



## The Hip Society Scientific Award Winners 2016-1985

### 2016 Awards

**Otto Aufranc Award** – Nitin Goyal, MD “A Multi-Center, Prospective, Randomized Study of Outpatient versus Inpatient Total Hip Arthroplasty”

**John Charnley Award** – Rafael J. Sierra, MD “The Missing Link: Re-Defining the Natural Progression of Osteoarthritis in Patients with Hip Dysplasia and Impingement”

**Frank Stinchfield Award** – Alexander S. McLawnhorn, MD, MBA “Total Hip Arthroplasty for Femoral Neck Fracture is Not a Typical DRG 470: A Propensity-Matched Cohort Study”

### 2015 Awards

**Otto Aufranc Award** – Timothy M. Wright, MD “Large Heads Do Not Increase Damage at the Head-Neck Taper of Metal-on-Polyethylene Total Hip Arthroplasties”

**John Charnley Award** – Kevin J. Bozic, MD, MBA “The Use of Patient Reported Outcome Measures to Predict Clinically Meaningful Improvement after THA”

**Frank Stinchfield Award** – Lucas A. Anderson, MD “Prevalence of Radiographic Abnormalities in Senior Athletes”

### 2014 Awards

**Otto Aufranc Award** – Richard Iorio, MD “Modifiable vs. Non-Modifiable Risk Factors for Infection after Hip Arthroplasty”

**John Charnley Award** – Geraint E. R. Thomas, MA, MBBS, MRCS “Long Term Wear of Highly Cross-Linked Polyethylene in Total Hip Arthroplasty”

**Frank Stinchfield Award** – Jacob M. Elkins, MD, PhD “Redefining the “Safe Zone” for Optimal Wear and Stability in Total Hips. It’s Smaller Than We Thought: A Computational Analysis”

### 2013 Awards

**Otto Aufranc Award** - Paul E. Beaulé, MD, FRCSC “On the Etiology of the Cam Deformity: A Cross-Sectional Paediatric MRI Study”

**John Charnley Award** - Donald S. Garbuz MD, MHSc “Diagnostic Accuracy of MRI versus Ultrasound for Detecting Pseudotumors in Asymptomatic Metal-on-Metal THA”

**Frank Stinchfield Award** - Paul H. Yi, BA “Diagnosis of Infection in the Early Postoperative Period after Total Hip Arthroplasty”

### 2012 Awards

**Otto Aufranc Award** - Catherine Van Der Straeten, MD “The Interpretation of Metal Ion Levels in Unilateral and Bilateral Hip Resurfacing. Practical Guidelines for Hip Resurfacing Follow-Up.”

**John Charnley Award** - Charles R. Bragdon, PhD “Clinical Multi-centric Studies of the Wear Performance of Highly Cross-linked Remelted Polyethylene in THR”

**Frank Stinchfield Award** - Andrew K. Battenberg, BS “Decreasing Patient Activity with Aging: Implications for Cross-Linked Polyethylene Wear”

### 2011 Awards

**Otto Aufranc Award** - Letitia Lim, MD “Demineralized Bone Matrix around Porous Implants Promotes Rapid Gap Healing and Bone Ingrowth”

**John Charnley Award** - Fabrizio Billi, PhD “An Accurate and Extremely Sensitive Method to Separate, Display and Characterize Wear Debris: Polyethylene, Metal and Ceramic Particles”

**Frank Stinchfield Award** - Donald S. Garbuz, MD, MHSc “Dislocation in revision THA: Randomized clinical trial of 36/40mm vs 32mm head”

### 2010 Awards

**Otto Aufranc Award** - Yong Sik Kim, MD “Enhanced Biocompatibility of Stainless Steel Implant by Titanium Coating and Micro-arc Oxidation”

**John Charnley Award** - Henrik Malchau, MD, PhD “Cup Positioning at a Tertiary Hospital: Risk Factors for Malpositioning”

**Frank Stinchfield Award** - Robert L. Barrack, MD “The Impact of Socioeconomic Factors on Outcome After THA: A Prospective, Randomized Study”

#### **2009 Awards**

**Otto Aufranc Award** - Javad Parvizi, MD, FRCS "*Developmental Dysplasia of the Hip: Discovery of the Gene(s)*"

**John Charnley Awards** - Donald S. Garbuz, MD, MHSc "*Metal on Metal Hip Resurfacing vs Large Diameter Hip Arthroplasty: A Randomized Clinical Trial.*"

**John Charnley Awards** - Martin Lavigne, MD, MSc "*The Functional Outcome after Hip Resurfacing and Large Head Total Hip Arthroplasty is the Same: A Randomized, Double-Blinded Study.*"

**Frank Stinchfield Award** - Robert T. Trousdale, MD "*"Hip Squeaking" Biomechanics Study of Ceramic on Ceramic Bearing Surface*"

#### **2008 Awards**

**Otto Aufranc Award** - Paul E. Beaulé, MD "*Cement Penetration in Hip Resurfacing: Femoral Component Design and Cementation Technique*"

**John Charnley Award** - C. Anderson Engh, Jr., MD "*A Comparison of Three Total Hip Arthroplasty Bearing Surfaces: A Randomized Trial*"

**Frank Stinchfield Award** - Sebastien Parratte, MD "*Variation in Postoperative Pelvic Tilt May Confound the Accuracy of Hip Navigation Systems*"

#### **2007 Awards**

**Otto Aufranc Award** - John Fisher, D.Eng. "*Ceramic-on-Metal Hip Replacements: A Comparative In Vitro and In Vivo Study*"

**John Charnley Award** - Young-Hoo Kim, MD "*Factors Leading to Low Prevalence of Deep Vein Thrombosis and Pulmonary Embolism after Total Hip Arthroplasty*"

**Frank Stinchfield Award** - Matthew J. Crawford, MD "*The Biomechanical Contribution of the Labrum to the Stability of the Hip*"

#### **2006 Awards**

**Otto Aufranc Award** - Steven M. Kurtz, PhD "*Clinical Significance of In Vivo Degradation for Polyethylene in Total Hip Arthroplasty*"

**John Charnley Award** - Pat Campbell, PhD "*A Study of Implant Failure in Metal-on-Metal Surface Arthroplasties*"

**Frank Stinchfield Award** - Toru Moro, MD "*Grafting of Biocompatible MPC Polymer on Cross-linked Polyethylene Liner Surface for Extending Longevity of Artificial Hip Joints*"

#### **2005 Awards**

**Otto Aufranc Award** - Michael Tanzer, MD "*Bone Augmentation Around and Within Porous Implants by Local Bisphosphonate Elution*"

**John Charnley Awards** - Eduardo A. Salvati, MD "*Heritable Thrombophilia and Development of Thromboembolic Disease following Total Hip Arthroplasty*"

**John Charnley Awards** - Vincent D. Pellegrini, Jr., MD "*Prevention of Readmission for Venous Thromboembolic Disease after Total Hip Arthroplasty*"

**Frank Stinchfield Award** - Mark W. Pagnano, MD "*Muscle Damage after Total Hip Arthroplasty Performed with the Two-Incision and Mini-Posterior Techniques*"

#### **2004 Awards**

**Otto Aufranc Award** - Georgios Digas, MD "*Highly Cross-Linked Polyethylene in Total Hip Arthroplasty: Randomized Evaluation of Penetration Rate in Cemented and Uncemented Sockets Using Radiostereometric Analysis*"

**John Charnley Award** - Daniel Mazzucco, PhD "*The Role of Joint Fluid in the Tribology of Total Joint Arthroplasty*"

**Frank Stinchfield Award** - Javad Parvizi, MD, FRCS "*Titanium Surface with Biologic Activity Against Infection*"

#### **2003 Awards**

**Otto Aufranc Award** - Philip C. Noble, PhD "*The Dysplastic Femur: 3D Morphology and Implications for Total Hip Replacement*"

**John Charnley Awards** - Robert L. Barrack, MD "*Induction of Bone Ingrowth from an Acetabular Defect to a Porous Surface with Osteogenic Protein-1*"

**John Charnley Awards** - Charles R. Bragdon, BS "*Efficacy of MBP-2 to Induce Bone Ingrowth in Gap and Nongap Regions of a THR Model*"

**Frank Stinchfield Award** - Christoph Röder, MD "*Long-Term Functional Outcome of Total Hip Arthroplasty in 24,889 Hips: Demographic Factors Affecting Clinical Outcome*"

#### **2002 Awards**

**Otto Aufranc Award** - S.A. Hacking "*The Relative Contributions of Surface Chemistry and Topography to the Osseointegration of HA Coated Implants*"

**John Charnley Award** - Steven J. MacDonald, MD "*Metal on Metal Versus Metal on Polyethylene Liners in Total Hip Arthroplasty: Clinical and Metal Ion Results of a Prospective Randomized Clinical Trial*"

**Frank Stinchfield Award** - Michael R. Dayton, MD "*Viscosity Effects on Cement Pressurization and Trabecular Bone Cement Intrusion.*"

#### **2001 Awards**

**Otto Aufranc Award** - Joseph C. McCarthy, MD "*The Role of Labral Lesions in the Development of Early Degenerative Hip Disease*"

**John Charnley Award** - Gonzalo G. Valdivia, MD, FRCSC "*3-D Analysis of the Cement Mantle in THA*"

**Frank Stinchfield Award** - Masaaki Maruyama, MD "*Acetabular and Femoral Morphology: Anteversion Angle and Implant Positioning*"

#### **2000 Awards**

**Otto Aufranc Award** - Mark Santman, MD "*Enhancement of Strut Allograft Healing to the Femur with Recombinant Human Osteogenic Protein*"

**John Charnley Award** - Thomas P. Schmalzried, MD "*Wear is a Function of Use, Not Time!*"

**Frank Stinchfield Award** - Michael F. Shepard, MD "*Does Cementation Technique Influence the Strength of Roughened and Polished Femoral Components?*"

#### **1999 Awards**

**Otto Aufranc Award** - Frank W. Chan, PhD *"Wear and Lubrication of Metal-on-Metal Hip Implants"*

**John Charnley Award** - John J. Callaghan, MD *"Practice Surveillance: A Practical Method to Assess Outcome and to Perform Clinical Research"*

**Frank Stinchfield Award** - Javad Parvizi, MD, FRCS *"Sudden Death During Primary Hip Arthroplasty"*

#### **1998 Awards**

**Otto Aufranc Award** - Anthony M. DiGioia, MD *"An Image Guided Surgical Navigation System for the Accurate Measurement and Alignment of Acetabular Implants"*

**John Charnley Award** - Rocco Paolo Pitto, MD *"Prophylaxis of Fat and Bone Marrow Embolism in Cemented Total Hip Arthroplasty"*

**Frank Stinchfield Award** - David J. Schneider, MD *"The Effects of Perioperative Radiation on the Inhibition of Heterotopic Ossification about the Hip: An Animal Model in the Rabbit"*

#### **1997 Awards**

**Otto Aufranc Award** - Gwo-Jaw Wang, MD *"Lovastatin Prevents Steroid-Induced Adipogenesis and Osteonecrosis in Vitro and in Vivo"*

**John Charnley Award** - Arun S. Shanbhag, PhD *"Potential Inhibition of Wear Debris-Mediated Osteolysis in a Canine: Total Hip Arthroplasty (THA) Model"*

**Frank Stinchfield Award** - Jon D. Hop, MD *"An IN VIVO Model of Third Body Wear Contribution of Cable Debris Generation to Accelerated Polyethylene Wear and Acetabular Component Loosening"*

#### **1996 Awards**

**Otto Aufranc Award** - William J. Maloney, III, MD *"Femoral Bone Remodeling after Total Hip Arthroplasty: The Skeletal Response to Well-Fixed Cemented and Cementless Components"*

**John Charnley Award** - Vincent D. Pellegrini, Jr., MD *"The Natural History of Thromboembolic Disease following Hospital Discharge after Total Hip Arthroplasty: The Case for Routine Surveillance"*

**Frank Stinchfield Award** - Tina Maxian, MS *"Three Dimensional Sliding/Contact Computational Simulation of Acetabular Wear in THA"*

#### **1995 Awards**

**Otto Aufranc Award** - John P. Collier, DE *"Impact of Gamma Sterilization on Clinical Performance of Polyethylene in the Hip"*

**John Charnley Award** - Nigel E. Sharrock, MB *"Thrombogenesis during Total Hip Replacement"*

**Frank Stinchfield Award** - Raymund Woo, MD *"Pulmonary Fat Embolism: The Effects of Three Cement Removal Techniques in a Canine Revision Total Hip Arthroplasty Model"*

#### **1994 Awards**

**Otto Aufranc Award** - John D. Bobyn, PhD *"The Susceptibility of Smooth Implant Surfaces to Peri-Implant Fibrosis and Migration of Polyethylene Wear Debris"*

**John Charnley Award** - Harry A. McKellop, PhD *"The Origin of Sub-Micron Polyethylene Wear Debris in Total Hip Arthroplasty"*

**Frank Stinchfield Award** - Peter Devane, MD *"The Measurement of Polyethylene Wear in Metal-Backed Acetabular Components"*

#### **1993 Awards**

**Otto Aufranc Award** - Robert B. Bourne, MD *"Cemented Versus Cementless Total Hip Replacement: Cost Effectiveness and its Impact on Health Related Quality of Life"*

**John Charnley Award** - Clinton Rubin, PhD *"Promotion of Bony Ingrowth by Frequency Specific, Low Amplitude Mechanical Strain"*

**Frank Stinchfield Award** - James MacKenzie, MD *"Areas of Contact and Extent of Gaps with Implantation of Oversized Acetabular Components in Total Hip Arthroplasty"*

#### **1992 Awards**

**Otto Aufranc Award** - L. J. Ruland, MD *"A Comparison of Magnetic Resonance Imaging to Bone Scintigraphy in Early Traumatic Ischemia of the Femoral Head"*

**John Charnley Award** - Charles A. Engh, MD *"Quantitation of Implant Micromotion, Strain Shielding and Bone Resorption with Porous Coated AML Cementless Femoral Prostheses Retrieved at Autopsy"*

**Frank Stinchfield Award** - Roger H. Emerson, Jr., MD *"Cortical Strut Allografts in the Reconstruction of the Femur in Revision Total Hip Arthroplasty"*

#### **1991 Awards**

**Otto Aufranc Award** - Michael H. Huo, MD *"Intraoperative Heparin Thromboembolic Prophylaxis in Primary Total Hip Arthroplasty. A Prospective, Randomized, Controlled, Clinical Trial"*

**John Charnley Award** - Thomas P. Schmalzried, MD *"The Mechanism of Loosening of Cemented Acetabular Components in Total Hip Arthroplasty: Analysis of Specimens Retrieved at Autopsy"*

**Frank Stinchfield Award** - Patrick E. Greis, MD *"A Long Term Study on Defect Filling and Bone Ingrowth using a Canine Fiber Metal Total Hip Model"*

#### **1990 Awards**

**Otto Aufranc Award** - John D. Bobyn, PhD *"The Effect of Stem Stiffness on Femoral Bone Resorption after Canine Porous Coated Hip Replacement"*

**John Charnley Award** - Sam Nasser, MD, PhD *"Cementless Total Joint Arthroplasty Prostheses with Titanium Alloy Articular Surfaces: A Human Retrieval Analysis"*

**Frank Stinchfield Award** - Stephen B. Murphy, MD *"Acetabular Dysplasia in the Adolescent and Young Adult"*

#### **1989 Awards**

**Otto Aufranc Award** - Thomas Trancik, MD "*The Effect of Indomethacin, Aspirin, and Ibuprofen on Bone Ingrowth into a Porous Coated Implant.*"

**John Charnley Award** - Hajime Sugiyama, MD "*Examination of Rotational Fixation of the Femoral Component in Total Hip Replacement: A Mechanical Study of Micromovement and Acoustic Emission*"

**Frank Stinchfield Award** - William J. Maloney, III, MD "*Biomechanical, Histologic, and Fractographic Studies of Femurs Retrieved from Patients who had Undergone Cemented Total Hip Replacement up to 17 Years Earlier.*"

#### **1988 Awards**

**Otto Aufranc Award** - J. D. Spencer, MB, MRCP, FRCS "*Avascular Necrosis and the Blood Supply of the Femoral Head*"

**John Charnley Award** - Gary M. Russotti, MD "*Cemented Total Hip Arthroplasty using Contemporary Techniques: A Five Year Minimum follow-up Study*"

**Frank Stinchfield Award** - Philip C. Noble, MS "*The Anatomic Basis of Femoral Prosthesis Design*"

#### **1987 Awards**

**Otto Aufranc Award** - Win S. Chang, MD "*Biomechanical Evaluation of Anatomic Reduction vs. Medial Displacement Osteotomy in Unstable Intertrochanteric Fractures*"

**John Charnley Award** - Rudolph G. T. Geesink, MD "*Chemical Implant Fixation using Hydroxyl-Apatite Coatings*"

**Frank Stinchfield Award** - Jon J. P. Warner, MD "*The Role of Core Decompression in Treatment of Non-Traumatic Osteonecrosis of the Femoral Head*"

#### **1986 Awards**

**Otto Aufranc Award** - Guy D. Paiement, MD "*Dramatic Advances in Efficacy, Safety and Cost Containment in Prevention of Venous Thromboembolic Disease in Hip Surgery Patients.*"

**John Charnley Award** - Gary M. Russotti, MD "*The Efficacy of using Hydroxyapatite Tricalcium/Phosphate Particles to Enhance the Biologic Fixation of a Titanium Fiber Metal Canine Femoral Component with a Non-Interference Fit.*"

**Frank Stinchfield Award** - Gwo-Jaw Wang, MD "*Improvement of Femoral Head Blood Flow in Steroid-Treated Rabbits using Lipid-Clearing Agent.*"

#### **1985 Awards**

**Otto Aufranc Award** - Dana C. Mears, MD "*Fractures of the Acetabulum*"

**John Charnley Award** - Robert B. Bourne, MD "*The Effect of Endoprosthetic Mismatch and Metal or Non-Metal Backed Acetabular Components on "In Vitro" Pelvic Stresses*"

**Frank Stinchfield Award** - John J. Callaghan, MD "*Reimplantation for Salvage of the Infected Hip: Rationale for the use of Gentamicin Impregnated Cement and Beads.*"