Environmental Nanotechnology: An Opportunity for Innovation

As an emerging field, nanotechnology has been heralded as ushering in the next industrial revolution. It was estimated that, by year 2014, nanotechnology would impact many manufacturing sectors with 15% of all products utilizing nanotechnology, totaling nearly $2.6 trillion in manufactured goods. Nanotechnology is being used in several applications to improve the environment. The progresses made in nanotechnology enable us to develop innovative treatment system for water and wastewater. This talk will first provide an overview on environmental nanotechnology and its application in pollution monitoring, groundwater remediation, pollutant photocatalysis, contaminant adsorption, membrane desalination. As more engineered nanoparticles (ENPs) are used in many commercial products, there is also growing concern with the health and safety of the ENPs. Therefore, the talk will then cover the detection and quantification of ENPs in wastewater. Finally, the talk will provide a case study on how to remove arsenic from wastewater using ferrite nanoparticles.

Dr. Steven Wei is currently an Assistant Professor and Program Coordinator of Civil Engineering at SUNY Polytechnic Institute Utica Campus. He received his Ph.D. in Civil Engineering (Environmental Engineering Discipline) from West Virginia University, Morgantown, WV, in 2005. Dr. Wei’s specialty is in the area of water and wastewater treatment, nanoparticles and their application in environmental engineering, solid and hazardous waste treatment. Before joining SUNY Poly in 2011, he worked in West Virginia University as Research Assistant Professor for 3 years. He has published more than 20 research papers in peer-reviewed journals and served in various committees. Dr. Wei is also a licensed Professional Engineer (P.E.) in the state of West Virginia.

Our meeting will be held at the Spaghetti Kettle, 7756 NY Route 5, in Clinton NY (315)-853-6013 and we are having the usual Family Style menu of Salad, Chicken Franchaise, Utica Greens, Roasted Potatoes, & Ziti plus a tray of cookies. We will have the social hour at 5:30 P.M. (beer & wine) with dinner at 6:30, followed by the speaker. Prices will be $15 members & guests and $20 for nonmembers.......................RESERVATIONS are due BY MARCH 22nd.

Please contact Pam for reservations at (315)-363-4025 or e-mail ppaulini@twcny.rr.com.

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