



**ASM WEST / MATSCI UCI
Symposium on Biomaterials, Medical Devices and Tools:
Challenges with Design, Fabrication and Testing**

November 14th, 2011

UC Irvine

4100 Calit2 Building
Irvine, CA. 92697-2800
Phone: 949.824.6900 (for directions only)

INTRODUCTION BY:

Gregory Washington, Ph.D.
Dean, The Henry Samueli School of Engineering
UC Irvine

KEYNOTE ADDRESS:

From "Solution Looking for Problem" to "Strategic Biomaterial" The Nitinol Story
Ming H. Wu, Ph.D.
Vice President Engineering Advanced Materials Technology
Edwards LifeSciences LLC

Registration (Includes Technical Program, Breakfast, Lunch and Coffee Breaks):

- ASM members: \$40 (register by October 31st) - \$80 at the door
- Non-members: \$60 (register by October 31st) - \$120 at the door
- Full-time Students: \$10 (must show valid ID)

To register please see our website at www.asmorange coast.com or email us at asmorange coast@gmail.com

SPONSORS:



Preliminary Program

7:30 – 8:30			Registration and Continental Breakfast		
8:30 – 8:45	Gregory Washington, Ph.D. Dean, The Henry Samueli School of Engineering, UCI	Introduction			
8:45 – 9:25	Keynote: Ming H. Wu, Ph.D. Vice President Engineering Advanced Materials Technology Edwards LifeSciences LLC	From "Solution Looking for Problem" to "Strategic Biomaterial" The Nitinol Story			
9:25 – 9:55	Robert Gansert, Ph.D. President AMTS Inc.	Improved Properties of Light Alloys (Ti-,Ti-alloys,Mg-,Mg-alloys) Using Near-Nano and Nano-Based Materials for Medical Based Applications			
9:55 – 10:25	Jack Stiglich, Ph.D. Consultant Ultramet	Medical Materials, Devices by Chemical Vapor Deposition			
10:25 – 11:00			Morning Break- Tour of LEXI Microscopy Center and Table Top Exhibits		
11:00 - 11:30	Sanjai Shrivastava, Ph.D. Director of R & D Neurovascular Division of EV3, Inc	Engineering Solutions to Treat Cerebro-Vascular Aneurysms and Ischemic Stroke			
11:30 – 12:00	Huinan Liu, Ph.D. Department of Bioengineering University of California, Riverside	Challenges in Orthopedic Biomaterials			
12:00 – 1:30			Luncheon at University Club All-You-Can-Eat Buffet featuring two Daily Specialty Soups, a variety of Cold Entrees, a Salad Bar, and Chef's three Daily Entrees		
1:30 - 2:00	Sepehr Fariabi, Ph.D. Director of Research and Development IDEV Technologies, Inc.	Key Design and Materials & Processing Challenges During Development Cycle of Nitinol Endovascular Implantable Devices			
2:00 – 2:30	Guna Selvaduray, Ph.D. Department of Chemical and Materials Engineering San Jose State University	Surfaces and the Bulk – Are They Identical?			
2:30 – 3:00	Wendy Liu, Ph.D. Department of Biomedical Engineering University of California, Irvine	Probing the cell-biomaterial interface to improve the host response to medical implants			
3:00 – 3:30			Afternoon Break- Table Top Exhibits		
3:30 – 4:00	James Earthman, Ph.D. Department of Chemical Engineering and Materials Science University of California, Irvine	Development of Percussion Diagnostics in Evaluating Natural and Synthetic Materials			
4:00 - 4:30	Jian Xie, Ph.D. Senior Manager Advanced Bionics	Laser Hermetic Welding of Implantable Medical Devices			
4:30 – 5:00	Masaru Rao, Ph.D. Department of Mechanical Engineering University of California, Riverside	High-Aspect Ratio Titanium Micromachining: Enabling Technology for In Vivo Therapeutic Microdevice Applications			
5:00 – 5:15			Closing Remarks		
5:30			Networking at Steelhead Brewery		