

# *The 30th JUACEP Seminar*

第30回 名古屋大学日米協働教育プログラムセミナー

## **“Additive Manufacturing of Titanium Alloys for Aerospace Applications”**

**Lecturer: Professor Jenn-Ming Yang**  
Department of Materials Science and Engineering  
University of California, Los Angeles



### **BIOGRAPHY:**

Associate Dean, Henry Samuel School of Engineering and Applied Science  
Professor, Department of Materials Science and Engineering, UCLA  
Ph.D. (1986) Applied Sciences - Metallurgy, University of Delaware, Delaware  
B.S. (1979) Materials Science and Engineering, National Tsing-Hua University, Taiwan

### **HONORS AND AWARD:**

R&D 100 Award, 2010  
Best Paper Award, Japan Society of Mechanical Engineers, 2007  
Ford Foundation Award, 1994  
Alcoa Foundation Award, 1993  
Presidential Young Investigator Award, National Science Foundation, 1990-1995

**Date: July 9, 2015 (Thu) 15:00-16:30**

**Venue: Rm. 222 (2<sup>nd</sup> floor, Engg. Bldg. 2)**

**\*No registration required.**

### **ABSTRACT:**

Additive manufacturing (AM or 3-D printing) is a rapidly emerging manufacturing technology that fabricates 3-D objects directly from digital models through an additive process. Various technologies for additive manufacturing of metallic materials have been developed recently. These include direct metal laser sintering (DMLS), selective laser melting (SLM), and electron beam melting (EBM). However, additive manufacturing of metallic materials is a relatively new technology and there is a need for understanding the basic science of each of these AM processes. In this presentation, the microstructure and mechanical properties of titanium alloys and titanium aluminide fabricated using electron beam melting process will be discussed.

**Inquiry: JUACEP Office, Mech. Sci. Eng. (Ext. 2799)**