

Pedro Patino

Associate Lecturer and B.S. Program Coordinator

Department of Chemistry
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Education:

D.Phil., Physical Chemistry, Oxford University, United Kingdom, September 1979-March 1983.
B.S., Chemistry, Central University of Venezuela, November 1974. First place in the class.

University of Central Florida Academic Experience:

Coordinator of Undergraduate Program 2016 –
Associate Lecturer 2015 -
Associate Chair 2008 - 2016
Lecturer 2008 - 2015
Instructor 2006 - 2008

Other Academic Experience: Miami Dade College, Florida, Lecturer, 2005-2006.

Central University of Venezuela, UCV, Caracas, Venezuela. Full Professor, 1990-2004

Chairman of the Graduate Program of Chemistry 1998–1999 and 1991–1993

Member of the Chemistry Department Council 1986–1988 and 1998 –2000

Central University of Venezuela, UCV, Caracas, Instructor to Associate Professor 1974–1990

Idaho University, Moscow, Idaho Visiting Researcher 1997-1999

Brunel University, West London, U.K. Visiting Researcher 1995.

Certifications or Professional Registrations: 28 Theses of students supervised, graduate and undergraduate, in spectroscopy and plasma chemistry. 31 Publications in international journals on chemistry, physics, spectroscopy, environmental chemistry, and plasma chemistry.
83 Presentations in congresses and symposia.

Current Membership in Professional Organizations:

Linacre College, Oxford University, United Kingdom
Venezuelan Society of Chemistry.

Honors and Awards:

Excellence in Undergraduate Faculty Academic Advising Award, 2014.

Teaching Incentive Program, TIP, award, UCF, 2012 and 2017.

Earned outstanding evaluation at the Chemistry Department, UCF, 2006-2016.

Received “Jose M. Vargas” First Class Medal as Outstanding Professor, UCV, Caracas, 1997.

Elected Sponsor of the class graduated in chemistry, Central University, Caracas, 2001, 1996, 1995, 1992.

Meritorious Professor; National Council of Universities. Caracas, Venezuela, 1998, 2001, 2004:

Member of the Venezuelan Foundation of Researcher Promotion. Caracas, 1999, 2001, 2004.

Service Activities:

As Associate Chair and Undergraduate Coordinator of the Chemistry Department, University of Central Florida, I have been devoted to many aspects of the undergraduate program, such as advising students, conducting orientations for new and transfer students, program assessment, revision of course substitutions, and course scheduling.

I am currently member of several committees at COS-UCF.

I have been member of the Instructor/Lecturer Promotion Committee in two periods: 2011-2012 and 2012-2013.

I have been member of the TIP Committee in 2013 and 2014.

I have mentored junior faculty members in the chemistry department in teaching methodologies.

I am member of the Curriculum Alignment and Chemistry Curriculum Alignment of UCF and partner colleges in Central Florida, since 2012.

Professional Development Activities:**Publications (total of 33):****Pedagogical:**

Product of my teaching work there are several study guides for students and two booklets;

1) Pedro Patiño, Chemistry Fundamentals IA, Chemistry Fundamentals IA, Kendall-Hunt Publishing Co., Second edition, 2014, ISBN 978-0-4652-5764-2

2) Pedro Patiño, Chemistry Fundamentals IB, Kendall-Hunt Publishing Co., Second edition, 2012. ISBN 978-1-4652-0064-8.

Research:

31.- P. Patiño, Y. Pérez and M. Caetano. Coupling and reforming of methane by means of low pressure radio-frequency plasmas. *Fuel* 84, 2008 (2005).

30.- P. Patiño, E. Farrera and A. Mejía. The oxidation of streams for diesel fuels formulations by means of high voltage oxygen plasmas. *Plasmas Processes and Polymers* (2005).

27.- P. Patiño, A. Mejía, P. Rodríguez and B. Méndez. Upgrading of diesel fuels and mixtures of hydrocarbons by means of oxygen low pressure plasmas: a comparative study. *Fuel* 82, 1613 (2003).

26.- P. Patiño, M. Méndez, J. Pastrán, G. Gambús, J. Navea, O. Escobar and A. Castro. Oxidation of cycloalkanes and diesel fuels by means of oxygen low pressure plasmas. *Energy & Fuels* 16, 1470 (2002).

25.- G. Gambús, P. Patiño and J. Navea. Spectroscopic study of low pressure water plasmas and their reactions with liquid hydrocarbons. *Energy & Fuels* 16, 172 (2002).

24.- G. Gambús, P. Patiño, B. Méndez, A. Sifontes, J. Navea, P. Martín, and P. Taylor. Oxidation of Long Chain Hydrocarbons by Means of Low Pressure Plasmas. *Energy & Fuels* 15, 881 (2001).

23.- G. Escobar, P. Patiño, S. Acevedo, O. Escobar, M. A. Ranaudo and J.C. Pereira. Interfacial properties of the products of ozonolysis of Hamaca Crude Oil. *Petroleum Science and Technology*, 19, 111-122 (2001).

22.- P. Patiño, Pilot plant treatment of oil industry effluents, *Información Tecnológica* 11, 109 (2000).

- 21.- P. Patiño, Treatment of water product of oil wells drilling. *Información Tecnológica* 10, 41 (1999).
- 20.- P. Patiño, N. Sánchez, H. Suhr and N. Hernández. Reactions of non-equilibrium oxygen plasmas with liquid olefins. *Plasma Chemistry and Plasma Processing* 19, 241 (1999).
- 17.- P. Patiño, L. D'Ornelas, L. Hernández de Bastianoni, L. Lara, Y. Urdaneta and D.N. Waters. Raman and infrared spectra of $[\text{HB}(3,5\text{-Me}_2\text{pz})_3]\text{ZrCl}_3$ and $[\text{HB}(3,5\text{-Me}_2\text{pz})_3]\text{Zr}(\text{OSiPh}_3)\text{Cl}_2$, (pz=pyrazolyl, M=Zr, Hf). *Vibrational Spectroscopy* 15, 163 (1997).
- 16.- P. Patiño, M. Roperio and D. Iacocca. Reactions of O(3P) with aromatic compounds in the liquid phase. *Plasma Chemistry and Plasma Processing* 16, 563 (1996).
- 15.- P. Patiño, F.E. Hernández and S. Rondón. Reactions of O(3P) with secondary C-H bonds of saturated hydrocarbons in non-equilibrium plasmas. *Plasma Chemistry and Plasma Processing* 15, 159 (1995).

I have been leader (PI) or collaborator of ten research projects in laser spectroscopy, plasma chemistry, and water treatment. The funds for the projects have been c.a. one million US dollars and have been supplied by Central University of Venezuela, state foundations, and the oil industry of Venezuela.

I stopped doing research in 2005.