

**John Brehm**  
**Department of Mechanical and Aerospace Engineering**  
**Princeton University, Princeton NJ 08544-5263**  
**Phone: (609) 258-0316 FAX: (609) 258-6109**  
**e-mail: [mchaos@princeton.edu](mailto:mchaos@princeton.edu)**



### **Brief Biography**

John graduated from Princeton with a M. S. E. in Combustion Science, Mechanical and Aerospace Engineering. His love is for Materials Science and his thesis topic was “Self-Propagating High Temperature Synthesis of TiN from Powdered Titanium and Supercritical Nitrogen.” He is also a former employee of Pratt & Whitney’s Combustion, Augmentor, and Nozzle Group where he worked as a Materials and Project Engineer.

John will be with the MURI team for the 2007-2008 academic year, working with the Princeton Fuels and Combustion Lab testing jet fuels in its Variable Pressure Flow Reactor, characterizing the combustion characteristics of these fuels with FTIR and GC analyses, and determining radicals via laser diagnostics. At the completion of his term, he will be returning to graduate school as a PhD candidate in Materials Science, with a focus on electronic and magnetic properties of materials.