



**Name:** Laura Bertha Reyes Sánchez.

**Title:** Professor of Chemistry, Physical chemistry and Soil Science.

**INTITUTIONAL ADDRESS:** Av. Primero de mayo S/N C. P. 54740 Campo 1 Cuautitlán Izcalli, Edo. Méx.

**MAILDROP:** Miramar 54 Cumbria, C. P. 54740 Cuautitlán Izcalli, México. e-mail: lbrs@unam.mx, Date of birth: 13<sup>th</sup> April, 1950.

#### **RESEARCH INTERESTS and ACCOMPLISHMENTS:**

**Chemistry, soils and education:** Chemical study of soil for the use of soil clays as catalysts in green chemistry, as a way to carry out clean chemical processes. Education, teaching and educational research of Soil Science and training of teachers and researchers in green chemistry.

#### **EDUCATION, ACADEMIC ADVISORS and Positions held:**

**Bachelor's degree:** 1974 National and Autonomous University of Mexico: UNAM. (Chemist).

**Master of Science:** 2003 University of the Valley of Mexico. (Education sciences).

**Ph. D.:** 2009 National University of Costa Rica and Technological Institute of Costa Rica.

**1972- 1974:** Chemical analyst at soil laboratory in the National Institute of Statistics, Geography and Information Technology: INEGI (its acronym in Spanish).

**1975-1976:** Assistant professor of physical chemistry and chemistry at the National and Autonomous University of Mexico: UNAM.

**1976-1977:** Chemistry and physical chemistry professor for chemical and agricultural engineers at the UNAM.

**Since 1978:** Chair of Chemistry and Physical Chemistry professor at the National and Autonomous University of Mexico: UNAM. **Both positions obtained by contest.**

**1979-1982:** Chemistry professor for agronomist at the Autonomous University of Chapingo (México). **Position obtained by contest.**

**Since 1980:** Soil Science professor at the National and Autonomous University of Mexico: UNAM.

**Since 1984:** Chair of Soil Science at the Agricultural Engineering Department of the FES-Cuautitlán UNAM. **Position obtained by contest.** Promotion in 1986.

**Since 1996:** Full time professor; Chair of General Chemistry (Physicochemical analysis of agricultural soils, and plant species), at Chemistry Department of FES-Cuautitlán of the National Autonomous University of Mexico.

**Position obtained by contest.** Definitively: 1999 and Promotions: 1997 and 2004.

#### **AWARDS and FELLOWHIPS:**

University Merit granted by the National Autonomous University of Mexico: UNAM. 2000.

Summa Cum Laude Master Science: GPA 100 (in scale of 100). 2003.

Diploma of Excellence awarded by Sylvan International Universities, 2004.

Magna Cum Laude Ph. D. degree. 2009.

Diploma of Excellence granted by the Technological Institute of Costa Rica, 2009.

Appointment as Distinguished Visitor of the Old City of Guatemala, 2011. (As tutor of the Doctorate courses in Natural Resources for Development at the San Carlos University of Guatemala).

Latin American Award of Soil Science, 2014.

#### **RESEARCH COLLABORATIONS AND INSTITUTIONS**

**TEACHERS TRAINING:** 1994, 1995, 1996, 1997, 1998, 1999, 2006, 2011, 2014, 2015, 2016: Soil chemistry and Green chemistry, UNAM.

1996, 1997, 1998, 2002, 2006, 2007, 2008, 2009, 2012: Soil chemistry, Academies of Chemical Education of Mexico and/or Argentina.

1997, 1999, 2000, 2001, 2003, 2004: Soil chemistry, Autonomous University of Chapingo, México.

1980: Agricultural chemistry, Autonomous University of Baja California south.

2000, 2001, 2002: Soil chemistry, Catholic University of Valparaíso, Chile.

2003, 2004, 2005, 2006, 2007: Soil chemistry and Green chemistry, University of La Frontera, Chile.

2003: Soil chemistry, National Technological University of Argentina.

2006: Soil science, for Argentinean Association of Soil Science.

2008: Workshop for indigenous groups (Soil management concepts). Mexican Soil Science Society.

2011, 2012, 2014, 2015: Soils and green chemistry, at National University of Costa Rica.  
 2013, 2014, 2015: Soils and green chemistry, Technological Institute of Costa Rica.  
 2013, 2012, 2106: Soil Science and green chemistry, at Autonomous Metropolitan University. México.  
 2014: Soil Science, for the Brazilian Society of Soil Science.  
 2017: Green chemistry, University of Santiago of Cali, Colombia.  
 Since 1998: Soil science training courses for teachers (basic and secondary education). México, Chile, Ecuador.

RESEARCHERS TRAINING: 2003: Master's level course in Soil science, University of Concepción, Chile.  
 2004, 2006: Soil chemistry, Center for Research and Development in Sustainable Agriculture for the Humid Tropics of Costa Rica.  
 2010, 2011, 2012: Soil Science and environmental culture, Natural Resources for Development Ph. D. degree of the Technological Institute of Costa Rica. Ph. D. degree  
 2012: Soil Science and green chemistry, at Technological University of Ecuador.  
 2014, 2015: Researchers training (Green chemistry), Autonomous University of San Luis Potosí.

#### **MAJOR PROFESSIONAL ACTIVITIES:**

Since 1984: Chair of Soil Science at the Agricultural Engineering Department of the FES-Cuautitlán UNAM.

##### **Position won by opposition contest.**

Since 1996: Full time professor at the National Autonomous University of Mexico: Chair of General Chemistry (Physicochemical analysis of agricultural soils, and plant species), at Chemistry Department of FES-Cuautitlán.

##### **Position won by opposition contest.**

President of the Latin American Network of Environmental Chemistry: RELACIAM (its acronym in Spanish). 2001-2003.

Spokesperson in education and teaching of soil science of the Mexican Soil Science Society. 2003-2004

Since 2004: Chair of the "Latin American Network for Soil Science Teaching and Learning<sup>®</sup>", RELAECS (its acronym in Spanish).

Treasurer of the Mexican Soil Science Society. 2007-2009.

Secretary of Educational Innovations of the Mexican Soil Science Society. 2010-2011.

Since 2005: General Secretary of the Latin American Soil Science Society: SLCS (its acronym in Spanish).

Since 2006: General Secretary of the Latin American Network of Environmental Chemistry: RELACIAM (its acronym in Spanish).

Since 2008: Member of the Technical Council of the Mexican Committee for the Accreditation of Agricultural Education: COMEEA (its acronym in Spanish).

Since 2015: Chair of Pillar 2 of the Regional Alliance for Central America, Mexico and The Caribbean. of the Global Soil Partnership. FAO.

Since 2015: Member of the "Working Group Pillar 2: Encourage investment, technical cooperation, policy, education, awareness and extension in soil", of the Global Soil Partnership. FAO.

#### **TEACHING AND RESEARCH SUPERVISION OF STUDENTS:**

G. Galindo 1980, M. Moctezuma 1987, J. Santos 1988, R. Quintana 1990, J. Becerril 1994, M. Hernández 1994, E. Lagunas 1995, G. García 1995, E. Alarcón 1996, S. Hernández 1996, L. García 1997, E. Ramírez 1997, I. Lagunas 1998, L. Hidalgo 1998, M. Tellez 1998, J. Hernández 1998, P. González 1999, J. Hernández 2000, J. Bello 2000, L. Magdaleno 2000, R. Cabrera 2000, J. Gascón 2001, H. Meneses 2001, I. García 2002, P. Zárate 2002, P. Medina 2004, A. De Lucas 2004, G. Montes 2004, M. Celis 2006, J. Maciel 2007, A. Flores 2007, J. Dorantes 2008, P. Rojas 2008, J. Montiel 2009, J. Trejo 2009, E. Neri 2009, J. Guerrero 2012, Ph. D. J. Pérez, 2012, Ms. Cs. S. Contreras 2013, P. Martínez 2014, Ph. D. A. Vargas 2017, Ph. D. M. Morales in process.

#### **MEMBERSHIPS:**

Mexican Soil Science Society

Argentinean Soil Science Association

Latin American Soil Science Society

Chemical Society of Mexico

Latin American Society of Chemistry

Latin American Network of Environmental Sciences.