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Chryssostomos Chryssostomidis

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People

FACULTY

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TEACHING STAFF

LECTURERS

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SUPPORT STAFF

POSTDOCS

VISITORS

FACULTY CLOUD

Education:

Ph.D. in Ship Systems Analysis, Massachusetts Institute of Technology, 1970

S.M. in Naval Architecture, Massachusetts Institute of Technology, 1968

S.M. in Naval Architecture & Marine Engineering, Massachusetts Institute of Technology, 1967

B.Sc. in Naval Architecture, Newcastle-Upon-Tyne University, UK, 1965

MIT Service:

1982-Present Professor of Ocean Engineering, MIT

1994-2002 Department Head, Department of Ocean Engineering

1981-82, 1994 Acting Department Head, Department of Ocean Engineering

1970-1982 Associate & Assistant Professor of Naval Architecture, MIT

Other Related Experience:

Research Cruises:

Nisyros Expedition, Greece, Chief Scientist, June 2001

Baratti Expedition, Italy, MIT AUV Lab Team Leader, August 2001

Argentario Expedition, Italy, MIT AUV Lab, Chief Scientist, July 2002

Kythira Expedition, Greece, MIT AUV Lab, Co-Chief Scientist, June 2004

Selected Graduate Students and Post Doctoral Advisees:

Paul Erb, British Petroleum

Prof. Michael S. Triantafyllou, MIT

Gail Baxter, Marathon Oil

Prof. Nicholas M. Patrikalakis, MIT

Myron Fedak, Exxon

Prof. Michael Bernitsas, University of Michigan

Prof. George Triantafyllou, National Technical University of Athens

Dr. Bradley Moran, Draper Laboratory

Jerome Vaganay, Bluefin Robotics

Consulting, patents, etc.:

Metals Extraction from Sea Water, U.S. Pat. 4, 293, 527, 1981, w/ D.T. Morgan and G.J. LaRue

Lorentz Acoustic Transmitter for Underwater Communications, 2006, w/ D. Sura, G. Karniadakis, C. Jaskolski and R. Kimball (pending)

Professional Registration:

Principal Publications (last two years:)

1. "Autonomous Underwater Vehicle Design for Surveying the Deep Ocean Floor." (poster) 3rd International Symposium on Deep-Sea Corals, November 28th December 2nd 2005, Miami, FL. K. McLetchie, F. Hover, J. Morash, V. Polidoro, C. Chryssostomidis
2. "Affordable Deep Ocean Exploration with a Hovering Autonomous Underwater Vehicle." 2nd International Conference on Informatics in Control, Automation and Robotics (ICINCO) 2005, Barcelona, Spain. V. Polidoro, S. Desset, C. Chryssostomidis, F. Hover, J. Morash, R. Damus
3. "Adapting a Survey-Class AUV for High Resolution Seafloor Imaging." 14th International Symposium on Unmanned Unmetered Submersible Technology (UUST) 2005, Durham, NH. J. Morash, R. Damus, S. Desset, V. Polidoro, C. Chryssostomidis
4. "Sensitivity Analysis and Low-Dimensional Stochastic Modeling of Shipboard Shipboard Integrated Power Systems." IEEE 39th Power Electronics Specialists Conference, June 15-19, 2008. Prempraneerach, M.S. Triantafyllou, C. Chryssostomidis, and G.E. Karniadakis
5. "Gradient-Free Stochastic Sensitivity Analysis of the Shipboard Power System." International Simulation Multi-Conference, Edinburgh, Scotland, June 16-19, 2008. Prempraneerach, M.S. Triantafyllou, C. Chryssostomidis, and G.E. Karniadakis
6. "Stochastic modeling of integrated power system coupled to hydrodynamics in the all-electric ship," International Symposium on Power Electronics, Electrical Drives, Automation and Motion, June 2008, Prempraneerach, C. Chryssostomidis, M.S. Triantafyllou, and G.E. Karniadakis

Scientific & Professional Societies:

Royal Institute of Naval Architects, England (Member)

Society of Naval Architects & Marine Engineers, USA (Fellow)

Honors & Awards:

The Captain Joseph H. Linnard Prize, 1978, Best paper contributed to the proceedings of the Society of Naval Architects & Marine Engineers

NAVSEA Research Professor, 1985-1987

School of Engineering Professor of Teaching Innovation, 1991-1993

Institutional and Professional Service (last five years):

Director of the MIT Sea Grant College Program

Director of the Design Laboratory

Head of the MIT Sea Grant Autonomous Underwater Vehicles laboratory

Professional development activities in the last five years:

Research, supported by:

Office of Naval Research

National Science Foundation

Naval Sea Systems Command

National Oceanic and Atmospheric Administration

