



Curriculum Vitae

Hao Yuan

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Education

BEng, Materials Science and Engineering, 2003~2007

Beijing University of Chemical Technology (BUCT)

Awarded 3 times of People's Scholarship for academic excellence

Honor of advanced individual in social practice

MSc, Petroleum Engineering, 2007~2009

Department of Chemical and Biochemical Engineering (KT),

Technical University of Denmark (DTU)

Full State Scholarship from Danish Government (covering tuition fees and living expenses for 2 years)

PhD, Chemical & Process Engineering, 2009. Oct.~2012 Sept.

Department of Chemical and Biochemical Engineering (KT),

Technical University of Denmark (DTU)

Funded by DONG Energy and The Danish Council for Independent Research | Technology and Production Sciences

Areas of study

1. Process design, modeling, and unit operation aspects
2. Separation processes: packed bed filtration, press filtration, membrane ultra-filtration, and distillation
3. Reaction kinetics modeling and reactor design: enzymes in PBRs and CSTRs, catalysts recovery and downstream processing
4. Characterization of particulate catalysts and adsorbents
5. Injectivity decline and well stimulation: formation damage and acid treatment
6. Low salinity waterflooding and fines migration
7. Logging data processing and interpretation
8. Uncertainty and sensitivity analysis
9. Risk assessment of industrial processes
10. Cost evaluation and economic analysis of industrial projects
11. Prediction of injectivity decline of injection wells

Main achievements

- a) Published 6 SCI indexed journal papers in chemical and petroleum engineering
- b) Published 2 book chapters on filtration processes
- c) Main developer of the simulator predicting injectivity for DONG Energy E&P

Employment history

1. Assistant researcher (full time), Risø National Laboratory, Denmark, Jun.~Sept. 2009
2. PhD student (full time), DTU, Oct. 2009 ~ Sept. 2012
3. Assistant teacher (part time), DTU, Denmark, 2010~2012
4. Simulation assistant (full time), DONG Energy E&P and DTU, Apr.~Jul.2011
5. Assistant at DTU International Affairs Office, Oct. 2011

Training and Internships

1. MAERSK Contractors, 2008: FPSO technology
2. SHELL Denmark, 2008: Case study on petrol-investment
3. Schlumberger, 2009: Petrel reservoir simulation
4. Univ. Adelaide in Australia, Mar. ~Sept. 2012: filtration process

Computer skills

FORTRAN, COMSOL and MATLAB: over 5 years of experience
PRO II: 2 years of experience; AutoCAD: 2 years of experience

Language skills

- 1) Chinese (mandatory, mother tongue);
- 2) English(over 5 years of working language);
- 3) Japanese (basic oral communications);
- 4) German (1 year of learning experience);
- 5) Danish (Rudimentary);

Professional activities:

1. Member of Society of Petroleum Engineers (SPE), Copenhagen Section, 2007~now. Board member of student section for 4 years, Secretary of student section for 2 years.
2. Reviewer of Chemical Engineering Journal, 2010~2012
3. Two oral presentations at BIT's 2nd Well stimulation and EOR conference, May 2011
4. Speaker at CERE annual meeting, Copenhagen, Jun. 2011
5. Invited speaker at SPE monthly meeting in Copenhagen, Oct. 2011
6. University representative of DTU, promoting DTU in International Education Exposition , visiting partner schools, Oct. 2011

References

Associate Prof. Alexander Shapiro

Supervisor during MSc and PhD study, B229, Room 252, DTU, DK-2800, Kgs. Lyngby, +45 4525 2881, ash@kt.dtu.dk

Prof. Erling H. Stenby

Supervisor during MSc and PhD study, Director of Center for Energy Resources Engineering, Head of Department of Chemistry, B206, Room 222, DTU, DK-2800, Kgs. Lyngby, +45 45 25 20 12, ehst@kemi.dtu.dk

Prof. Pavel Bedrikovetsky

Main supervisor during training in Australian school of Petroleum. Head of Petroleum, Building Santos Petroleum Engineering, North Terrace, Adelaide, Australia, +61 8 8303 3082, pavel@asp.adelaide.edu.au