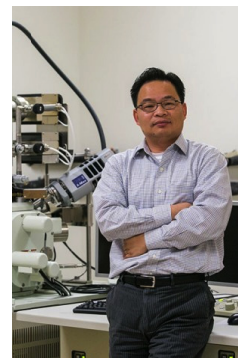


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Dr. Weihua Ming is currently an Associate Professor in Chemistry (will become Full Professor on Aug. 1, 2014) and the Distinguished Chair in Materials Science at Georgia Southern University. Prior to joining Georgia Southern in August 2011, Dr. Ming was a faculty member at University of New Hampshire (UNH) and at Eindhoven University of Technology (TU/e) in the Netherlands. He received his PhD in Polymer Chemistry and Physics (supervisors: Profs. Shoukuan Fu and Frank Jones) in 1998 and a B.S. in Materials Chemistry, both from Fudan, and performed postdoc research at TU/e from 1998-2000.

Over the past decade, we have been focusing on multifunctional, nanostructured polymeric materials and coatings. In this seminar, I will describe our recent endeavors in designing and making the following functional polymeric surfaces and coatings:

- Super-repellent (water- and oil-repellent) surfaces
- Anti-bioadhesion surfaces
- Antimicrobial coatings
- Antifogging/frost-resisting coatings
- Self-healing coatings
- Smart coatings for detecting early metal corrosion and preemptive corrosion protection