



Symposium I : Nanomaterials R&D in Upstream Oil and Gas

Scope of the Symposium

Our proposed symposium will highlight research and development of nanomaterials and nanoengineered systems for use in oil and gas recovery ? upstream oil and gas. Through the engagement and participation of academic and industrial leaders, this symposium will provide a forum for the applications of nanoparticles as they relate to high performance oil well construction, production enhancement and reservoir management materials. A key focus of the symposium will be the development of systems engineered at the nanoscale to provide performance enhancements under the often extreme temperature and pressure environments encountered within wells. The symposium will have a wide range of topics addressing the active areas of investigation for nanomaterials in the oil and gas industry. The first half of the symposium will be dedicated to step-change innovation in the industry through advances in nanomaterials in sensors, energy storage and power systems. The second half of the symposium will be dedicated to nanoparticles as they are used in fluids and composites for well construction, production, and enhanced oil recovery.

Abstracts will be solicited in (but not limited to) the following areas

- *Nanomaterials R&D in Upstream Oil and Gas*

Tentative list of invited speakers (To be confirmed)

Prof. Ole Torsaeter (Norwegian University of Science and Technology (NTNU)) **Prof. Tayfun Babadagli** (University of Alberta) **Peter Boul** (Aramco Services Company, Aramco Research Center -- Houston) **Prof. Kishore K. Mohanty** (University of Texas at Austin) **Prof. Jnia Nunes de Paula** (Federal Center for Technological Education of Minas Gerais, Brazil) **Dr. Wei Wang** (Aramco Services Company) **Prof. Roozbeh Rafati** (University of Aberdeen) **Prof. Morteza Dejam** (University of Wyoming) **Prof. Nashaat N. Nassar** (University of Calgary) **Dr. Mohamad Kabbani** (Shell Technology Center) **Mariam Al-Ali AlMa'adeed** (Qatar University) **David Chapman** (University of Texas at Austin) **Prof. David Blaauw** (University of Michigan) **Valery N Khabashesku** (Baker Hughes) **Prof. Andrew Barron** (Swansea University) **Cornell Stanciu** (Sasol) **Kate Sokhanvarian** (Sasol) **John Sothwell** (Nissan Chemical America Corporation) **Dr. Aditya Nayak** (Apple Corp.) **Dr. Mickey Pelletier** (Halliburton) **Dr. Daniel Stark** (Halliburton) **Prof. Steven Bryant** (University of Calgary) .

Symposium Organizers

Prof. Pulickel M. Ajayan (Rice University) **Dr. Peter J. Boul** (Aramco Research Center - Houston) **Dr. Sam Maguire-Boyle** (Nissan Chemical America Corporation) **Prof. Glaucia Goulart Silva** (Depto de Química/ UFMG / BH-TEC - Parque Tecnológico de Belo Horizonte) .

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XIX Brazil MRS Meeting