

THE DEPARTMENT OF CHEMICAL ENGINEERING presents the



## UNDERGRADUATE SEMINAR

APRIL 22, 2014

BRANDON BROWN Process Manager

CHOLA ALLURI Sustaining Group Manager

IAN SCHWERDT Process Engineer

10:45-11:35AM IN WEB L104

### TITLE OF TALK: An Introduction to Flash Memory

#### Abstract:

The semiconductor industry is experiencing tremendous growth both in the US and internationally. One of the fastest growing segments of the industry is Flash memory which has many applications in the electronic devices used by the average consumer. Manufacturing flash memory involves several chemical processes and involves several different engineering disciplines. IM Flash Technologies in Lehi, Utah manufactures NAND memory with an industry-leading technology. Engineers at IM Flash work on the challenging task of continuously shrinking circuit geometries while maintaining needed device performance. Semiconductor engineers must have great problem solving ability, knowledge of chemical processes, and the ability to adapt in a constantly changing environment.

#### Short Biography:

Brandon received his ChmE degree from the University of Utah in 1993. Upon graduation he joined Micron Technology and spent 15 years working on different memory products. He then transferred to Micron's joint venture IM Flash Technologies and has spent the last five years working on NAND memory. Throughout his career in the semiconductor industry, Brandon has worked as a process engineer and manager in the Quality Assurance, Chemical Vapor Deposition, and Dry Etch departments.

Chola received his MS degree in Mechanical Engineering from the University of Utah in 2007. Upon graduation he joined IM Flash Technologies as a shift engineer in the Diffusion department. He later held the roles of Process Owner and Process & Equipment Manager prior to his current role. Chola also received his MBA from the University of Utah in 2013.

Ian received his ChmE degree from the University of Utah in 2013. In the summer of 2012, he did an internship at IM Flash Technologies in the Diffusion department. Upon graduation he joined IM Flash as a shift engineer in the Diffusion department. He then moved into his current role as a Process Engineer.