

CURRICULUM VITAE

Loral O'Hara

Research Engineer
Applied Ocean Physics and Engineering
Smith Building, Rm 310
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

Telephone: (508) 289-3908

Fax: (508) 457-2154

E-mail: lohara@whoi.edu

EDUCATION:

M.S. Aeronautics and Astronautics, Purdue University, December 2009

B.S. Aerospace Engineering, University of Kansas, December 2005

PROFESSIONAL EXPERIENCE:

Research Engineer, Woods Hole Oceanographic Institution, May 2012 - present

Engineer II, Woods Hole Oceanographic Institution, Nov 2009 - May 2012

Graduate Research Fellow, Purdue University, Aug 2007 - Oct 2009

Associate Engineer, Rocketplane Inc., Jan 2006 - May 2007

Engineering Intern, Lockheed Martin Aeronautics Company, Summer 2005

NASA Academy Research Associate, Goddard Space Flight Center, Summer 2004

Intern, Jet Propulsion Laboratory, Summer 2003

HONORS & AWARDS:

National Science Foundation Graduate Research Fellowship, 2008

Ross Fellowship, Purdue University, 2007

NASA Reduced Gravity Student Flight Opportunities Program, 2005

NASA Academy, Goddard Space Flight Center, 2004

National Merit Scholarship (University of Kansas), 2001-2005

PROFESSIONAL AFFILIATIONS:

Member, American Geophysical Union, Jan 2012 – present.

RESEARCH INTERESTS:

Development of exploration vehicles that advance our capacity for exploring extreme environments. Areas of specialty include mechanical systems design and analysis, aero/hydrodynamics, and systems engineering.

SUPERVISION AT WHOI:

Marjorie Lucas, Engineering Assistant II, Summer 2011

CRUISE PARTICIPATION:

Dec 2011: R/V *Atlantis*, Gulfport, MS to Gulfport, MS. Supported HOV *Alvin* operations.

Dec 2011: R/V *Atlantis*, Gulfport, MS to Jacksonville, FL. Packed and prepared *Alvin* vehicle for shipping to Woods Hole.

Jun 2013: R/V *Falkor*, St. Petersburg, FL to Montego Bay, Jamaica. Supported HROV *Nereus* operations.

PAPERS PRESENTED AT MEETINGS:

O'Hara, L., Yu, Y., Anderson, W.E., Merkle, C., Smith, R., "A Vortex Shedding-Based Combustion Response Model Applied to an Unstable Liquid Rocket Combustor," 45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Denver, CO, 2-5 Aug, 2009.

O'Hara, L., Sisco, J. C., Portillo, E., Anderson, W.E., "Measurement of Phase Relationship between Vortex Shedding and an Unsteady Acoustic Field," 44th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Hartford, CT, 21-23 July, 2008.

Yu, Y., O'Hara, L., Sisco, J., Anderson, W.E., "Experimental Study of High-Frequency Combustion Instability in a Continuously Variable Resonance Combustor (CVRC)," 47th AIAA Aerospace Sciences Meeting including The New Horizons Forum and Aerospace Exposition, Orlando, Florida, 5-8 January, 2009.

CERTIFICATIONS:

Scientific Diver, American Association of Underwater Sciences (AAUS), June 2011 – present

Advanced Open Water, NITROX, Drysuit certified, National Association of Underwater Instructors (NAUI), Aug 2011 – present

Open Water SCUBA certified, Professional Association of Divers Instructors (PADI), Sept 2008 – present

Private Pilot License, Sept 2000 – present