

Dr. Krish P. Thiagarajan

Alston D. and Ada Lee Correll Presidential Chair in Energy

Department of Mechanical Engineering

(207) 581-2167

University of Maine

krish.thiagarajan@maine.edu

Orono, Maine 04469

Professional Preparation

Postdoctoral Research	Maine Hydrodynamics, University of Michigan	1995
Intern	Offshore Engineering, Amoco Production Company	1993
Ph.D.	Naval Arch./Marine Engineering, University of Michigan	1993
M.S.E.	Mechanical Engineering, University of Michigan	1992
M.S.E.	Naval Arch./Marine Engineering, University of Michigan	1992
M. Eng.	Ocean Engineering, Memorial University Canada	1989
B. Tech.	Naval Architecture, Indian Institute of Technology, India	1986

Appointments

2011 - present	University of Maine Alston D. and Ada Lee Correll Presidential Chair in Energy & Professor, Department of Mechanical Engineering
2007 - 2011	The University of Western Australia Professor, School of Mechanical Engineering
2007 - 2010	West Australian Energy Research Alliance, Perth Program Leader, Offshore and Subsea Facilities Research Program
2005	The University of Michigan Visiting Professor, Dept. of Naval Architecture and Marine Eng.
2003 - 2007	The University of Western Australia Professor, School of Oil & Gas Engineering
2000 - 2003	The University of Western Australia Assoc. Professor, Centre for Oil & Gas Engineering
2001 - 2004	CSO Aker Engineering Inc., Houston Visiting Research Specialist
2001	Houston Visiting Assoc Professor, Dept. of Civil and Environmental Engineering
1997 - 1999	The University of Western Australia Assistant Professor, Centre for Oil & Gas Engineering
1996 - 1997	Australian Maritime Engineering Co-op Research Center Regional Manager (Tasmania & South Australia), Program Leader for Performance of Surface Marine Vehicles
1995 - 1997	Australian Maritime College, Launceston, Tasmania. Lecturer

Publications

- Thiagarajan, K.** and H.J. Dagher. "State-of-the-art review of floating platform concepts for offshore wind energy generation." *J. Offshore Mech. Arct. Eng.* 2014; *OMAE-13-1010* (January 01, 2014). doi: 10.1115/1.4026607.
- Thiagarajan, K.P.** and H.J Dagher. "State-of-the-art review of floating platform concepts for offshore wind energy generation." In *Proceedings of the ASME 2012 31st Intl. Conf. Ocean, Offshore and Arctic Engng., Rio de Janeiro* (2012). Paper 83690.
- Kiu, K.Y., Stappenbelt, B. and **K.P. Thiagarajan**. "Effects of Uniform Surface Roughness on Vortex-induced Vibration of Towed Vertical Cylinders." *J. Sound Vibration* 330, no.20 (2011): 4753–4763.
- Pistani, F., **K.P. Thiagarajan**, R. Seah and D. Roddier. "Set-up of a sloshing laboratory at the University of Western Australia." In *Proceedings of the 2nd Sloshing Specialty Symp. ISOPE 2010, Beijing, China* (2010). Paper TPC-864.
- Rafiee, A., F. Pistani and **K.P. Thiagarajan**. 2010. "Study of Liquid Sloshing: Numerical and Experimental Approach." *Comput. Mechanics* (2010). DOI 10.1007/s00466-010-0529-6.
- Halkyard, J.E., J. Filson, P. Hawkey and **K.P. Thiagarajan**. "Floating Structure Design, In: Handbook in Offshore Engineering." (Ed. S.K. Chakrabarti). *Elsevier Science Publishing* (2005). ISBN 0-08-044381-8.
- Thiagarajan, K.P.** and E. Braddock. "Influence of bilge keel width on roll damping of FPSO." *J Offshore Mechanics and Arctic Eng.* 132, no. 1 (2010). 011303-1-7.
- Rafiee, A. and **K.P. Thiagarajan**. "An SPH project method for simulation fluid – hypoelastic structure interaction." *Comput. Methods Appl. Mech. Engrg.* 198, no. 33-36 (2009): 2785–2795.
- Thiagarajan, K.P.** "Hydrostatic stability of compartmented structures supported by air cushions." *J. Ship Research* 53, no.3 (September 2009): 151-158.
- Morris-Thomas, M.T., R. Irvin and **K.P. Thiagarajan**. "An investigation into the hydrodynamic efficiency of an oscillating water column." *J. Offshore Mechanics and Arctic Eng.* 129 (2007): 273–278.
- Thiagarajan, K.P.** and M.T. Morris-Thomas. "Wave-induced motions of an air cushion structure in shallow water." *Ocean Engineering* 33, no.8-9 (2006): 1143-1160.

Synergistic Activities

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|----------------|---|
| 2006 – present | Applied Ocean Research
Associate Editor |
| 2009-2011 | National University of Singapore, Department of Civil Engineering
Guest lecturer for "Design of Floating Offshore Platforms" |

Served on two state government panels (in the past seven years) to look at the feasibility of building an ocean basin for Western Australia. Worked closely with engineers on costing various elements of a typical basin facility.

Project lead for two model test programs (one on TLP in 1999 and another on FPSO in 2004) at the ocean basin in National Research Council Canada, funded by the Australian Research Council.

Project lead for Technip Houston: model testing of new deep water concepts at the Offshore Model Basin (OMB) in California, as well as analysis of experimental data and liaison with Force Technology laboratory, Denmark and MARIN Netherlands.