

## Professional Awards/Recognitions and Service

- **Rensselaer School of Engineering Excellence in Research Award (2017).**
- Elected **Fellow of American Society of Mechanical Engineers (ASME)**, (2016).
- **ASME Gustus L. Larson Memorial Award** (2015).
- **Keynote Address** at the 1<sup>st</sup> International Conference on Design and Reliability of Mechanical Systems (iCDRMS), Pune, India, July 23 (2015).
- Appointed **Editor of CARBON** (Elsevier) in October 2010.
- **Keynote Address** at the Second International Conference on Nanomechanics and Nanocomposites, Beijing, China, October 10-13 (2010).
- Elected **Associate Fellow** of American Institute for Aeronautics & Astronautics (AIAA) in (2010).
- **The Electrochemical Society's SES Young Investigator Award** (2009).
- Delivered **Invited Talks** at several prestigious international conferences including International Conference on Nanoscience and Nanotechnology (ICONSAT)- Calcutta, India (2003), Materials Research Society (MRS) Spring Meeting, San Francisco, CA (2005), American Vacuum Society (AVS) Meeting, San Jose, CA (2009), TMS Annual Meeting, San Francisco, CA (2009), ICONSAT- Mumbai, India (2010), MRS Fall Meeting, Boston, MA (2010), ICONSAT-Hyderabad, India (2012) and TMS Annual Meeting, Orlando, FL (2012).
- **Technical Chair** of the steering committee of the NSF-DFG Sponsored Research Conference on Nanoscience and Nanotechnology, NY City, October 15-17 (2009).
- **Associate Editor** of Nanoscience and Nanotechnology Letters Journal (2009-2011) ([www.aspbs.com/nnl.htm](http://www.aspbs.com/nnl.htm))
- **James M. Tien '66 Early Career Award** from Rensselaer Polytechnic Institute (2005).
- **Technical Chair** of the characterization of nano-composites track at the ASME Multifunctional Nanocomposites Conference, University of Hawaii at Manoa, 20-22 October 2006.
- **Guest Editor** for a special issue of Journal of Intelligent Materials Systems and Structures. The special issue was focussed on "Nanostructured Materials" and was published in March 2006.

- **United States National Science Foundation's CAREER Award (2004)**
- **American Helicopter Society (AHS) Francois-Xavier Bagnoud Award (2004)**
- **Rensselaer School of Engineering Excellence in Research Award (2004)**
- AHS Vertical Flight Foundation Award (1999)
- AHS Federal City Chapter's Joseph P. Cribbin's Award (1999)
- University of Maryland Minta Martin Fellowship (1998)
- AHS South-East Region Robert Lichten Award (1998)
- University of Maryland, Graduate School Fellowship (1995)
- Member AIAA Adaptive Structures Technical Committee, (2003-2010)
- **Session Chair** at various conferences including Symposium EE at MRS Fall Meeting (2008), nano-composite session at TMS Annual Meetings (2008-2009), SPIE smart materials and structures conferences (2003-2005), NSF conference on nanoscience and nanotechnology (2009) and International Conference on 1-D Nanomaterials (2009).
- Referee for over 50 journals including **Nature, Science, Nature Materials, Nature Physics, Nature Communications, Proceedings of the National Academy of Sciences (PNAS)**, Physical Review Letters, Nano Letters, Small, Physical Review B., Advanced Materials, Advanced Functional Materials, Langmuir, Journal of Physical Chemistry B, Chemistry of Materials, Journal of American Chemical Society, ACS Nano, Angewandte Chemie International Edition, Applied Physics Letters etc.
- Served on several National Science Foundation Review Panels including, Nanoscale Interdisciplinary Research Team Program, Nano-Manufacturing Program, Surface Engineering and Materials Design and Kinetics, Catalysis and Molecular Processes Programs.

### **Achievements/Awards of Koratkar's Ph.D. Students**

- Zuankai Wang (Ph.D. 2008) is a **tenure-track assistant professor** of mechanical engineering at the City University of Hong Kong in Hong Kong, China.
- Jonghwan Suhr, (Ph.D. 2005) is a **tenure track assistant professor** in the department of mechanical engineering at the University of Delaware in the United States of America.
- Jonghwan Suhr (Ph.D. 2005) won the **NSF Career Award** in 2009.

- Zuankai Wang (Ph.D. 2008) won the **Materials Research Society Graduate Student Silver Award** at MRS Fall Meeting (2007)
- Zuankai Wang (Ph.D. 2008) won the Chinese Government Outstanding Self-Financed Students Abroad Award (2007).
- Javad Rafiee (Ph.D. expected 2012) won the \$30,000 **MIT-Lemelson** student award (2010).
- Mohammad Rafiee (Ph.D. 2011) won the American Helicopter Society (AHS), **Robert Lichten Award** at the national level (2010).
- Iti Srivastava (Ph.D. 2010) won the \$10,000 **Amelia Earhart Fellowship** for women researchers in aerospace engineering (2010).
- Jongmin Kim, (Ph.D. 2004) is a winner of American Helicopter Society (AHS), **Robert Lichten Award** at the national level (2004).
- Fazel Yavari (Ph.D. expected 2012) won the \$30,000 **MIT-Lemelson** student award (2012).
- Lu Li and Shravan Suresh were **finalists** (total of four teams were selected) at the **BASF 150<sup>th</sup> Anniversary Science Competition**.
- Rahul Mukherjee and Eklavya Singh won the **Bronze Medal** at the 2014 College Inventors' Expo.

### Sample Media Reports and Magazine Articles

- Over 500 Reports citing Koratkar's work have appeared in top media outlets including Nature, NY times, USA today, MSNBC, Scientific American, Popular Science, Wikipedia and the US News and World Report.
- Koratkar has been interviewed by BBC Radio and Northeast Public Radio and by CBS and ABC TV News in Albany, NY.
- The National Science Foundation has also issued three Press Releases based on his work in nano-composites, lithium-ion batteries and graphene.

*Few sample media reports are given below:*

- (1) "Water + acid + graphene = power", **Nature**, Volume: 476, Page: 255, Date published: (18 August 2011), DOI: doi:10.1038/476255f (Research Highlight)

- (2) “Nanorods make boiling better”, Published by **Nature** in their News Section (doi:10.1038/news.2008.935), July 4, 2008.
- (3) “Nanorods enhance boiling”, **BBC Radio’s Science in Action Program**, July 4, 2008.
- (4) “Pot boiler: a new, faster way to heat water”, **Scientific American**, July 8, 2008.
- (5) “Carbon nanotube 'shock absorbers' excel at dampening vibration”, Press Release issued by the **National Science Foundation**, January 2005.
- (6) “Leap in sniffing: nanotubes can name that gas”, **New York Times**, Aug 19, 2003.
- (7) “Handheld bioterror detectors in the works”, Article in **USA Today**, July 7, 2003.
- (8) “Nanoscoops' Could Spark New Generation of Electric Automobile Batteries”, **US News and World Report**, January 5, 2011.
- (9) “Graphene-coated sensors to strike oil”, **MSNBC**, July 2011.
- (10) “Miracle Material”, Press release by the **National Science Foundation**, May 19, 2011.
- (11) “Nanoscoops Could Spark New Generation of Electric Automobile Batteries”, Press release issued by the **National Science Foundation**, January 4, 2011.
- (12) “Graphene’s other transparency”, **Nature Asia-Pacific**, January 23, 2012.
- (13) “Graphene Foam Sensors Cheaply Detect Trace Particles in Air Better Than Current Technology”, **Popular Science**, 23<sup>rd</sup> November, 2011.
- (14) “Controlling the movement of water through nanotube membranes”, **Wikipedia**, the free encyclopedia, 2007.
- (15) “Graphene nanomesh”, Research highlight, **Nature India**, December 31, 2010.