

PHANEENDRA B. KONDAPI, Ph.D.
KBR Adjunct Professor in Subsea Engineering
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EDUCATION

- PhD, Chemical Engineering, Tennessee Technological University, Cookeville, TN
- MS, Chemical Engineering, Andhra University, Visakhapatnam, India
- BS, Chemical Engineering, Andhra University, Visakhapatnam, India

EXPERIENCE

Senior Technical Advisor – Flow Assurance Granherne/KBR, Houston, TX	May 2014 – present
KBR Adjunct Professor – Subsea Engineering University of Houston, Houston, TX	Jan. 2011 – present
Engineering Manager – Flow Management FMC Technologies Inc, Houston, TX	Feb. 2010 – Jan. 2014
Project Manager; Senior Consultant Multiphase Solutions Inc, Houston, TX	Sep. 2004 – Nov. 2009
Lead Engineer TRAX Corporation, Forest, VA	Aug. 2000 – Sep. 2004
Research Assistant Center for Manufacturing Research, Cookeville, TN	Jan. 1996 – May 2000
Project Lead (Consultant) ABB Simcon Inc, Bloomington, NJ	Aug. 1995 – Dec. 1995
Project Lead (Consultant) Atlantic Simulation Inc, Shrewsbury, NJ	Sep. 1993 – July 1995
Senior Engineer; Simulation Engineer Tri-Angle Simulation Private Limited, Bombay, India	Sep. 1991 – Dec. 1995
Research Fellow Energy Engineering Laboratory, Andhra University, India	Dec. 1990 – June 1991

PROFESSIONAL SOCIETIES

- Member, Society for Petroleum Engineers (SPE)
- Founding Member, Upstream Engineering and Flow Assurance (UEFA) Forum, AIChE
- Founding Faculty Advisor, Subsea Engineering Society, University of Houston

HONORARY SOCIETIES

- Sigma Xi, The Scientific Research Society (1999)

AWARDS/HONORS

- Chair, SPE Flow Assurance Technical Section, 2015
- Chair, SPE *Flow Assurance – The Future State of the Art* Forum, Newport Beach, CA, 2015
- SPE Teaching Fellow Award, Society of Petroleum Engineers (SPE) International, 2013
- Outstanding Alumnus Award, College of Engineering, Andhra University, 2013
- Best Student Paper Award, Engineering and Engineering Technology Presentations, Tennessee Academy of Sciences Meeting, 1998
- National Merit Scholarship, State Government of Andhra Pradesh, India
- Mathematical Olympiad Certificate, APAMT, India

EDUCATIONAL ACTIVITIES

- Co-developer, First and only Subsea Engineering Program in the USA, 2010
- Co-designer, Subsea Engineering Certificate Program curriculum at UH, 2010
- Co-designer, Subsea Engineering Masters Program curriculums at UH, 2011
- Designer and developer, a new graduate level course, Flow Assurance, an industry-ready three-credit hour graduate level university course, a first in the USA, 2011
- Co-designer, a new graduate level course, Subsea Processing and Artificial Lift, 2012
- Developer, “*Reverse Circular Teaching*” a new practical teaching method, 2011
- Founding Member, Global Subsea University Alliance, 2010~
- Faculty Advisor, Subsea Underwater Technology-Subsea Engineering Society (SUT-SES), University of Houston, 2013~
- Faculty Advisor, Graduate Indian Students Association, University of Houston, 2014~

PROFESSIONAL ACTIVITIES

- Reviewer and panelist, Small Business Innovation Research (SBIR) Program, National Science Foundation (NSF), 2011
- First Vice-Chair, SPE Flow Assurance Technical Section, 2014
- Member, SPE International Faculty Innovative Teaching Awards Committee, 2014~
- Member, AIChE Subcommittee, [Offshore Technology Conference \(OTC\) Program](#), 2012~
- Member, Flow Assurance Steering Committee, OTC Program, 2013~
- Member, Subsea Processing Steering Committee, OTC Program, 2013~
- Co-Chair, AIChE UEFA Program Committee, 2013
- Member, AIChE UEFA Program Committee, 2011, 2012
- Member, Global Training Committee, Society of Petroleum Engineers (SPE), 2012~
- Member, Southwest Process Technology Conference Committee, AIChE, 2012~
- Member, Subsea & Arctic Leak Detection Symposium Program Committee, 2011, 2012

ARTICLES

- *ASME-DSC Magazine*, "[Flow Assurance: Deja-vu in Subsea Engineering?](#)", Pages 13-15, March 2015
- *E&P Magazine*, "[Training tomorrow's subsea engineers](#)", Pgs. 12-14, August 2014
- *Offshore Technology Conference (OTC) 2014 Publication*, "[Need of the Hour: Industry-Ready Education](#)", Page 19, Tuesday, May 6, 2014
- *Upstream Technology Magazine*, "[An ounce of prevention](#)", Pgs. 52-54, Vol.1, 2014
- *Oil and Gas Facilities Magazine*, "Challenges of Processing and Transporting Heavy Crude", Pages 22-26, October 2013
- *E&P Magazine*, "[Emerging flow solutions drive industry's subsea advances](#)", August 2013
- *RIGZONE.com*, "[Subsea Separation Tops List of Subsea Technology in Demand](#)", June 6, 2013
- *Offshore Technology Conference (OTC) 2013 Publication*, "[Reviewing Flow Assurance Technologies](#)", Page 28, Thursday, May 9, 2013

INVITED LECTURES

- Invited Lecture, *Innovative Teaching Methods in Engineering Education*, International Faculty Session, SPE Annual Technical Conference and Exhibition, New Orleans, September 29, 2013
- Invited Speaker, *Subsea Engineering Program and Flow Assurance*, Pipesim User Group Meeting, Digital Technology Theater, Schlumberger, Houston, October 21, 2014
- Invited Speaker, *Flow Assurance Challenges and Technologies*, Schlumberger - Fluid Group, Houston, August 22, 2014
- Guest Lecture, *How to be a Successful Student?*, College of Engineering, Andhra University, Visakhapatnam, India, July 11, 2014
- Guest Lecture, *Need for Industry Ready Education*, Anil Neerukonda Institute of Technology and Sciences (ANITS), Visakhapatnam, India, July 16, 2013
- Guest Lecture, *Fluid Phase Behavior in Flow Assurance*, Department of Chemical Engineering, University of Houston, November 4, 2013
- Invited Lecture, *Overview to Subsea Engineering*, RGIPT & PDPU Exchange Students from India, Department of Petroleum Engineering, University of Houston, June 14, 2013
- Invited Lecture, *Overview to Subsea Engineering*, PDPU Exchange Students from India, Department of Petroleum Engineering, University of Houston, July 6, 2012

CONFERENCES/SESSIONS ORGANIZED

- SPE Flow Assurance – The Future State of the Art Forum, Newport Beach, CA, May 31- June 5, 2015
 - Chair, [Forum Organizing Committee](#)
 - Session Manager, [How Does Our Future Success of Flow Assurance Impact the Economic Recovery Limits?](#)

- 7th AIChE Southwest Process Technology Conference, Galveston, TX, October 1-2, 2015
 - Organizer and Chair, *Upstream Process Technology Session*
- Offshore Technology Conference (OTC) 2015, Houston, TX, May 4-7, 2015
 - Organizer and Chair, *Subsea Processing Session*
 - Organizer and Chair, *Flow Assurance Session*
- 6th AIChE Southwest Process Technology Conference, Galveston, TX, October 9-10, 2014
 - Organizer and Chair, [Upstream Oil and Gas Session](#)
- Offshore Technology Conference (OTC) 2014, Houston, TX, May 5-8, 2014
 - Organizer and Chair, [Subsea Processing Session](#)
 - Organizer and Chair, [Flow Assurance Session](#)
 - Organizer and Speaker, [Global Subsea University Alliance - Providing Talent for the Future](#)
- 5th AIChE Southwest Process Technology Conference, Galveston, TX, October 3-4, 2013
 - Organizer and Chair, [Upstream Oil and Gas Session](#)
- Subsea & Arctic Leak Detection Symposium (SALDS), Houston, TX, December 5-6, 2012
 - Organizing Committee Member
- [4th AIChE Regional Process Technology Conference](#), League City, TX, October 4-5, 2012
 - Organizer and Chair, *Upstream Oil and Gas Session (Inaugural Session)*
 - Moderator, *Panel Session: The need to integrate Chemical Engineering along with Petroleum, Mechanical and Civil Engineering to develop/improve Upstream Oil and Gas Technologies and how it is relevant to various aspects of Upstream Engineering and Flow Assurance*
- [1st International Conference on Upstream Engineering and Flow Assurance](#), AIChE, Houston, TX, April 1-5, 2012
 - Organizer and Co-Chair, *Upstream and Subsea Processing Session*
 - Organizer and Co-Chair, *The Future Wave - Graduate Students Session*
 - Organizer and Co-Chair, *The Future Wave - Graduate Students Poster Session*
- Subsea & Arctic Leak Detection Symposium (SALDS), Houston, TX, November 8-9, 2011
 - Organizing Committee Member
- [6th AIChE/SPE Joint Workshop on Flow Assurance](#), Houston, TX, September 26-28, 2011
 - Organizer and Co-Chair, *Compact/Modular Processing for Remote Applications Session*

NEWS/QUOTES

- KBR, [Senior KBR Technical Advisor Honored for his work in Flow Assurance](#), March 17, 2015
- University of Houston, Cullen College of Engineering, ["ASME Magazine Taps into UH Subsea Engineering Experts"](#), March 4, 2015
- University of Houston, Mechanical Engineering, [Subsea Students Present at PIPESIM User Group Meeting, October 28, 2014](#)
- University of Houston, Cullen College of Engineering, ["E&P Magazine Spotlights Subsea Engineering Program"](#), August 6, 2014

- *University of Houston, Cullen College of Engineering*, "[Subsea Engineering Program Major Player in 2014 Offshore Technology Conference](#)", May 5, 2014
- *University of Houston, Cullen College of Engineering*, "[Subsea Engineering Flow Assurance Course Boasts 120 Grad Students](#)", January 21, 2014
- *University of Houston, Cullen College of Engineering*, "[Subsea Professor Wins SPE Teaching Excellence Award](#)", August 27, 2013
- *Offshore Engineer (OE) Magazine*, "University launches subsea engineering program", Page 75, November 2013 (reprinted in [UH](#) and [OEdigital.com](#))
- *University of Houston, Mechanical Engineering*, "[Subsea Professor Urges Creation of National Institute for Subsea Engineering at Offshore Technology Conference](#)", May 14, 2013
- *Oil and Gas Facilities Magazine*, "SPE Technical Section Addresses Flow Assurance", Page 32, February 2014
- *Houston Chronicle Daily Newspaper* – "[UH subsea society rises to the top](#)", January 2, 2014 (reprinted in [Fuelfix](#))
- *RIGZONE.com*, "[UH Subsea Engineering Certificate Offers Mix of Real World, Theory](#)", Friday June 8, 2012
- *WellLinked*, "[An Industry First](#)", Page 9, 3rd Quarter 2012
- *TheHindu.com*, ANITS - "[Need for Industry Ready Education](#)", July 22, 2013
- *University of Houston, Cullen College of Engineering*, "[Students Start First Subsea Engineering Organization](#)", September 5, 2013
- *OilOnline.com*, "[Subsea Engineering Society dives into first year](#)", October 14, 2013
- *TheDailyCougar.com*, "[Subsea Engineering Society makes waves across campus](#)", October 1, 2013
- *FMCTechnologies.com*, "[The University of Houston Subsea Engineering Program](#)", 2013
- *SPE-GCS Newsletter*, "SPE, AIChE Co-Host Workshop on Challenges in Flow Assurance, Sept 26–28, Houston", Page 18, September 2011
- *Chemical Engineering Progress Magazine*, "AIChE, SPE Co-Host Workshop on Challenges in Flow Assurance, Sept. 26–28, Houston", Page 19, August 2011

PRESENTATIONS

- [SPE International Webinar](#), March 26, 2015, *An Insight to Current Flow Assurance Technologies*
- [Offshore Technology Conference 2014](#), Houston, TX, May 5 – 8, 2013. *Need for Industry Ready Education: Flow Assurance Course – A Case Study*, OTC-25262
- [Offshore Technology Conference 2014](#), Houston, TX, May 5–8, 2014. *Global Subsea University Alliance – Providing Talent for the Industrial Future*, Breakfast Talk
- [SPE International Webinar](#), April 17, 2014, *Innovative Teaching Methods in Engineering Education for Student Success*
- [SPE Annual Technical Conference and Exhibition](#), New Orleans, September 29, 2013, *Innovative Teaching Methods in Engineering Education*, International Faculty Session

- Offshore Technology Conference 2013, Houston, TX, May 6 – May 9, 2013. *Today's Top 30 Flow Assurance Technologies: Where do they stand?*, OTC-24250
- Offshore Technology Conference 2012, Houston, TX, April 30 – May 4, 2012. *Recirculation Loop Analysis for a Subsea Boosting System*, OTC-23644
- 1st International Conference on Upstream Engineering and Flow Assurance, AIChE, Houston, Texas, April 1-5, 2012. *Real-time Monitoring of a Subsea Boosting System* (35c)
- American Institute of Chemical Engineers (AIChE) 2012 Spring Meeting, Houston, Texas, April 1-5, 2012. *Reverse Circular Teaching: A Pragmatic and Effective Way to Increase Successful Understanding* (140a)
- UH Effective Teaching Practices Showcase, Houston, Texas, April 15, 2011. *Reverse Circular Teaching: A Pragmatic and Effective Way to Increase Successful Understanding*
- Subsea and Arctic Leak Detection Symposium (SALDS 2011), Houston, Texas, November 8-9, 2011. *Subsea Leak Detection: A Case Study*
- Subsea and Arctic Leak Detection Symposium (SALDS 2010), Houston, Texas, October 6-7, 2010. *FlowManager Leak Detection System*
- 29th International Thermal Conductivity Conference, Birmingham, Alabama, June 24-27 (2007). *Partial Pressure Profiles of Blowing Agent Gas in Polymer Foams having Non-Uniform Density*
- 22nd International Conference on Thermal Insulation, The Greenbrier, White Sulphur Springs, West Virginia, December 11-12 (2006). *Compressive Strength of Closed-Cell Foams Having Non-Uniform Density*
- American Institute of Chemical Engineers (AIChE) 2006 Annual Meeting, San Francisco, California, November 12-17 (2006). *Transient Diffusion of Gases in Polymer Foams Having Non-Uniform Density* (317t)
- 21st International Conference on Thermal Insulation, The Greenbrier, White Sulphur Springs, West Virginia, January 9-10 (2006). *Evaluation of Properties for Foams having Variable Density*
- 28th International Thermal Conductivity Conference, St.Andrews-by-the-Sea, New Brunswick, Canada, June 26-29 (2005). *The Long-Term Thermal Performance of Foams having Non-Uniform Density*
- 108th Meeting of Tennessee Academy of Science, Cookeville, Tennessee, November 20 (1998). *Evaluation of Effective Diffusion Coefficients of CO₂ in Closed-Cell Polyurethane Foam Specimens*
- 107th Meeting of Tennessee Academy of Science, Tullahoma, Tennessee, November 21 (1997). *Transient Gas Diffusion in a Closed-Cell Foam: A New Approach*
- 24th International Thermal Conductivity Conference, Pittsburgh, Pennsylvania, October 26-29 (1997). *Influence of Initial Internal Cell Gas Pressure on the Aged Cell Gas Pressure Profiles*
- 12th International Conference on Computer Aided Production Engineering, Cookeville, Tennessee, August 5-7 (1996). *Direct Digital Control of Environmentally Isolated Seafood Manufacturing Systems*

PUBLICATIONS/PROCEEDINGS

- Phaneendra Kondapi, *Need for Industry Ready Education: Flow Assurance Course- A Case Study*, Conference Proceedings, OnePetro, 2014 Offshore Technology Conference
- Phaneendra Kondapi and Randi Moe, *Today's Top 30 Flow Assurance Technologies: Where do they stand?*, Conference Proceedings, OnePetro, 2013 Offshore Technology Conference
- Phaneendra Kondapi and Janardhan Davalath, *Recirculation Loop Analysis for a Subsea Boosting System*, Conference Proceedings, OnePetro, 2012 Offshore Technology Conference
- Phaneendra Kondapi, Anita Sengebusch and Janardhan Davalath, *Real-time Monitoring of a Subsea Boosting System*, Conference Proceedings, 2012 AIChE Spring Meeting
- P. B. Kondapi, J. R. Booth and D. W. Yarbrough, *Partial Pressure Profiles of Blowing Agent Gas in Polymer Foams having Non-Uniform Density*, Thermal Conductivity 29, DEStech Publications, (2008) 88-99
- Phaneendra B. Kondapi, J. Richard Booth and David W. Yarbrough, *Compressive Strength of Closed-Cell Foams having Non-Uniform Density*, Proceedings of the International Conference on Thermal Insulation, 22 (2007) 173-182
- P. B. Kondapi, J. R. Booth and D. W. Yarbrough, *The Long-Term Thermal Performance of Foams having Non-Uniform Density*, Thermal Conductivity 28, DEStech Publications, (2006) 80-95
- Phaneendra B. Kondapi, J. Richard Booth and David W. Yarbrough, *Transient Diffusion of Gases in Polymer Foams Having Non-Uniform Density*, Conference Proceedings, 2006 AIChE Annual Meeting
- Phaneendra B. Kondapi, J. Richard Booth and David W. Yarbrough, *Evaluation of Properties for Foams having Variable Density*, Proceedings of the International Conference on Thermal Insulation, 21 (2006), 176-190
- P. B. Kondapi, J. R. Booth and D. W. Yarbrough, *Transient Gas Diffusion in a Closed-Cell Foam using an Implicit Finite Difference Method*, Thermal Conductivity 24, Technomic Publishing Company, (1999) 428-436
- J. Richard Booth and Phaneendra B. Kondapi, *Direct Digital Control of Environmentally Isolated Seafood Manufacturing Systems*, Journal of Materials Processing Technology, 61(1996), 27-33

THESES

- **Ph.D.:** Development of a Transient Multicomponent Diffusion Model for Closed-Cell Rigid Polymer Foam
Advisors: Dr. David W. Yarbrough and Dr. J. Richard Booth
- **M.S.:** Studies in Phase Equilibria: Determination and Evaluation of Limiting Activity Coefficients
Advisors: Prof. A. Ravi Prasad and Prof. K. Venkateswara Rao

GLOBAL TRAVEL EXPERIENCE

Norway, Brazil, Mexico, England, Qatar, Singapore, Bahamas, UAE, Bahrain, Saudi Arabia, USA and India

COURSES TAUGHT AT UNIVERSITY OF HOUSTON

- Spring 2015 – SUBS6310 – Flow Assurance
- Spring 2014 – SUBS6310 – Flow Assurance
- Spring 2013 – SUBS6310 – Flow Assurance
- Spring 2012 – MECE6397 – Flow Assurance
- Spring 2011 – MECE6397 – Flow Assurance
- Fall 2012 – SUBS6340 – Subsea Processing and Artificial Lift (Group Teaching)

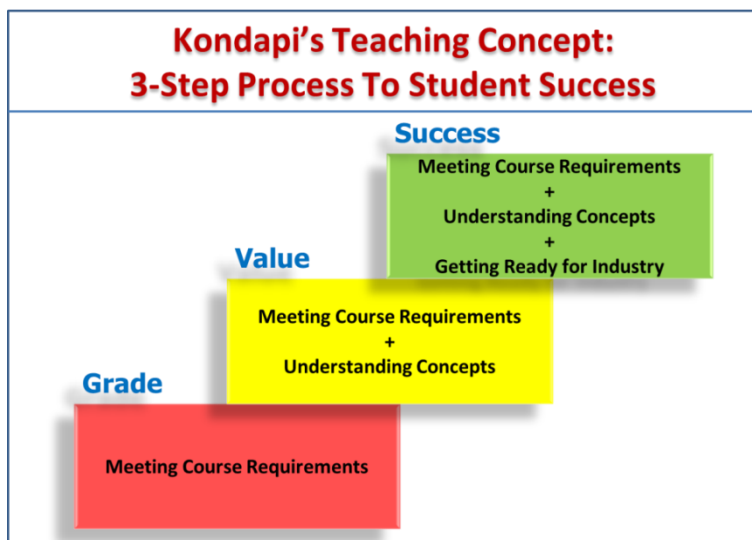
STUDENTS ADVISED

- S. Deshpande., ME Graduate Student, MECE6397-Special Topics, Fall 2013
- R. Vijendra Prasad, CE Graduate Student , Masters Thesis, Summer 2014
- K. Pawar, ME Graduate Student , MECE6397-Special Topics, Fall 2014
- S. Gaddipati, ME Graduate Student, MECE6397- Special Topics, Fall 2014

STUDENT PRESENTATIONS

- 1st International Conference on Upstream Engineering and Flow Assurance, AIChE, Houston, Texas, April 1-5, 2012. *Design Field Architecture for Deepwater Production Wells Based On Flow Assurance Criteria*, By Sridhar Appanapalli and Manjunath Terwad
- Pipesim User Group Meeting - 2015, Digital Technology Theater, Schlumberger, Houston, October 21, 2014. *Deepwater Field Layout Design using Pipesim*, By Neha Jhinge, Kapil Pawar and Sai Gaddipati

TEACHING CONCEPT



TEACHING METHOD

Reverse Circular Teaching

TEACHING PHILOSOPHY

Preparing Next Generation of Industry-Ready Workforce @ University Level