

2009 Scientific Program

Monday, December 14, 2009

(Presenters and times are subject to change.)

1200-1700 **LUNCH AND VENDOR WORKSHOP**
Genzyme Biosurgery
(Iolani 2 & 3; CME credit not available)

Tuesday, December 15, 2009

0630-0700	Opening Ceremony (Tapa Ballroom 3)	Pattern and Combat Fatality Rate in Military Personnel Wounded in Combat (F) <i>FLTLT Peter Ross Watson, MBBS</i> Royal Australian Air Force - Air Force Health Reserves Victoria, Williams Laver-ton, Australia
0700-0730	Presentation of the Allgood Award (Tapa Ballroom 3)	0900-0905 Wounding Patterns and Demographics of Those Injured in "The Surge" (F) <i>MAJ Scott M. Waterman, MD</i> Walter Reed Army Medical Center, Washington, DC
0730-0800	Allgood Military Medical Leadership Symposium <i>BG (P) Robert Brooks Brown</i> Deputy Commanding General, North 25 th Infantry, Schofield Barracks, HI <i>CAPT Dana Covey, MD</i> Naval Medical Center, San Diego, CA (Tapa Ballroom 3)	0905-0910 Disease and Non-Battle Injuries Sustained by a U.S. Army Brigade Combat Team During Operation Iraqi Freedom (K) (F) <i>CPT Gens P. Goodman, DO</i> William Beaumont Army Medical Center, El Paso, TX
0800-0820	BREAK WITH EXHIBITORS (Tapa Ballroom 1 & 2)	0910-0915 Preparedness for Modern Battlefield Orthopaedic Surgery: A Survey of U.S. Army Orthopaedic Surgeons Deployed in Support of the Global War on Terror (K) (F) <i>CPT Sean P. Kearney, MD, MPH</i> Madigan Army Medical Center, Tacoma, WA
GENERAL SESSION I — Military Trauma (Tapa Ballroom 3)		0915-0925 DISCUSSION
Moderator:	MAJ Joseph R. Hsu, MD, Army CDR Michael Mazurek, MD, Navy <i>(In Memoriam)</i> Maj. Michael T. Charlton, MD, Air Force Cory A. Collinge, MD, Andrew N. Pollak, MD, and Anthony S. Rhorer, MD, Civilian Moderators	Hip and Pelvis Moderator: Maj. Michael T. Charlton, MD
0820-0850	Challenging Proximal Femur Fractures <i>Cory A. Collinge, MD</i> Harris Methodist Hospital Fort Worth, Fort Worth, TX	0925-0930 Pelvic Fractures in Current Military Deployments (K) (F) <i>Major Will Eardley, MB ChB MSc MRCS (Ed) RAMC</i> Academic Department of Military Surgery and Trauma, Catterick Garrison, North Yorkshire
0850-0855	DISCUSSION	0930-0935 Battlefield Pelvic Fractures Sustained Among Non Survivors During Operations
Military System Moderator: Andrew N. Pollak, MD		
0855-0900	The Impact of the Wearing of Modern Body Armor on the Prevalence of Extremity Injury and Changes in Distribution of Injury	

	Enduring Freedom and Iraqi Freedom (F) <i>CDR Michael T. Mazurek, MD</i> Naval Medical Center San Diego, San Diego, CA <i>*Presented by LT James R. Bailey, MD</i>	1105-1330	Andrew N. Pollak, MD Anthony S. Rhorer, MD LUNCH AND VENDOR WORKSHOP ConMed Linvatec (Honolulu Suite 1; CME credit not available) Synthes (Honolulu Suite 2 & 3; CME credit not available)
0935-0940	Biomechanical Comparison of Trans-Sacral Screws Versus Triangular Osteosynthesis Fixation for Vertically Unstable Transforaminal Sacral Fractures <i>CPT Kyong Su Min, MD</i> MAMC - Dept. of Orthopaedic Surgery, Tacoma, WA		
0940-0945	Can All Femoral Neck Fractures Be Exposed Through a Minimally Invasive Smith-Petersen Approach? (K) <i>CPT James Alan Blair Jr., MD</i> Brooke Army Medical Center, Houston, TX		
0945-0955	DISCUSSION		
Extremity Fracture Management			
Moderator: Cory A. Collinge, MD			
0955-1000	The Impact of CT Scans on the Treatment of Lisfranc Injuries (K) <i>LT Lance LeClere, MD</i> Naval Medical Center San Diego, San Diego, CA		
1000-1005	“Lateral-Only” Locked Plate Fixation of High Energy, Coronally Unstable Fractures of the Proximal Tibia (K) <i>Kevin Grant, MD</i> Florida Orthopaedic Institute, Tampa, FL <i>*Presented by LCDR Matthew Matiassek, MD</i>		
1005-1010	Locking Screws and Construct Stiffness in a Large Fragment Combination Screw Hole Plate (K) <i>LT Nathan Hammel, MD</i> Naval Medical Center San Diego, San Diego, CA		
1010-1015	Early Performance of Military Tasks After Clavicle Plating (K) (F) <i>CPT Jeannie Huh, MD</i> Brooke Army Medical Center, Houston, TX		
1015-1025	DISCUSSION		
1025-1105	How to Reduce the Tricky Ones: Proximal Humerus, Femoral Neck, and Proximal Tibia Symposium Maj. Michael T. Charlton, MD Cory A. Collinge, MD MAJ Joseph R. Hsu, MD		
		1330-1415	Post-Traumatic Infection: Reconstruction Strategies <i>Cory A. Collinge, MD</i> Harris Methodist Hospital Fort Worth, Fort Worth, TX
		1415-1420	DISCUSSION
		1420-1455	Collaborative Research Between the Military and Civilian Centers <i>Andrew N. Pollak, MD</i> University of Maryland Medical Center, Baltimore, MD
		1455-1500	DISCUSSION
Combat-Related Fracture Management			
Moderator: Anthony S. Rhorer, MD			
		1500-1505	External Fixation is Safe for Damage Control Orthopaedics in a Combat Environment (K) (F) <i>CPT Daniel R. Possley, DO</i> Brooke Army Medical Center, Houston, TX
		1505-1510	Treatment of Open Proximal Femur Fractures Sustained in Wartime Injuries (K) (F) <i>CPT Andrew W. Mack, MD</i> Walter Reed Army Medical Center, Washington, DC
		1510-1515	Does a Longer Delay in Fixation of Talus Fractures Cause Osteonecrosis? <i>CPT Jaime L. Bellamy, DO</i> Brooke Army Medical Center, Houston, TX <i>*Presented by CDR John J. Keeling MD</i>

GENERAL SESSION II — Military Trauma (Tapa Ballroom 3)

Moderators: MAJ Joseph R. Hsu, MD, Army
CDR Michael Mazurek, MD, Navy
(In Memoriam)
Maj. Michael T. Charlton, MD, Air Force
Cory A. Collinge, MD, Andrew N. Pollak, MD, and Anthony S. Rhorer, MD Civilian Moderators

1515-1520	Peripheral Nerve Recovery Following Combat-Related Type III Open Tibia Fractures (K)(F) <i>CPT Michael J. Beltran, MD</i> Brooke Army Medical Center, Houston, TX	1600-1605	Complications and Acute Morbidity of Thigh Compartment Syndrome (TCS), A Report of 26 Cases (K) <i>CPT Eric Verwiebe, MD</i> William Beaumont Army Medical Center and TTUHSC, El Paso, TX
1520-1530	DISCUSSION		
1530-1550	BREAK WITH EXHIBITORS	1605-1610	Percutaneous Fixation of Vancouver B1 Periprosthetic Femoral Shaft Fractures with a Contralateral Reversed Distal Femoral LISS Plate (K) <i>CPT Chadwick Hampton, MD</i> Walter Reed Army Medical Center, National Naval Medical Center, Washington, DC
Complication Management			
Moderator: MAJ Joseph R. Hsu, MD			
1550-1555	The Incidence of Wound Complications Related to Wound VAC Power Outage with Interruption of Therapy in Orthopedic Trauma Patients <i>Cory A. Collinge, MD</i> Harris Methodist Hospital Fort Worth, Fort Worth, TX	1610-1620	DISCUSSION
1555-1600	Incidence of Infections and Complications of Fractures Internally Fixed in the Combat Environment (K) (F) <i>CPT Daniel J. Stinner, MD</i> United States Army Institute of Surgical Research, Houston, TX	1620-1720	Extremity War Injury Update IV Symposium <i>COL James R. Ficke, MD</i> <i>Joseph C. Wenke, PhD</i> <i>Andrew N. Pollak, MD</i>
		1720-1750	Presidential Guest Lecture <i>LTG Eric B. Schoemaker, MD</i> Army Surgeon General

Wednesday, December 16, 2009

*0630-0800 **Combat Extremity Surgery Course**
(Please see page 39 for course details.)

GENERAL SESSION III — Sports Upper Extremity (Tapa Ballroom 3)

Moderators: Craig R. Bottoni, MD, Army LCDR Matthew T. Provencher, MD, Navy Lt Col. Warren R. Kadmas, MD, Air Force Richard Ryu, MD, Civilian Moderator		0735-0740	Subcoracoid Impingement: A New Diagnostic Test with Arthroscopic Treatment and Follow-Up in a Series of Patients <i>MAJ Steven J. Lalliss, MD</i> Carl R. Darnall Army Medical Center, Ft Hood, TX
0700-0715	SLAP Tears—When to Fix and When to Not <i>Richard Ryu, MD</i> Santa Barbara, CA	0740-0745	Outcomes of Type II Superior Labrum, Anterior to Posterior (SLAP) Repair <i>Maj. Mark Slabaugh, MD</i> Wilford Hall Medical Center, San Antonio, TX <i>* Presented by Maj. Ben Carter Robinson, MD</i>
0715-0725	DISCUSSION	0745-0800	DISCUSSION
0725-0730	Biceps Tenodesis with Interference Screw Fixation: A Biomechanical Comparison of 4 Different Screw Sizes and 2 Repair Locations <i>Maj. Mark Slabaugh, MD</i> Wilford Hall Medical Center, San Antonio, TX <i>* Presented by Capt. James Bales, MD</i>	0800-0805	Percutaneous & Arthroscopically-Assisted Coracoclavicular Ligament Repairs <i>Craig R. Bottoni, MD</i> Aspetar Orthopaedic & Sports Medicine Hospital, St. Petersburg, FL
0730-0735	Does Biceps Tenodesis Alter Shoulder Kinematics? A Novel In Vivo Biplane Flu-		oroscopy Study <i>Christopher B. Dewing, MD</i> Naval Medical Center San Diego, San Diego, CA

0805-0810 Performance on Shoulder Arthroscopy Simulator Correlates with Cadaver Performance and Experience **(K)**
CPT Kevin D. Martin, MD
 William Beaumont Army Medical Center, El Paso, TX

0810-0830 DISCUSSION

0830-0835 Clinical Grading of Hill-Sachs Injuries: Association with Glenoid Bone Loss and Clinical Application of the “Glenoid Track” Concept in Terms of Humeral Head Engagement **(K)**
LT Paul Metzger, MD
 Naval Medical Center San Diego, San Diego, CA
**Presented by LT Dominic Leonardelli, MD*

0835-0840 Characterization of Glenoid and Distal Tibial Cartilage: Implications in Shoulder Instability
LCDR Matthew T. Provencher, MD
 Rush University Medical Center, Chicago, IL

0840-0845 Physical Examination Finding in Young Athletes Correlate with History of Shoulder Instability
MAJ Brett D. Owens, MD
 Keller Army Hospital, West Point, NY

0845-0900 DISCUSSION

0900-0920 **BREAK WITH EXHIBITORS**

0920-0940 Current Concepts in the Treatment of Rotator Cuff Disease
Richard Ryu, MD
 Santa Barbara, CA

0940-0950 DISCUSSION

0950-1030 ICL Symposium – Case Presentations
 Richard Ryu, MD
 LCDR Matthew T. Provencher, MD
 Lt Col. Warren R. Kadrmas, MD
 Craig R. Bottoni, MD

1030-1100 **Mandatory Business Meeting (Tapa Ballroom 3)**

1100-1200 **Breakout Meetings**
 Army (Tapa Ballroom 3)
 Navy (Honolulu Suite 1)
 Air Force (Iolani Suite 6 & 7)

1200-1300 **LUNCH AND VENDOR WORKSHOP**
 Trimed (Honolulu Suite 3; CME credit not available)

GENERAL SESSION IV — Sports Lower Extremity (Tapa Ballroom 3)

Moderators: COL Edward D. Arrington, MD, Army
 CDR John-Paul Rue, MD, Navy
 Lt Col. Eric W. Fester, MD, Air Force
 Gregory C. Fanelli, MD, Civilian Moderator

1300-1340 The Multiple Ligament Injured Knee: Evaluation, Treatment, Results
 Gregory C. Fanelli, MD
 Geisinger Medical Center Orthopaedic Surgery, Danville, PA

1340-1350 DISCUSSION

1350-1355 Alterations in Knee Kinematics Due to Anterior Interval Contracture
Lt Col. Robert T. Sullivan, MD
 USAF Academy, Colorado Springs, CO

1355-1400 Effect of Retrograde and Antegrade Interference Screw Tibial Fixation on Intra-Articular Graft Tension **(K)**
Capt. Peter Charles Rhee, DO
 Mayo Clinic, Rochester, MN

1400-1405 Fixation Strength Comparison Between Posterior Tibialis Tendon Fixed with a Bioabsorbable Interference Screw Combined with a Ligament Button or Soft Tissue Post and Washer **(K)**
CPT Kelly Fitzpatrick, DO
 Tripler Army Medical Center, Honolulu, HI

1405-1410 Lateral Femoral Fixation Devices’ Relationship to Posterolateral Corner Structures in ACL Reconstruction Surgery: An Anatomic Study **(K)**
Capt. Richard Judd Robins, MD
 Wright-Patterson Medical Center, Dayton, OH

1410-1415 The “Dial Test” in an Idealized Setting: Evaluation of Side to Side Differences **(K)**
Maj. Ben Carter Robinson, MD
 Wilford Hall Medical Center, San Antonio, TX

1415-1420 DISCUSSION

1420-1440 **BREAK WITH EXHIBITORS**

1440-1445 Use of Tegner Index and Lysholm Scores to Assess Return to Activity and Function Six Years After Partial Meniscectomy Vs. Collagen Meniscus Implants
(Retired) LTC William G. Rodkey, DVM, Diplomate ACVS
 Steadman Hawkins Research Foundation, Vail, CO

1445-1450	The Predictability of Meniscus Repair Using MRI <i>Lt Col. Eric W. Fester, MD</i> Wright-Patterson Medical Center, Dayton, OH		at Average 4-Year Follow-Up <i>Maj. Mark Slabaugh, MD</i> Wilford Hall Medical Center, San Antonio, TX <i>* Presented by Capt. Kevin S. Borchard, MD</i>
1450-1455	Proximal Tibial Osteotomy and Meniscal Transplantation: A Biomechanical Analysis <i>LCDR Matthew T. Provencher, MD</i> Rush University Medical Center, Chicago, IL	1510-1515	Osteochondral Allograft Transplantation in the Knee in the Active Duty Population (K) <i>CPT William F. Scully, MD</i> Madigan Army Medical Center, Tacoma, WA
1455-1500	DISCUSSION	1515-1520	DISCUSSION
1500-1505	Long-Term Durability of Autologous Chondrocyte Implantation (ACI): A Multicenter, Observational Study in U.S. Subjects <i>Allen F. Anderson, MD</i> Tennessee Orthopaedic Alliance/ The Lipscomb Clinic, Nashville, TN <i>*Presented by Jason M. Scopp, MD</i>	1520-1550	Case Presentations: Allograft Vs. Autograft ACL Reconstruction; Meniscal Repair Techniques and Cartilage Lesion Treatment Options COL Edward D. Arrington, MD CDR John-Paul Rue, MD Lt Col. Eric W. Fester, MD Gregory C. Fanelli, MD
1505-1510	Recommendations and Treatment Outcomes for Patellofemoral Articular Cartilage Defects with Autologous Chondrocyte Implantation (ACI): Prospective Evaluation		

Thursday, December 17, 2009

*0630-0800 **Combat Extremity Surgery Course**
(Please see page 39 for course details.)

Concurrent Session V - Foot & Ankle (Tapa Ballroom 3)

Moderators: LTC Kevin L. Kirk, DO, Army
CDR John J. Keeling, MD, Navy
Charles Saltzman, MD, Civilian Moderator

0700-0705	Introduction	0720-0725	Epidemiology of Medial and Syndesmotic Ankle Sprain at the United States Military Academy (K) (F) <i>CPT Brian R. Waterman, MD</i> William Beaumont Army Medical Center, El Paso, TX
0705-0710	Post-Operative Management Following Anatomical Reconstruction of the Lateral Ankle Ligaments: A Randomized Prospective Trial (K) <i>LT Scott M. Tintle, MD</i> National Naval Medical Center, Bethesda, MD	0725-0730	Peroneal Tendon Injuries with Lateral Ankle Instability (K) <i>CPT Alison Kinsler, MD</i> Tripler Army Medical Center, Honolulu, HI
0710-0715	The Incidence of Plantar Fasciitis in Active Duty United States Military Servicemembers (K) (F) <i>CPT Danielle Scher, MD</i> William Beaumont Army Medical Center, El Paso, TX	0730-0740	DISCUSSION
0715-0720	Endoscopic Resection of Symptomatic Os Trigonum	0740-0745	Painful Bone Marrow Edema Syndrome of the Foot and Ankle (K) <i>MAJ Justin D. Orr, MD</i> Duke University Medical Center, Durham, NC
		0745-0750	Isolated Spring Ligament Failure as a Cause of Adult Acquired Flatfoot Deformity (K) <i>MAJ Justin D. Orr, MD</i> Duke University Medical Center, Durham, NC

0750-0755	Correction of Severe Acquired Flexible Flatfoot with Rotational and Medializing Calcaneal Osteotomy Along with Flexor Digitorum Longus Transfer (K) <i>LT Margaret Ann Harvey, DO</i> National Capital Consortium, Bethesda, MD		Walter Reed Army Medical Center, Washington, DC
		0735-0740	DISCUSSION
		0740-0755	Case Presentations <i>Theodore W. Parsons III, MD, FACS</i> Henry Ford Hospital, Detroit, MI
0755-0800	Reconstruction of Massive Midfoot Bone Loss Due to Blast Injury (K) (F) <i>CPT Brian R. Waterman, MD</i> William Beaumont Army Medical Center, El Paso, TX	0755-0800	Efficacy of Adjuvant Therapy in Extending Surgical Margins as Measured by Immediate Osteocyte Death <i>Theodore W. Parsons III, MD, FACS</i> Henry Ford Hospital, Detroit, MI
0800-0805	Effect of Immobilization Devices on Brake Response Time (K) <i>CPT Jeremy K. Rush, MD</i> Brooke Army Medical Center, Houston, TX	0800-0805	Immunohistochemical Analysis of Chordoma Targeting B7H3 and HMW-MAA <i>MAJ Andrew J. Schoenfeld, MD</i> William Beaumont Army Medical Center, El Paso, TX
0805- 0815	DISCUSSION	0805-0810	High Sacrectomy for Recurrent Rectal Cancer <i>MAJ Joseph F. Alderete, MD</i> Brooke Army Medical Center, Houston, TX
0815-0900	Emerging Trends in Management of Ankle Arthritis <i>Charles Saltzman, MD</i> Professor and Chairman of Orthopedic Surgery, University of Utah, Salt Lake City, UT	0810- 0815	DISCUSSION
0900-0930	Military Relevant Case Presentations	0815-0820	Titanium Long Bone Segmental Defect Replacement: Initial Experience and 30 Year Follow Up <i>MAJ Joseph F. Alderete, MD</i> Brooke Army Medical Center, Houston, TX
0930-0945	BREAK	0820-0825	Attenuation of Rat Tibial Osteomyelitis Using Ciprofloxacin-Bisphosphonate Carried on Nanoparticles of Hydroxyapatite (K) <i>CPT Uma E. Ramadorai, DO</i> Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA
Concurrent Session VI – Tumor/Infection (Tapa Ballroom 2)			
Moderators: MAJ Benjamin K. Potter, MD, Army LCDR Luke Balsamo, MD, Navy Col. Spencer J. Frink, MD, Air Force Theodore W. Parsons III, MD, FACS, Civilian Moderator			
0700-0725	Musculoskeletal Oncology Pitfalls for the Non-Tumor Surgeon <i>MAJ Benjamin K. Potter, MD</i> Walter Reed Army Medical Center, Washington, DC	0825-0830	The Effects of Localized Hypothermia on Bacterial Colony Counts in Soft Tissue Infections in Rats (K) <i>LT Jonathan M. Roth, MD</i> Naval Medical Center Portsmouth, Portsmouth, VA
0725-0730	Negative Pressure Wound Therapy in a Contaminated Musculoskeletal Wound Survival Model: Is NPWT Effective on Staphylococcus Aureus, Too? (K) <i>CPT Daniel J. Sinner, MD</i> United States Institute of Surgical Research, Houston, TX	0830- 0835	DISCUSSION
		0835-0845	Case Presentations <i>MAJ Benjamin K. Potter, MD</i> Walter Reed Army Medical Center, Washington, DC
0730-0735	Comparison of Instillation Solutions Used in Conjunction with Negative Pressure Wound Therapy in a Contaminated Open Fracture Wound Model (F) <i>MAJ Scott M. Waterman, MD</i>	0845-0850	Evaluation of Prognostic Factors for Soft Tissue Sarcomas of the Extremities and Pelvis: Findings from the DoD ACTUR Database (K) <i>CPT Chadwick B. Hampton, MD</i> Walter Reed Army Medical Center, Washington, DC

0850-0855	High-grade Soft Tissue Sarcomas of the Extremities: Does Surgical Margin Affect Survival? <i>LTC Bahtiyar Demiralp, MD</i> Gulhane Military Medical Academy, Ankara, Turkey	1020-1025	Results of Single Incision Percutaneous Epiphysiodesis of the Lower Extremity (K) <i>CPT Ryan Patrick Foley, MD</i> Madigan Army Medical Center, Tacoma, WA
0855-0900	Neurogenic Tumors of the Pelvis: Oncologic and Functional Outcome for a Standardized Team Approach <i>MAJ Joseph F. Alderete, MD</i> Brooke Army Medical Center, Houston, TX	1025-1030	Gait Outcomes of Patients with Severe Slipped Capital Femoral Epiphysis (SCFE) Following Treatment by Flexion-Rotation Osteotomy (K) <i>MAJ Matthew Posner, MD</i> William Beaumont Army Medical Center, El Paso, TX
0900- 0905	DISCUSSION	1030-1040	DISCUSSION
0905-0930	Musculoskeletal Lesions: What the General Orthopaedic Surgeon Should Treat <i>Theodore W. Parsons III, MD, FACS</i> Henry Ford Hospital, Detroit, MI	Moderator:	Lt Col. Eric Ritchie, MD
0930-0945	BREAK	1040-1045	Negative Pressure Wound Therapy in Children: Expanded Indications (K) <i>CPT Dhruvi Contractor, MD, MPH, MA</i> Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA
Concurrent Session VII – Pediatrics (Tapa Ballroom 3)			
Moderators:	COL M. Shaun Machen, MD, Army LCDR Eric D. Shirley, MD, Navy Lt Col. Eric Ritchie, MD, Air Force Peter M. Stevens, MD, Civilian Moderator		
0945-1005	Guided Growth for Angular Deformity Correction: Current Concepts <i>Peter M. Stevens, MD</i> PCMC Pediatric Orthopedics, Salt Lake City, UT	1045-1050	Coagulopathic States in Pediatric Spine Patients (K) <i>CPT Nathan Lee Frost, MD</i> Madigan Army Medical Center, Tacoma, WA
Moderator:	COL M. Shaun Machen, MD		
1005-1010	Post-Traumatic Valgus Deformity in Pediatric Proximal Tibia Fractures (K) <i>CPT Duke Yim, MD</i> Tripler Army Medical Center, Honolulu, HI	1050-1055	A Prospective Analysis of a Pediatric Back Pain Treatment Algorithm (K) <i>CPT Jose A. Serrano, MD</i> BAMC, San Antonio, TX
1010-1015	Complications of Medial Malleolar Screw Hemiepiphysiodesis for Pediatric Ankle Valgus (K) <i>CPT Ivan Josef Antosh, MD</i> Madigan Army Medical Center, Tacoma, WA	1055-1100	A New Reduction Technique for Bayoneted Wrist Fractures in Children: A Biomechanical Assessment and Four Year Clinical Evaluation (K) <i>MAJ Josef K. Eichinger, MD</i> Madigan Army Medical Center, Tacoma, WA
1015-1020	Effectiveness of a Single Incision Percutaneous Epiphysiodesis Technique for Treating Leg Length Discrepancy (K) <i>CPT Sean P. Kearney, MD, MPH</i> Madigan Army Medical Center, Tacoma, WA	1100-1105	Safety of Percutaneous Heel Cord Tenotomy Performed Under General Anesthesia on Infants with Idiopathic Clubfoot (K) <i>CPT Stephen A. Parada, MD</i> Madigan Army Medical Center, Tacoma, WA
		1105-1115	DISCUSSION
		1115-1120	Trochanteric Entry IM Rods Skeletally Immature Patients: Rationale and Technique <i>Peter M. Stevens, MD</i> PCMC Pediatric Orthopedics, Salt Lake City, UT

1120-1125 Subtalar Arthroeresis: Why and How
Peter M. Stevens, MD
PCMC Pediatric Orthopedics, Salt Lake
City, UT

1125-1130 DISCUSSION

**Concurrent Session VIII – Basic Science
(Tapa Ballroom 2)**

Moderators: Joseph C. Wenke, PhD, Army
LCDR Christopher B. Dewing, MD, Navy
Lt Col. Ky M. Kobayashi, MD, Air Force
Bryan W. Cunningham, MSc, PhD, Civilian
Moderator

0945-0950 Introduction

0950-1005 Does Biomechanical and Animal Modeling
Effectively Predict the Clinical Situation? A
Review of Preclinical Testing Methodolo-
gies
Bryan W. Cunningham, MSc, PhD

1005-1010 DISCUSSION

1010-1025 Use of Animal Models to Help Solve Ortho-
paedic Trauma Problems
Joseph C. Wenke, PhD
US Army Institute of Surgical Research,
Fort Sam Houston, TX

1025-1030 DISCUSSION

1030-1035 Biologic Response to Orthopaedic Sutures:
A Histologic Study in a Rabbit Model **(K)**
CPT Leah M. Ochoa, MD
William Beaumont Army Medical Center,
El Paso, TX

1035-1040 Multi-Stranded Suture Constructs Improve
the Biomechanical Properties of Metal But-
ton Suture Fixation **(K)**
Paul A. Stickels, MD
Naval Medical Center San Diego, San
Diego, CA

1040-1045 The Effect of Valving on the Structural
Integrity of Fiberglass Casts **(K)**
LCDR Colin V. Crickard, MD
Naval Medical Center San Diego, San
Diego, CA
**Presented by LCDR Anthony I. Riccio, MD*

1045-1050 DISCUSSION

1050-1055 Incorporation of Antibiotics Into a Calcium
Phosphate Bone Void Filler
Sahil Jalota, PhD
Skeletal Kinetics, Cupertino, CA
**Presented by COL(Ret)/Professor B.Hud-
son Berrey, MD*

1055-1105 Bacterial Adherence to Titanium Versus
Bioabsorbable Tibial Interference Screws
Bacterial Adherence to High Tensile-
Strength Suture: A Bioluminescent In Vitro
Model
Bacterial Adherence to Suture Materials: A
Bioluminescent In Vitro Analysis **(K)**
CPT Brendan D. Masini, MD
US Army Institute of Surgical Research,
Fort Sam Houston, TX

1105-1110 DISCUSSION

1110-1115 Osteogenic Gene Expression Correlates
with the Development of Heterotopic Ossi-
fication in Traumatic War Wounds **(K) (F)**
CPT Korboi N. Evans, MD
Walter Reed Army Medical Center, Wash-
ington, DC

1115-1120 TGFβ3 as a Predictor of Heterotopic Ossi-
fication **(K) (F)**
LCDR Jared A. Vogler, DO
National Institutes of Health, National Insti-
tute of Arthritis and Musculoskeletal and
Skin Diseases, Bethesda, MD

1120-1125 Fused Deposition Modeling of Polymethyl-
methacrylate for Use in Patient-Specific
Reconstructive Surgery **(K)**
MAJ Matthew Posner, MD
William Beaumont Army Medical Center,
El Paso, TX

1125-1130 DISCUSSION

Friday, December 18, 2009

*0800-1600 **Combat Extremity Surgery Course and Cadaver Lab**
(Please see page 39 for course details.)

Concurrent Session IX – Hand Surgery (Tapa Ballroom 3)

Moderators: COL Gerald L. Farber, MD, Army
CDR Eric P. Hofmeister, MD, Navy
Lt Col. Paul D. Gleason II, MD, Air Force
Alexander Y. Shin, MD, Civilian Moderator

0800-0830 Guest Lecture: Vascular Injuries
L. Andrew Koman, MD
Wake Forest University School of Medicine, Winston-Salem, NC

0830-0835 DISCUSSION

0835-0840 Bioabsorbable Interference Screw Fixation of Distal Biceps Ruptures Through a Single Anterior Incision **(K)**
Major Will Eardley, MB ChB MSc MRSC(Ed) RAMC
Academic Department of Military Surgery and Trauma, Catterick Garrison, North Yorkshire

0840-0845 Effectiveness of the Saline Load Test in Diagnosis of Traumatic Elbow Arthroplasties **(K)**
CPT Todd W. Feathers, MD
Brooke Army Medical Center, Houston, TX

0845-0850 Biomechanical and Motion Analysis of a Transverse Olecranon Fracture Model: When Should Tension Band Wire Fixation Be Abandoned? **(K)**
LT James E. Hammond, DO, ATC
Naval Medical Center Portsmouth, Portsmouth, VA

0850-0855 Proximity of Brachial Artery to Anterior Ulna: Implications for Olecranon Fixation
CDR Jerome G. Enad, MD
Naval Hospital Camp Pendleton, Camp Pendleton, CA
**Presented by LCDR Thomas Douglas, MD*

0855-0900 Treatment of Distal Radius Fractures Using a Locking Radial Stabilization Plate—A Preliminary Report **(K)**
CPT Danielle Scher, MD
William Beaumont Army Medical Center, El Paso, TX

0900-0905 DISCUSSION

0905-0910 Progenitor Cells Derived from Traumatized Muscle as Trophic Mediators in a Novel Peripheral Nerve Graft **(K)**
MAJ Jaime D. Bulken-Hoover, MD
Walter Reed Army Medical Center, Germantown, MD

0910-0915 Arm Pain and Ulnar Neuropathy with Pectoralis Major Rupture: An Anatomic Study and Series of 4 Cases **(K)**
Lt Col. William Hallier, MD
Wilford Hall Medical Center, Lackland AFB, TX

0915-0920 Endoscopic Cubital Tunnel Release: A Cadaveric Study **(K)**
CPT Jeffrey Knox, MD
Tripler Army Medical Center, Honolulu, HI

0920-0925 Electrodiagnostic and Physical Exam Evaluation for Ulnar Neuropathy in Ironman Triathletes Before and After a Three Hour Bicycle Ride Using Aerobars **(K)**
Capt. James Bales, MD
Wilford Hall Medical Center, San Antonio, TX

0925-0930 Carpal Alignment After Closed Scaphoid Fracture, and the Effect of Operative and Non-Operative Treatment on Residual Carpal Deformity **(K)**
CPT Mary Foley Finn, MD
University of South Carolina, Columbia, SC

0930-0935 Free Functioning Gracilis Muscle from a Paralyzed Lower Extremity Transferred for Elbow Flexion **(K)**
LT Matthew Wendt, MD
Mayo Clinic, Rochester, MN

0935-0940 DISCUSSION

0940-0955 **BREAK**

0955-1025 Guest Lecture: Current Concepts on Scaphoid Non-Union Surgery
Alexander Y. Shin, MD
Mayo Medical School, Rochester, MN

1025-1030 DISCUSSION

1030-1100 Panel Discussion
Management of Scapholunate Injuries

1100-1300 **BREAK – LUNCH**

**Concurrent Session X – Spine
(Tape Ballroom 2)**

Moderators: LTC John G. Devine, MD, Army
 CDR Bryan A. Fox, MD, Navy
 Maj. Joel W. Jenne, MD, Air Force
 Paul C. McAfee, MD, Civilian Moderator

		0915-0925	DISCUSSION
		0925-0930	Military Guest Lecture: Principles of Adult Deformity Correction <i>CDR Bryan A. Fox, MD</i> Chief, Spine Surgery, NMCP
		0930-0935	DISCUSSION
0800-0805	A Comprehensive Analysis of 80 Cases of Failed Cervical Instrumentation <i>MAJ David Gloystein, MD</i> Darnall Army Medical Center, Fort Hood, TX	0935-0950	BREAK
		0950-0955	The Use of Osteogenic Protein 1 (OP1) in Anterior Cervical Discectomy and Fusion (K) <i>CPT Justin Fowler, MD</i> William Beaumont Army Medical Center, El Paso, TX
0805-0810	Rate of Return to Active Duty After Single Level Interbody Lumbar Fusion: A 5 Year Retrospective Review (F) <i>LT Ryan Ponton, MD</i> Naval Medical Center San Diego, San Diego, CA <i>* Presented by LCDR Anthony I. Riccio, MD</i>	0955-1000	Biomechanical Importance of the Anterior Longitudinal Ligament in a Corpectomy Model (K) <i>CPT Melvin Helgeson, MD</i> Walter Reed Army Medical Center, National Naval Medical Center, Washington, DC
0810-0815	Spinal Fractures in Current Military Deployments (K) (F) <i>Major Will Eardley, MB ChB MSc MRCS (Ed) RAMC</i> Academic Department of Military Surgery and Trauma, Catterick Garrison, North Yorkshire	1000-1005	Combined Traumatic Atlanto-Occipital Dislocation and Atlanto-Axial Instability: A Case Series and Review of the Literature (K) <i>Capt. Michael C. Tompkins, DO</i> Wilford Hall Medical Center, San Antonio, TX <i>*Presented by Capt. Thomas Kryzak, MD</i>
0815-0820	Multilevel Anterior Cervical Discectomy and Fusion Using Polyetheretherketone Interbody Spacers and Recombinant Human Bone Morphogenetic Protein-2: A Review of 20 Patients (K) <i>CPT Matthew P. Link, MD</i> Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA	1005-1010	CT and MRI in the Identification of Occult Injuries to the Cervical Spine <i>MAJ Andrew J. Schoenfeld, MD</i> William Beaumont Army Medical Center, El Paso, TX
0820-0825	The Ventral Lamina and Superior Facet Rule: The Key to Accurate Placement for Thoracic Pedicle Screws (K) <i>LTC Ronald Lehman, MD</i> Walter Reed Army Medical Center, Washington, DC <i>*Presented by CPT Haines Paik, MD</i>	1010-1015	Structures at Risk from Pedicle Screws in the Proximal Thoracic Spine: Computed Tomographic (CT) Evaluation with Magnetic Resonance Imaging (MRI) Correlation (K) <i>LT Mario Cardoso, MD</i> Walter Reed Army Medical Center, Washington, DC <i>*Presented by CPT Melvin Helgeson, MD</i>
0825-0840	DISCUSSION	1015-1025	DISCUSSION
0840-0915	Guest Lecture: Posterior Dynamic Stabilization <i>Paul C. McAfee, MD</i> Associate Professor of Orthopedics and Neurosurgery Chief, Spinal Surgery, St Joseph's Hospital Baltimore, MD	1025-1055	Failed Back Surgery Syndrome Symposium <i>LTC John G. Devine, MD</i> Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA
		1055-1100	DISCUSSION
		1100-1300	BREAK – LUNCH

**Concurrent Session XI – Total Joint
(Tapa Ballroom 3)**

Moderators: COL Gregory Y. Lee, MD, Army
CDR David R. Whiddon, MD, Navy
Lt Col. James A. Keeney, MD, Air Force
Michael A. Mont, MD, Civilian Moderator

1300-1330 Hip Resurfacing: Past, Present and Future
Michael A. Mont, MD
Sinai Hospital of Baltimore, Baltimore, MD

Moderator: COL Gregory Y. Lee, MD

1330-1335 Comparison of Bacterial Adherence in Titanium and Tantalum Acetabular Implants
(K)
CPT Thomas C. Dowd, MD
Brooke Army Medical Center, Houston, TX

1335-1340 The Use of Patient Specific Implants and Jigs in Unicompartmental Knee Arthroplasty
(K)
LT Christopher S. Smith, MD
University of Florida, Jacksonville, FL

1340-1345 Accuracy of Digital Templating in Total Hip Arthroplasty– How Good Are We?
LCDR David R. Whiddon, MD
Naval Medical Center Portsmouth, Portsmouth, VA

1345-1350 Primary Hip and Knee Replacement: “Are We All Operating on the Same Patients, Even at the Same Institution?”
(K)
LT Paul K. Herickhoff, MD
University of Iowa Hospitals and Clinics, Iowa City, IA

1350-1355 Prospective Analysis of Hip Arthroscopy
(K)
LCDR Paul G. Shupe, MD
Naval Medical Center San Diego, San Diego, CA

1355-1405 DISCUSSION

Moderator: Lt Col. James A. Keeney, MD

1405-1410 Effects of Extended Release Epidural Morphine on Outcomes Following Total Hip Arthroplasty
(K)
LT Timothy S. Frazier, MD
Naval Medical Center Portsmouth, Portsmouth, VA

1410-1415 Impact of Comorbidities on Functional Status for Primary Knee Arthroplasty Patients
(K)

1415-1420

1420-1425

1425-1430

1430-1440

1440-1455

1455-1500

1500-1515

1515-1530

1535-1540

1540-1555

1555-1600

LT Timothy S. Frazier, MD
Naval Medical Center Portsmouth, Portsmouth, VA

Return to Driving After Less Invasive Total Knee Arthroplasty
(K)
CPT Jason Davis, MD
Brooke Army Medical Center, Houston, TX

Pre-Operative Predictors of Length of Hospital Stay and Discharge Disposition Following Primary Total Knee Arthroplasty
(K)

CPT David A. Crawford, MD
Madigan Army Medical Center, Tacoma, WA

Patient Compliance with Total Knee Arthroplasty Follow-up in a Military Healthcare System
(K)

Maj. Ben Carter Robinson, MD
Wilford Hall Medical Center, San Antonio, TX

**Presented by Capt. Kevin S. Borchard, MD*

DISCUSSION

Correction of Deformity and Balancing in Total Knee Arthroplasty
Michael A. Mont, MD
Sinai Hospital of Baltimore, Baltimore, MD

DISCUSSION

BREAK

Techniques to Prevent Infection in Total Knee Arthroplasty
Michael A. Mont, MD
Sinai Hospital of Baltimore, Baltimore, MD

DISCUSSION

Osteonecrosis: Saving the Femoral Head
Michael A. Mont, MD
Sinai Hospital of Baltimore, Baltimore, MD

DISCUSSION

**Concurrent Session XII – Amputation Rehabilitation
(Tapa Ballroom 2)**

Moderator: LTC Daniel W. White, MD

1300-1310 Introduction and Amputee Rehab Video
LTC Daniel W. White, MD
President, Society of Military Orthopaedic Surgeons

1310-1320 Transport of the Injured Warrior
Lt Col. James A. Keeney, MD
Wilford Hall Medical Center, San Antonio, TX

1320-1335	<p>Armed Forces System of Excellence <i>COL James R. Ficke, MD</i> Brooke Army Medical Center, San Antonio, TX</p>	1525-1530	<p>Prevalence of Delayed Amputations During the Current Conflicts in Afghanistan and Iraq (K) (F) <i>CPT Daniel J. Stinner, MD</i> United States Army Institute of Surgical Research, Houston, TX</p>
1335-1355	<p>Walter Reed AMC Experience <i>LTC Scott Shawen, MD</i> Walter Reed Army Medical Center, Washington, DC</p>	1530-1535	<p>Peripheral Nerve Injury Following Combat Extremity Trauma – Does Plantar Sensation Return? (K) (F) <i>MAJ Arul Ramasamy, MD</i> Academic Department of Military Surgery and Trauma, Birmingham, UK</p>
1355-1415	<p>Brooke AMC Experience <i>LTC Kevin L. Kirk, DO</i> Brooke Army Medical Center, San Antonio, TX</p>	1535-1540	<p>Subacute Use of Reverse Sural Artery Flap for Reconstruction of War-Related Blast Injuries of the Foot and Ankle (K) (F) <i>MAJ Justin D. Orr, MD</i> Duke University Medical Center, Durham, NC</p>
1415-1435	<p>NH San Diego Experience <i>COL James R. Ficke, MD</i> Brooke Army Medical Center, San Antonio, TX</p>	1540-1545	<p>Limb-Socket Kinematics of Bone Bridging and Non-Bone Bridging in Wartime Trans-tibial Amputations (F) <i>CPT Christopher Tucker, MD</i> National Capital Consortium, Bethesda, MD <i>*Presented by LTC Kevin L. Kirk, DO</i></p>
1435-1450	<p>Amputee Research <i>MAJ Benjamink K. Potter, MD</i> Walter Reed Army Medical Center, Washington, DC</p>	1545-1550	<p>Gait Parameter Differences Between Standard and Ertl Trans-tibial Amputees (K) <i>LT Todd Fellars, MD</i> Naval Medical Center San Diego, San Diego, CA</p>
1450-1500	<p>Amputee Adaptive Sports Program <i>COL Jeffrey N. Davila, MD</i> Walter Reed Army Medical Center, Washington, DC</p>	1550-1600	<p>DISCUSSION</p>
1500-1515	<p>BREAK</p>		
1515-1520	<p>Association of Nortriptyline with Heterotopic Ossification in Patient with Combat-Related Polytrauma (K) (F) <i>LCDR Kennett Moses, MD</i> National Naval Medical Center, Bethesda, MD <i>*Presented by CPT Frederick P. O'Brien III, MD</i></p>		
1520-1525	<p>Outcomes Associated with Internal Fixation of Long Bone Fractures Proximal to Ipsilateral Traumatic Amputations (K) <i>MAJ Wade Gordon, MD</i> Walter Reed Army Medical Center, Washington, DC <i>*Presented by CPT Frederick P. O'Brien III, MD</i></p>		