Queensland Micro- and Nanotechnology Centre

SEMINAR

Speaker: **Professor Ya-Ping Sun**
Frank Henry Leslie Chair Professor of Natural and Physical Sciences
Department of Chemistry and Laboratory for Emerging Materials and Technology
Clemson University, Clemson, South Carolina, USA

Date: Monday 8 April 2019

Time: 11.00 am

Venue: Room 1.08 QMF building (N74), Griffith University, Nathan Campus

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Title: **Carbon Nanomaterials: from Dots to Sheets, and from Energy Conversion to Bioimaging and Microbicidal Functions**

Abstract:

Nanoscale carbon materials including tubes, sheets, and dots have interesting and, in many cases, unique optical, electronic, and thermal properties. We have been exploring these nanomaterials for various technologies, from bulk-separated metallic/semiconducting single-walled carbon nanotubes for electrical/electronic devices to carbon nanosheets for thermal and mechanical composites and carbon-based photoluminescent nanoparticles ("carbon dots") as effective imaging-sensing agents and photocatalysts. In this talk, some interesting and representative recent results from our research will be highlighted.

Brief Bio:

Professor Ya-Ping Sun holds the Frank Henry Leslie Chair of Natural and Physical Sciences at Clemson University in South Carolina since 2003. He obtained his B.Eng from Zhejiang University of Technology (1982), M.Eng from Zhejiang University (1985) and PhD from Florida State University (1989). His pioneering works on nanoscale carbons, including carbon dots, carbon nanotubes and nanosheets have been the inspiration to many researchers. His over 300 papers have attracted more than 33,000 citations (h-index of 90). He has the recipient of South Carolina Governor's Young Scientist Award for Excellence in Scientific Research in 2005 and was a Clarivate Analytics "*Web of Science* Highly Cited Researchers 2018".

For enquiries, please contact Mrs Lacey Shaw: l.shaw@griffith.edu.au

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