Mengxi Yu

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EDUCATION

Sep 2013- Dec 2015 **Texas A&M University, College Station, Texas**
Master of Science in Safety Engineering
Cumulative GPR: 3.73/4.0

Sep 2009- May 2013 **University of Minnesota, Twin Cities, Minnesota**
Bachelor of Science in Chemical Engineering
Cumulative GPR: 3.56/4.0

INTERNSHIP

May 2014 – Aug 2014 ***Graduate Student Intern*, BASF-YPC Company Ltd., Nanjing, China**

- Collaborated with process safety group to perform EHS safety review for multiple modified plants
- Reviewed P&ID and participated in safety review meetings, discussing potential hazards and control measures
- Documented EHS safety review reports and Pre-Startup Safety Review (PSSR) checklist bilingually
- Translated BASF Best Practices and Guidelines for further employee training

RESEARCH

Mar 2015- Oct 2015 **Developing Safety Management Program for Oil and Gas Drilling and Servicing Operations,** Texas A&M University (TAMU), TX

- The motivation of the research project was to determine whether the application of OSHA Process Safety Management (PSM) and BSEE Safety and Environmental Management Systems (SEMS) should be extended to oil and gas drilling and servicing operations
- OSHA Integrated Management Information System (IMIS) was used for data collection and methods to improve current IMIS database are suggested
- Contributing causes were categorized according to incident descriptions and OSHA inspection citations
- A Safety Management Program for oil and gas drilling and servicing operations was developed

PROJECT EXPERIENCE

Feb 2015- Present **Risk of Transporting Class 3 and Class 9 Hazmat Funded by Transportation Research Board (TRB),** TAMU, TX

- The project is to assess risk of transporting hazmat using Department of Transportation (DOT) PHMSA database (over 30,000 incidents)
- SQL management studio is used to categorize causal factors and create a risk matrix

May 2015- Aug 2015 **Ranking of Chemical Facilities Based on Potential Harm to Public,** TAMU, TX

- The project was to provide a technical support for Houston Chronicle to assist them to rank chemical facilities based on their potential harm to public
- An integrated hazard index system was developed to incorporate material inherent hazards, quantity of chemicals, and population density

Jun 2015- Aug 2015 **Ocean Energy Safety Institute (OESI) International Regulation Forum Funded by Bureau of Safety and Environmental Enforcement (BSEE)**, TAMU, TX

- The purpose of the project was to improve regulations on offshore oil and gas operations by comparing regulations in U.S., U.K., and Norway
- Collaborated with a team of 2 to research, interpret, and compared regulations in U.S. and Norway (30 CFR 250 and Petroleum Safety Authority Norway Regulations)

Mar 2015- May 2015 **Dynamic Risk Assessment Course Project,** TAMU, TX

- Guided a team of 3 to perform dynamic risk assessment of a crude oil distillation system to monitor risk for 10 years by integrating precursors data
- Fault Tree Analysis (FTA) and Event Tree Analysis (ETA) were used to construct a Bayesian network in AgenaRisk®

CERTIFICATIONS

SAS Base Programming Certification, Six Sigma Green Belt Certificate

SKILLS

Process Safety: FTA, ETA, HAZOP, QRA, AgenaRisk®
Big Data Software: SAS, SQL Server, XLMiner
Other Software: HYSYS, Microsoft Office Suite
Languages: Fluent in English, Native in Mandarin

AWARDS

Harry West Graduate Award
Graduate Student Competitive Scholarship

LEADERSHIP

Sep 2013- Dec 2014 ***Vice President for Social Events,*** INFORMS-TAMU
Aug 2011- May 2012 ***Internal Community Director,*** Global China Connection -Twin Cities

WORK AUTHORIZATION

Eligible to work in U.S. for 29 months with Optional Practical Training (OPT)

REFERENCES

References available upon request