

Feb 7, 2019

University at Buffalo's RENEW Institute

ABSTRACT:

The University at Buffalo (UB) established the institute for Research and Education in eEnergy, Environment and Water (RENEW - <https://www.buffalo.edu/renew.html>) in 2015. The RENEW Institute is a university-wide, interdisciplinary research institute that focuses on complex energy and environmental issues, as well as the social and economic issues with which they are connected. The institute unites researchers and builds upon the strengths of faculty from seven UB schools and colleges including the School of Architecture and Planning, College of Arts and Sciences, School of Engineering and Applied Sciences, Law School, School of Management, School of Public Health and Health Professions and the School of Medicine. The goal is to create transformative change through research, education and community engagement activities. The institute's over-arching goal is to advance Energy, Water and Environmental Sustainability as a foundation for a Regenerative Economy. The institute's strategic planning process resulted in the creation of five interdisciplinary focus areas that leverage existing UB faculty strengths and UB facilities. These are – (a) Next-Generation Materials and Technologies for Energy, Environment & Water Sustainability; (b) Freshwater Coastal Ecosystems and the Blue Economy; (c) Sustainable Urban Environments; (d) Environmental Exposures, Genomes and Health and (e) Climate Change and Social-Economic Impacts. About ~20 UB faculty are engaged in each focus area or about 100 faculty across the campus and the institute has ~ 20 new faculty positions. This talk will provide an overview of the institute and review ongoing research in the various focus areas of the institute.



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BIOGRAPHY:

Prof. Amit Goyal is Director of The RENEW Institute, the University at Buffalo's interdisciplinary institute dedicated to research and education on globally pressing problems in energy, environment and water. He also concurrently holds the title of SUNY Empire Innovation Professor at UB in the several departments at the University. He is also the President & CEO of TapeSolar Inc., a private-equity funded company and also the President & CEO of TexMat LLC, an IP holding and consulting company. He is presently also an Emeritus Corporate Fellow at at UT-Battelle/Oak Ridge National Laboratory (ORNL). Dr. Goyal received a B.Tech.(Honors) in Metallurgical Engineering from the Indian Institute of Technology, Kharagpur (India), a MS in Mechanical and Aerospace Engineering from the University of Rochester, NY and a PhD in Materials Science & Engineering from the University of Rochester, NY, executive business training from the Sloan School of Management, MIT and an executive MBA from Purdue University and an international executive MBA Tilburg University (The Netherlands).