

Patience Babatunde, Ph.D.

EDUCATION

- Ph.D., Chemical Engineering, Kyushu University, Fukuoka, Japan. September 2012.
Thesis : Study on the effect of Binary solvents on configuration of polymer thin films
- M.Sc., Chemical Engineering, Obafemi Awolowo University, December 2008.
Ile-Ife, Nigeria.
Thesis : Fault detection and analysis in chemical process plants using statistical process control monitoring methods
- B.Sc., Chemical Engineering, Obafemi Awolowo University, May 2000.
Thesis: Study of rheological properties of crude oil with flow improvers

ACADEMIC SCHOLARSHIP AND AWARD

- The Most Efficient Female graduating Student Award May 2000.
- Carnegie Scholarship** for Female Postgraduate Student Award May 2006
- Japan Gas Company Scholarship (J-GCS) Award** 2010 to 2012

TEACHING EXPERIENCE

Texas Southern University, Houston, TX.

August 2013-To Present

- Adjunct Lecturer Department of Chemistry
- Responsible for teaching course content of General Chemistry I and II for biological science and engineering students.
 - Responsible for teaching laboratory techniques and experiments on water chemistry quality management for Engineering Students.
 - Developed the curriculum for teaching Physical Chemistry for upper division Chemistry majors.
 - Maintaining office hours to students to meet their academic needs.
 - Highly rated by student and being efficient and motivating.

Houston Community College, Houston, TX.

August 2014-To Present

- Adjunct Lecturer Department of Chemistry
- Responsible for teaching course content and Lab of Organic Chemistry I and II for pre-pharm and pre-med students.
 - Responsible for teaching course content and Lab of General chemistry I and II for biological science and engineering students.

- Available to students at specified time to meet their academic needs
- Highly rated by student as best chemistry teacher ever.

Afe Babalola University Ado Ekiti (ABUAD), Nigeria.

Dec 2012 – April 2013.

Lecturer I Department of Chemical Engineering

- Lectures for Undergraduate Student in following classes:
- Polymer Chemistry.
- Chemical Reaction Engineering.
- Physical Chemistry for Biological Sciences.
- Separation Processes.

Other Duties:

- Monitoring and supervising other departmental activities.
- Development of curriculum for accreditation.

RESEARCH EXPERIENCE

Kyushu University, Japan.

July 2010 – March 2012.

Graduate Research Assistant Department of Chemical Engineering

- Supervision of Undergraduate Students' Laboratory research.
- Presentation of research results at international conferences.
- Involved in short term internship training on Carbon Capture and Sequestration plant at Japan Power Plant, Yokohama, Tokyo

Northeastern University, Boston, MA. USA.

July – August 2011.

Visiting Researcher: Department of Material Engineering

- Involved in the research to determine the feasibility of commercial production of alloy sphere using multiple orifice droplet spraying.
- Assisted in the workshop in the modification of welded nut in the crucible.
- Assisted in preparing polished samples of metal to be melted and sample analysis.

Center of Excellence, Kyushu University, Japan.

May 2009 - June 2010.

Super Research Assistant

- Responsible for the analysis and measurement of internal flow and determination of flow velocity in polymer solutions using Image Pro Plus software.
- Responsible for data analysis and measurement of film profiles using Atomic force Microscopy (AFM).

- Actively involved in scientific forums and meetings on how to preserve the world environment centering on Asia

Engineering and Material Development Institute, Nigeria.

Feb 2002-Dec 2002,

Research and Development Officer

- Assisted the project manager in the improvement of fuel consumption rate of rotary furnace.

Kemeng Services Limited

Sept 2000 – Jan 2002

Assistant Field Engineer

- Assisted the Field Engineers with the installation of waste and water treatment plants and supervision of students on internship.

Publications and Presentations

a. *Journal articles*

1. Yasumatsu Shoei, Hirotaka Ischizuka, Koiichi Nakaso, Patience Oluwatosin Babatunde and Jun Fukai “Self Organization of Polymer films using mixed solvents on Chemically patterned surface” *Journal of Chemical Engineering Japan*, Vol. 45(4), 265-271 (2012).
2. Babatunde Patience Oluwatosin, Narumi Nanri, Kenji Onitsuka, Koichi Nakaso and Jun Fukai “Factors Dominating Polymer Film Morphology Formed From Droplets Using Mixed Solvents” *Journal of Chemical Engineering of Japan*, Vol.45, (8), 622-629 (2012)
3. Babatunde Patience Oluwatosin, Wang Jing Hong, Narumi Nanri, Kenji Onitsuka, Koichi Nakaso and Jun Fukai “Effect of Solute- and Solvent-Derived Marangoni Flows on the Shape of Polymer Films Formed From Droplets” *AICHE Journal*, Vol. 59 No. 3, pp.699-702, 2013.3 ,2013.03.

b. *Peer reviewed Proceedings*

4. Babatunde P.O and Taiwo O. “Fault Analysis using multivariate statistical techniques to in chemical process plants”. *Proceedings of the First Faculty of Technology National Conference (RETRAV) Obafemi Awolowo University, Ile – Ife. July 26-30 2009.*
5. Babatunde P.O, Koiichi Nakaso and Jun Fukai, “Formation of Thin Polymer Films from Droplets on Cylindrically Patterned Surfaces: Effect of Binary Solvents on Film Configuration”. *Proceedings of the Third International Symposium on Novel Carbon Resource Sciences. Fukuoka, Japan. November 2 – 3, 2009.*
6. Babatunde P.O, Koiichi Nakaso and Jun Fukai “Control of thin Film Configuration on Heterogeneous Surfaces using Inkjet Method”. *Proceedings of the 7th National Doctor Student Seminar in Kyushu University. Japan. August 20, 2010.*
7. Babatunde Patience.O, Koiichi Nakaso and Jun Fukai formation of thin polymer film from droplet on circular patterned surfaces: effect of surface tension and viscosity on film configuration. *Proceedings of the Sixth International Symposium on Novel Carbon Resource Sciences. Aiming towards low-carbon Society. Fukuoka, Japan. November 12 – 13, 2010.*

Conferences Attended with Dates and / or Papers Presented

1. First Faculty of Technology National Conference (RETRAV), Obafemi Awolowo University, Ile – Ife. July 26-30 2009. Paper read: “ Fault Analysis using multivariate statistical techniques to in chemical process plants”
2. Third International Symposium on Novel Carbon Resource Sciences. Fukuoka, Japan. November 2 – 3, 2009. Paper read: “Formation of Thin Polymer Films from Droplets on Cylindrically Patterned Surfaces: Effect of Binary Solvents on Film Configuration”
3. 7th National Doctor Student Seminar in Kyushu University. Japan. August 20, 2010. Paper read: “Control of thin Film Configuration on Heterogeneous Surfaces using Inkjet Method”
4. Sixth International Symposium on Novel Carbon Resource Sciences. Aiming towards low-carbon Society. Fukuoka, Japan. November 12 – 13, 2010. Paper read ”formation of thin polymer film from droplet on circular patterned surfaces: effect of surface tension and viscosity on film configuration”
5. The Nigeria material Congress on Materials and Manufacturing Technologies in Sustainable Development. National Center for Technology, O.A.U, Ile-Ife, Nigeria. November 20 – 24. 2012. Paper read “Inkjet method of polymer thin film formation from binary solvents using patterned surface: Effect of solute concentration and solvent mixing ratio on film morphology”

Computer Skills

MATLAB, Microsoft Office, Image-Pro Plus, AFM Analysis.

Hobbies.

Cooking, dancing and listening to music.

Referees

1. Dr. S. Turay
Department Chemistry,
Texas Southern University, Houston, Texas.
Email: turays@tsu.edu
Telephone: +1 281-250-1305
2. Omolola Jewesimi
24426 Silverton valley Ln
Katy TX 77494
Email: omololajewesimi@yahoo.com
Telephone: +1 832-748-5799
3. Dr. Obot Ekwere
Department Chemistry,
Texas Southern University, Houston, Texas.
Email: ekweroj@tsu.edu
Telephone: +1 832-896-1247
4. Professor D. Olowokere
Department of Engineering Technology,
Texas Southern University, Houston, Texas.

Email: olowokeredo@tsu.edu
Telephone: +1 832-554-7758