Apr 12th, 11:00 AM - 12:00 PM

Keynote Speaker - Jason Babcock, '94, Ph.D., Research Scientist, Ultramet, Inc.: "Development of Components for the Next Generation Space Shuttle"

KEYNOTE SPEAKER

"DEVELOPMENT OF COMPONENTS FOR THE NEXT GENERATION SPACE SHUTTLE "

Jason Babcock '94, Ph.D., Research Scientist, Ultramet, Inc.

11:00 a.m. Anderson Auditorium (C101)

Jason Babcock graduated from Illinois Wesleyan University with a B.A. in Chemistry in 1994. He went on to the University of Chicago, where he completed an M.S. in 1995, and a Ph.D. in inorganic chemistry in 1998. While at the University of Chicago, Jason was a research assistant in Lawrence Sita's group, where his work included probing the metathesis of carbon dioxide with metal amides, and the development of a new method for the formation of high molecular weight polystannanes via transition metal catalyzed dehydropolymerization. Following this work Jason went on to a postdoctoral fellowship in Tobin Marks' group at Northwestern University. While there he prepared novel inorganic compounds that were used as MOCVD precursors and assisted in the growth of high-purity metal oxide and nitride films using these precursors. For the last three years Jason has been a research scientist at Ultramet, Inc., in Pacoima, California, where he has managed small business innovative research (SBIR) programs, with funding in excess of $1 million in the past year. He is an expert in catalysis, thermal barrier coatings, volatile organic compound removal, and ceramic matrix composites, and film growth by sol gel and chemical vapor deposition. His recent publications include "Economical fabrication of thick-section ceramic matrix composites," and "Advanced monopropellant catalysts."