



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 Broekhuysen, 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**
Bin-Fei Zhang, MD; 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*
Kees J. Ponsen, MD, PhD
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: *Kees J. Ponsen, MD, PhD,*
President NVT

11:02–
 11:32 AM **SYMPOSIUM III**
Atypical Fractures
 Moderators: *Kees J. Ponsen, MD, PhD*
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
Han Zhong Xue, MD; Cheng Ren, 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; Joey Johnson, MD*
- 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

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- 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

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- 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–
10:32 AM **PAPER SESSION VII**
Foot and Ankle
Moderators: *Roy Sanders, MD*
J.B. Sintenien, MD
- 10:14 AM **Paper 60**
Outcomes of Neglected Bosworth Fracture-Dislocation
Gisoo Lee, PhD, MD; Chan Kang, MD;
Younghun Won, MD

COURSE AGENDA, CONTINUED

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10:20 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

10:26 AM Discussion

10:32– **PAPER SESSION VIII**

10:56 AM **General Trauma II**
Moderators: *Cyril Mauffrey, MD*
Nikolaos Kanakaris, MD, PhD

10:32 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

10:38 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

10:44 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

10:50 AM Discussion

10:56 AM **Adjourn for the day to INDUSTRY SYMPOSIA**



Friday, October 19, 2018

12:45– **INTERNATIONAL TOWN HALL**
1:25 PM **LUNCH DISCUSSION**

Chairs: *Theodore Miclau III, MD,*
Steering Committee Chair,
International Orthopaedic Trauma Association
Peter Giannoudis, MD,
OTA International Committee Chair

Forum for open discussion about new ways the OTA can support the international community and hear of the many growing OTA global benefits.