

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

UCSF
University of California
San Francisco

7TH INTERNATIONAL CONFERENCE ADVANCES IN ORTHOPAEDIC OSSEOINTEGRATION

MARCH 12-13, 2017



**Marriott Coronado Island Resort & Spa
San Diego, CA, USA**

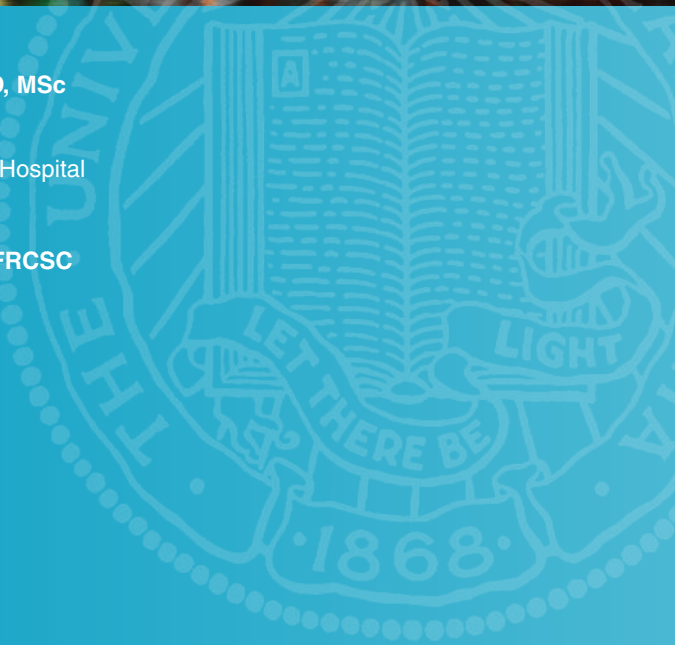
PROGRAM CHAIRS

Rickard Brånemark, MD, PhD, MSc
UCSF ICORES
San Francisco, California, and
CARE Sahlgrenska University Hospital
University of Gothenburg
Gothenburg, Sweden

Anna A. Kulidjian MD, MSc, FRCSC
UCSD Orthopaedic Oncology
San Diego, California

Richard J. O'Donnell, MD
UCSF ICORES
San Francisco, California

Rosanna L. Wustrack, MD
UCSF ICORES
San Francisco, California



7TH INTERNATIONAL CONFERENCE

ADVANCES IN ORTHOPAEDIC OSSEOINTEGRATION

Now in its sixth decade, the field of osseointegration has evolved from its beginnings in basic science research to clinical applications affecting millions of individuals in dental and other reconstructive areas, including orthopaedic surgery. Oncology, arthroplasty, and traumatology patients have benefitted from this technology. Bone-anchored percutaneous devices have proven to be a paradigm shift in amputee rehabilitation. As prospective human studies are beginning in the United States, advances in bionics, robotics, and neuroprosthetics are being leveraged to more closely approximate normal limb function. In this symposium, we will bring together international experts to explore the current state-of-the-art and to envision the future of osseointegrated innovations across these many disciplines.



TARGET AUDIENCE

Orthopaedic oncology, trauma, and arthroplasty surgeons; Orthopaedic residents; Prosthetists; Veterinary professionals; Basic scientists; Allied health professionals in the fields of reconstructive and rehabilitative medicine; Governmental and industrial stakeholders.

OBJECTIVES

Our diverse presentations will review, share, and expand upon contemporary knowledge so as to achieve competency-based learning for attendees:

- Identify basic, translational, and clinical developments across disciplines in the osseointegration field that may be linked to existing patient care needs.
- Apply knowledge gained in the areas of specialized surgical care and advanced prosthetics to actual patient care scenarios in limb salvage, arthroplasty, trauma, and rehabilitative settings.
- Use knowledge of accepted outcomes measures to assess and compare the utility of existing bone-anchored percutaneous devices to serve as a platform for the rehabilitation of individuals with limb loss and the achievement of normalized bidirectional control of external prostheses.



March 12-13, 2017

ACCREDITATION

This activity has been planned and implemented in accordance with the Accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the University of California, San Francisco School of Medicine (UCSF) and the Orthopaedic Surgical Osseointegration Society (OSOS). UCSF is accredited by the ACCME to provide continuing medical education for physicians.

Physicians

UCSF designates this live activity for a maximum of **13.50 AMA PRA Category 1 Credits™**. Physicians should claim only the 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. The approved credits shown above include **9.25** (main course) and **4.25** (wet lab).

Physician Assistants

The American Academy of Physician Assistants (AAPA) accepts courses approved for **AMA PRA Category 1 Credit™** as meeting the continuing education requirements for license renewal.

Nursing Credit

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



SUNDAY, MARCH 12, 2017

OSSEOINTEGRATION: SURGERY, PROSTHETICS, AND PATIENT CARE

12:00-12:45 pm *Buffet Lunch*

12:45-1:00 **Welcome and introductory remarks**
Richard J. O'Donnell, MD, San Francisco, CA, USA

1:00-5:00 **Rotating interactive clinical and laboratory sessions**
One-Hour Each

SESSION 1 **Compressive osseointegration**
Richard J. O'Donnell, MD, San Francisco, CA, USA
Rosanna L. Wustrack, MD, San Francisco, CA, USA

Practical aspects and surgical technique
Saw bone demonstration and hands-on lab
Pitfalls, pearls, and group discussion

SESSION 2 **Conventional osseointegration**
Rickard Brånemark, MD, PhD, MSc, San Francisco, CA, USA

Practical aspects and surgical technique
Saw bone demonstration and hands-on lab
Pitfalls, pearls, and group discussion

SESSION 3 **Patient experience and patient-related outcome measures**
Erik Ax, Hyggen, Norway and others

Group Discussion

SESSION 4 **Advanced prosthetic workshop**
Prosthetic fitting for osseointegration
Powered prosthetics
Advanced robotic control of upper extremity prosthetics

5:00-5:15 **Group Discussion**

5:15-6:00 pm *Refreshments*

program

7th International Conference: Advances in Orthopaedic Osseointegration

PROGRAM CHAIRS AND PLANNING COMMITTEE

Richard J. O'Donnell, MD
San Francisco, CA, USA

Rickard Brånemark, MD, PhD, MSc
San Francisco, CA, USA
Gothenburg, Sweden

Rosanna L. Wustrack, MD
San Francisco, CA, USA

Anna L. Kulidjian, MD, MSc, FRCS
San Diego, CA, USA

COURSE FACULTY

Oskar C. Aszmann, MD
Vienna, Austria

Erik Ax
Hyggen, Norway

Max J. Ortiz Catalán, PhD
Gothenburg, Sweden

Jonathan A. Forsberg, MD, PhD
Bethesda, MD, USA

Matthew Garibaldi, CPO
San Francisco, CA, USA

Hugh Herr, PhD
Cambridge, MA, USA

Todd A. Kuiken, MD, PhD
Chicago, IL, USA

faculty

MONDAY, MARCH 13, 2017

6:30-7:15 am *Continental Breakfast*

7:15-7:30 **Welcome and introductory remarks**
Richard J. O'Donnell, MD, San Francisco, CA, USA

SESSION I: Limb salvage reconstruction / Specialized amputation

7:30-9:00 **Scientific Abstracts**

9:00-9:15 **Panel discussion: Osseointegration in limb preservation**

9:15-10:00 **Keynote address: Advances in amputation surgery and science**
Oskar C. Aszmann, MD, Vienna, Austria

10:00-10:15 *Morning Break*

SESSION II: Osseointegration for patients with amputation

10:15-11:45 **Scientific Abstracts**

11:45-12:00 pm **State-of-the-art address: Osseointegration update**
Rickard Brånemark, MD, PhD, MSc, San Francisco, CA, USA

12:00-1:00 *Working Lunch*
The Department of Defense Osseointegration Program
Jonathan A. Forsberg, MD, PhD, Bethesda, MD, USA

SESSION III: Advanced terminal devices

1:00-2:00 **Scientific Abstracts**

2:00-2:30 **Targeted muscle reinnervation and control systems**
Todd A. Kuiken, MD, PhD, Chicago, IL, USA

2:30-3:00 **Powered prosthetics and novel control strategies**
Hugh Herr, PhD, Cambridge, MA, USA

3:00-3:15 *Afternoon Break*

SESSION IV: Bionic control systems

3:15-4:15 **Scientific Abstracts**

4:15-5:00 **Osseointegration as enabler of neural prosthetic control**
Max J. Ortiz Catalán, PhD, Gothenburg, Sweden

5:00-5:15 pm **Closing remarks: Orthopaedic osseointegration and the OSOS**
Richard J. O'Donnell, MD, San Francisco, CA, USA





The Orthopaedic Surgical Osseointegration Society (OSOS) seeks to foster and promote knowledge amongst health care professionals of the process by which bone attaches to metallic implants used in orthopaedic reconstructions.

For more information or to register online visit our website at cme.ucsf.edu

You may also reach us by calling the Office of CME at (415) 476-4251 or emailing: info@ocme.ucsf.edu.

CALL FOR ABSTRACTS

Abstract submission deadline is January 31, 2017. Refer to the website for more details regarding electronic submission of abstracts in English.



ORTHOPAEDIC
TRAUMA INSTITUTE

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San Francisco, CA 94110

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GENERAL INFORMATION

Advanced registration closes one (1) business day prior to start of course. On-site registration fees, if applicable, will be applied after this date.

HOW TO ENROLL

For more information, visit our website at cme.ucsf.edu

You may also reach us by calling the Office of CME at (415) 476-4251 or emailing info@ocme.ucsf.edu.

March 12: Osseointegration Lab

\$150 MD, DMD, DDS, and AHP, Residents, Military, Governmental

March 13: Scientific Session

\$350 MD, DMD, DDS
\$250 AHP, PA's and Residents
\$150 Military, Governmental

Payment may be made by Visa, MasterCard, AmEx or check.

REGISTER VIA:

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

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 HOTEL

Marriott Coronado Island Resort & Spa
2000 Second Street
Coronado, CA, 92118
(619) 435-3000
<http://www.marriott.com>

A block of guestrooms has been reserved at the special UCSF conference rate of \$219+tax. You are urged to make your reservations early. Please contact Erin.simon@ucsf.edu if you have any rooming questions.

CONCURRENT COURSES

(Separate registration required for each course)

AAOS American Academy of Orthopaedic Surgeons

www.aaos.org
March 14-18, 2017
San Diego, CA

MSTS Musculoskeletal Tumor Society Specialty Day

www.msts.org
March 18, 2017
San Diego, CA

ORS Orthopaedic Research Society

www.ors.org
March 19-22, 2017
San Diego, CA

MMJ17003

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 San Francisco, CA 94145-0368
 Fax: (415) 502-1795

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

Dr. Ms. Mr. Mrs.

 Last Name First M.I.

 Degree Specialty

 Address

 City State Zip

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 Email

Address Label Code Letter (see address label: example, A, B, C, D, etc.) _____

Would you like to be on our priority email list? Yes No

Date of birth to be used as OCME registrant number: ____ / ____ / **XX**
 Month Day

Please indicate if you have any special needs: _____

REGISTRATION FEES (Receipt/Confirmation will be mailed within two to four weeks):

- MARCH 12: OSSEOINTEGRATION LAB**
- \$150** MD, DMD, DDS, and AHP, Residents, Military, Governmental
 - MARCH 13: SCIENTIFIC SESSION**
 - \$350** MD, DMD, DDS
 - \$250** AHP, PA's and Residents
 - \$150** Military, Governmental

- MARCH 12 - 13**
- \$500** MD, DMD, DDS
 - \$400** AHP, PA's and Residents
 - \$300** Military, Governmental

Make checks payable to *UC Regents*

Please charge my credit card: Visa MasterCard AmEx \$ _____

 Card # Expiration date

 Name on Card (Please Print) Authorized Signature

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.

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



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