

MOHD FARID ISMAIL

OFFICE:

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EDUCATION

University of Oklahoma, Norman, OK (USA) Ph.D. in Chemistry	2013
University of Oklahoma, Norman, OK M.Sc. in Chemistry	2011
University of Oklahoma, Norman, OK B.Sc. in Chemistry	2007
Oklahoma City University, Oklahoma City, OK B.Sc. in Computer Science	2002

PROFESSIONAL EXPERIENCE

I. TEACHING

Universiti Putra Malaysia, Serdang, Selangor
Department of Chemistry

Senior Lecturer (May 2015 – current)

1. CHM3701 – Computational Chemistry (September 2017)
 2. CHM3203 – Organic Chemistry 3 (September 2015, February 2016, September 2016)
 3. CHM3201 – Organic Chemistry 1 (February 2016)
 4. CHM3102 – Polymer Chemistry (September 2015)
 5. CHM3701 – Computational Chemistry (September 2015, September 2016, January 2016, January 2017)
 6. Coordinator, “Baktisiswa” Course (2016 – 2018)
- Tasks include planning of course content according to course/program outcome, prepare lecture contents, giving

lectures, prepare assessments (quiz, exercise, student centered learning, and exam), monitor and evaluate assessments, and generate reports of student performances.

- Oversee laboratory courses (Computational Chemistry; Organic Chemistry 1).
- Oversee Final Year Student projects.

University of Oklahoma, Norman, OK

Graduate Teaching Assistant (August 2007 – December 2013)

- Instructed a variety of undergraduate chemistry laboratories: General Chemistry (freshman level), Organic Chemistry (sophomore), Physical Chemistry (junior), and Advanced Synthesis and Characterization (senior).
- Experienced as the Head Teaching Assistant: Oversaw other teaching assistants, chaired TA meetings.
- Experienced in developing experiments, modifying syllabus, modifying lab manuals, performing evaluation, and writing/grading final exams.
- Experienced in coordinating different chemistry facilities for teaching purposes: coordinate the NMR facility, the supply room, and the library to work with the laboratories.

II. RESEARCH

Universiti Putra Malaysia,
Serdang, Selangor

Senior Lecturer

May 2015 – current

Universiti Teknologi PETRONAS,
Bandar Seri Iskandar, Perak

Postdoctoral Researcher

April 2015

Advisor: Associate Professor Dr. Cecilia Wilfred

December 2014 –

University of Oklahoma,
Norman, OK

Graduate Research Assistant

December 2013

Advisor: Professor Daniel Glatzhofer

August 2007 –

University of Oklahoma,
Norman, OK

Undergraduate Research Assistant**2006**

Advisor: Professor Daniel Glatzhofer

Research Interests

- Theoretical investigation of rheological properties to molecular structure relationship in polymers.
- Theoretical investigation of intermolecular forces in liquids including organic solvents, ionic liquids, and oligomers.
- Experimental investigation of the ring opening synthesis of polymers.

III. STUDENT MENTORING/ADVISING*Graduate*

1. Ivy Jocelyn Joannes
2. Abdalla Shaho Mohammed Abdalla

*Undergraduate*FYP

1. Siti Nornizana bt Zulkifli
2. Debbre Victor
3. Krishna Kumaary Kannan
4. Nur Ain bt Ismail
5. Fara Adelina bt Mohd Roslan
6. Nurazlin bt Zainuddin
7. Balqis Raihan Bakaruddin

Undergraduate Mentee

1. Judith Sharon Masanil
2. Ky Law
3. Ku Aida Suziana bt Ku Jamaluddin
4. Mariam Jamela bt Ahmad Nasir
5. Mohamad Shafiq b Mohd Sukri

IV. OTHERS

1. 2016: Chair, Lab Safety Courses 2016 Organizing Committee (UPM)
2. 2016: Technical Committee, 19th Industrial Chemistry Seminar (UPM) Organizing Committee
3. 2016: Safety Committee Member at the Department of Chemistry (UPM)
4. 2015: Publicity Committee, Fundamental Science Congress (FSC) 2015 Organizing Committee
5. 2015: Awards Committee, Department of Chemistry (UPM)

6. 2015: Examiner, graduate progress seminar (UPM)
7. 2015: Examiner, graduate proposal seminar (UPM)
8. 2015: Examiner, Final Year Project seminar (UPM)
9. 2015: Examiner, Final Year Project proposal seminar (UPM)

V. HONORS

1. 2016: Invited as reviewer for Malaysian Journal of Analytical Sciences
2. 2016: Invited as the examiner in Masters to Ph.D. conversion oral exam at UPM
3. 2016: Fundamental Research Grant Scheme (FRGS) Grant (RM79,000)
4. 2015: Inisiatif Putra Malaysia (IPM) Grant (RM50,000)

BIBLIOGRAPHY

I. PUBLICATION AND PAPERS

1. Mohd Farid Ismail, M. Petrowsky; "The Relationship between Lithium Ion Conductivity and Molecular Structure of Liquid Electrolytes". *Physical Chemistry Letters*, in preparation
2. Mohd Farid Ismail; Cecilia Wilfred; "Molecular Dynamics Simulation of Imidazolium-based Ionic Liquids: Effect of Alkyl Side Chain on Sulfur Extraction from Model Oil". *Journal of Molecular Liquids*, in preparation.
3. Syed Nasir Shah; Mohd Farid Ismail; Kallidanthiyil Chellapan Lethesh; M. I. Ibrahim Abdul Mutalib; Rashidah Binti Mohd Pilus; "DBU-based Ionic Liquids for the Extraction and Recovery of Naphthenic Acid from Highly Acidic Oil". *Fuel*, 2016, 181, 579-586.
4. Syed Nasir Shah; M. I. Abdul Mutalib; M. Farid Ismail; Humbul Suleman; Kallidanthiyil Chellapan Lethesh; Rashidah Binti Mohd Pilus; "Thermodynamic Modelling of Liquid-liquid Extraction of Naphthenic Acid from Dodecane Using Imidazolium Based Phenolate Ionic Liquids". *Journal of Molecular Liquids*, 2016, **219**, 513-525.
5. Petrowsky, M; Ismail, M.; Glatzhofer, D. T.; Frech, R.; "Mass and Charge Transport in Cyclic Carbonates: Implications for Improved Lithium Ion Battery Electrolytes". *The Journal of Physical Chemistry B*, 2013, **117**, 5963-5970.
6. Petrowsky, A.; Fleshman, A.; Ismail, M.; Glatzhofer, D. T.; Bopege, D. N.; Frech, R.; "Molecular and System Parameters Governing Mass and Charge Transport in Polar Liquids and Electrolytes". *The Journal of Physical Chemistry B*, 2012, **116**, 10098-10105.

II. CONFERENCE PRESENTATION

1. Fundamental Science Congress 2015

LANGUAGE

1. Malay – native language
2. English – speak, read, and write fluently

PROFESSIONAL SOCIETY

1. American Chemical Society
2. Society of Plastic Engineers (2010-2011)

AWARDS

1. December 2005 - Dean's Honor Roll (University of Oklahoma)
2. August 2002 - Graduated Cum-Laude (Oklahoma City University)
3. May 2002 - Vice-president's Honor Roll (Oklahoma City University)
4. December 2001 - Dean's Honor Roll (Oklahoma City University)
5. May 2001 - President's Honor Roll (Oklahoma City University)