



# 2017 INTERNATIONAL TRAUMA CARE FORUM

**Wednesday, October 11, 2017**  
(West Meeting Room 118-120)

- 6:00 am **Speaker Ready Room**  
(West Meeting Room 103)
- 6:30 am **Registration**  
**Continental Breakfast**  
(West Meeting Room Lobby – Outside Meeting Room)
- 7:30 am **Welcome**  
*Peter V. Giannoudis, MD, FACS, FRCS, Program Chair*

7:35 –  
8:15 am

## SYMPOSIUM 1: SURGICAL TECHNIQUES: HOW I DO IT

Moderators: *Cyril Mauffrey, MD, FACS, FRCS*  
*Tim Chesser, FRCS*

- 7:35 am **Overview**  
*Cyril Mauffrey, MD, FACS, FRCS*
- 7:37 am **Spino-Pelvic Injuries**  
*Enrique Guerado, MD, PhD*
- 7:47 am **Acetabulum Articular Impaction**  
*Peter V. Giannoudis, MD, FACS, FRCS*
- 7:57 am **Pipkin Fracture**  
*Amir M. Matityahu, MD*
- 8:07 am Discussion

Key:  $\Delta$  = presentation was funded by an OTA administered grant  
Names in bold = Presenter

8:15 – 8:47 am **PAPER SESSION 1: PELVIS/ACETABULUM**

Moderators: *Christopher G. Moran, MD, FRCS*  
*Fernando De La Huerta, MD*

8:15 am (p. 87) PAPER #28 **Hemorrhage Control and Transfusion Requirements of Pelvic Ring Fractures Attending a Major Trauma Centre for Emergency and Definitive Care: Does Early Aggressive Resuscitation Influence Mortality at 1 Year?**  
*James Bassett, MBBS; David Slattery, MBBS; Greg Pickering, MBBS; Anthony Ward, MBBS; Mehool R. Acharya; Tim Chesser, MBBS*

8:21 am (p. 88) PAPER #29 **Native Hip Survival and Long-Term Patient-Reported Outcomes following Acetabular Fracture**  
*Chloe E.H. Scott, MD, MSc; Timothy O. White, MD; Stuart Goudie; John Annan, MBBS; Deborah MacDonald, BSc; John F. Keating, MD*

8:27 am (p. 89) PAPER #30 **Reduced Survival for Uncemented Compared to Cemented Total Hip Arthroplasty after Failed Open Reduction and Internal Fixation for Acetabular Fractures**  
*John Clarke-Jenssen, MD; Marianne Westberg, PhD; Olav Roise, PhD, MD; Tone Bere, PhD; Stein A. Ovre, PhD, MD; Ingunn Silberg, MD; Jan Erik Madsen*

8:33 am (p. 90) PAPER #31 **Navigated Screw Osteosynthesis for Pelvic Fractures Using A Hybrid-Operating Room**  
*Peter H. Richter, MD; Florian T. Gebhard, MD; Konrad Schuetze, MD*

8:39 am Discussion

8:44 – 9:00 am **SIGN SCHOLAR PRESENTATIONS**

8:44 am **The Impact of the SIGN Pelvic Fracture Care Program in the Southern Philippines Medical Center**  
*Kristoffer Roland U. Roa, MD*

8:52 am **Treatment of the Intra-Articular and Extra-Articular Distal Femoral Fractures Using SIGN Nail at Kumi Orthopaedic Center in Uganda**  
*John Ekure, MD*

9:00 –  
9:40 am

**PAPER SESSION 2:  
BEST OF THE BEST**

Moderators: *William M. Ricci, MD*  
*Thomas A. (Toney) Russell, MD*  
*Ian Winson, MD*

9:00 am  
(p. 91)  
PAPER #32

**An Algorithm Can Predict Blood Product Transfusion Requirements in First 24 Hours and 30-day Survival After Pelvic Fracture:**

**5-year Series of 589 Patients**

*Pierre Hubert Michael Pechon, MBBS; Luke Rothwell, MBBS;*  
*John Hardman, MBBS; Angus Lewis, MBBS; Jasvinder Daurka, MBBS*

9:06 am  
(p. 92)  
PAPER #33

**Managing Soft Tissues in Severe Lower Limb Trauma in an Aging Population**

*Tim Noblet; Phillipa Jackson; Patrick Foster, MBBS; Martin Taylor, MBBS;*  
*Paul J. Harwood, MBBS; Jay Wiper*

9:12 am  
(p. 93)  
PAPER #34

**3D-Printed Titanium Cages Combined with Masquelet Technique for Reconstruction of Bone Defects**

*Kevin Dorland Tetsworth, MD, FRACS; Vaida Glatt, PhD*

9:18 am  
(p. 94)  
PAPER #35

**Management and Outcomes of the Treatment of Intracapsular Neck of Femur Fractures in Young Patients**

*Michalis Panteli, MD; Ippokratis Pountos; Anthony Howard;*  
*Peter V. Giannoudis, MD*

9:24 am  
(p. 95)  
PAPER #36

**Risk Factors for Fibular Nail Failure in the Management of Unstable Fractures of the Ankle Joint**

*Tom Henry Carter, MBBS; Katrina Roxanne Bell, MBBS;*  
*Samuel Peter Mackenzie, MBBS; Marcus A. Hollyer, BSc; Emma Chelsea Gill, BSc;*  
*Andrew David Duckworth, MD, PhD; Timothy O. White, MD*

9:30 am

Discussion

9:40 am

Refreshment Break



**SYMPOSIUM 2:  
GUEST NATION  
(UNITED KINGDOM)**

9:50 –  
10:40 am

**Thromboprophylaxis an Update of Current Practice:  
Can We Reach a Consensus?**

Moderators: *William M. Ricci, MD*  
*Keith Willett, MD, FRCS*

- 9:50 am **Overview**  
*William M. Ricci, MD*
- 9:55 am **Thromboprophylaxis after Pelvic/Acetabulum Fractures**  
*David C. Teague, MD*
- 10:05 am **Thromboprophylaxis after Hip Fractures**  
*Henry Broekhuysse, MD*
- 10:15 am **Thromboprophylaxis after Knee Fractures**  
*John F. Keating, FRCSEd*
- 10:25 am **Thromboprophylaxis after Ankle/Foot Fractures**  
*Timothy O. White, MD, FRCS*
- 10:35 am Discussion

10:40 –  
11:12 am

**PAPER SESSION 3:  
FOOT AND ANKLE**

Moderators: *Victor A. de Ridder, MD, PhD*  
*Hans-Christoph Pape, MD, FACS*

- 10:40 am  
(p. 96)  
PAPER #37 **Channel-Assisted Minimally Invasive Repair of Acute Achilles Tendon Rupture**  
*Hua Chen, MD, PhD; Peifu Tang, MD*
- 10:46 am  
(p. 97)  
PAPER #38 **Clinical and Functional Outcome following Distal Tibial Fracture Treated by Circular External Fixation**  
*Vasileios Giannoudis; Emma Ewins; Patrick Foster, MBBS; Martin Taylor, MBBS; Paul J. Harwood, MBBS*
- 10:52 am  
(p. 98)  
PAPER #39 **Medial Malleolus Fixation in Combination with Fibular Intramedullary Nailing: Are We Wasting our Time?**  
*Tom Henry Carter, MBBS; Samuel Peter Mackenzie, MBBS; Katrina Roxanne Bell, MBBS; Emma Chelsea Gill, BSc; Marcus A. Hollyer, BSc; Andrew David Duckworth, MD, PhD; Timothy O. White, MD*

The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or medical device he or she wishes to use in clinical practice.

International Trauma Care Forum – WEDNESDAY, OCTOBER 11, 2017

10:58 am **Clinical and Radiographic Outcomes of Talar Fractures**  
(p. 99) *Paul H.C. Stirling, MBBS; Samuel Peter Mackenzie, MBBS; Robbie Ray;*  
PAPER #40 *Nicholas David Clement, MBBS; Conor McCann; John F. Keating, MD*

11:04 am Discussion

**SPECIAL INTEREST LECTURE**  
**Minimal Invasive Approaches to Calcaneal Fractures:**  
**What Have We Learned?**  
*Ian Winson, MD*

11:12 –  
11:25 am

11:30 am-12:30 pm **INTERNATIONAL INDUSTRY LUNCH SYMPOSIUM**  
*West Ballroom CD* **Zimmer Biomet**  
(No CME credits offered)  
Moderators: *Steven A. Olson, MD*  
*Peter V. Giannoudis, MD, FACS, FRCS*

11:30 am **Augmented Fixation Advances in Trauma**  
Faculty: *Thomas A. (Toney) Russell, MD*  
*John A. Scolaro, MD*

*West Ballroom CD*

**SYMPOSIUM**

12:35 –  
1:50 pm **JOINT SESSION WITH BASIC SCIENCE FOCUS FORUM-  
JOINT IMPACT INJURIES OF THE LOWER EXTREMITY**

Moderators: *Peter V. Giannoudis, MD, FACS, FRCS*  
*Joseph Borrelli Jr., MD*

12:35 pm **Overview**  
*Peter V. Giannoudis, MD, FACS, FRCS*

12:40 pm **The Basic Science/Molecular Make-up and Response to Compression  
of Articular Cartilage**  
*Joseph Borrelli Jr., MD*

12:52 pm **The Role of Residual Articular Incongruity and Joint Instability  
in the Progression of PTOA?**  
*Steven A. Olson, MD*

1:04 pm **Modulation of Cartilage's Response to Injury:  
Can Chondrocyte Apoptosis be Reversed?**  
*Peter V. Giannoudis, MD, FACS, FRCS*

1:16 pm **Effectiveness of Cellular and Growth Factors for the Treatment of  
Injured Articular Cartilage**  
*Emil H. Schemitsch, MD*

- 1:28 pm **Current Tissue Engineering Approaches to Regenerate Cartilage**  
*James P. Stannard, MD*
- 1:36 pm Discussion
- 1:50 pm Break / Walk Back to ITCF Room (*West Meeting Room 118-120*)

2:00 –  
2:48 pm

**PAPER SESSION 4:  
FEMORAL FRACTURES**

Moderators: *Paul Duffy, MD*  
*Andrew David Duckworth, BSc, MSc, FRCSEd*

- 2:00 pm **Δ Validity of Utilizing the RUST Scoring System in Radiographic Evaluation of Femoral Shaft Fractures**  
(p. 100)  
PAPER #41  
*Devin J. Conway, Doctoral Student; Billy Thomson Haonga, MD; Edmund Eliezer, MD; Saam Morshed, MD, PhD; David Shearer, MD, MPH*
- 2:06 pm **Consolidation in Femoral Fractures: A Cohort Study in Patients Exposed and Not Exposed to Bisphosphonates**  
(p. 101)  
PAPER #42  
*Jorge D. Barla, MD; Francisco Jose Nally, MD; Guido Sebastian Carabelli, MD; Carlos F. Sancineto, MD*
- 2:12 pm **Healing of Atypical Subtrochanteric Femur Fractures after Cephalomedullary Nailing: Which Factors Predict Union?**  
(p. 102)  
PAPER #43  
*Jae-Woo Cho, MD; Chang-Wug Oh, MD, PhD; Frankie Leung, MD, PhD; Kichul Park, MD; Merng Koon Wong; Ernest Kwek, MD; Jong-Keon Oh, MD, PhD; Beom Soo Kim, MD*
- 2:18 pm Discussion
- 2:24 pm **Δ Does the Choice of Antegrade or Retrograde Approach to Intramedullary Nailing of Diaphyseal Femur Fractures Affect Progression of Knee Range of Motion in Settings that Lack Formal Physiotherapy?**  
(p. 103)  
PAPER #44  
*Devin J. Conway, Doctoral Student; Billy Thomson Haonga, MD; Edmund Eliezer, MD; Saam Morshed, MD, PhD; David Shearer, MD, MPH*
- 2:30 pm **Management and Outcomes of Periprosthetic Fractures of the Femur**  
(p. 104)  
PAPER #45  
*Gunasekaran Kumar, MD, FRCS; Amy Berger, MS*
- 2:36 pm **Intramedullary Nailing for Atypical Femoral Fracture with Excessive Anterolateral Bowing**  
(p. 105)  
PAPER #46  
*Young-Chang Park, MD; Hyung Keun Song; Xuan Zheng; Kyu-Hyun Yang*
- 2:42 pm Discussion

Δ OTA Grant

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**SYMPOSIUM 3:**

**PATELLA FRACTURES–**

**MY PREFERRED METHOD OF TREATMENT**

2:48 –  
3:13 pm

Moderators: *David J. Hak, MD*  
*Sushrut Babhulkar, MS ORTH, MCh ORTH*

2:48 pm **Comminuted Patella Fractures**  
*Daniel S. Horwitz, MD*

2:58 pm **Periprosthetic Patella Fractures**  
*Nigel T. Rossiter, FRCSEd*

3:08 pm Discussion

**KEYNOTE LECTURE**

**Universal Care in Trauma: The International Perspective**

*Keith Willett, MD, FRCS*

3:13 –  
3:33 pm

Moderators: *William M. Ricci, MD*  
*Peter V. Giannoudis, MD, FACS, FRCS*

3:33 pm Refreshment Break

**PAPER SESSION 5:  
HIP FRACTURES**

3:43 –  
4:30 pm

Moderators: *Christian Krettek, MD, FRACS*  
*Brent L. Norris, MD*

3:43 pm **Evolution of a Combined Orthopaedic/ Orthogeriatric Hip Fracture Service in a District Hospital: Key Lessons Learned**  
PAPER #47 *Sandeep Deo, MD, Kareem Elsorafy, MBBS*

3:49 pm **Δ Marked Deterioration in Living Status and Use of Aids After Operative Management of Hip Fractures in the Elderly**  
PAPER #48 *Emil H. Schemitsch, MD; Sheila Sprague, PhD; Martin J. Heetveld; Sofia Bzovsky, BSc; Diane Heels-Ansdell, BSc; Qi Zhou; Marc F. Swiontkowski, MD; Mohit Bhandari, MD; FAITH Investigators*

3:55 pm **Analysis of Intertrochanteric Hip Fractures Failure: What Do Trauma Surgeons Agree Upon?**  
PAPER #49 *Yoram A. Weil; Mariano Agustín Codesido; Rami Mosheiff; Meir Liebergall; Amal Khoury*

4:01 pm Discussion

Δ OTA Grant  
See pages 401 - 442 for financial disclosure information.

4:06 pm  
(p. 109)  
PAPER #50

**Early Clinical Experience with the SIGN Hip Construct**  
*Justin Roth, DO; Brian Goldman, DO; John Schlechter, DO; Lewis G. Zirkle Jr, MD; David Shearer, MD, MPH*

4:12 pm  
(p. 110)  
PAPER #51

**Use of Fully Threaded Cannulated Screws Decreases Femoral Neck Shortening after Fixation of Femoral Neck Fractures**  
*Yoram A. Weil, MD; Rami Mosheiff; Amal Khoury; Meir Liebergall*

4:18 pm  
(p. 111)  
PAPER #52

**Unstable Intertrochanteric Fractures -Is the Best Plate a Nail?**  
*Adam Tucker, MBBS; Kevin Donnelly, MBBS; Sinead McDonald; Andrew Foster*

4:24 pm

Discussion

4:45 pm-6:30 pm

**INTERNATIONAL RECEPTION/INTERNATIONAL POSTERS**  
**International Orthopaedic Trauma Association (IOTA) Charter Signing**  
*Ocean Foyer Level 1*







# 2017 INTERNATIONAL TRAUMA CARE FORUM

**Thursday, October 12, 2017**

(West Meeting Room 118-120)

- 6:00 am **Speaker Ready Room**  
(West Meeting Room 103)
- 6:30 am **Registration**  
**Continental Breakfast**  
(West Meeting Room Lobby – Outside Meeting Room)
- 7:25 am **Welcome**  
*Peter V. Giannoudis, MD, FACS, FRCS, Program Chair*

7:30 –  
8:10 am

## SYMPOSIUM 4: (PELVIC /ACETABULAR NON UNIONS): HOW I DO IT

Moderators: *Pierre Guy, MD*  
*Christoph Josten, MD*

- 7:30 am **Sacral Non-Union**  
*Hans-Christoph Pape, MD, FACS*
- 7:40 am **Pelvic Non-Union**  
*Christian Krettek, MD, FRACS*
- 7:50 am **Acetabular Non-Union**  
*Tim Chesser, FRCS*
- 8:00 am Discussion

8:10 –  
8:35 am

## PAPER SESSION 6: UPPER EXTREMITY

Moderators: *Steven A. Olson, MD*  
*Takashi Mashusita, MD*

- 8:10 am **Long-Term Patient Satisfaction and Residual Symptoms After Plate Fixation  
and Nonoperative Treatment for Displaced Midshaft Clavicular Fractures**  
PAPER #53 *Sarah Woltz, MD; Pieta Krijnen, PhD; Inger B. Schipper, MD, PhD*

- 8:16 am  
(p. 113)  
PAPER #54
- Proximal Humerus Reintervention After Open Reduction and Internal Fixation for Fracture: A Survivorship Analysis and Report on Patient Outcomes**  
*Jason Strelzow, MD; Paul H.C. Stirling, MBBS; C. M. Robinson*
- 8:22 am  
(p. 114)  
PAPER #55
- Long-term Follow Up after Implantation of a Bipolar Radial Head Prosthesis Versus Osteosynthesis to Treat Complex Radial Head Fractures: A Matched Pair Retrospective Study**  
*David Steimer, MD; Martin Panzica; Christian Krettek, MD, FRACS*
- 8:28 am
- Discussion

8:35 –  
9:00 am

**PAPER SESSION 7:  
GENERAL TRAUMA TOPICS**

Moderators: *Nikolaos K. Kanakaris, MD, PhD*  
*Bertil Bouillon, MD, PhD*

- 8:35 am  
(p. 115)  
PAPER #56
- Long-Term Results and Quality of Life After Thoracoscopic Anterior Stabilization for Thoracolumbar Fractures in Patients without Spinal Cord Injury**  
*Arjen Johannes Smits, MD; Arwin Noor; Fred C. Bakker, MD, PhD; Jaap Deunk, MD, PhD<sup>1</sup>; Frank Willem Bloemers*
- 8:41 am  
(p. 116)  
PAPER #57
- Δ Osseointegrated Implants for Transfemoral Amputees: Radiographic Evaluation of Bone Remodeling**  
*Kevin Tetsworth, MD, FRACS; Jiao Jiao Li, PhD; William Lu, PhD; Munjed Al Muderis, MD*
- 8:47 am  
(p. 117)  
PAPER #58
- Inappropriate Weight Bearing After Surgical Treatment of the Lower Extremity Does Not Influence the Number and Severity of Complications**  
*Alexander Maximilian Eickhoff, MD; Carina Fiedler; Raffael Cinteau, MD; Florian T. Gebhard, MD*
- 8:53 am
- Discussion

9:00 –  
9:40 am

**SYMPOSIUM 5:  
AVASCULAR NECROSIS OF TALUS: BIOLOGICAL  
BASED THERAPIES? FUSION OR REPLACEMENT?**

Moderators: *Theodore Miclau III, MD*  
*Florian T. Gebhard, MD, PhD*

- 9:00 am
- Biological Based Therapy**  
*Edward J. Harvey, MD*
- 9:10 am
- Fusion**  
*Roy Sanders, MD*
- 9:20 am
- Replacement**  
*Richard E. Buckley, MD*

Δ OTA Grant

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International Trauma Care Forum – THURSDAY, OCTOBER 12, 2017

9:30 am Discussion  
9:40 am Refreshment Break

INTL FORUM

9:53 –  
10:25

**PAPER SESSION 8:  
LOWER LIMB RECONSTRUCTION**

Moderators: *Yan Wang, MD*  
*Ross K. Leighton, MD*

9:53 am  
(p. 118)  
PAPER #59

**The Results of Membrane-Induced Osteogenesis in Posttraumatic Bone Defects**  
*Jin-Kak Kim, MD; Jae-Woo Cho, MD; Do-Hyun Yeo, MD; Gi-Ho Moon, MD; Beom-Soo Kim, MD; Jong-Keon Oh, MD, PhD; Won-Seok Choi, MD*

9:59 am  
(p. 119)  
PAPER #60

**The Treatment of Complex Pediatric and Adolescent Tibial Fractures with The Ilizarov Method**  
*Juergen Messner, MD; Louise Johnson, Clinical Psychologist; Namal Perera, MBBS; Paul J. Harwood, MBBS; Martin Taylor, MBBS; Simon Britten, MBBS; Patrick Foster, MBBS*

10:05 am  
(p. 120)  
PAPER #61

**Functional Outcome of Intra-Articular Tibial Plateau Fractures: The Impact of Posterior Column Fractures**  
*Juriaan Van Den Berg; Maike Reul, MD; Menno Nunes Cardozo; Anastasiya Starovoyt; Eric Geusens; Stefaan Nijs, MD, PhD; Harm Hoekstra, MD, PhD*

10:11 am  
(p. 121)  
PAPER #62

**Clinical Outcomes of Combined Fixation Strategy Using a Mini Plate in Complex Patellar Fracture**  
*Jae-Woo Cho, MD; Jin-Kak Kim, MD; Beom-Soo Kim, MD; Do-Hyun Yeo, MD; Gi-Ho Moon, MD; Jong-Keon Oh, MD, PhD*

10:17 am Discussion

10:25 –  
11:00 am

**SYMPOSIUM 6:  
MY WORST CASE:  
WHEN THINGS GO WRONG, THEN WHAT?**

Moderators: *Theodore Miclau III, MD*  
*Florian T. Gebhard, MD, PhD*

10:25 am **Overview**  
*Malcolm Smith, MD*

10:30 am *Hans-Christoph Pape, MD, FACS*

10:45 am *Kodi Kojima, MD*

11:00 am **INDUSTRY LUNCH SYMPOSIA** (*On-site Registration Available*)  
Boxed Lunch Included

See pages 401 - 442 for financial disclosure information.