

Opening Ceremony

Opening remarks by **Professor Dr. M. Tamim**, Chairman, ICPE 2016

Speech by **Dr. M. Enamul Hossain**, Chairman, Technical Committee of ICPE 2016

Speech by Special Guest Professor **Dr. Professor Dr. Maglub Al Nur** Dean, Faculty of Mechanical Engineering, BUET

Speech by Chief Guest **Professor Dr. Saiful Islam**, Honorable Vice Chancellor, BUET

Keynote speakers' biography

DR. M. Sam Mannan:

Dr. M. Sam Mannan is Regents Professor in the Chemical Engineering Department at Texas A&M University and Executive Director of the Mary Kay O'Connor Process Safety Center at the Texas Engineering Experiment Station. Before joining Texas A&M University, Dr. Mannan was Vice President at RMT, Inc., a nationwide engineering services company. Dr. Mannan also holds concurrent joint appointments as Professor of Mechanical Engineering, Professor of Petroleum Engineering, Professor of Industrial and Systems Engineering, Professor of Materials Science & Engineering at Texas A&M University.

Dr. Mannan is a registered professional engineer in the states of Texas and Louisiana, a Certified Safety Professional, and a Professional Process Safety Engineer. His experience is wide ranging, covering process design of chemical plants and refineries, computer simulation of engineering problems, mathematical modeling, process safety, risk assessment, inherently safer design, critical infrastructure vulnerability assessment, aerosol modeling, and reactive and energetic materials assessments.

Dr. Mannan is involved very closely with projects that include hazard assessment and risk analysis, process hazard identification, HAZOP (hazard and operability) studies, vulnerability assessment, process safety management, and risk management. His research interests include development of inherently safer processes, application of computational fluid dynamics to study the explosive characteristics of flammable gases, development of quantitative methods to determine incompatibility among various chemicals, application of calorimetric methods for the assessment of reactive hazards, and the application of consequence analyses to assess the impact of process plant incidents. He co-authored the *Guidelines for Safe Process Operations and Maintenance* published by the Center for Chemical Process Safety, American Institute of Chemical Engineers. He is the editor of the 3rd and 4th edition of the 3-volume authoritative reference for process safety and loss prevention, **Lees' Loss Prevention in the Process Industries**. Dr. Mannan has published 273 peer-reviewed journal publications, 5 books, 8 book chapters, 213 proceedings papers, 14 major reports, and 247 technical meeting presentations.

Dr. Mannan is the recipient of numerous awards and recognitions including the American Institute of Chemical Engineers *Service to Society Award*, the Texas A&M University Association of Former Students' *Distinguished Achievement Award for Teaching*, the Texas Engineering Experiment Station *Research Fellow*, the Texas A&M University Dwight Look College of Engineering *George Armistead, Jr. '23 Fellow*. In 2003, Dr. Mannan served as a *consultant to Columbia Accident Investigation Board*. In 2006, he was named the inaugural holder of the T. Michael O'Connor Chair I. In 2007, he was elected Fellow of the American Institute of Chemical Engineers. In December 2008, the Board of Regents of Texas A&M University System recognized Dr. Mannan's exemplary contributions to the university, agency, and to the people of Texas in teaching, research and service by naming him Regents Professor of Chemical Engineering. Dr. Mannan is a Guest Professor at the Nanjing University of Technology and the China

University of Petroleum in Qing Dao. In September 2011, the Technical University of Łódź, Poland, conferred the *Doctoris Honoris Causa* on Dr. Mannan. In 2012, Dr. Mannan was awarded the Bush Excellence Award for Faculty in Public Service. In March 2013, Dr. Mannan was named a Distinguished Honorary Professor at the Rajiv Gandhi Institute of Petroleum Technology. In 2015, Dr. Mannan was elected Fellow of the Institution of Chemical Engineers, UK.

Dr. Mannan received his B.S. in chemical engineering from Bangladesh University of Engineering and Technology (BUET) in Dhaka, Bangladesh in 1978, and obtained his M.S. in 1983 and Ph.D. in 1986 in chemical engineering from the University of Oklahoma.

Dr. A. Rashid Hasan:

Dr. Rashid Hasan is an Oil industry academician with 37+ years of experience. He has his Bachelors degree in Chemical Engineering from BUET in 1972 followed by a Masters and PhD in Chemical Engineering from University of Waterloo, Canada by 1979.

Dr. Hasan started his career at University of North Dakota as an Assistant Professor in 1979. He furnished his career as a researcher there for about 23 years and enjoyed several tenures including full Professor, Director of Energy Engineering Doctoral Program (1995-2000) and Chair of Chemical Engineering (2000-2002). In 2002, Dr Hasan was appointed as Head of Chemical Engineering department at University of Minnesota, Duluth, and served for 5 years. Currently, he is appointed as a full time Professor at Texas A&M University. Rashid Hasan had also consulted for several oil companies including Kuwait Oil, Imperial Oil, Chevron, Hess etc. and left some remarkable innovations.

Dr Hasan has over 150 research papers, 100+ presentations/reports, designed several workshops/courses and written a book on wellbore heat transfer and fluid flow in 2002 (Publisher: Society of Petroleum Engineers). His interest is focused primarily on wellbore heat transfer, transient transport processes and wellbore integrity and safety.

Dr Rashid Hasan is an honorable reviewer for a numbers of professional journals including Society of Petroleum Engineers Journal, American Society of Chem. Engineers Journal etc.

In his career Dr Rashid Hasan received numerous honors and awards. Some of the notables are:

- SPE outstanding service Award (2016)
- SPE Distinguished Membership Award (2015)
- SPE Production Operations Award (2011)
- Larry A. Cress Faculty Fellow; Texas A&M (2014-present)
- Endowed Chair, Olson Professor of Engineering, University of North Dakota (1995-2002)

Dr. M.Enamul Hossain:

M.E. Hossain is Associate Professor and Statoil Chair in Reservoir Engineering in the Department of Process Engineering (Oil & Gas Program) at Memorial University of Newfoundland (Memorial), Canada. He earned a BSc in Mechanical Engineering from Bangladesh University of Engineering & Technology (BUET) in 1995, and an MSc in Petroleum Engineering from a collaboration between University of Alberta and BUET in 2001. Dr. Hossain completed a PhD in Petroleum Engineering in 2008 and a MBA degree in 2009 both at Dalhousie University, Canada. Prior to working at KFUPM, Dr. Hossain hold positions at Ryerson University and Dalhousie University; Sultan Qaboos University, Oman, BUET, and Chittagong University of Engineering & Technology (CUET) Bangladesh. He also worked with the

petroleum industry for ten years.

In over 22 years, Dr. Hossain authored and/or co-authored more than 150 research articles focusing on reservoir modeling, reservoir simulation, reservoir characterization, enhanced oil recovery (EOR), drilling fluid, drilling waste, and environmental sustainability. Dr. Hossain wrote seven books on reservoir Engineering, reservoir simulation, and a textbook on Fundamentals of Sustainable Drilling Engineering published by Wiley and Scrivener Publishing, USA. One additional book is in progress which will cover drilling issues and solutions. Dr. Hossain's main contribution to the industry is the introduction for the first time of memory concept for a petroleum application. For conducting research activities on EOR, drilling waste management, and development of new sustainable drilling fluid and additives, Dr. Hossain has currently funding totaling over three million Saudi riyal from Saudi Aramco, NSTIP, and the Saudi government. As a Statoil Chair in reservoir engineering at Memorial, he has funding of approximately two million dollars received from Statoil, NSERC, RDC, and Memorial. In the last six years, he completed over five million Saudi riyal projects funded by Saudi Aramco, NSTIP, and KFUPM in diverse area of petroleum engineering. In recognition of his research and teaching excellence, he has received numbers of awards.

Dr. Hossain has been teaching a wide spectrum of petroleum engineering courses, such as drilling engineering, reservoir engineering, reservoir simulation, petroleum economics, reservoir rock properties, etc. Designed to clients' needs, he gives short courses, workshops, and seminars in the area of petroleum engineering. His research team includes research associates, PhD students, and M.Sc. students. Dr. Hossain is the associate editor of Journal of Nature Science and Sustainable Technology (JNSST), Journal of Characterization and Development of Novel Materials (JCDNM), Nova Science Publishers, USA and Journal of Sustainable Energy Engineering (JSEE), Scrivener and Welly publishing, USA. He also acts as a reviewer for several international journals including Society of Petroleum Engineers (SPE) journals. He has been an active member of a number of international societies, including the SPE. Dr. Hossain is the founder and Chairman of Aziza Trust (www.azizatrust.com) and was the Managing Director of Aziza Consulting and Construction Ltd. in Bangladesh, Bright Coral in Canada.

Industry Mix Discussants profile

1. Dr. A. Rashid Hasan, Professor, Department of Petroleum Engineering, Texas A&M University, College Station, USA
2. Mr. Md. Kamruzzaman, Managing Director, Bangladesh Gas Fields Company Limited (BGFCL)
3. Dr. Badrul Imam, Professor, Department of Geology, Dhaka University
4. Engr. Md. Nowshad Islam, Managing Director, Bangladesh Petroleum Exploration & Production Company Limited (BAPEX)
5. Dr. Mahmudul Hasan, Country Lead, Santos Sangu Field Limited, Bangladesh
6. TotalGaz representative

Open Discussion

Chief Guest: Mr. Nazimuddin Chowdhury, Honorable Secretary, Energy and Mineral Resources Division, Bangladesh

Student Poster competition Prize Giving Ceremony

Closing remarks by Dr. M. Tamim (Crest giving to Secretary???)