, MBA
Resident, Department of Orthopaedic Surgery, Allegheny General Hospital, Pittsburgh, PA

Matthew Schessler, MD
Resident, Department of Orthopaedic Surgery, Allegheny General Hospital, Pittsburgh, PA

Michael Vosbikian, MD
Resident, Department of Orthopaedic Surgery, Thomas Jefferson University, The Rothman Institute, Philadelphia, PA

Benjamin Zmistowski, MD
Resident, Department of Orthopaedic Surgery, Thomas Jefferson University, The Rothman Institute, Philadelphia, PA
HOTEL INFORMATION

Situated on 2,000 acres, Nemacolin Woodlands Resort, located in the Laurel Highlands of Southwestern Pennsylvania, features 318 luxurious guestrooms, suites, Townhouses and Private Luxury Homes, including the Falling Rock boutique hotel, a recipient of the Forbes Five-Star and AAA Five-Diamond awards.

Please call **1.800.422.2736** to make your reservations for Nemacolin Woodlands Resort. When making your reservations, be certain to identify yourself as part of the Pennsylvania Orthopaedic Society (POS) group and reference our **Reservation ID # PA1014**. The daily room rate for the POS room block starts at **$249** and is subject to an additional 9% occupancy and sales tax. Check-in after 4:00pm /check-out by 11:00am.

A limited number of rooms are available at the POS group rate. **Reservations must be made by September 21, 2014 to receive the POS rate.** PLEASE MAKE YOUR RESERVATIONS EARLY. For more Hotel information please visit the following website: www.nemacolin.com.

**ATTIRE:**
Proper attire is resort casual. Walking shorts and golf shorts are welcome. Swimsuits must be dry and a cover up worn. Gentlemen are not permitted to wear sleeveless shirts or tank tops.

POS WELCOME RECEPTION

Quartz at Falling Rock
**Wednesday, October 22, 6:00 –7:30pm**
Come mingle with family, colleagues, and friends at the POS Welcome Reception! Complimentary drinks and hors d’oeuvres will be served. Please welcome new POS President for 2015, Tom Muzzonigro, MD, and say thank you to current President, Kevin Black, MD, for an eventful and memorable year. Open to all attendees and one guest.
**Group transportation will be available to Falling Rock.**
Register by September 21st and save $75. You can also register online at www.paorthosociety.org

Last Name: ____________________________  Title (MD/DO) __________________

First Name: ____________________________

Office Address: ____________________________________________________________

City: ____________________________  State: ____________________________  Zip: ____________________________

Email Address: ____________________________

Office Phone: ____________________________

Office Contact: ____________________________

Registration fee includes admission to scientific sessions, continental breakfasts, luncheons, refreshment breaks, exhibit hall, and Wednesday Welcome Reception (attendee & one guest).

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Wednesday Welcome Reception, (attendee & one guest) @ no charge (number) ____________________________

Payment Method (Please check appropriate box):

☐ CHECK enclosed made payable to POS
☐ CREDIT CARD: ________AMEX _________VISA ______________ MC

Card Number: ____________________________

Exp. Date: ____________________________ Card Verification Number: ____________________________

Signature: ____________________________

Please mail this form with payment to: Susan Sands
Pennsylvania Orthopaedic Society – 510 N. 3rd St., 3rd Fl., – Harrisburg, PA 17101
Phone: 717.909.8901 / Fax: 717.909.8906 / susan@paorthosociety.org

Cancellation Policy: There will be a $100 processing fee for cancellations received before September 30, 2014. Refunds will NOT be granted for cancellations received on or after September 21, 2014.
UPCOMING POS 2015 MEETINGS

March 3, 2015
ICD-10 Update for Orthopaedics - EAST
Crowne Plaza Valley Forge, King of Prussia

March 19, 2015
ICD-10 Update for Orthopaedics – WEST
Sheraton Station Square, Pittsburgh

April 10-11, 2015
2015 Spring Scientific Meeting
Controversies Across the Commonwealth: Sports Medicine and Upper Extremity
JW Marriott Camelback, Scottsdale, AZ

October 15-16, 2015
2015 Fall Scientific Meeting
TBD
Hyatt at the Bellvue, Philadelphia, PA