Symposium H : 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)

Camilo Franco (*Universidad Nacional de Colombia-Sede Medelin*) **Farid Corts** (*Universidad Nacional de Colombia-Sede Medelin*) **Xueyu Pang** (*China University of Petroleum*) **Jorge Rodrigues** (*UFRJ*) **Elizabete Lucas** (*Universidade Federal do Rio de Janiero*) **Roland Pellenq** (*CNRS*) **Johann Plank** (*Technische Universitt Mnchen*) **Franz Ulm** (*MIT*) **Nashaat Nassar** (*U. Calgary*) **Cesar Patino** (*EcoPetrol*) **Alexander Hiroshi Kasama** (*Petrobras*) **Rosangela de C. Balaban** (*Universidade Federal do Rio Grande do Norte*) **Andrew Barron** (*Swansea University*) **Valery Khabeshesku** (*Baker Hughes*) **Mohamad Kabbani** (*Shell*) **Mariam Al-Ali AlMa'adeed** (*Qatar University*) **Jnia Nunes de Paula** (*Federal Center for Technological Education of Minas Gerais, Brazil*) **Kishore Mohanty** (*University of Texas at Austin*) **Ole Torster** (*NTNU*) **Tayfun Babadagli** (*University of Alberta*) **Roozbeh Rafati** (*University of Aberdeen*) **Morteza Dejam** (*University of Wyoming*) **David Blaauw** (*University of Michigan*) **Hassan Dhagganphur** (*University of Alberta*) **Cornell Stanciu** (*Sasol*) .

Symposium Organizers

Peter Boul (*Aramco Americas*) **P.M. Ajayan** (*Rice University*) **Glaura Silva** (*Universidade Federal de Minas Gerais*) **Samuel Maguire Boyle** (*Nissan Chemical USA*) .

https://sbpmat.org.br/19encontro