

CURRICULUM VITAE

Personal Data

Name: Tang, Yang

Date of Birth: Jan, 1988

Research Areas:

- Asset Integrity Management for Marine Oil and Gas Equipment
- Design and Optimization on Oil and Gas Equipment

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Education

- PhD (Mechanical Engineering) Southwest Petroleum University Jun, 2016
- M.E (Energy and Power Engineering) Southwest Petroleum University Jun, 2013
- B.E (Process Equipment & Control Engineering) Southwest Petroleum University Jun, 2010

Academic Achievement

Selected Publications

- **Tang Y**, Liu Q Y, Jing J, et al. A framework for identification of maintenance significant items in reliability centered maintenance. *Energy*, 118: 1295-1303, 2017.
- **Tang Y**, Zou Z, Jing J, et al. A framework for making maintenance decisions for oil and gas drilling and production equipment [J]. *Journal of Natural Gas Science and Engineering*, 26: 1050-1058, 2015.
- **Tang Y**, Liu Q Y, Xie C, et al. Study on stress distribution of a subsea Ram BOP body based on simulation and experiment [J]. *Engineering Failure Analysis*, 50: 39-50, 2015.
- **Tang Y**, Jing J J, Yang Y, et al. Parameter Estimation of a Delay Time Model of Wearing Parts Based on Objective Data [J]. *Mathematical Problems in Engineering*, 2015.
- Liu Q Y, **Tang Y**, Huang C, et al. Study on a Mechanical Semi-Active Heave Compensation System of Drill String for Use on Floating Drilling Platform[J]. *PLOS one*, 10(7), 2015.
- Liu Q Y, **Tang Y**, Wang D, et al. Numerical simulation on the impact dynamics of a novel rotation air hammer and experimental research [J]. *Journal of Vibroengineering*, 17(5), 2015.
- Liu Q Y, **Tang Y**, Xie C, et al. Gas drilling fluid pressure system contaminants and filter equations. *Journal of Sichuan University (Engineering Science Edition)*, 46(2): 153–159, 2014. (EI: 20141717605671) (In Chinese)
- Liu Q Y, **Tang Y**, et al. Reflections on research status of subsea test tree and home-made

feasibilities, Journal of Southwest Petroleum University, vol. 35, no. 2, pp. 1–7, 2013. (In Chinese)

- Liu Q Y, **Tang Y**, et al. Accident cause analysis and avoidance measures for field application of anti-lifting safety device. Journal of safety Science and Technology, 11(5): 118-122, 2015. (In Chinese)

Selected Patents

- Liu Q Y, **Tang Y**, He Y F. Deepwater oil and gas testing wellhead pipe column connector [P]. ZL201410125654.7, China. (National invention patent, Granted)
- Liu Q Y, **Tang Y**, He Y F, et al. Connection device for offshore test tube column relief system [P]. CN201510541376.8, China. (National invention patent, Examine as to substance).
- **Tang Y**, Liu Q Y, Wang G R, et al. A Framework for Fuzzy evaluation and prediction method for running status of mechanical equipment with occurrence probability of failure modes, PCT/CN2016/108057

Project Experience

- Research on Key Technologies and Supporting Devices for Integrity Evaluation of Oil Rig and Workover Rig. *Key Research Project of Sichuan Province Science and Technology Department, 2017-2018, Project Leader.*
- Study on Risk Assessment of Deepwater Testing Operations, Intelligent Completion Tools and Wellbore Integrity. *National Science and Technology Major Project, 2016-2020, One Task Leader.*
- Research on the mechanism of deepwater heave compensation system based on drilling dynamics. *National Natural Science Foundation of China, 2014-2016, Main researcher.*
- Study on Key Technologies of deepwater oil and gas well testing. *National Science and Technology Major Project, 2011-2015, Main researcher.*
- Study on decision support system for operation state and maintenance of drilling equipment on offshore platform. *Ph.D. innovation fund of School of Mechanical and Electrical Engineering, Southwest Petroleum University, 2014-2016, Project Leader.*
- Study on integrity assessment system of drilling equipment for offshore platform. *Chuanqing Drilling Engineering Co. Ltd of CNPC, 2013-2014, Main researcher.*
- Production of three-dimensional animation of working principle, disassembly and assembly on well control equipment. *Tarim oilfield Co. Ltd of CNPC, 2011-2012, Main researcher.*

Reviewer Position

- *PLOS One (SCI)*
- *International Journal of Naval Architecture and Ocean Engineering (SCI)*

- *Engineering Failure Analysis (SCI)*
- *Recent Patents on Engineering (EI)*
- *The Open Mechanical Engineering Journal (EI)*
- *Asian Journal of Mathematics and Computer*
- *Creative Education*
- *International Journal of Science and Qualitative Analysis*
- *Control Engineering (CSCD)*

Job and Social Affairs

- Jul, 2016- Present Lecturer, School of Mechatronic Engineering, Southwest Petroleum University
- Nov, 2016- Present Editorial Members, International Journal of Science and Qualitative Analysis
- 2012.7-2013.9 Secretary General and Executive Director, Association of Graduate Student Branch of Chengdu Mechanical Engineering

Honors and Awards

Time	Honors and Awards	Award organization
➤ Dec 2015	Doctoral Graduate National Scholarship	China National Department of Education
➤ Dec 2015	First-class Academic Scholarship of Doctoral Graduate	Education Department of Sichuan Province
➤ Dec 2015	Ten Outstanding Graduate Students	Southwest Petroleum University
➤ Nov 2015	Outstanding Graduate Students	Southwest Petroleum University
➤ Nov 2015	Outstanding graduate student cadres	Southwest Petroleum University
➤ Dec 2014	Doctoral Graduate National Scholarship	China National Department of Education
➤ Dec 2014	First-class Academic Scholarship of Doctoral Graduate	Education Department of Sichuan Province
➤ Nov 2014	Outstanding graduate student cadres	Southwest Petroleum University

Relevant Skills and Abilities

Auto-CAD, Pro/E, 3D-Composer, Abaqus, Adams, AMEsim, MATLAB, etc.

Research Interests

- Research on Asset Integrity Management Key Technologies of Offshore Platform, including Modified Reliability Centered Maintenance (RCM), Quantitative Maintenance Decision, Quantitative Fault Risk Assessment, Evaluation of Device Operation State, Multi-Person Comprehensive Evaluation Method, Safety Evaluation Method, NDT Methods of Special Shaped Oil Equipment and Pipeline.
- Design and Optimization on Oil and Gas Equipment, including Deep water Oil and Gas Test Tool, Intelligent Drill Pipe, and Intelligent Water Injection Tool.