

Curriculum Vitae

Dr. David DeLonga, MD, PhD, ME, PE, ACTAR

Profession: Dr. DeLonga is a physician-engineer specializing in the relationship between injuries and accidents. Dr. DeLonga utilizes engineering analysis together with medical records and anatomic/physiological imaging to determine if the injury mechanism and severity is consistent with the accident event.

Licensure: Medical License, District of Columbia
Medical License, State of Virginia
Professional Engineer, State of Virginia
Certificate of Full Accreditation from ACTAR– Registration #3942

Education: Harvard University School of Public Health, Boston, MA
2000 - Master of Public Health
University of Miami School of Medicine, Miami, FL
1998 - Doctor of Medicine
Woods Hole Oceanographic Institution, Woods Hole, MA
1989 - Doctor of Philosophy in Ocean Engineering
Massachusetts Institute of Technology, Cambridge, MA
1989 - Doctor of Philosophy in Mechanical Engineering
1981 - Master of Science in Mechanical Engineering
University of Maryland, College Park, MD
1980 - Master of Business Administration
United States Naval Academy, Annapolis, MD
1980 - Bachelor of Science in Mechanical Engineering

Experience: *Bloomberg Consulting* - Pensacola, FL
2012 to present - Consultant

Naval Medical Center Portsmouth - Portsmouth, VA
2011 to present - Chairman, Scientific Review Committee
2011 to present - Navy Nuclear Medicine Specialty Leader
2010 to present - Staff Diagnostic Radiology Physician
2010 to present - Staff Nuclear Medicine Physician

Harvard Medical School - Boston, MA
2009 to 2010 – Nuclear Medicine Fellow Physician



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Naval Medical Center Portsmouth - Portsmouth, VA

2005 to 2009 - Diagnostic Radiology Resident Physician

2007 to 2008 - Chairman, Institutional Review Board #1

Bloomberg Consulting - Pensacola, FL

2003 to 2005 - Consultant

Naval Aerospace Medical Institute - Pensacola, FL

2004 to 2005 - Department Head, Physical Examinations

2004 to 2005 - Associate Director, Aerospace Medicine Residency Program

2000 to 2005 - Instructor, Aviation Mishap Survivability

2000 to 2002 - Aerospace Medicine Resident Physician

Naval Aerospace Medical Research Laboratory - Pensacola, FL

2002 to 2004 - Aerospace Medicine Research Physician

National Naval Medical Center - Bethesda, MD

1998 to 1999 - Transitional Intern Physician

Office of Naval Research - Arlington, VA

1992 to 1994 - Deputy Director, Math and Physical Sciences Directorate

U.S.S. Kamehameha SSBN-642 (Nuclear missile submarine) - Groton, CT

1989 to 1992 - Chief Engineer Officer

U.S.S. Henry Clay SSBN-625 (Nuclear missile submarine) - Charleston, SC

1989 to 1989 - Chief Engineer Officer

U.S.S. Hammerhead SSN-663 (Nuclear attack submarine) - Norfolk, VA

1982 to 1985 - Reactor Controls Officer, Communications Officer, Main

Propulsion Assistant Officer

Certifications:

- ◆ Board Certification in Aerospace and Occupational Medicine by the American Board of Preventive Medicine
- ◆ Board Certification in Diagnostic Radiology and Certificate of Added Qualification in Nuclear Radiology by the American Board of Radiology
- ◆ Board Certification in Nuclear Medicine by the American Board of Nuclear Medicine
- ◆ Basic Life Support

Faculty

Appointments:

- ◆ Assistant Professor of Radiology, Uniform Services University of the Health Sciences, Bethesda, MD

Professional

Associations:

- ◆ American College of Preventive Medicine
- ◆ American College of Radiology
- ◆ American Roentgen Ray Society
- ◆ American Society of Aerospace Medicine Specialists
- ◆ Aerospace Medical Association (Associate Fellow)
- ◆ Association for the Advancement of Automotive Medicine
- ◆ Pi Tau Sigma (Mechanical Engineering Honor Society)
- ◆ Radiological Society of North America
- ◆ Society of Automotive Engineers
- ◆ Society of Nuclear Medicine
- ◆ Society of United States Naval Flight Surgeons

Professional

Development:

- ◆ Armed Forces Institute of Pathology: Radiologic Pathology Correlation
- ◆ Association for the Advancement of Automotive Medicine: The Biomechanics of Impact: Understanding the Limits of Human Tolerance
- ◆ Association for the Advancement of Automotive Medicine: Car Crashes and Occupant Injuries: A Team Approach to Crash Investigation
- ◆ Society of Automotive Engineers: Injuries, Anatomy, Biomechanics, and Federal Regulation Seminar
- ◆ Aerospace Medical Association: Medical Aircraft Accident Investigation Techniques
- ◆ NASA: Space Operations Medical Support Training Course
- ◆ US Navy: Aircraft Mishap Investigation and Prevention Course
- ◆ US Navy: Aviation Safety Officer Course
- ◆ US Navy: Aviation Medicine Flight Course
- ◆ US Army: Combat Casualty Care Course

Presentations:

- ◆ Nuclear Medicine for the Emergency Radiologist. Presented at the American Society of Emergency Radiology Annual Scientific Meeting and Postgraduate Course, New Orleans, LA, September 2012.
- ◆ Faculty, American College of Preventive Medicine Annual Board Review Course (Aerospace Medicine Subspecialty), Washington, DC, annually from 2003 to present.
- ◆ Utility of Bone Scintigraphy as an Adjunct to FDG-PET in the Initial Evaluation of Ewing's Sarcoma. Poster presentation at the Society of Nuclear Medicine Annual Meeting, Salt Lake City, UT, May 2010.
- ◆ Post-Mortem Injury Detection in an Aviation Mishap: Computed Tomography Imaging versus Autopsy. Presented at the American Academy of Forensic Sciences Annual Meeting, Denver, CO, February 2009.
- ◆ Current Topics in Aerospace Medicine Research. Presented to the Aviation Life Support Systems Operational Advisory Group, San Diego, CA, June 2003.
- ◆ Current Projects in Naval Aerospace Medicine Research. Presented at AirVenture 2003, Oshkosh, WI, August 2003.
- ◆ Transient Ischemic Attack. Presented during Grand Rounds at the Aerospace Medicine Association Scientific Meeting, Reno, NV, May 2001.

Publications:

- ◆ DeLonga DM. Proteinuria in Aviation Personnel: Waiver Policy in the U.S. Navy. *Aviation, Space, and Environmental Medicine* 2003; 74:664-8.
- ◆ DeLonga DM. You're the Flight Surgeon: Latent Hyperopia. Submitted for publication in *Aviation, Space, and Environmental Medicine Journal*. June 2002.
- ◆ DeLonga DM. Cases from the Aerospace Medicine Residents' Teaching Files: Oxygen Paradox. *Aviation, Space, and Environmental Medicine* 2002; 73:1135-7.
- ◆ DeLonga DM. Topics in Aerospace Medicine Research: A New Paradigm for Hypoxia Training? Contact: *The Journal of the Society of U.S. Naval Flight Surgeons* 2002; XXVI, 1: 33-5.
- ◆ Contributing Editor, *Pocket Reference to Aircraft Mishap Investigation*. Naval Safety Center, Aeromedical Division. Fifth Edition, 2001.
- ◆ DeLonga DM, Siatkowski RM, Cobo-Lewis AB, Tusa RJ. Possible mechanism for reverse rebound nystagmus in human albinos: computer simulations. *Invest. Ophthalm. and Vis. Sci. Suppl (ARVO)* 1996; 37:S277.
- ◆ Tusa RJ, Herdman SJ, DeLonga DM, Suzuki A. Specific high-acceleration vestibulo-ocular reflex deficit in the presence of normal caloric and rotary chair. *Neurology [Suppl]* 1996; 46: A393.
- ◆ DeLonga, DM. A Control System Design Technique for Nonlinear Discrete Time Systems. PhD Thesis, Mechanical Engineering, Massachusetts Institute of Technology and Ocean Engineering, Woods Hole Oceanographic Institution, November 1988.
- ◆ Yoerger DR, Grosenbaugh M, Slotine JJ, DeLonga DM. Dynamics and Control of Underwater Vehicles. Fifth International Symposium on Unmanned Untethered Submersible Technology, University of New Hampshire, 1987.

- ◆ DeLonga DM, Yoerger DR, Slotine JJ. Trajectory Control of Nonlinear, Time-Varying, Discrete Time Systems using Discrete Time Sliding Control. Fifth International Symposium on Unmanned Untethered Submersible Technology, University of New Hampshire, 1987.
- ◆ Williams JH, DeLonga DM, Lee SS. Correlations of Acoustic Emission with Fracture Mechanics Parameters in Structural Bridge Steels During Fatigue. *Materials Evaluation* 1982; 40:11.
- ◆ DeLonga DM. The Correlation of Acoustic Emission with Fracture Mechanics Parameters in Structural Steels. MS Thesis, Mechanical Engineering, Massachusetts Institute of Technology, May 1981.