

BEATRIZ ADRIANA ROCHA GUTIÉRREZ

rochafcq@gmail.com

October, 2016

POSITIONS

Full Time Professor, 2013-Present
Chemistry Department
Autonomous University of Chihuahua
Chihuahua, México

EDUCATION

PhD

Aug 2010

University of Texas at El Paso (UTEP), Environmental Science and Engineering

Dissertation: “Study of PBDEs in wastewater, water and sludge of El Paso del Norte border region using SBSE TD/GC-MS”

Committee: Wen-Yee Lee, Ph.D., (Chair), Shane Walker, Ph.D., Arturo Woocay Ph.D., Jorge Gardea-Torresdey Ph.D., Irasema Coronado Ph.D. , Douglas D. Rittmann. Ph.D.

MS

July 2005

University of Texas at El Paso (UTEP), Master in Science (Chemistry)

Thesis: “Method development for Pesticides Analysis in breast milk using Stir Bar Sorptive Extraction followed by TD/GC/MS”

Advisor: Wen-Yee Lee

BS

July 2003

Autonomous University of Chihuahua (UACH), Environmental Chemical Engineer.

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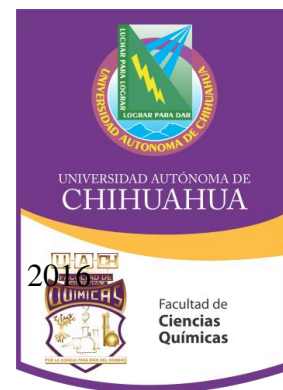


HONORS AND AWARDS

CONACYT. 4t. Youth Research Science Congress.

2016

Research undergraduate student awarded as the best oral presentation in the area of Chemistry and Biology.



SACNAS

2008

Brief Outstanding presentation at the Research Expo.

RESEARCH EXPERIENCE

Autonomous University of Chihuahua (UACH) /Grupo Bafar, Chihuahua

2015

Position, PI

- Electrolytic process for the production of disinfectants used in the meat industry from brackish water. Grupo Bafar/Project Proinnova

Autonomous University of Chihuahua (UACH)/Faculty of Chemistry, Chihuahua

Position, PI

2014

- New analytic techniques for the instrumental analysis and degradation for a group of emergent pollutants in wastewater/Internal research Project.

TEACHING EXPERIENCE

Autonomous University of Chihuahua (UACH), Chihuahua

Aug 2013-Present

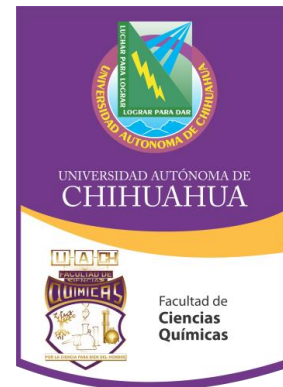
Research Professor, Chemistry Department

- **Wastewater treatment** (Master in Biotechnology)
- **Physical chemistry I** (Undergraduate)
- **Sanitary engineering** (Undergraduate)
- **Environmental Impact Assessment** (Undergraduate)
- **Separation Techniques**(Undergraduate)

Doctoral Students Advised (External Co-Adviser)

- M.C. Enrique Valdez Cerda, “Evaluation of the presence and accumulation of polybrominated diphenyl ethers in sediments of two rivers of Nuevo Leon”.

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Masters Students Advised

- Esmeralda Blanco Enríquez, “Evaluation of the removal of Polycyclic Aromatic Hydrocarbons (PAHs) by microorganisms”.

(External Co-Director)

- Milton Carlos Hermosillo Muñoz, “Traceability of As in agricultural water irrigation in the north of Chihuahua”.

Bachelor Students Advised

- Victoria Reyes Fierro, “Detection of persistent organic pollutants in wastewater”.
- Brenda Mejía Ortiz “Analytical techniques for the analysis of emerging pollutants in water”.
- Iris Josefina Alvarado Venegas, Gael Armando Villalobos Pizaña. “Analysis of water quality from a biodigester treated with granular media filters”.
- Carmen del Rocio Caraveo Castro, “Quality assessment of water supply purification systems in rural communities”.

SELECTED PUBLICATIONS

Books

Zavala-Díaz de la Serna, F.J., Rocha-Gutiérrez, B.A., Peralta-Pérez, M.R., Selected Topics of Biochemistry, Chihuahua, AMAZON, ISBN 13:9781507637111, 2015.

Zavala-Díaz de la Serna, F.J., Rocha-Gutiérrez, B.A., Peralta-Pérez, M.R., Use of the computational tools of the century XXI in the study of the biochemistry (Chapter). Selected Topics of Biochemistry, Chihuahua, AMAZON, Vol. 1, Pags. 131, 2015.

Journal Publications

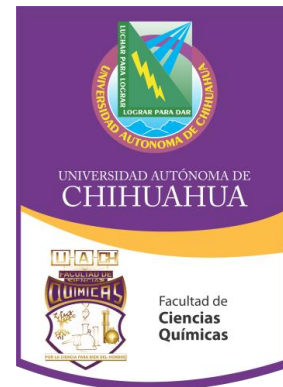
Rocha-Gutiérrez, B.A., Lee W.Y., & Walker, S., “Mass balance and mass loading of Polybrominated Diphenyl Ethers (PBDEs) in a tertiary wastewater treatment plant using SBSE-TD-GC/MS.IWA,” Water Science and Technology, 73(2), 2016, pp. 302-308.

Rocha-Gutiérrez, B.A., Peralta-Pérez, M.R., y Zavala-Díaz de la Serna, F.J., “Revisión global del problema de los contaminantes emergentes PBDEs en México,

un caso en particular,” Revista Internacional de Contaminación Ambiental, 3(31), 2015, pp. 311-320.

Rocha-Gutiérrez, B.A., & Lee, W.Y., “Investigation of Polybrominated Diphenyl Ethers in Wastewater Treatment Plants Along the US and Mexico Border: a Trans-boundary Study,” Water, Air & Soil Pollution, 224(1), 2013, pp.1-13.

Rocha-Gutiérrez, B.A., & Lee, W.Y., “Determination and comparison of polybrominated diphenyl ethers in primary, secondary, and tertiary wastewater treatment plants,” International Journal of Environmental Analytical Chemistry, 92(13), 2012. pp. 1518-1531.



PRESENTATIONS AND INVITED LECTURES

Thirteenth International Symposium on Recent Advances in Environmental Health Research, “Method Development for the Analysis of a Group of Emergent Pollutants (PBDES) in Sewage Sludge Using (HSSPME-GC-MS)”, September 2016, Jackson, Mississippi.

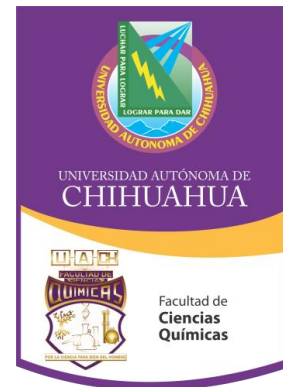
Symposium of Water Pollution “Invited speaker: Emergent Pollutants in wastewater: Global presence and risk assessment”, April 2016, Chihuahua, Chih, MX.

5to. International Conference of Chemistry, Biology and Agronomy, “Method development for the analysis of a group of emergent pollutants (PBDEs) in sewage sludge using (HSSPME-GC-MS)”, September 2015, Autonomous University of Guadalajara.

IWA 4th Yong Water Professionals Conference, “Mass balance and mass loading of Polybrominated Diphenyl Ethers (PBDEs) in a tertiary wastewater treatment plant using SBSE-TD-GC/MS”, February 2015, Guanajuato.

Invited speaker, “Persistent Organic Pollutants in wastewater”, 2012, Centro de Innovación Avanzada en Tecnologías Competitivas (CIATEC).

COURI symposium, “Method Development for the Analysis of DDT, DDD, and DDE in Cow Milk”, 2011, El Paso, TX.



PROFESSIONAL TRAINING

Graduate Seminar in Environmental Research.

Toluca Tech, Toluca, MX, July 2016

Course: Emergent Pollutants in wastewater: Global presence and risk assessment.

XL Week of the Chemistry

Department of Chemistry UACH, Chihuahua, October 2015

Course: Alternative treatments for cleaning contaminated sites.

Seminar of Environmental Sciences

Autonomous University of Querétaro, Chemistry Department, Querétaro, 2012

“Persistent Organic Pollutants in wastewater: regulations and risk”.

LANGUAGES

Spanish: Native Language

English: Exam Toefl (550)

AVAILABLE THESIS PROJECTS

For master in biotechnology

- Simultaneous determination of inorganic ionic species by ion chromatography for monitoring of wastewater used in agricultural irrigation.
- Monitoring of veterinary pharmaceuticals commonly used in cattle feeding practices in a biodigester.

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