

Honors and Awards

1. Doctoral Student (Zuankai Wang) awarded the outstanding graduate student Research award by the government of China (2008)
2. Doctoral Student (Zuankai Wang) awarded the **Materials Research Society Graduate Student Award** at the MRS Fall meeting in Boston (2007)
3. Rensselaer Polytechnic Institute **Early Career Award** (2005)
4. *Faculty Advisor* to the RPI design team that won 1st place in the Annual AHS/Industry/NASA Student Design Competition (Undergraduate Category) (2005)
5. NSF Faculty Early Career Development (**CAREER**) Award. (2004)
6. Rensselaer, School of Engineering, **SOE Excellence in Research Award** (2004)
7. American Helicopter Society's, **Francois Xavier Bagnoud Award** for outstanding contribution to vertical flight technology. (2004)
8. Doctoral Student (Jongmin Kim) was awarded the American Helicopter Society's *Robert L. Lichten Award*. (2004)
9. Masters Students (A. Modi and E. Lass) were selected as two of six Finalists at the *SPIE Best Student Paper* competition. (2003)
10. *Faculty Advisor* to the RPI design team that won 2nd place in the Annual AHS/Industry/NASA Student Design Competition (Undergraduate Category) (2003)
11. *Faculty Advisor* to the RPI design team that won 1st place in the Annual AHS/Industry/NASA Student Design Competition (Undergraduate Category) (2002)
12. *Curriculum Innovation Grant*, Dean of Undergraduate Education, RPI (2001)
13. American Helicopter Society *Vertical Flight Foundation Award* (1999)
14. American Helicopter Society *Joseph P. Cribbin's Award* for significant contribution to Vertical Flight Technology by a Graduate Student. (1999)
15. *Team Leader* of University of Maryland's winning entry to the AHS/Industry/NASA Student Design Competition (Graduate Category). (1999)
16. University of Maryland *Minta Martin Fellowship* for Aerospace Research Excellence (1998)
17. American Helicopter Society, South-East Region *Robert Lichten Award* for Best First-Time Technical Paper by a Society Member (1998)
18. SPIE Smart Structures Conference *Best Student Paper Finalist* (1998)
19. University of Maryland, *Graduate School Fellowship* (1995)

Media Reports and Exhibits of Work:

Over 200 Media Reports citing Koratkar's research have appeared in top outlets including the NY times and USA today. Koratkar has also been interviewed by BBC World Service, Northeast Public Radio and by CBS and ABC TV News in Albany, NY. The National Science Foundation has also issued a Press Release based on Koratkar's work in nano-composites.

Few sample reports are given below:

- (1) "Hotrods enable better boiling", Featured on **Nature** in the online News Section, July 04, 2008.
- (2) "Cu nanorods enhance boiling", Featured by **BBC Radio** (Science in Action Program), July 04, 2008.
- (3) "Carbon nanotube 'shock absorbers' excel at dampening vibration", **Press Release issued by the National Science Foundation**, Jan-2005.
- (4) "Leap in sniffing: nanotubes can name that gas", Article in **New York Times**, August 19, 2003.
- (5) "Handheld bioterror detectors in works", Article in **USA Today**, July 7, 2003.
- (6) Koratkar's nano-composite damping research was featured on the *formula-1official website* (<http://www.grandprix.com>), Feb. 13, 2006.
- (7) "Controlling the Movement of Water Through Nanotube Membranes", **Wikipedia**, the free encyclopedia, 2007.
- (8) "University Team Creates Novel Nanotube Membranes to Control Water Transport", *NSTI Nanoscience and Technology Institute News*, Feb 19, 2007.
- (9) "Study expands potential for using nanotubes in water purification, genetic research", *Membrane Technology*, Issue 4, Page 8 (2007).
- (10) "Using Nanotubes To Detect and Repair Cracks in Aircraft Wings, Other Structures", *Nanotechwire*, 27th September (2007).
- (11) "Carbon Nanotubes to detect and repair cracks in structures", *Materials Research Society's Materials News*, October, 2007.
- (12) "Nanotube Arrays Make Droplets Jump or Jiggle", *Photonics Spectra*, September 2007.
- (13) "Viscoelasticity in carbon nanotube composites", *Materials Today*, March 2005.
- (14) "Carbon Nanotube "Shock Absorbers" Excel at Dampening Vibration", Article in *Materials News*, January-February 2005.
- (15) Carbon Nanotube 'Shock Absorbers' Excel At Dampening Vibration", Article in *Science Daily*, 21st January 2005.
- (16) "Carbon Nanotube "Shock Absorbers" Excel at Dampening Vibration", Article in *netcomposites*, 24th May, 2005.

- (17) “Carbon Nanotube "Shock Absorbers" Excel at Dampening Vibration”, Article in *New Materials International*, 24th May, 2005.
- (18) “RPI Makes Nanotube Shock Absorbers”, Article in *photonics.com*, January 12, 2005.
- (19) “Carbon Nanotube "Shock Absorbers" Excel at Dampening Vibration”, Article in *nanotechwire.com*, 1/20/2005.
- (20) “New Class of Nanostructured Materials used to reduce Vibrations”, Article in *STP-Gateway Hightech Online*, January 14, 2005.
- (21) “Carbon Nanotube "Shock Absorbers" Excel at Dampening Vibration”, Article in *ipfrontline*, January 20, 2005.
- (22) “New Nanostructured Materials Featured in Nature Materials”, article in *NYSTAR Nanotech Briefing Paper*, January 31, 2005.
- (23) “Carbon Nanotube "Shock Absorbers" Excel at Dampening Vibration”, Article in *innovations report*, January 13, 2005.
- (24) “Rensselaer Wins NSF Grant To Develop Nanotube Sensors For Homeland Security”, Article in *Enterprise Innovator.com*, May 27, 2005.
- (25) “RPI professor awarded NSF grant”, Article in *Business Review*, Albany, NY, February 9, 2004.
- (26) “Rensselaer Wins NSF Grant To Develop Nanotube Sensors For Homeland Security”, Article in *Next-Innovator*, September 01, 2004
- (27) “Rensselaer Polytechnic Institute Professor Will Develop New Nanostructured Vibration Reduction Materials”, Article in *Nanotechwire.com*, February 21, 2004.
- (28) “Koratkar will develop new nanostructured vibration reduction materials”, *NanoScience and NanoBusiness News from NanoApex*, Feb 17, 2004.
- (29) Research listed in the August 9, 2004 and February 9 2004 newsletters of the *New York State Office of Science, Technology and Scientific Research (NYSTAR)*
- (30) “Koratkar will develop new nanostructured vibration reduction materials”, Article in *Sciencegroupsrv.com*, 16th February 2004.
- (31) “RPI researchers land \$1.3M grant for nanotech project”, Article in *Business Review*, Albany, NY, August 18, 2004.
- (32) “Koratkar will develop new nanostructured vibration reduction materials”, *Advanced Materials and Composites News*, February 13, 2004.
- (33) “Researchers Developing Nanotube Devices to Detect Chemical Warfare Agents”, Article in *Homeland Response*, November 16, 2004.
- (34) “Gas sensors use nanotube parts”, Article in *Science News*, July 19, 2003.

- (35) “Nanotubes and gas detection”, Editorial article in *Gases and Technology*, Vol. 2, No. 6, (2003). *Gases and Technology* is the Magazine for News and Technical Developments in High-Technology Gas Markets.
- (36) “Nanotubes make miniature gas sensors”, Article in *PhysicsWeb*, July 10, 2003.
- (37) “Nanotubes as miniaturized gas sensors”, Article in *Nanotechweb*, July 15, 2003.

Service to Professional Societies

- Member Advisory Committee of KMCM's International Conference on Knowledge Management for Composite Materials, Nanotechnology and Alternate Energy, Vancouver, Canada, 8-11 July. (2008)
- Session Chair (Nano-Composites Session) at the Materials Science and Technology (MS&T) Conference, Detroit, MI (2007)
- Member Advisory Committee of KMCM's The International Conference on Knowledge Management for Composite Materials, Nanotechnology and Alternate Energy, Duesseldorf, Germany, 3-6 July (2007)
- Technical Chair of characterization of nano-composites conference (2006)
At the ASME Multifunctional Nanocomposites International Conference, Honolulu, Hawaii,
- Member Program Committee for the Damping and Isolation conference (part of SPIE's 2006 Symposium on Smart Structures and Materials). (2006)
- Member Program Committee for the Damping and Isolation conference (part of SPIE's 2005 Symposium on Smart Structures and Materials). (2005)
- Session Chair (Dampers and Actuators Session) at the SPIE Smart Materials and Structures Symposium, San Diego, CA (2005)
- Organizer of special session on "Carbon Nanotubes and its Applications" at the SPIE Smart Materials and Structures Symposium, San Diego, CA (2005)
- Member Program Committee for the Damping and Isolation conference (part of SPIE's 2004 Symposium on Smart Structures and Materials). (2004)
- Session Chair (Passive Damping Materials Session) at the SPIE Smart Materials and Structures Symposium, San Diego, CA (2004)
- Organizer of special session on "Carbon Nanotubes and its Applications" at the SPIE Smart Materials and Structures Symposium, San Diego, CA (2004)
- Faculty advisor to the RPI student design team participating in the AIAA sponsored Design-Build-Fly (DBF) competition (2004)
- Member AIAA Adaptive Structures Technical Committee (2003-Present)
- Member American Society of Mechanical Engineers (ASME) (2002-Present)
- Faculty Advisor to RPI design teams participating in the AHS/Industry/NASA student design competitions (2002-2003, 2005)
- Member Sigma Xi (2001-2003)

Faculty Advisor to the RPI Student Chapter of AHS	(2001-Present)
Member – AHS Education Committee	(2001-Present)
Faculty Advisor to the RPI student Chapter of the AIAA	(2001-2006)
Member American Inst. for Aero. & Astronautics (AIAA)	(1997-Present)
Member American Helicopter Society (AHS)	(1995-Present)