4TH INTERNATIONAL CONFERENCE
ADVANCES IN ORTHOPAEDIC OSSEOINTEGRATION

Presented by the Department of Orthopaedic Surgery
University of California, San Francisco

Moscone Convention Center – 2/10
San Francisco General Hospital Training Lab – 2/12
San Francisco, California

FEBRUARY 10, 12, 2012

PROGRAM CHAIRS
Rickard Brånemark, MD, MSC, PhD
Sahlgrenska University Hospital
Gothenburg, Sweden

Richard J. O'Donnell, MD
UCSF Orthopaedic Oncology Service
San Francisco, California
Over the past fifty years, great strides have been made in the study of osseointegration, and from these findings new therapeutic options have emerged. Advances in basic science and engineering have been translated into clinically beneficial technologies in the fields of arthroplasty, oncology, and prosthetic rehabilitation. In this symposium, we will bring together international experts to explore our current understanding of the principles, techniques, and clinical outcomes of reconstructive therapies utilizing osseointegration technologies.

TARGET AUDIENCE
Orthopaedic oncology and arthroplasty attending surgeons; Orthopaedic residents; Prosthetists; Veterinary professionals; Basic scientists; Allied health professionals in the fields of reconstructive and rehabilitative medicine

To assemble a diverse faculty of osseointegration experts to review and expand upon contemporary knowledge of:
- Osseointegration: History and Current Concepts Across Disciplines
- Basic Science Principles of Osseointegration
- Arthroplasty Applications of Osseointegration Technology
- Modular Endoprosthetic Reconstruction in Oncology
- Transdermal Prosthetic Reconstruction and Rehabilitation
- Meeting the Challenges of Amputees in the Developing World.
- Exam preparation: Orthopaedic pathology review and current concepts of oncologic care

ACCREDITATION
The University of California, San Francisco School of Medicine (UCSF) is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. UCSF designates this educational activity for a maximum of TBD AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

This CME activity meets the requirements under California Assembly Bill 1195, continuing education and cultural and linguistic competency.

Nurses: For the purpose of recertification, the American Nurses Credentialing Center accepts AMA PRA Category 1 Credit™ issued by organizations accredited by the ACCME.

Pharmacists: The California Board of Pharmacy accepts as continuing professional education those courses that meet the standard of relevance to pharmacy practice and have been approved for AMA PRA Category 1 Credit™.

CALL FOR ABSTRACTS
Abstract submission is open until 1, January 2012! Please submit your abstracts in English via the website.

4TH INTERNATIONAL CONFERENCE ADVANCES IN ORTHOPAEDIC OSSEOINTEGRATION
FEBRUARY 10, 12, 2012
FRIDAY, FEBRUARY 10, 2012

COMPREHENSIVE OSSEOINTEGRATION

6:30-7:15 am  Continental breakfast

7:15-7:30  Welcome and Introductory Remarks
Richard J. O’Donnell, MD

7:30-7:45  Reconstruction of Massive Bone Defects in Revision Arthroplasty and Limb Salvage using Compressive Osseointegration
Christopher P. Beauchamp, MD

7:45-8:00  Cortical Integration into a Custom Acetabular Device Masquerading as Tumor Recurrence
Adam J. Schwartz, MD

8:00-8:15  Biomechanical Effect of Antirotation Pins on the Stability of a Complaint Pre-stress Limb Salvage Implant
Raffi S. Avedian, MD

8:15-8:30  Aseptic Failure: How does the Compress® Implant Compare to Cemented Stems?
Andrew C. Pedtte, MD

8:30-8:45  Compress® Distal Femoral Rotational Failure: Low Incidence and Ease of Revision
Lee J. Morse, MD

8:45-9:00  Surgical Technique: Methods for Removing a Compress® Compliant Prestress Implant
David G. Mohler, MD

9:00-9:15  Panel Discussion: Compressive Osseointegration Technology
Moderator:
Richard J. O’Donnell, MD

CONVENTIONAL OSSEOINTEGRATION

TRANSLATIONAL STUDIES

9:15-9:30  Bone Ingrowth, Remodeling and Mechanical Stability of Porous Coated Percutaneous Osseointegrated Prostheses
Sujee Jayapalina

9:30-9:45  Retrospective Evaluation of Sequential Radiographs from Load-bearing Percutaneous Osseointegrated Prostheses: A 12-month Ovine Study
Sujee Jayapalina

9:45-10:00  Skin Adaptation to Long-term, Percutaneous Osseointegrated Prosthetic [POP] Implants
Brian M. Holt, PhD

10:00-10:15  New Method of Fixation of In-bone Implanted Prosthesis
Mark C. Pitkin, PhD, DSc

10:15-10:30  Effect of Pore Size, Implantation Time and Nano-surface Properties on Rat Skin Ingrowth into Porous Titanium
Boris I. Prilutsky, PhD

10:30-10:45  Evaluation of Skin and Bone Integration with a Porous Titanium Pylon after Prosthetic Gait Rehabilitation in the Cat
Boris I. Prilutsky, PhD

10:45-11:00  Application of the Basic Principle of Distraction Osteogenesis to In-bone Implantation
Maxim Shevtsov, IP

11:00-11:15  Panel Discussion: Osseointegration and Translational Science
Moderator:
Roy D. Bloebaum, PhD

CLINICAL STUDIES, I

11:15-11:35  Evaluation of 10 years of Experience with End-exo-Femur Prostheses: Background, Data and Results
Dora-Lisa Juhnke, MD

11:35-12:00 pm  Evaluation of 10 years of Experience with Endo-exo-Prostheses: Highlights and Pitfalls of Osseointegrated, Transcutaneous Implants for Rehabilitation of Amputees
Horst H. Aschoff, Dr Med
Sana Kliniken

12:00-12:45  Working Lunch: Transdermal Bone-anchored Implants: A Patient’s Perspective
Mr. Mark Lesek

PROGRAM CHAIRS
Rickard Brånemark, MD, MSC, PhD
University of Gothenburg, Gothenburg, SWEDEN
Richard J. O’Donnell, MD
University of California, San Francisco, CA, USA

COURSE FACULTY (Cont’d)
Orjan Berlin, MD, PhD
University of Gothenburg, Gothenburg, SWEDEN
Roy D. Bloebaum, PhD
University of Utah, Salt Lake City, UT, USA
Charles Bragdon, PhD
Harvard University, Boston, MA, USA
Laurent Frossard, PhD
University of Quebec in Montreal, Quebec, CANADA
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University of Gothenburg, Gothenburg, SWEDEN

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Aarhus University, Aarhus, DENMARK
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Sujee Jayapalina
University of Utah, Salt Lake City, UT, USA
Dora-Lisa Juhnke, MD
Klinik für Allgemein- und Viszeralchirurgie, Berlin, GERMANY
FRIDAY, FEBRUARY 10, 2012 (CONT’D)

CLINICAL STUDIES, II

12:45-1:00  Osseointegrated Prosthesis for the Rehabilitation of Amputees: Two-year Results of the Prospective OPRA Study  
Örjan Berlin, MD, PhD

1:00-1:15  Results for Patients Treated with Osseointegrated Transfemoral Prostheses: Details of Self-reported Problems from the OPRA-study  
Kerstin Haberg, RPT, Ph.D

1:15-1:30  Osseointegrated Prosthetic Considerations and Outcome: of Service-costs and Vibrotactile Sensibility  
Eva Häggström, CPO

1:30-1:45  Clinical and Radiologic Outcomes of Lower Extremity OPRA Patients  
Rickard Brånemark, MD, MSC, PhD

1:45-2:00  Upper Extremity OPRA Patients: Radiologic Outcomes  
Gergios Tsikandylaklis

2:00-2:15  Panel Discussion: OPRA I  
Moderator: Henrik Malchau, MD, PhD

2:15-2:30  Safety and Efficacy of the Osseointegrated Prosthesis for Lower Limb Amputees: Preliminary Results of the First 24 Patients in the Netherlands  
Hendrik Van de Meent, MD

2:30-2:45  Early Results of the Osseointegration Group of Australia Accelerated Protocol  
Munjed Al Muderis, MD

2:45-3:00  Load Bearing Exercises and Functional Outcome of Individuals with Transfemoral Amputation Fitted with OPRA Fixation  
Laurent Frossard, PhD

3:00-3:15  Spatio-temporal Characteristics of Locomotion and Functional Outcomes of Individuals with Transfemoral Amputation Fitted with OPRA Fixation  
Laurent Frossard, PhD

3:15-3:45  Afternoon Break

3:45-4:00  DEXA Evaluation of OPRA Patients  
Peter Holmberg, MD

4:00-4:15  RSA Evaluation of an Implant System for Above the Knee Amputee Patients  
Charles Bragdon, PhD

4:15-4:30  Infectious Complications in OPRA Patients, I  
Klaus Kjær Petersen, MD

4:30-4:45  Infectious Complications in OPRA Patients, II  
Jonathan Tillander, MD

4:45-5:00  Panel Discussion: OPRA II  
Moderator: Örjan Berlin, MD, PhD

5:00-5:30 pm  Closing Remarks: Orthopaedic Osseointegration and the OSOS  
Richard J. O’Donnell, MD

SUNDAY, FEBRUARY 12, 2012

OSSEOINTEGRATION: SURGICAL TECHNIQUES

7:30-8:15 am  Continental breakfast

8:15-8:30  Welcome and Introductory Remarks  
Richard J. O’Donnell, MD

8:30-9:00  Compressive Osseointegration: Practical Aspects and Surgical Technique  
Richard J. O’Donnell, MD

9:00-9:30  Conventional Osseointegration: Practical Aspects and Surgical Technique  
Richard J. O’Donnell, MD

9:30-12:30 pm  Osseointegration: Cadaveric Demonstrations  
Richard J. O’Donnell, MD

12:30-1:00  Compressive Osseointegration: Interesting Cases, Pearls and Pitfalls  
Richard J. O’Donnell, MD

1:00-1:30  Conventional Osseointegration: Interesting Cases, Pearls and Pitfalls  
Richard J. O’Donnell, MD

1:30-1:45  Osseointegration: Question and Answer; Closing Remarks  
Richard J. O’Donnell, MD

1:45 pm  Adjourn
REGISTER TODAY!
For more information or to register online visit our website at www.cme.ucsf.edu.
You may also reach us by calling the Office of CME at (415) 476-4251 or emailing: info@cme.ucsf.edu.

ORTHOPAEDIC TRAUMA INSTITUTE
ATTN: Erin Simon
2550 23rd Street
Building 9, Third Floor
Box 1342
San Francisco, CA 94110
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Printed on Recycled Paper

GENERAL INFORMATION
Advanced registration closes three (3) business days prior to start of course.

HOW TO ENROLL
Tuition: $350 MD, DMD, DDS
$250 Allied Health Professionals and Residents

Post-Course, Osseointegration Wet Lab – February 12, 2012, Surgical Training Facility at the UCSF/SFGH Orthopaedic Trauma Institute
$150 MD, DMD, DDS, and AHP
Payment may be made by Visa, MasterCard, AmEx or check.

REGISTER VIA:
Online: www.cme.ucsf.edu
Mail: Complete course registration form and send with payment to: UCSF Office of CME P.O. Box 45368 San Francisco, CA 94145-0368
Fax: Fax completed registration form to: (415) 502-1795 (be sure to include your credit card number)

On-Site Registration: Generally we are able to accommodate on-site registration at our courses. To register by phone or to inquire about registration status, please call UCSF’s CME Registration Office at (415) 476-5808.

REFUND POLICY
Cancellations received in writing before the first day of the course will be refunded, less a $75 administrative fee. No refunds will be made on cancellations received after that date.

CONFERENCE LOCATIONS
Main Course, February 10, 2012, Mission Bay Conference Center at UCSF 1675 Owens Street San Francisco, CA 94143 – 3008 Phone: 866.431.UCSF

Post-Course, February 12, 2012, Osseointegration Wet Lab – Surgical Training Facility at the UCSF/SFGH Orthopaedic Trauma Institute 2550 23rd Street, Building 9, 3rd Floor, San Francisco, CA

RENTAL CAR
Hertz is offering special rates for participants of this conference; simply call (800) 654-2240 and refer to identification number # 03BW0129, or call your travel agent. You may also make reservations at www.Hertz.com. Advance reservations are recommended.

AIR TRANSPORTATION
Special arrangements have been made with Montgomery Travel. Simply call (800) 391-2287 8:30-5:30pm PST or complete the form on the UCSF web page at www.montgomerytravel.com. In addition to offering lower rates than published airfares, ticketed passengers may take advantage of the after hours emergency service. There is a $40 service fee.

OSOS
Please consider joining the Orthopaedic Surgical Osseointegration Society (OSOS) at http://ososonline.org/. Membership donations for 2012 are now being accepted.

CALL FOR ABSTRACTS
Abstracts will be accepted until 1 January 2012! Please submit your abstracts in English via the website.

SIMULTANEOUS COURSE!
AAOS American Academy of Orthopaedic Surgeons
*Separate registration with AAOS Required
February 7-11, 2012
San Francisco, CA
www.aaos.org
4TH INTERNATIONAL CONFERENCE ADVANCES IN ORTHOPAEDIC OSSEOSTEOSTEOSTEOINTEGRATION and Osseointegration Wet Lab

Main Course, February 10, 2012, Mission Bay Conference Center
Post-Course, February 12, 2012, Osseointegration Wet Lab Surgical Training Facility at the UCSF/SFGH Orthopaedic Trauma Institute

Mail to: UCSF Office of CME
P.O. Box 45368
San Francisco, CA 94145-0368
Fax: (415) 502-1795

Online registration: www.cme.ucsf.edu
Registration Information: (415) 476-5808
Course Information: (415) 476-4251

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<td>☐ $250 Allied Health Professionals and Residents</td>
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Post-Course, February 12, 2012, Osseointegration Wet Lab Surgical Training Facility at the UCSF/SFGH Orthopaedic Trauma Institute

| ☐ $150 MD, DMD, DDS, and AHP |

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Please check our website for up to date information on the course: www.cme.ucsf.edu

Mission Bay Conference Center

UCSF/SFGH Orthopaedic Trauma Institute