

Wei Liang
Assistant to The Department Head & Associate Professor, Ph.D

Male, born on June 1978. His research interests are as follows:

- 1) Reliability Analysis & Mechanical Integrity
- 2) Risk Assessment and Leak Detection for Pipelines
- 3) Safety Control System, Fault Detection, and Diagnosis

EDUCATION:

2005	Ph.D. Mechanical Design and Theory, China University of Petroleum-Beijing
2000	B.S. Mechanic & Electronics Engineering, China University of Petroleum

PROFESSIONAL EXPERIENCE:

2007-Present	Associate Professor of Mechanic & Electronics Engineering, China University of Petroleum-Beijing
2009-Present	Faculty Director's Assistant, China University of Petroleum-Beijing Visiting Scholar in IMS Center, University of Cincinnati, OH, USA (Sept. 2009)
2008-2009	School Dean of Safety Engineering, China University of Petroleum-Beijing
2005-2007	Lecturer, China University of Petroleum-Beijing

HONORS AND AWARDS:

2006	1 st Award of China Petroleum and Chemical Industry Association, The Safety and Precise Diagnostic Method and System for The Key Equipment of West Oil Field
2005	3 rd "Cup of Challenge" for College Students' Innovative Undertaking Contest in Beijing Municipality

NOTABLE RESEARCH EXPERIENCE

<i>From</i>	<i>To</i>	<i>Funded By</i>	<i>Research Project Name</i>
2008	2010	National High-tech R&D Program	Pipeline leak detection system design
2009	2010	PetroChina	ANSYS based diagnosis methods for compressors
2007	2008	PetroChina	SOA based Office Administration system building and operation
2006	2008	CNPC Innovation program	The process-fusion methods on leak detection for product pipelines
2005	2007	PetroChina	New leak detection system for China West oil & product pipeline

2007	2009	PetroChina	Safety assessment and diagnosis methods for compressor station
2005	2008	Ministry of Education of the People's Republic of China	Small leak detection methods for Product pipelines
2009	2010	SINOPEC	Safety assessment and alerting methods on pumps and crude oil pipes
2002	2004	National Natural Science Foundation of China	Machine fault diagnostic methods for China Western oil fields

PUBLICATIONS:

- 2009 Wei Liang, Laibin Zhang, Zhaohui Wang. Fuzzy Information Fusion Based Quantitative HAZOP. 2009 Global Congress on Intelligent Systems (GCIS 2009) May 19-21, 2009 Xianglu Grand Hotel, Xiamen, China
- 2009 Wei Liang, Laibin Zhang, Zhaohui Wang. Data Mining Technology Based Leak Detection Method for Crude Oil Pipeline .2009 World Congress on Computer Science and Information Engineering (CSIE 2009) March 31 - April 2, 2009 Los Angeles, USA
- 2008 Liang Wei,Zhang Laibin,Wang Zhaohui. Small Leak Detection Methods on Pipelines. Science and Technology Engineering, 2008, 8 (20): 5608-5611
- 2008 Liang Wei,Zhang Laibin,Wang Zhaohui. Digitization to Long Distance Oil Pipeline Leakage Diagnosis.2nd World Conference on Safety of Oil and Gas Industry, Oct. 28-29,2008,College Station, Texas
- 2007 Liang Wei,Zhang Laibin,Wang Zhaohui. Study on Oil Pipeline Leakage Detection Based on Fuzzy Methods. China Petroleum Machinery, 2007, 35 (6): 42
- 2007 Liang Wei,Zhang Laibin,Wang Zhaohui. Research on SCADA Based Recognition of Pipeline Leak Signals With Incomplete Information.World Conference on Safety of Oil and Gas Industry, April 10
- 2007 Liang Wei,Zhang Laibin,Wang Zhaohui. Application of Acoustic Emission Technique in Pipeline Leak Detection. Science and Technology Engineering, 2007, 7 (8) :1576
- 2006 Liang Wei,Zhang Laibin,Wang Zhaohui. Study of Intelligent Diagnostic Methods on Leakage Fault for Oil Pipelines Based on Remote Methods.Lubrication Engineering,2006, 161 (1) : 43
- 2007 Liang Wei,Zhang Laibin,Wang Zhaohui. Remote Based Multi-channel Leak Monitoring System Using Correlation. 9st International Conference on Engineering Structural Integrity Assessment, October 15-19, 2007,Beijing, China.
- 2005 Liang Wei,Zhang Laibin,Wang Zhaohui.Research on Knowledge-Base Construction in Pipeline Leakage Detection with Incomplete Information. Pressure Vessel Technology, 2005; 22 (3): 5-8.
- 2005 Liang Wei,Zhang Laibin,Wang Zhaohui. An Application of Bootstrap Method in Pipeline

- Leakage Detection. Journal of Mechanical Strength, 2005, 27 (6): 730
- 2004 Liang Wei, Zhang Laibin, Wang Zhaohui. State of research on negative pressure techniques applied to leak detection in liquid pipelines. Proceedings of IPC 2004 International Pipeline Conference, October 4
- 2004 Liang Wei,Zhang Laibin,Wang Zhaohui. State of Research on Negative Pressure Techniques Applied to Leak Detection in Liquid Pipelines. Pipeline Technique and Equipment.2004,(6):16
- 2004 Liang Wei,Zhang Laibin,Wang Zhaohui. Research on Recognition of Pipeline Leakage Signals with Incomplete Information. Journal of the University of Petroleum, China,2004,28(5):74
- 2004 Liang Wei,Zhang Laibin,Wang Zhaohui. Research on Pipeline Small Leakage Detection and Leak Localization. China Petroleum Machinery, 2004, 32(12):13
- 2004 Liang Wei,Zhang Laibin,Wang Zhaohui. Research on Pipeline Leakage Diagnostic Method Based on DDE Technology. China Oil Field Equipment,2004,33(5):14
- 2003 Liang Wei,Zhang Laibin,Wang Zhaohui. Research on the Mechanism of Leak Detection for Products pipelines. The 11th National Conference on State Monitor and Fault Diagnosis technology, 2003, 3