

Curriculum Vitae Nancy M. Haegel

Experience and Education

- 2014 - Director, Materials Science Center, National Renewable Energy Laboratory
- 2009 - 2014 Distinguished Professor of Physics, Naval Postgraduate School
- 2003 - 2009 Professor, Dept. of Physics, Naval Postgraduate School
- 1993 - 2003 Professor, Fairfield University, Dept. of Physics. Assoc. Prof. (1993-98).
- 1987 -1993 UCLA, Department of Materials Science and Engineering,
Associate. Prof. (1989-93). Vice-chair (1991-93). Assistant Prof. (1987-89).
- 1986-1987 Siemens Research Laboratory, Erlangen, West Germany
- 1981-1985 Lawrence Berkeley Laboratory
- 1981-1985 University of California, Berkeley: MS in Materials Science 1983. Ph.D. in Materials
Science 1985; Minors: Solid State Physics, Applied Mathematics
Thesis Advisor: Professor Eugene Haller
- 1977-1981 University of Notre Dame; BS in Materials Science and Metallurgical Engineering,
Summa cum laude, co-valedictorian

Research interests: High resolution transport imaging at the nanoscale. Polymer emitters for remote signaling. Electrical and optical characterization, infrared detectors; transport behavior of high resistivity semiconductors and novel characterization techniques.

Major Awards (Research and Teaching) and Fellowships

- 1981 National Science Foundation Graduate Fellowship
- 1984 Ross N. Tucker Memorial Award from AIME-Electronic Material Division
- 1985 John Dorn Award; Berkeley Chapter of ASM
- 1988 David and Lucile Packard Fellowship in Science and Engineering
- 1989 National Science Foundation Presidential Young Investigator Award
- 1989 Robert Lansing Hardy Gold Medal from TMS
- 1990 Defense Science Study Group (DSSG), Institute for Defense Analyses
- 1990 TRW Innovative Teaching Award, School of Engineering, UCLA
- 1990 Kellogg Foundation National Fellowship
- 1997 Alpha Sigma Nu Teacher of the Year, Fairfield University
- 1999 Elected to membership in Connecticut Academy of Science and Engineering
- 2000 Alexander von Humboldt Research Fellowship, Max Planck Institute, Garching
- 2004 American Physical Society Prize for Research at an Undergraduate Institution
- 2007 NPS GSEAS Award for Research Excellence
- 2008 Admiral John Jay Schiefflin Award for Excellence in Teaching, NPS
- 2009 Distinguished Professor
- 2010 Allen Griffen Award for Excellence in Post Secondary Teaching,
Monterey Community Foundation
- 2012 Senior Scholar Fulbright Award, Hebrew University, Israel

Professional activity (* indicates current)

*Board of Trustees, University of Notre Dame (1987-1990, 1996-present)

*Connecticut Academy of Science and Engineering, corresponding member

*American Physical Society

*Materials Research Society

Executive Board of the Faculty Council, NPS 2011-2013

Chair of the Faculty, Naval Postgraduate School 2011-2012

APS Committee on the Status of Women in Physics CSWP 2006-2009

Scientific Advisory Council, Research Corporation (1997-2004)

APS Award Committee for Research at an Undergraduate Institution (2010-2012)

Apker Award Committee, American Physical Society (2003-2006)

Board of Trustees, Stonehill College (1993-1999)

Thesis Direction

Eight (8) PhD Degrees, 7 MS degrees supervised at UCLA (1988 -93)

Twenty three (23) undergraduate research theses Fairfield University (1994-2003)

Forty (40) MS degrees supervised at NPS, one PhD; (2003-2014)

Recent Funded Research

National Science Foundation – Transport Imaging of Nanowires (collaborative)

National Science Foundation – Instrumentation for Materials Research: Transport Imaging

Dept. of Homeland Security - High Z Materials for Nuclear Radiation Detectors (collaborative)

OSD Technology Transition Initiative – Development of Polymer IIFF Devices

Office of Naval Research – Triggered Vehicle Mounted Identification Friend or Foe

DARPA – Transport Imaging of Nanowires for Lasers and Sensors

Publications ~ 84 journal publications, 3 book chapters, 40 conference publications

Recent Invited Presentations (2010 – 2014)

Nanophotonics Multiprobe Workshop, Boston College; Hebrew University, Open University of Israel, Ben Gurion University, Israel Physics Society, SPIE Nanoepitaxy Symposium, UC Berkeley Dept. of Materials Science, Crystal Growth and Epitaxy Conference, Redlen Technologies, GE Global Research, CLEO NSOM Working Group, Johns Hopkins Applied Physics Laboratory, IEEE Nanomaterials and Devices Conference

Outreach Activities

Physics: The Science of Energy and Matter – interactive presentation to 5th grade Forest Grove Elementary School, 2004 – 2012

US- Israel Fulbright Initiative on Women in Science - 2012

APS Committee on the Status of Women in Physics and site visits – 2006-2009

Science and the Citizen – Kellogg Foundation funded project with Roger Ludlowe Middle School (Patty Hunt, lead teacher) – 2000-2003