



## International Trauma Care Forum

**Wednesday  
- Thursday  
October 17-18  
2018**



**Peter V. Giannoudis, MD, FACS, FRCS**  
*International Committee Chair*

Gaylord Palms in Kissimmee  
(Orlando area), Florida

CME  
credits will  
be awarded  
for your  
participation  
at this activity.

# International Trauma Care Forum

## OVERVIEW

The International Trauma Care Forum is focused on gathering trauma surgeons from across the globe together to exchange ideas and knowledge on the differences in treatment from a global perspective. This one and a half day session is comprised of 35 papers and 6 symposia, one of which features presenters from the OTA 2018 Guest Nation, the Netherlands.

Attendees of the International Trauma Care Forum will collaborate with the attendees of the Basic Science Focus Forum and exchange ideas during the symposium titled, "The Science of Bone Grafting." This combined session has proved to be a great way to come together to discuss ideas with basic science researchers.

## TARGET AUDIENCE

The Orthopaedic Trauma Association (OTA) International Orthopaedic Trauma Care Forum is for the benefit of orthopaedic trauma surgeons and related allied health care professionals with an interest in international trauma healthcare.

## LEARNING OBJECTIVES

Upon successful completion of this course, participants will be able to:

- ✓ Discuss surgical techniques of elbow injuries
- ✓ Understand surgical management of pediatric hip and pelvic fractures
- ✓ Become familiar with the issues surrounding the treatment of atypical femoral fractures
- ✓ Appreciate differences in the treatment of distal tibial fractures reconstructed either with ORIF or fine wire fixators (ilizarov)
- ✓ Become aware of the latest techniques in the management of femoral head fractures
- ✓ Gain knowledge on the differences of treatment of intertrochanteric fractures from a global perspective

## INTERNATIONAL COMMITTEE

Peter V. Giannoudis, MD, FACS, FRCS, *Chair*  
 Ney Amaral, MD  
 Fernando de la Huerta, MD  
 Theodore Toan Le, MD  
 Amir M. Matityahu, MD  
 Cyril Mauffrey, MD, FACS, FRCS  
 Hans-Christoph Pape, MD, FACS  
 Sara M. Putnam, MD  
 Thomas A. (Toney) Russell, MD

## FEATURED SYMPOSIA

- Surgical Techniques: How I Do It: Elbow Injuries
- The Netherlands Guest Nation Symposium
- Atypical Fractures
- Femoral Head Fractures: An Update
- Intertrochanteric Fractures: Global Perspectives on an Expanding Problem
- THE SCIENCE OF BONE GRAFTING  
*Combined Session with Basic Science*



	OTA Member On/Before 10/1/18	OTA Member After 10/1/18	Non-Member On/Before 10/1/18	Non-Member After 10/1/18
Course Fee:	\$ 150	\$ 200	\$ 200	\$ 250

## COURSE AGENDA

Wednesday, October 17, 2018

7:30 AM **WELCOME INTRODUCTION**  
*Peter V. Giannoudis, MD, FACS, FRCS*

7:35–  
8:15 AM **SYMPOSIUM I**  
**Surgical Techniques: How I Do It:  
Elbow Injuries**

Moderators: *Thomas Higgins, MD*  
*Peter V. Giannoudis, MD, FACS, FRCS*

7:35 AM **Overview**  
*Thomas Higgins, MD*

7:37 AM **Radial Head Replacement:  
When and How?**  
*Michael D. McKee, MD*

7:47 AM **Coronoid Displaced Fractures:  
My Preferred Method of Reconstruction**  
*Craig Roberts, MD*

7:57 AM **Comminuted Distal Humeral Fractures  
in the Elderly: Total Elbow Replacement**  
*Chad Myeroff, MD*

8:07 AM Discussion  
*All Faculty*

8:15–  
8:47 AM **PAPER SESSION I**  
**UPPER EXTREMITY**  
Moderators: *Florian T. Gebhard, MD*  
*Henry Broekhuysse, MD*

8:15 AM **Paper 30**  
**Functional and Radiological Outcome  
in 4-Part Proximal Humeral Fractures  
Treated With the Affinis Fracture  
Hemi-Arthroplasty Using the Cap  
Technique**  
*Sigurd Uyttbroek, MD;*  
*Guy Putzeys, MD*

8:21 AM **Paper 31**  
**Comparison of the Clinical Effect of  
Internal Fixation Combined With Bone  
Graft and Replacement of the Humeral  
Head With the Semi-Shoulder Arthro-  
plasty for the Treatment of Proximal  
Humerus Fracture**  
*Shuang Han, MD; Shiming Wen, MD;*  
*Yan Zhuang, MD*

8:27 AM **Paper 32**  
**Hinge External Fixator Combined With  
Internal Fixation in the Treatment of  
Complex Elbow Fractures**  
*Lisong Heng, MD*

8:33 AM **Paper 33**  
**Infected Nonunion of the Forearm:  
The Masquelet Technique**  
*Naseer Mir, MD*

8:39 AM Discussion

8:47–  
8:57 AM **HUMANITARIAN SCHOLAR**  
*Kisitu Kyengera - Uganda*

**Paper 34**  
**The Feasibility of a Randomized  
Controlled Trial Comparing External  
Fixation Versus Intramedullary Nailing  
for Open Tibia Fractures at a Regional  
Hospital in Uganda**  
*Kisitu Kyengera, MBBS;*  
*David Stockton, MD; Nathan O'Hara, MPH;*  
*Gerard Slobogean, MD MPH;*  
*Andrea Howe, BS; D. Marinos, BS;*  
*Piotr Blachut, MD;*  
*Peter O'Brien, MD FRCPC*

8:57–  
9:37 AM **PAPER SESSION II**  
**BEST OF THE BEST**  
Moderators: *David C. Teague, MD*  
*K.J. Ponsen, MD*  
*Thomas A. (Toney) Russell, MD*

8:57 AM **Paper 35**  
**The Role of Video-Assisted  
Thoracoscopic Surgery in the  
Treatment of Flail Chest Injuries**  
*Nicolaas Roozendaal, Doctoral Student;*  
*Lori van Roozendaal, MD;*  
*Matthijs van Gool, MD;*  
*Antoinette Pijnenburg, MD;*  
*Paul Hustinx, MD, PhD;*  
*Raoul Van Vugt, MD PhD;*  
*Berry Meesters, MD; Karel Hulsewe, MD PhD;*  
*Yvonne Vissers, MD; Erik de Loos, MD*

## COURSE AGENDA, CONTINUED

Wednesday, October 17, 2018



- 9:03 AM **Paper 36**  
**Treatment of Open Distal Tibia Intra-Articular Fractures (OTA/AO 43) With Circular External Fixators: Multicenter Report of 57 Cases**  
*Ahmed Thabet Hagag, MD;*  
*Francesco Sala, MD;*  
*Giovanni Lovisetti, MD;*  
*Christopher Gerzina, BS;*  
*Gautham Prabhakar, BS;*  
*Thomas DeCoster, MD;*  
*Amr Abdelgawad, MD MBA*
- 9:09 AM **Paper 37**  
**Assessment of Polytraumatized Patients According to the Berlin Definition: Does the Addition of Physiological Data Really Improve Interobserver Reliability?**  
*C. E. M. Pothmann, MD; Kai Jensen, MD;*  
*Ladislav Mica, MD; Georg Osterhoff, MD;*  
*H.-P. Simmen, MD; Kai Sprengel, MD*
- 9:15 AM **Paper 38**  
**Does the Use of Augmented Compression in Exchange Nailing for Femoral and Tibial Nonunion Accelerate Time to Radiographic Union?**  
*Simon Weil, MRCS; Mark Middleton, FRCS;*  
*Myriam Guessoum, MRCS;*  
*Alex Trompeter, FRCS*
- 9:21 AM **Paper 39**  
**Dissecting the Mesenchymal Stem Cells Heterogeneity for Clinical Applications**  
*Daisy Canepa, MSc; Elisa Casanova, PhD;*  
*Vinko Tosevski, PhD;*  
*Benjamin Eggerschwiler, MSc;*  
*Eirini Arvaniti, MSc;*  
*Manfred Claassen, PhD;*  
*Hans-Christoph Pape, MD;*  
*Paolo Cinelli, PhD*
- 9:27 AM Discussion  
*All Faculty*
- 9:37–  
 9:52 AM **Refreshment Break**
- 9:52 AM–  
 10:42 AM **Guest Nation / Netherlands**  
**Pediatric Fractures: Current Insights**  
 Moderators: *William M. Ricci, MD*  
*Inger B. Schipper, MD, PhD*
- 9:52 AM **Operative Treatment of Paediatric Pelvic Fractures: Indications and Clinical Results**  
*Victor A. De Ridder, MD*
- 10:02 AM **Operative Treatment of Acetabular Fractures: Indications and What Outcomes Should be Expected?**  
*Steven A. Olson, MD*
- 10:12 AM **Femoral Shaft Fractures in the Age Group of 8-14 Years? My Preferred Method of Treatment**  
*Jan Bernard Sintenie, MD*
- 10:22 AM **Femoral Neck Fractures in Children: Issues Challenges and Solutions**  
*Daniel S. Horwitz, MD*
- 10:32 AM Discussion  
*All Faculty*
- 10:42–  
 11:02 AM **KEY NOTE LECTURE**  
**Double Dutch: Can Fracture Surgery be Incorporated in a General Trauma Surgery Curriculum?**  
 Holland: *K.J. Ponsen, MD, President NVT*
- 11:02–  
 11:32 AM **SYMPOSIUM III**  
**Atypical Fractures**  
 Moderators: *K.J. Ponsen, MD*  
*Douglas W. Lundy, MD*
- 11:02 AM **Is the Healing Response Disturbed? What is the Evidence?**  
*Peter Giannoudis, MD, FACS, FRCS*
- 11:12 AM **Treatment of Atypical Femoral Fracture Non-union**  
*Ross K. Leighton, MD*
- 11:22 AM Discussion  
*All Faculty*

## COURSE AGENDA, CONTINUED

Wednesday, October 17, 2018

11:32 AM Move down to Exhibit Hall D

11:40 AM–  
12:30 PM **INTERNATIONAL INDUSTRY  
LUNCH SESSION**



**ZIMMER BIOMET**

### Innovative Concepts in External Fixation

FastFrame™ External Fixation System  
Overview & Early Clinical Experience

Faculty: Jason Nascone, MD  
Box Lunch Provided by OTA

12:30 PM Return to Sun Ballroom C

12:40–  
1:12 PM **PAPER SESSION III  
BASIC SCIENCE RESEARCH**

Moderators: Hans-Christoph Pape, MD  
Enrique Guerado, MD, PhD

12:40 PM **Paper 40**  
**A Masquelet Animal Model to Evaluate Engineered Induced Membranes for Single-Stage Segmental Bone Healing**  
Malcolm DeBaun, MD; Alex Stahl, BS; Yunzhi Yang, PhD; Michael Gardner, MD

12:46 PM **Paper 41**  
**Comparative Evaluation of Concentrates of Adult Stem Cell Resources Derived by an Innovative Indigenized Algorithm Based on Differential Centrifugation and Ficoll-Hypaque Method**  
Rajeshwar Srivastava, MS; Ashok Agrahari, Doctoral Student; Alka Singh, MSc; Saloni Raj, MBBS

12:52 PM **Paper 42**  
**A New Ex Vivo Murine Model for Evaluation of Adhesiveness of a Novel Biomimetic Bone Glue**  
Philip Procter, PhD; Sune Larsson, MD PhD; Gry Hulsart-Bilström, PhD; Gerard Insley, PhD; Håkan Engqvist, PhD; Michael Palmer, PhD

12:58 PM **Paper 43**  
**The Potential of Scaffolds Loaded With iPSC Extracellular Matrix in Treating Critical Size Bone Defects**  
Simon Tiziani, MD; Elisa Casanova, PhD; Daisy Canepa, MSc; Benjamin Eggerschwiler, MSc; Hans-Christoph Pape, MD; Paolo Cinelli, PhD

1:04 PM Discussion  
All Faculty

1:12–  
1:27 PM **SPECIAL INTEREST LECTURE**  
**"Scientific Output from a Small Country: The Secret of Success in RCT's"**  
Dennis Den Hartog, MD, PhD

1:27–  
2:15 PM **PAPER SESSION IV  
GENERAL TRAUMA**  
Moderators: David J. Hak, MD  
Nirmal C. Tejwani, MD

1:27 PM **Paper 44**  
**Does Immunosuppressive Therapy Influence Postoperative Fracture Healing After Organ Transplantation?**  
C. E. M. Pothmann, MD; Hans-Christoph Pape, MD; H.-P. Simmen, MD; V. Neuhaus, PD MD

1:33 PM **Paper 45**  
**Incidence and Complications of Fractures Managed by Traditional Bone Setters**  
Riaz Ahmed, MS; Muhammad Sohail, MS; Junaid Khan, MBBS

## COURSE AGENDA, CONTINUED

Wednesday, October 17, 2018

- 1:39 PM **Paper 46**  
**The Incidence of Deep Venous Thrombosis and the Epidemiological Analysis of Patients With Lower Extremity Fracture in Different Age Groups in Northwest China**  
*Shuang Han, MD; Shiming Wen, MD; Yan Zhuang, MD*
- 1:45 PM Discussion
- 1:51 PM **Paper 47**  
**Factors Associated With Deep Surgical Site Infection Following Fracture Treatment Using the SIGN Nail**  
*Mamer Rosario, MD; Romer Ariel Santos, MD; Misael Jonathan Ticman, MD; Geoffrey Battad, MD; Lendell John Gatchalian, MD; Paul Christian Bejosa, MD*
- 1:57 PM **Paper 48**  
**The Effect on the Stability of the Knee Joint for Patients With Type IV ,V, and VI Tibial Plateau Fracture Through Posteromedial Approaches After the Separation of the Medial Collateral Ligament**  
*Cheng Ren, MD; Han Zhong Xue, MD; Zhong Li, MD*
- 2:03 PM **Paper 49**  
**Varus Mechanism Is Associated With High Incidence of Popliteal Artery Lesions in Multiligament Knee Injuries**  
*Maximiliano Scheu, MD MS; Alan Garin, MD; Pedro Díaz, MD; Luis O'Connell, MD; Carolina Mellado, MD; Gonzalo Espinoza, MD*
- 2:09 PM Discussion

- 2:15–  
 2:55 PM **SYMPOSIUM IV**  
**Femoral Head Fractures: An Update**  
 Moderators: *Amir M. Matityahu, MD; Sushrut Babhulkar, MS ORTH, MCh ORTH*
- 2:15 PM **Non-operative Management: Which Lesion - Evidence?**  
*Hans-Christoph Pape, MD*
- 2:25 PM **Which Lesions I Fix and How?**  
*Cyril Mauffrey, MD*
- 2:35 PM **When I Do THR and Why?**  
*Timothy Chesser, MB, BS, FRCS*
- 2:45 PM Discussion
- 2:55 PM **Refreshment Break**
- 3:10–  
 3:40 PM **SYMPOSIUM V - DEBATE**  
**Distal Tibia Fractures With or Without Articular Extension?**  
 Moderators: *Paul Duffy, MD; Takashi Matsushita, MD*
- 3:10 PM **Fine Wire Fixators**  
*David W. Lowenberg, MD*
- 3:20 PM **ORIF/Plating**  
*R. Malcolm Smith, MD*
- 3:30 PM Discussion
- 3:40–  
 4:30 PM **PAPER SESSION V**  
**Pelvis and Hip Fractures**  
 Moderators: *Gregory J. Della Rocca, MD, PhD, FACS; Fernando de la Huerta, MD*
- 3:40 PM **Paper 50**  
**Robotic-Assisted Fixation of Sacral Fractures: Initial Experience**  
*Yoram Weil, MD; Meir Liebergall, MD; Rami Mosheiff, MD; Joshua Shroeder, MD; Amal Khoury, MD*
- 3:46 PM **Paper 51**  
**The Clinical Application of Modified Stoppa Approach With Spring Plate for Posterior Column Acetabular Fractures**  
*Cheng Ren, MD; Han Zhong Xue, MD; Zhong Li, MD*

# 2018 INTERNATIONAL TRAUMA CARE FORUM

- 3:52 PM **Paper 52**  
**Minimally Invasive Stabilization of Posterior Pelvic Ring Instabilities With Pedicle Screw Connected to a Transverse Rod**  
*Hu Wang, MD*
- 3:58 PM Discussion
- 4:04 PM **Paper 53**  
**Operative Treatment of Intertrochanteric Femoral Fractures: Blade Versus Screw**  
*Joost van Leur, MSc; Tijs Jakma, MD; Sten Willemsen, PhD; Bastiaan Punt, MD*
- 4:10 PM **Paper 54**  
**Cemented Versus Cementless Femoral Stem Design and the Risk of Revision for Periprosthetic Femoral Fracture in Total Hip Arthroplasty**  
*Tanvir Khan, MBBS; Brigitte Scammell, PhD; Andrew Manktelow, FRCS; Benjamin Ollivere, MD*
- 4:16 PM **Paper 55**  
**Pattern of Hip Fractures Over a 10-Year Period in a Major Referral Center**  
*Paa Baidoo, MD; Agbeko Ocloo, MD; Velarie Ansu, PhD Candidate*
- 4:22 PM Discussion
- 4:30 PM Adjourn for the Day  
**INTERNATIONAL RECEPTION**  
Castillo Fort–St. Augustine Area (Atrium Level)



## COURSE AGENDA

Thursday, October 18, 2018

- 7:30 AM **INTRODUCTION** (Exhibit Hall D - Room 2)  
*Edward J. Harvey, MD*
- 7:35–  
8:35 AM **JOINT SESSION** (Exhibit Hall D - Room 2)  
**The Science of Bone Grafting**  
Moderators: *Peter V. Giannoudis, MD, FACS, FRCS*  
*Edward J. Harvey, MD*
- 7:35 AM **Limitations of Autologous Bone Graft**  
*Joseph Borrelli Jr., MD*
- 7:45 AM **Ant/Post iliac Crest Graft Harvesting: Tips / Tricks**  
*Steven A. Olson, MD*
- 7:55 AM **Distal Femur: How I Do It**  
*Paul Tornetta III, MD*
- 8:05 AM **RIA Grafting: Technique–Issues–Solutions**  
*Brent L. Norris, MD*
- 8:15 AM **Composite Grafting: What I Do and Why?**  
*Peter V. Giannoudis, MD, FACS, FRCS*
- 8:25 AM Discussion  
*All Faculty*
- 8:35 AM **International Trauma Care Forum**  
**Attendees move to Sun Ballroom C**
- 8:45–  
9:40 AM **SYMPOSIUM VI – IOTA SYMPOSIUM**  
**Intertrochanteric Fractures: Global Perspectives on an Expanding Problem**  
Moderators: *Theodore Miclau III, MD (USA)*  
*Peter V. Giannoudis, MD, FACS, FRCS*
- 8:45 AM **Introduction**  
*Peter V. Giannoudis, MD, FACS, FRCS*
- 8:50 AM **Intertrochanteric Fracture Reductions: Tips and Tricks**  
*Etsuo Shoda, MD, Japanese Society for Fracture Repair*
- 9:00 AM **Hip Fracture Mortality: What is Preventable?**  
*Yun Tian, MD, Chinese Academic Orthopaedic Society*

## COURSE AGENDA, CONTINUED

Thursday, October 18, 2018

- 9:08 AM **Intertrochanteric Fracture Fixation: Are the Indications for a DHS Changing Worldwide?**  
*Fernando de la Huerta, MD,*  
*Mexican Federation of Colleges of Orthopaedics and Traumatolog*
- 9:16 AM **Osteoporotic Bone: When and How to Use Augmentation**  
*Florian Gebhard, MD,*  
*German Trauma Society*
- 9:24 AM **Hip Fracture Registries: What Are the Benefits?**  
*Roger Bingham, MD,*  
*Australian Orthopaedic Association*
- 9:32 AM Discussion  
*All Faculty*
- 9:40 AM **Refreshment Break**
- 9:50–  
10:14 AM **PAPER SESSION VI**  
**Femoral Fractures**  
Moderators: *Victor A. De Ridder, MD*  
*Raymond Malcolm Smith, MD*
- 9:50 AM **Paper 56**  
**A Biomechanical Analysis About Fixing the Locking Compression Plate of Distal Femur Fractures**  
*Joon-Woo Kim, MD PhD;*  
*Chang-Wug Oh, MD PhD;*  
*Jin-Han Lee, PhD; Il-Hyung Park, MD PhD;*  
*Kyeong-Hyeon Park, MD;*  
*Tae-Seong Kim, MD; Il Seo, MD;*  
*Seong-Min Kim, MD*
- 9:56 AM **Paper 57**  
**Satisfactory Postoperative Alignment Following Retrograde SIGN Fin Nailing for Femoral Shaft Fractures: A Case-Control Study**  
*Nathaniel Wilson, MD; Jordan Shaw, MD;*  
*Mbonisi Malaba, MD; Fasto Yugusuk, MD;*  
*Philemon Nyambati, MD;*  
*Alexander Siy, BS; Daniel Galat, MD;*  
*Kiprono Koech, MD; Dylan Nugent, MD;*  
*Paul Whiting, MD*



- 10:02 AM **Paper 58**  
**Open Diaphyseal Femoral Fractures Treated With Intramedullary Nailing: Incidence of Complications and Health-Related Quality of Life Outcomes**  
*Hany Saleeb, MRCS;*  
*Theodoros Tosounidis, MD PhD;*  
*Paul Harwood, FRCS;*  
*Nikolaos Kanakaris, PhD MD;*  
*Peter Giannoudis, MD*
- 10:08 AM Discussion
- 10:14–  
10:38 AM **PAPER SESSION VII**  
**Foot and Ankle**  
Moderators: *Roy Sanders, MD*  
*J.B. Sintenien, MD*
- 10:14 AM **Paper 59**  
**Outcome of Percutaneous Fixation of Calcaneal Fractures: A Prospective Analysis in an Indian Population**  
*Chirag Arora, MS; Anil Jain, MS*
- 10:20 AM **Paper 60**  
**Outcomes of Neglected Bosworth Fracture-Dislocation**  
*Gisoo Lee, PhD, MD; Chan Kang, MD;*  
*Yougun Won, MD*



## COURSE AGENDA, CONTINUED

Thursday, October 18, 2018

10:26 AM **Paper 61**  
**Soft-Tissue Complications and Timing of Surgery in Patients With a Tongue-Type Displaced Intra-Articular Calcaneal Fracture: An International Retrospective Cohort Study**  
*Siebe De Boer, MD;*  
*Esther M.M. Van Lieshout, PhD MSc;*  
*Freek Van 't Land, BSc;*  
*Dominique Misselyn, MD;*  
*Tim Schepers, MD PhD;*  
*Dennis Den Hartog, MD PhD;*  
*Michael H.J. Verhofstad, MD PhD*

10:32 AM Discussion

### 10:38– **PAPER SESSION VIII**

11:02 AM **General Trauma II**  
Moderators: *Cyril Mauffrey, MD*  
*Nikolaos Kanakaris, MD, PhD*

10:38 AM **Paper 62**  
**Treatment of Infection Following Intramedullary Nailing of Tibial Shaft Fractures: Results of the ORS/ISFR Expert Group Survey**  
*Cyril Mauffrey, MD; David Hak, MD;*  
*Peter Giannoudis, MD; Volker Alt, MD;*  
*Christoph Nau, MD; Ingo Marzi, MD;*  
*Peter Augat, PhD; Jong-Keon Oh, MD PhD;*  
*Johannes Frank, MD;*  
*Andreas Mavrogenis, MD;*  
*Xavier Flecher, MD; Jean Argenson, MD;*  
*Ashok Gavaskar, MD; David Rojas, MD;*  
*Yehia Bedeir, MD; Raymond Wright, MD;*  
*Arun Aneja, MD PhD*

10:44 AM **Paper 63**  
**A Comparison of Knee Pain and Kneeling Pain in Suprapatellar Versus Infrapatellar Tibial Nailing**  
*Mark Middleton, FRCS;*  
*Simon Weil, MRCS; Tamer Ads, MScOT;*  
*Thomas Anderson, MBBS;*  
*Andreas Fontalis, MD;*  
*Alex Trompeter, FRCS*

10:50 AM **Paper 64**  
**Distal Radius Volar Plate Design Predicts Volar Prominence to Watershed Line in Clinical Practice: Comparison of Soong Grading of 2 Common Low-Profile Plates in 400 Patients**  
*Minke Bergsma, MD;*  
*Kimberly Brown, MD;*  
*Job Doornberg, MD PhD;*  
*Inger Sierevelt, MSc;*  
*Ruurd Jaarsma, MD PhD;*  
*Bhavin Jadav, FRCS*

10:56 AM Discussion

11:02 AM **Adjourn for the day to INDUSTRY SYMPOSIA**

