

Ganpati Ramanath, Ph.D. (Ramanath@rpi.edu)

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John Tod Horton Professor
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Professor Ramanath received his PhD from the University of Illinois, Urbana, in 1997. His PhD thesis work won him a Graduate Student Award from the Materials Research Society. He joined Rensselaer in 1998 as an assistant professor and has been a full professor since 2006, and was named John Tod Horton Chaired Professor in 2013. His research focuses on developing a fundamental understanding of structure-processing-property relationships in molecularly-tailored inorganic thin film and bulk nanomaterials and heterointerfaces for energy and electronics applications. He has co-authored >170 journal articles (Google Scholar h-index 48, 8700 citations), one book chapter, and holds 9 US patents. He has delivered over 215 invited/plenary/keynote talks worldwide, and has organized several international symposia and workshops for MRS, AVS and TMS.

Ramanath is a co-founder and director of *ThermoAura Inc.*, which is commercializing a nanomaterials manufacturing technology developed in his laboratory. He was the Director of the NY State Center for Future Energy Systems (2008-10). He served as an Editor of IEEE Transactions on Nanotechnology (2003-15) and is an Editorial Advisory Board member for Journal of Experimental Nanoscience.

Ramanath is a Fellow of the Materials Research Society (2018), the American Physical Society (2016), and the American Vacuum Society (2013). Awards include Friedrich Wilhelm Bessel Award (2013), Brahm Prakash Chaired Professorship at IISc, Bangalore, India (2012), Bergman Young Scientist Award (2003) from the US-Israel Binational Science Foundation, and NSF CAREER Award (1999). Visiting appointments include RWTH, Aachen University, Germany; Max-Planck-Institute for Solid State Research, Stuttgart, Germany; National Institute of Materials Science, Tsukuba, Japan; IISc, Bangalore, India; University of Wollongong, Australia; PSG Institute of Advanced Studies, Coimbatore, India.

Ramanath's *hobbies* include performing and teaching Indian classical music (live and TV performances in the US, Australia, Germany, and India), Indic culture, philosophy, chants and devotional hymns, spoken Sanskrit, history, cricket, multilingual puns, and poetry in 5 different languages.

Awards (select)

- Fellow of the Materials Research Society (2018)
- Fellow of the American Physical Society (2017), Senior member IEEE (2017).
- Fellow of the American Vacuum Society (2013)
- Friedrich Wilhelm Bessel Award, Alexander von Humboldt Foundation, Germany (2013).
- Brahm Prakash Visiting Professorship, IISc Bangalore, India (2013).
- Rensselaer Team Excellence Award (2013); Rensselaer Research Excellence Award (2002, 2012).
- Alexander von Humboldt Fellow (2004)
- Professor Bergman Young Scientist Award US-Israel Binational Science Foundation (2003)
- National Science Foundation CAREER award (2000), IBM Research Partnership Award (2000-2013)
- Materials Research Society Graduate Student Award for Outstanding Research (1996).

Visiting/Guest Professorships

- Distinguished visiting professor, PSG Institute of Advanced Studies, Coimbatore, India (2017-)
- Visiting professor, RWTH, Materials Chemistry Department, Aachen University, Germany (2013-14)
- Brahm Prakash Chair Professor, IISc, Bangalore, India (2013), Visiting Professor (2006)
- Visiting professor, The Max-Planck-Institute for Solid State Research, Stuttgart, Germany (2004-5)
- Visiting professor, NIMS-ICYS/WPI, Tsukuba, Japan (2004, 2010)
- Visiting professor, University of Wollongong, Australia (2007)