

# Babatunde Patience Oluwatosin

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## Professional summary

- An experienced researcher with more than 10 years in the research and Development Institute. Actively involved in development and utilization of material device for lower energy consumption.
- Effective communicator and quick learner with excellent planning, organizational strength as well as ability to establish results.
- Fluent in English both verbally and in print with international journal articles and articles in international conference proceedings.

## Career Objectives

- I have found that working with students has been a very rewarding part of my academic career. I highly value teaching because I believe that teaching stimulates, challenges, and completes a scholar.
- "If you would thoroughly know anything, teach it to others" - Tryon Edward (1809 – 1894). I strongly believe that knowledge should be passed on

## Work History

### Texas Southern University, Houston, TX.

August 2013-To Present

Adjunct Professor

Lectures for Undergraduate Student in following classes:

- Physical Chemistry for Biological Sciences
- Physical Chemistry for Engineering

Adjunct Faculty

- Assisting in development of Proposal for Energy Study at TSU

### Afe Babalola University Ado Ekiti (ABUAD), Nigeria.

Dec 2012 – April 2013.

Lecturer I

Lectures for Undergraduate Student in following classes:

- Polymer Engineering
- Chemical Reaction engineering
- Physical Chemistry for Biological Sciences
- Separation Processes

Other Duties:

- Monitoring the departmental activities
- Development of curriculum for accreditation

### Kyushu University, Japan.

July 2010 – March 2012.

Graduate Research Assistant

- 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

- 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.

### **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 (6 months Internship) Sept 1999 – March 2000**

#### Assistant Field Engineer

- Assisted the Field Engineers with the installation of waste and water treatment plants

## **Education**

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

## **Accomplishment**

- Performed small scale testing on blending mixture of different flow improvers that will improve crude oil flow properties using crude oil samples from Chevron Nigeria Limited.
- Production of uniform thin film on a heterogeneous surface from high molecular weight polymer solution using environmentally friendly production method.

## **Academic Scholarship and Award**

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

## **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. Professor Jun Fukai  
Department of Chemical and Systems Engineering,  
Kyushu University, Fukuoka,  
Japan.

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4. Professor A. B. Rabi  
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