

NAGU DARABOINA

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EDUCATION

MBA-Collins College of Business	2016-2019
University of Tulsa, OK, USA	
Ph.D. – Chemical & Biological Engineering	2008-2012
University of British Columbia (UBC), Vancouver, BC, Canada	
Master of Engineering (M.E.) - Chemical Engineering	2006-2008
Indian Institute of Science (IISc), Bangalore, India	
Bachelor of Technology (B.Tech.) - Chemical Engineering	2002-2006
Jawaharlal Nehru Technological University (JNTU, GVPCOE), Visakhapatnam, India	

PROFESSIONAL EXPERIENCE

Assistant Professor- Russell School of Chemical Engineering , TU, USA	August 2018-Present
Associate Director of TUPDP- JIP, TU, USA	January 2016-Present
Visiting Faculty Scholar, Chevron Energy Technology company, TX, USA	May-June 2019
Research Assistant Professor Petroleum Engineering, TU, USA	January 2016-August 2018
Research Associate–TUPDP, TU, USA	December 2014-December 2015
Postdoctoral Research Fellow–CERE, DTU, Denmark	August 2012-December 2014
Research Fellow –Chemical & Biological Engineering, UBC, Canada	March-August 2012
Visiting Scholar- SIMS-National Research Council Canada	June 2009- August 2010

AWARDS & HONORS

Outstanding Reviewer Award, <i>JNGSE</i> Journal	2017, 2018
Outstanding Reviewer Award, <i>Fuel</i> Journal	2017
Outstanding Reviewer Award, <i>Energy</i> Journal	2017
Most cited paper (<i>Chemical Engineering Science</i>)	2015,2016 and 2017
Otto Monsted award	DTU-2014
John R. Grace Graduate Scholarship	UBC-2011-2012
Carbon Management Canada Award	CMC- 2012
Four-Year Fellowships (FYF)	UBC- 2009-2012
West Coast Energy Inc Jack Davis Scholarship	UBC- 2009-2011
Kumar Gandhi Award	IISc-2008
17 th Rank in All India Graduate Aptitude Test in Engineering (GATE)	2005
Gold Medalist	2006

TEACHING EXPERIENCE

The courses I teach include regular lectures integrated with active-learning and peer-to-peer instruction activities, and informal discussion sessions.

Courses taught at TU:

- ENS 3053 -Thermodynamics
- ENS 3073 - Heat Transfer
- CHE 3063 - Equilibrium Thermodynamics
- CHE 7043 – Heat and Mass Transfer

Team leader in Biodiesel synthesis Project-Chemical & Biological Engineering **UBC-2012**

- Lead the team of undergraduate students to synthesis of eco-friendly Biodiesel from domestic resources in UBC with the help of sustainability club in Chemical and Biological Engineering.

Graduate Teaching Assistant – Chemical & Biological Engineering, UBC **2008- 2012**

- Instructed group of 90 students on laboratory techniques, established lab manuals, and evaluated lab reports critically.
- Teaching assistant for undergraduate courses– conducted tutorials and provided students with critical comments to improve the students’ problem solving skills.

GRADUATE STUDENTS SUPERVISION

Ph.D. Degree Advisor and Co-Advisor

1. Niranjana Kumar Loganathan (Current); “Experimental investigation into the role of gelation on wax deposition to guide scale-up and the design of wax inhibitors treatment programs” PhD Dissertation. The University of Tulsa, Tulsa, Oklahoma (**Advisor**)
2. Chandradeep Bollineni (Current); “Produced water purification by novel hydrate technology” PhD Dissertation. The University of Tulsa, Tulsa, Oklahoma (**Advisor**)
3. Ahmed Alhosani. (Current); “Mechanistic modeling of asphaltene deposition in single and multiphase flow”. PhD Dissertation. The University of Tulsa, Tulsa, Oklahoma. (**Advisor**)
4. Hanxiao Zhang (current); “Predicting phase equilibrium of salts using electrolyte CPA-EOS” PhD Dissertation. The University of Tulsa, Tulsa, Oklahoma. (**Advisor**)
5. Gabriel Nemesis(current); “Mechanistic Understanding of Paraffin deposition behavior” The University of Tulsa, Tulsa, Oklahoma. (**Co-Advisor**)
6. Elio Triago (current); “The effect of surface wettability on the observed rheology of complex fluid flow in microcapillaries” The University of Tulsa, Tulsa, Oklahoma. (**Co-Advisor**)
7. Yuandao Chi (2019); “Wax Deposition under Two-Phase Gas-Oil Stratified Flow” PhD Dissertation. The University of Tulsa, Tulsa, Oklahoma. (**Co-Advisor**)
8. Sriram Ravichandran (2018); “Mechanistic Study of Wax Deposition-Effect of Super Saturation” Dissertation. The University of Tulsa, Tulsa, Oklahoma. (**Co-Advisor**)

M.Sc Degree Advisor and Co-Advisor.

9. Alhejaili, Aziz (Current); “to be determined” M.S. Thesis, The University of Tulsa, Oklahoma (**Advisor**)
10. Elijah Bell. (Current); “Thermal removal of Paraffin deposition in oil gas production lines” M.S. Thesis, The University of Tulsa, Oklahoma. (**Advisor**)
11. Jinghao Yang (2019); “Paraffin Deposition Mechanism-Influence of Thermal Driving Force” M.S. Thesis, The University of Tulsa, Oklahoma. (**Advisor**)
12. Arjun Janamatti (2018); “Influence of Thermal and Hydrodynamic conditions on long duration wax deposition” M.S. Thesis, The University of Tulsa, Oklahoma. (**Advisor**)

M.E Degree Advisor.

13. Mina Daneshvar (2019); “Investigating the effect of droplet size and water cut on wax deposition phenomenon” The University of Tulsa, Oklahoma.

GRADUATE THESIS EXAMINATION COMMITTEES SERVED

- 2018-**Maziad Alsanea**,” Effect of water cut on onset of liquid loading and foam lift” (M.Sc., TU, USA)
- 2017- **Jean-Sebastian Renault Crispo** “ The effects of mixed promoters on gas hydrate formation” (Ph.D., *Mcgill University*, Montreal, Canada).
- 2016- **Hongfei Xu** “ Study on ice formation and its effect in pipelines” (M.Sc., TU, USA)

ARTICLES PUBLISHED OR ACCEPTED IN REFEREED JOURNALS

Google Scholar profile: <https://scholar.google.com.sg/citations?user=SFjuqzEAAA&hl=en>

- P-1. Ponnivalavan Babu; Abhishek Nambiar; Zheng Rong Chong; **Daraboina, N**; Mohammad Albeirutty; Omar A Bamaga; Praveen Linga., “Hydrate-based desalination (HyDesal) process employing a novel prototype design” *Chemical Engineering Science*, 2020, Accepted FEB 8.
- P-2. Alhosani A; and **Daraboina, N***, “Unified model to predict asphaltene deposition in production pipelines”, *Energy&Fuels*, 2020, accepted Jan 28.
- P-3. Ravcichandran, S; and **Daraboina, N***, Mechanistic model to predict hydrate deposition under stratified conditions, *Energy&Fuels*, 2019, 33 (10), 9510-9519
- P-4. Janamatti, A., Lu, Y., Ravcichandran, S; Sarica, C. and **Daraboina, N***, Influence of operating temperatures on long-duration wax deposition in flow lines, *Journal of Petroleum Science and Engineering*, 2019, 183, 106373
- P-5. Chi, Y; Yang, J; Sarica, C. and **Daraboina, N***, A critical review of controlling paraffin deposition in production lines using chemicals, *Energy&Fuels*, 2019, 33 (4), 2797-2809.
- P-6. Chi, Y; Sarica, C. and **Daraboina, N***, Experimental investigation of two-phase gas-oil stratified flow wax deposition in pipeline” 2019, *Fuel*, 247, 113-125.
- P-7. Khurana, M ; Veluswamy, H; **Daraboina, N***, and Linga P*, Thermodynamic and kinetic modelling of mixed CH₄-THF hydrate for methane storage application. 2019, *Chemical Engineering Journal*, 370, 760-771.
- P-8. S Navaneetha Kannan, **Daraboina, N***, R Venkatesan, Sarica, C., Settling and re-entrainment of wax particles in near-gelling systems” 2018, *AICHE*, 64 (2), 765-772.
- P-9. Chi, Y; **Daraboina, N***, and Sarica, C., “Effect of flow field on the Wax deposition and performance of wax Inhibitors: Cold finger and Flow loop Testing”. *Energy&Fuels*, 2017, 31 (5), 4915-4924.
- P-10. Soedarmo, A , **Daraboina, N***, and Sarica, C., “Validation of wax deposition models with recent laboratory scale flow loop experimental data” 2017, *Journal of Petroleum Science and Engineering*, 149,351-366.
- P-11. Chi, Y; **Daraboina, N***, and Sarica, C., Investigation of Inhibitors Efficacy in wax deposition mitigation using a Laboratory Scale Flow Loop. 2016, *AICHE*, 62 (11), 4131-4139
- P-12. Kumar, A; **Daraboina, N**; Kumar, R and Linga, P ., Experimental Investigation To Elucidate Why Tetrahydrofuran Rapidly Promotes Methane Hydrate Formation Kinetics: Applicable to Energy Storage” 2016, *J. Phys. Chem. C*, 2016, 120 (51), pp 29062–29068
- P-13. Soedarmo, A , **Daraboina, N***, and Sarica, C., Microscopic Study of Wax Deposition: Mass Transfer Boundary Layer and Deposit Morphology, *Energy&Fuels*, 2016, 30 (4), 2674-2686.
- P-14. Soedarmo, A , **Daraboina, N***, Lee, H, and Sarica, C., Microscopic Study of Wax Precipitation-Static Conditions, *Energy&Fuels*, 2016, 30 (2), 954-961.
- P-15. **Daraboina, N**, Malmos, C, N von Solms., Testing Antifreeze Protein from the longhorn beetle *Rhagium mordax* as a kinetic gas hydrate inhibitor using High pressure micro differential scanning calorimeter, *Canadian Journal of Chemistry*, 2015, 93, 1025-1030.
- P-16. **Daraboina, N**, S Pachitsas, N von Solms., Experimental validation of kinetic inhibitor strength on natural gas hydrate nucleation ; *Fuel*, 2015, 139, 554-560
- P-17. **Daraboina, N**, S Pachitsas, N von Solms., Natural gas hydrate formation and inhibition in gas/crude oil/aqueous systems; *Fuel*, 2015 148, 186-190

- P-18. Virginia K. Walker, Huang Zeng, Hiroshi Ohno, **Daraboina, N.**, Hassan Sharifi, S. Alireza Bagherzadeh, Saman Alavi and Peter Englezos., Antifreeze proteins as gas hydrate inhibitors, *Canadian Journal of Chemistry*, **2015**, 93 (999), 1-11
- P-19. Perfeltdt, C. M.; Chua, P. C.; **Daraboina, N.**; Friis, D.; Kristiansen, E.; Ramlov, H.; Woodley, J. M.; Kelland, M. A.; von Solms, N., Inhibition of Gas Hydrate Nucleation and Growth: Efficacy of an Antifreeze Protein from the Longhorn Beetle *Rhagium mordax*. *Energy & Fuel* 2014, 28, (6), 3666-3672.
- P-20. Hersuland, P. H., **Daraboina, N.**, Thomsen, K., von Solms, N., "Measuring and modelling of the combined thermodynamic promoting effect of tetrahydrofuran and cyclopentane on carbon dioxide hydrates" *Fluid phase equilibria*, 2014 381,20-27.
- P-21. **Daraboina, N.**; von Solms, N., "The combined effect of thermodynamic promoters tetrahydrofuran and cyclopentane on the kinetics of flue gas hydrate formation" *Journal of Chemical & Engineering Data* 60 (2), 247-251
- P-22. **Daraboina, N.**; Malmos, C.; von Solms, N., Investigation of Kinetic Hydrate Inhibition Using a High Pressure Micro Differential Scanning Calorimeter. *Energy Fuel* 2013, 27, (10), 5779-5786.
- P-23. Zhong, D. L.; **Daraboina, N.**; Englezos, P., Coal Mine Methane Gas Recovery by Hydrate Formation in a Fixed Bed of Silica Sand Particles. *Energy Fuel* 2013, 27, (8), 4581-4588.
- P-24. **Daraboina, N.**; Christine Malmos.; Nicolas von Solms. (2013) "Investigation of Kinetic Hydrate Inhibition using a High Pressure Micro Differential Scanning Calorimeter" *Energy & Fuels*; 27, 5779-5786
- P-25. **Daraboina, N.**; Christine Malmos.; Nicolas von Solms. (2013) "Synergistic Inhibition of Natural Gas Hydrate Formation" *Fuel*, 108,749-757.
- P-26. **Daraboina, N.*.**; Ripmeester, J. A.; Englezos, P., (2013) "The Impact of SO₂ on the Hydrate Formation Kinetics of Post Combustion Carbon Capture in Bed of Silica Sand" *Int. J. Greenhouse Gas Control*, 15, 97-103
- P-27. Zhong, D.; **Daraboina, N.**; and Englezos, P. (2013) "Recovery of CH₄ from coal mine model gas mixture (CH₄/N₂) by hydrate crystallization in the presence of cyclopentane". *Fuel*, 106, 425-430.
- P-28. **Daraboina, N.**, Linga, P., Ripmeester, J., and Englezos, P. (2013) "Experimental investigation of the effect of poly-N-vinyl pyrrolidone on methane/propane clathrate in the presence of silica sand". *Chemical Engineering Science*, 93, 387-394.
- P-29. **Daraboina, N.**, Ripmeester, J., Moudrakowski, I., Walker, V.K. and Englezos, P. (2013). "Assessing the performance of commercial and biological gas hydrate inhibitors using Nuclear magnetic resonance spectroscopy and stirred autoclave" *Fuel*, 105, 630-635.
- P-30. Linga, P.; **Daraboina, N.**; Ripmeester, J. A.; Englezos, P., (2012) "Enhanced rate of hydrate formation in a fixed bed column filled with sand compared to a stirred vessel". *Chemical Engineering Science*, 68(1), 617-623. [**Most Cited Paper** award by Chem. Eng. Sci. in 2015 (for 2010-2014) & 2016 (2011-2015); Contributed to the "h5 index" of the journal Google Scholar Metrics in 2015 & 2016].
- P-31. **Daraboina, N.**, Linga, P., Ripmeester, J., Walker, V. K., and Englezos, P. (2011a). "Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 2. Stirred Reactor Experiments." *Energy & Fuels*, 25(10), 4384-4391. [**Contributed to the "h5 index" of the journal in Google Scholar Metrics in 2016**].
- P-32. **Daraboina, N.**, Ripmeester, J., Walker, V. K., and Englezos, P. (2011b). "Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 1. High Pressure Calorimetry." *Energy & Fuels*, 25(10), 4392-4397.
- P-33. **Daraboina, N.**, Ripmeester, J., Walker, V. K., and Englezos, P. (2011c). "Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 3. Structural and Compositional Changes." *Energy & Fuels*, 25(10), 4398-4404.
- P-34. **Daraboina, N.**, and Madras, G. (2009) Kinetics of the ultrasonic degradation of poly (alkyl methacrylates). *Ultrasonics Sonochemistry*. 16 (2): 273-279.
- P-35. Shukla, N.B., **Daraboina, N.**, and Madras, G. (2009) Oxidative and photo oxidative degradation of poly (acrylic acid). *Polymer Degradation and Stability*. 94 (8): 1238-1244.
- P-36. **Daraboina, N.**, and Madras, G. (2008) Thermal and photocatalytic degradation of poly (methyl methacrylate), poly (butyl methacrylate) and their copolymers. *Industrial & Engineering Chemistry Research*. 47(18): 6828-6834.
- P-37. Shukla, N.B., **Daraboina, N.**, and Madras, G. (2008) Ultrasonic degradation of poly (acrylic acid). *Journal of Applied Polymer Science*. 112 (2): 991-997.

CONFERENCE PRESENTATIONS (FULL ARTICLES)

- P-38. **Daraboina, N.**, Chi, Y; Eduardo, P; Scott, S; and Sarica, C.,(2018) "Effect of High Pressure on the Performance of Existing Two -phase Models in Well bores", SPE Annual Technical Conference and Exhibition, 24-26 September, Dallas, Texas, USA.

- P-39. Chi, Y; **Daraboina, N.** and Sarica, C., (2018) “Experimental Study of Wax Deposition under Two-phase Gas-Oil Stratified Flow” 11th North American Conference on Multiphase Production Technology, 6-8 June, Banff, Canada.
- P-40. A Dubey, Y Chi, **Daraboina, N.** (2017)., Investigating the Performance of Paraffin Inhibitors under Different Operating Conditions” SPE Annual Technical Conference and Exhibition, 9-11 October, San Antonio, Texas, USA.
- P-41. Kumar A, **Daraboina, N.** Kumar, R and Linga, P (2017)., “Studies of THF –CH₄ Mixed Hydrates Using High Pressure DSC” Proceedings of the 9th Int’l Conference on Gas Hydrates Colorado, USA.
- P-42. J Agarwal, S Ravichandran, **Daraboina, N.**, C Sarica (2017) “Effect of Hydrodynamic Parameters on the Wax Mass Density: Scale Up from Laboratory Flow Loop to Crude Production Pipelines” Offshore Technology Conference, Houston, May 2017.
- P-43. **Daraboina, N.** Soedarmao, A and Sarica, C. (2016) “ Microscopic study of Wax inhibition Mechanism” Offshore Technology Conference, Houston, May 2016.
- P-44. **Daraboina, N.**, Linga, P., Ripmeester, J.A., Walker, V. K. and Englezos, P. (2014) “The Unusual Growth Behavior of Methane/Ethane/Propane Hydrate Crystals in the Presence of Inhibitor at low pressure” Proceedings of the 8th Int’l Conference on Gas Hydrates, Beijing, China.
- P-45. Hersuland, P. H., **Daraboina, N.**, von Solms, N., (2014) “ Modeling and Measuring Hydrate Promotion for CO₂ capture” Proceedings of the 8th Int’l Conference on Gas Hydrates, Beijing, China.
- P-46. **Daraboina, N.**, von Solms, N (2014). “Evaluation of Kinetic Inhibitors for Gas Hydrate Formation in the presence of n-heptane.” Proceedings of the 8th Int’l Conference on Gas Hydrates, Beijing, China.
- P-47. Perfeltdt, C. M.; Chua, P. C.; **Daraboina, N.**; Friis, D.; Kristiansen, E.; Ramlov, H.; Woodley, J. M.; Kelland, M. A.; von Solms, N., (2014) Inhibition of Gas Hydrate Formation With a Hyperactive AFP”. Proceedings of the 8th Int’l Conference on Gas Hydrates, Beijing, China.
- P-48. **Daraboina, N.**, Linga, P., Ripmeester, J.A. and Englezos, P. (2011) Experimental investigation of the effect of poly-N-vinyl pyrrolidone on methane/propane clathrate in the presence of silica sand. Proceedings of the 7th Int’l Conference on Gas Hydrates, Edinburgh Scotland.
- P-49. **Daraboina, N.**, Ripmeester, J.A., Walker, V.K. and Englezos, P. (2011) Multi-scale assessment of the performance of kinetic hydrate inhibitors. Proceedings of the 7th Int’l Conference on Gas Hydrates, Edinburgh, Scotland.

BOOK CHAPTERS

- B-1. Duo Sun; **Daraboina, N.**; Ripmeester, J., and Englezos, P., “ Gas Injection for Disposal and Enhanced Recovery”. Chapter 17; 2014; ISBN: 978-1-118-93857-7.

LIST OF CONFERENCE PRESENTATIONS (PUBLISHED ABSTRACTS)

- C-1. Ahmed Al-hosani, and **Daraboina, N.**; “Modeling Asphaltene Deposition in Production Pipelines” AIChE Annual Meeting, Orlando, USA, November 10-15, 2019
- C-2. Yingda Lu, Jinghao Yang, Cem Sarica, Elijah Bell and **Daraboina, N.** “Paraffin Deposition Modeling – Is the Current Methodology Sufficient?” AIChE Annual Meeting, Orlando, USA, November 10-15, 2019
- C-3. Ponnivalavan Babu, Zheng Chong, Abhishek Nambiar, Praveen Linga and **Daraboina, N.** “Techno-Economic Analysis of Clathrate Hydrate Based Desalination (HyDesal) Process Utilizing LNG Cold Energy” AIChE Annual Meeting, Orlando, USA, November 10-15, 2019
- C-4. Aziz Alhejali, Samuel Limon, Ponnivalavan Babu and **Daraboina, N.**, “Desalination of contaminated water via clathrate hydrates” IPEC 2019, San Antonio, October 7-9, 2019.
- C-5. **Daraboina, N.***, and Sarica, C., “The current state of knowledge: wax deposition modeling and upscaling challenges” AIChE Annual Meeting, Pittsburg, PA, USA, October 28-November 2, 2018
- C-6. Ravichandran, S; **Daraboina, N.*** and Sarica, C., Existence of supersaturation and its effects on wax deposition behavior” AIChE Annual Meeting, Pittsburg, PA, USA, October 28-November 2, 2018
- C-7. **Daraboina, N.***, Chi, Y; and Sarica, C., "Experimental and Modeling Study of Gas-Oil Stratified Flow Wax Deposition” Perophas, Utha, USA, July 8-12, 2018.
- C-8. **Daraboina, N.***, Navaneetha Kannan, S; Rama Venkatesan and Sarica, C., Settling and Re-Entrainment of Wax Particles in Near Gelling Systems”, AIChE Annual Meeting, San Francisco, CA, USA, November 13-18, 2016.
- C-9. **Daraboina, N.***, Alexander Koltveit and Nicolas von Solms., Performance of Biodegradable Kinetic Inhibitors on Natural Gas Hydrate Formation, AIChE Annual Meeting, San Francisco, CA, USA, November 13-18, 2016.
- C-10. **Daraboina, N.***, Chi, Y; and Sarica, C., Inhibitors Efficacy in Wax Mitigation Using a Laboratory Scale Flow Loop. Spring Meeting and 12th Global Congress on Process Safety, Houston, April 2016
- C-11. **Daraboina, N.** and von Solms, N., “CO₂ Capture By Gas Hydrate Formation: Combined Effect of Thermodynamic and Kinetic Promoters” AIChE Annual Meeting, Global Challenges for Engineering a Sustainable Future, San Francisco, CA, USA, November 3-8, 2013

- C-12. **Daraboina, N.**; Malmos, C.; von Solms, N., “Inhibition of hydrate formation with hyperactive antifreeze protein” AIChE Annual Meeting, Global Challenges for Engineering Sustainable Future, San Francisco, CA, USA, November 3-8, **2013**
- C-13. Duo Sun; **Daraboina, N.**; Ripmeester, J., and Englezos, P., “Capture of CO₂ and Storage in Depleted Gas Reservoirs in Alberta as Gas Hydrate” presented, Fourth International Acid Gas Injection Symposium. Calgary, Canada, September 24- 27, **2013**.
- C-14. Sharifi, H.; **Daraboina, N.**; Ripmeester, J., and Englezos, P., “Nucleation, Growth and Dissociation of Gas Hydrates in Gas/Water and Gas/Oil/Water Type Systems” presented, Fourth International Acid Gas Injection Symposium. Calgary, Canada, September 24- 27, **2013**
- C-15. **Daraboina, N.**; Malmos, C.; von Solms, N., “Experimental evaluation of the efficacy of ice structuring proteins as natural gas hydrate inhibitors”. Presented, Properties and Phase Equilibria for P-product and Process Design. Iguazu Falls, Argentina-Brazil, May 26-30, **2013**
- C-16. **Daraboina, N.**; Malmos, C.; von Solms, N., Enhanced kinetic inhibition of natural gas hydrate formation. Presented, 9th European Federation of Chemical Engineering (EFCE). The Hague, Netherlands, April 21-25, **2013**
- C-17. Duo Sun; **Daraboina, N.**; Englezos, P. “Secure Storage of Impure CO₂ in the Form of Solid Hydrate in Depleted Gas Pool in Northern Alberta”. presented, 62nd Canadian Society Chemical Engineering conference. Vancouver, BC, Canada. October 14-17, **2012**.
- C-18. **Daraboina, N.**; Ripmeester, J. A.; Englezos, P. “New insights into gas hydrate decomposition in the presence of synthetic and biological inhibitors”. presented, 61st Canadian Society Chemical Engineering conference. London, Ontario, Canada. October 23-26, **2011**.
- C-19. Walker, V.K; **Daraboina, N.**; Gordienko, R., Ohno, H.; Ripmeester, J. A.; Englezos, P., Green gas hydrate inhibitors?” Ice -Binding Protein conference. Kingston, Ontario, Canada, August 3-6, **2011**.
- C-20. **Daraboina, N.**; Ripmeester, J. A.; Walker, V.K.; Englezos, P., "Multi-scale assessment of the performance of kinetic hydrate inhibitors", 7th International Conference on Gas Hydrates Edinburgh, Scotland, United Kingdom, July 17-21, **2011**.
- C-21. **Daraboina, N.**; Ripmeester, J. A.; Linga P.; Englezos, P., "Experimental investigation of the effect of poly-N-vinyl pyrrolidone on methane/propane clathrate in the presence of silica sand", 7th International Conference on Gas Hydrates Edinburgh, Scotland, United Kingdom, July 17-21, **2011**.
- C-22. **Daraboina, N.**; Ripmeester, J. A.; Walker, V.K.; Englezos, P., "Inhomogeneous hydrate formation induced by kinetic hydrate inhibitors". Presented, American Chemical Society conference, Anaheim, USA, March 27, **2011**.
- C-23. **Daraboina, N.**; Alireza B and Englezos, P., Energy and flow assurance aspects of gas hydrate”. Presented. Clean energy research center, UBC, December 8, **2010**.
- C-24. **Daraboina, N.**; Ripmeester, J. A.; Englezos, P. Understanding the Action of kinetic hydrate inhibitors". presented, 60th Canadian Society Chemical Engineering conference. Saskatoon, Saskatchewan, Canada. October 26, **2010**

INVITED PRESENTATIONS

- I-1. Chi, Y; **Daraboina, N.*** and Sarica, C., "Investigating of thermal effects on two-phase gas oil stratified flow wax deposition” Ocean, Offshore and Arctic Engineering Conference (OMAEC), of the American Society of Mechanical Engineers (ASME) in Fort Lauderdale, FL, USA., June 28 - July 3, 2020.
- I-2. **Daraboina, N.**; “Novel desalination Technology” Sustaining Oklahoma’s Energy Resources (SOER), Oklahoma City, April 9, 2019.
- I-3. **Daraboina, N.**; “Gas hydrates and its applications” AIChE SLS Annual Conference, National University of Singapore, 18 May 2018.
- I-4. **Daraboina, N.**; “Industrial perspective on managing hydrate issues in subsea developments” Indian Institute of Technology, Madras (IIT). July 2018

MEMBERSHIP IN PROFESSIONAL AFFILIATIONS

- 2010: Canadian Society for Chemical Engineering (CSCHE)
- 2011: American Chemical Society (ACS)
- 2012: Carbon Management Canada (CMC)
- 2013-current : American Institute of Chemical Engineers (AIChE)
- 2015-current: Society of Petroleum Engineers (SPE)

- 2019-current: Offshore Technology Conference sub committee member (OTC)

REVIEWER FOR THE FOLLOWING JOURNALS (ACTIVE)

- Chemical Engineering Science
- Int. J. Greenhouse Gas Control
- Industrial & Engineering Chemistry Research
- Energy
- Materials Chemistry and Physics
- Energy& Fuels
- Fuel
- Fluid Phase Equilibria
- Journal of Natural Gas Science & Engineering
- Canadian Journal of Chemical Engineering
- Journal of Petroleum Science & Engineering
- Energies
- SPE Journals
- Petroleum