

# MIT MECH E

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## J. Kim Vandiver

*Dean for Undergraduate Research  
Professor of Mechanical and Ocean Engineering*

Room 10-110  
Massachusetts Institute of Technology  
77 Massachusetts Avenue  
Cambridge MA 02139-4307  
Phone: 617-258-0207  
Fax: 617-258-5288  
Email: [kimv@mit.edu](mailto:kimv@mit.edu)  
Web: <http://web.mit.edu/shear7/shear7.html>



### [Curriculum Vitae](#)

#### **Administrative Contact:**

Juliet Perdichizzi  
Room 10-110  
Phone: 617-253-8058  
Email: [julietp@mit.edu](mailto:julietp@mit.edu)

#### **Education:**

Ph.D. in Oceanographic Engineering, January 1975  
Massachusetts Institute of Technology/WHOI  
S.M. in Ocean Engineering, August 1969  
Massachusetts Institute of Technology  
B.S. in Engineering, June 1968  
Harvey Mudd College of Science and Engineering

#### **MIT Service:**

1985-present: Professor of Mechanical and Ocean Engineering  
1979-1985: Associate Professor  
1976-1978: Doherty Assistant Professor  
1975-1979: Assistant Professor  
1975: Research Associate

#### **Principal Publications in last five years:**

1. Vandiver, J. K., A Universal Reduced Damping Parameter for Prediction of Vortex-Induced Vibration, 21st International Conference on OMAE, Paper 28292, June 23-28, 2002, Oslo.
2. Vandiver, J. K. and Donnelly, J., The Use of Scatter Diagrams for the Selection of Current Profiles for the Design of a Riser Experiencing Vortex-Induced Vibration, Paper No. 15395, Proceedings of 2003 Offshore Technology Conference, Houston, May 2003
3. Vandiver, J. K. and Peoples, W., The Effect of Staggered Buoyancy Modules on Flow-Induced Vibration of Marine Risers", Paper No. OTC 15284, Proceedings of 2003 Offshore Technology Conference, Houston, May 2003.



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4. Vandiver, J. K. and Marcollo, H., High Mode Number VIV Experiments, IUTAM Symposium on Integrated Modeling of Fully Coupled Fluid-Structure Interactions Using Analysis, Computations, and Experiments, June 1-6, 2003, Kluwer Academic Publishers, Dordrecht.
5. Vandiver, J. K., Marcollo, H., Swithenbank, S., and Jhingran, V., High Mode Number Vortex-Induced Vibration Field Experiments, Offshore Technology Conference, Paper Number 17383, Houston, Texas, May 2-5, 2005.
6. Vandiver, J. K., Swithenbank, S., Jaiswal, V., and Marcollo, H., The Effectiveness of Helical Strakes in the Suppression of High-Mode-Number VIV, Offshore Technology Conference, Paper Number 18276-PP, May 1-4, 2006, Houston, Texas. Received the Arthur Lubinski, ASME OTC 2006, Best Paper Award.
7. Vandiver, J. K., Swithenbank, S., Jaiswal, V., and Jhingran, V., Fatigue Damage from High Mode Number Vortex-Induced Vibration, Proceedings of OMAE 2006: 25th International Conference on Offshore Mechanics and Arctic Engineering, Paper No. OMAE2006-9240, June 4-9, 2006, Hamburg, Germany,

**Scientific & Professional Societies:**

Society of Petroleum Engineers

Society of Naval Architects and Marine Engineers

American Society of Civil Engineers

American Society of Mechanical Engineers

**Honors & Awards: Selected from last five years.**

2012: Gordon Y. Billard Award

2011: Arthur C. Smith Award

2006: ASME A. Lubinski Best Paper Award for the Offshore Technology Conference

2005: Offshore Technology Conference Distinguished Achievement Award for Individuals

2001: MacVicar Award for Excellence in Teaching

1998-1999: MIT President's Award for Community Service

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Massachusetts Institute of Technology | Department of Mechanical Engineering  
77 Massachusetts Avenue, Room 3-173 | Cambridge, Massachusetts 02139