



## 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:**

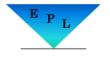
From "Solution Looking for Problem" to "Strategic Biomaterial" The Nitinol Story Ming H. Wu, Ph.D. Vice President Engineering Advanced Materials Technology Edwards LifeSciences LLC

#### 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 <u>www.asmorangecoast.com</u> or email us at asmorangecoast@gmail.com

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# **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	