

Students Graduated

18 Doctoral Students Graduated (with Koratkar as Research Advisor)

- **Zuankai Wang and Jonghwan Suhr are Associate Professors**
 - **Rahul Mukherjee has started his own company based on his thesis research**
- (1) Shравan Suresh (2017), “Foldable, high energy density Lithium-ion batteries”, Shравan works for Intel in Portland, Oregon.
 - (2) Jian Gao (2016), “Synthesis and characterization of 2D transition metal dichalcogenides”, Jian works at Global Foundries in Malta, NY.
 - (3) Philippe Chow (2016), “Defect-induced photoluminescence in 2D transition metal dichalcogenides”, Phil works for the Army’s Benet Laboratories in Watervliet, NY.
 - (4) Rahul Mukherjee (2015), “Graphene based anodes for Lithium-ion batteries”, Rahul is the CTO of a start-up company (Ener-Mat Technologies) based in Troy, NY, USA.
 - (5) Eklavya Singh (2015), “Fundamental study of wetting behavior of 2D materials”, Eklavya works for Google in California.
 - (6) Abhay Thomas (2014), “Graphene based architectures for functional device applications”. Abhay works for Graphene Technologies in California, USA.
 - (7) Ajay Krishnamurthy (2014), “Microbial corrosion resistance of graphene coatings”, Ajay works for NIST in MD, USA.
 - (8) Ardavan Zandiatashbar (2013), “Effect of defects on the intrinsic strength and stiffness of graphene”. Ardavan works for Park Systems in California, USA.
 - (9) Fazel Yavari (2012), “Hierarchical graphene composites”. Fazel is a winner of the \$30,000 **MIT-Lemelson student prize for innovation** in 2012. Three such prizes were awarded in 2012 to students who have made inventions that show promise to change the world. Fazel works for Caterpillar in Chicago, Illinois, USA.
 - (10) Mohammad Rafiee (2011) “Graphene based composite materials”, Mohammad is a Co-founder of the start-up Viva Technics. Mohammad is a winner of the American Helicopter Society (**AHS) Robert L. Lichten Award** in 2010. Only one such award is made every year by the AHS to a student for excellence in research.
 - (11) Rahul Krishnan (2011) “Silicon based nano-architectures for high power Li-ion battery anodes”, Rahul works for Apple in California.
 - (12) Iti Srivastava (2010) “Mechanical properties of polymer nano-composites”, Iti works for Boeing in North Carolina. Iti won the \$10,000 **Amelia Earhart Fellowship** for women in 2010. Only 10 such awards are made every year in the United States.

- (13) Ranganath Teki, (2009) “Nanorod structures for energy conversion and storage”, Teki works for Intel in Portland, Oregon.
- (14) Wei Zhang, (2008) “Advanced multifunctional composites featuring carbon nanotube additives”. Wei works for the General Electric (GE) Global Research Center in Niskayuna, New York.
- (15) Zuankai Wang (2008), “Understanding and controlling wetting phenomena at the micro/nano scale”, Zuankai is an **associate professor** at the City University of Hong Kong. Zuankai is also a winner of the 2007 **Materials Research Society (MRS) graduate student award (Silver Medal)**.
- (16) Seongyul Kim (2008), “Fundamental study of field-induced gas and water dissociation near nanostructured electrodes”, Kim works for Samsung in Korea
- (17) Jonghwan Suhr, (2005) “Energy dissipation mechanisms in carbon nanotube polymer composites”. Jonghwan is an **associate professor** of mechanical engineering at Sungkyunkwan University in Korea. He is a winner of the **NSF Career** award in 2009 when he was at the University of Delaware in the USA.
- (18) Jongmin Kim, (2004) “Flow control strategies for improved aerodynamic efficiency of micro-rotorcraft”. Jongmin works for Samsung in Korea. Jongmin is a winner of American Helicopter Society (**AHS), Robert Lichten Award (2004)**.

Masters Students Graduated (with Koratkar as Primary Research Advisor)

- (1) Prashant Dhiman (2011), “Flow induced power generation from graphene”, Prashant works for an engineering consultancy company in Toronto, Canada.
- (2) Velibor Peric (2009), “Impact damage mitigation in nanocomposites”, Velibor works at Boeing Aircraft.
- (3) Andrew Proper, (2008), “Hierarchical carbon nanotube composites”, Andrew works for Electric Boat in Connecticut, USA.
- (4) Jeremy Nelson, (2004), “Flow control strategies for improvement of micro-air-vehicle performance”, Jeremy works for Dupont in California, USA.
- (5) Eric Lass, (2003) “Effect of temperature on the resistivity of aligned multi-walled carbon nanotube films”, Eric works for NIST in Washington DC.
- (6) Ashish Modi, (2003) “Miniaturized gas ionization sensors using carbon nanotubes”, Ashish works for British Petroleum.

Thesis In Progress

6 Ph.D. students are working with Koratkar as advisor

- (1) Lu Li, “Next generation Li-sulphur batteries”, Started August (2014).
- (2) Tushar Gupta, “Chalcogenide perovskite chemistries for next generation solar cells”, Started August (2014).
- (3) Debjit Ghoshal, “two-dimensional materials beyond graphene”, Started August (2015).
- (4) Swastik Basu, “Lithium dendrite suppression in porous graphene networks”, Started August (2015)
- (5) Anthony Yoshimura, “Two-dimensional transition metal dichalcogenides”, Started August (2016).
- (6) Prateek Hundekar, “Next generation cathodes for Lithium-ion rechargeable batteries”, Started August (2016).