

Bi Yun ZHEN WU

(Biyun ZHEN WU)



Personal information

Nationality: Costa Rica
Place of birth: Guangdong, China

Work experiences

- 2012 to Present **Ph.D. Student**, Nano-GeoScience Group, Nano-Science Center, Department of Chemistry, University of Copenhagen, Denmark
- 2005-2012 **Laboratory Chief**, head of a team of 14 technicians, at the Laboratory of Geochemistry, Miravalles geothermal field, Instituto Costarricense de Electricidad (ICE)
- 2005 **Teaching Assistant**, Laboratory of Analytical Chemistry, Universidad de Costa Rica (UCR)
- Teaching Assistant**, Laboratory of Organic Chemistry, UCR
- 2004 **Laboratory Assistant**, Natural Products Investigation Center (CIPRONA), UCR
- 2002-2003 **Laboratory Assistant**, Electrochemistry and Chemistry Energy Center (CELEQ), UCR

Educations and honours

- 2006-2009 **Magister Scientiae (M.Sc.) in Management of Natural Resources** major in Environmental Management, graduated with honours. Universidad Estatal a Distancia de Costa Rica (UNED).
Thesis: Drinking Water Quality of the Victoria River Basin, Curunbandé, Guanacaste, Costa Rica, hydrology year 2007-2008.
- 2004-2005 **Licenciante Degree in Chemistry**, graduated with honours, Department of Chemistry, UCR
Thesis: Synthesis of 2-hydroxy-3-substituted naphthoquinones using the Heck reaction.
- 2000-2004 **Bachelor of Science in Chemistry (B.Sc.)**, UCR
Student with highest grade average, Chemistry Department UCR, 2000.

Publications and presentations

Zhen-Wu, B.Y. **2011**. Cogestión del recurso hídrico en la microcuenca de la quebrada Victoria, Guanacaste, Costa Rica. Presented on *Simposio de Ecología Urbana*, San José, Costa Rica.

Zhen-Wu, B.Y. **2010**. Gas geochemistry of the Miravalles, Pailas and Borinquen geothermal areas of Costa Rica and a comparison with Reykjanes and Theistreykir geothermal fields of Iceland. Report 33 in: *Geothermal Training Programme 2010*, 731-766.

Zhen-Wu, B.Y. **2010**. Índices de Calidad del agua en la microcuenca de la quebrada Victoria, Guanacaste, Costa Rica (2007-2008). *Cuadernos de Investigación UNED* 2(1): 45-61.

Zhen-Wu, B.Y. **2010**. Water Quality of the Victoria River Basin in the Pailas Geothermal Field, Guanacaste, Costa Rica (2007-2008). *Proceedings World Geothermal Congress 2010*, Bali, Indonesia, 25-29 April, 7 p.

Zhen-Wu, B.Y., Valverde-Morales, C.G., Valiente-Álvarez, C., Jiménez-Otárola, F. **2009**. Evaluación de la Calidad del agua como base para la formulación del plan de cogestión del recurso hídrico en la microcuenca de la quebrada Victoria, Costa Rica. *Recursos Naturales y Ambiente*, 56-57: 134-142.

Zhen-Wu, B.Y. **2009**. Physico-chemical and Bacteriologic Water Quality of the Victoria Basin, Curubandé, Guanacaste, Costa Rica. Presented on *8th Latin America Analytical Chemistry and Health Symposium*, San José, Costa Rica.

Perez, A.L.; Lamoureux, G.; Zhen-Wu, B.Y. **2007** Synthesis of 2-hydroxy-3-substituted naphthoquinones using the Heck reaction. *Tetrahedron Letters* 48: 3995-3998.

Quirós, M.; Z.-Wu, B. **2005**. Development and Validation of an Adsorptive method for Aluminum Determination in Fluids used in Renal Dialysis. *Portugaliae Electrochimica Acta* 23: 165-178.

Courses

- 2014 **Understanding Inorganic scaling, mechanisms, control and management**. SPE International Oilfield Scale Training Course, Aberdeen, U.K.
- 2013 **Crunch Flow Reactive Transport Workshop**. Goldschmidt Conference, Florence, Italy.
- 2010 **Geothermal Training Programme at the United Nations University (UNU-GTP)** Organized by UNU-GTP, Reykjavík, Iceland. Specialized in Chemistry of Thermal Fluids
- 2009 **Surface Exploration for Geothermal Resources Course**. Organized by UNU-GTP and LaGeo, San Salvador, El Salvador

Skills

Programs: Acrview, Grapher, Corel, Aquachem, MatLab, SUPCRT92, WATCH2.4, PHREEQC
Languages: Spanish as native language
English
Spoken Cantonese and Mandarin