

Curriculum Vitae *Professor Carlos De La Cruz Santana*

Date and Place of birth: 29th November 1952, Maracaibo

Home address: Avenida 3 F, entre calles 85 y 86, Residencias Elorza
(Apartamento 10C), Maracaibo, República Bolivariana de Venezuela.

Telephone no: 58-261-7913460.

Electronic mail: CDLCSANTANA@gmail.com

Married: Maria Paz Martin, in 1978/3 sons (Alejandro, Eduardo and Daniel)

Education:

School of Physical Sciences, University of Essex, Colchester, England, 1975-1978

Thesis: "The reaction of Magnesium with Silica".

Title: Bachelor of Science in Chemistry (with Honour), 1978.

School of Chemical Sciences, UEA, Norwich; 1982-1987.

Thesis: "Infrared Spectroscopic Studies of Adsorption on Platinum/Silica Surfaces"

Title: Doctor of Philosophy (Ph. D), 1987.

Academic career in La Universidad del Zulia (LUZ)

1978-1982	Assistance Lecturer.
1987-1988	Coordinator of the Physical-Chemistry Sector
1988-1992	Chairman of Chemistry Department.
1988-2005	Founding Director. Laboratorio de Espectroscopía Molecular y Atómica (LEMA)
1993-2003	Full-Professor.
1993-1997	Director of the Postgraduated Studies in Chemistry
2000-2002	Director of the Extenssón Division
2003	Emeritus Professor.

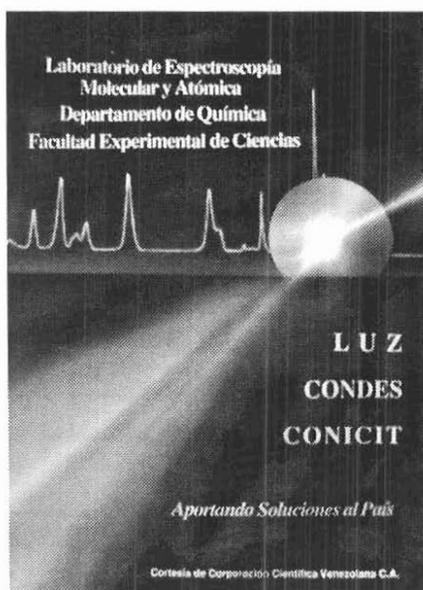
Scholarships, Fellowships, Awards, Honorary Appointments, etc

- 1975-1978** Scholarship from Fundación "Gran Mariscal de Ayacucho"
- 1980-1982** Member of Project UNESCO Ven-77-002.
- 1981** Research Fellow of the Technical University of Budapest, Hungary.
- 1982-1987** Scholarship from La Universidad del Zulia.
- 1990** Member of the Sistema de Promoción del Investigador
- 1991** Dr. Jesús Enrique Lossada Medal (First Class), LUZ.
- 1991-1993** Vice-President of the Chemistry Commission and Permanent Member of the Commission of Human Resources of CONICIT.
- 1995** Foreign Member of the New York Academy of Science, USA.
- 1996** "Fundacite-Zulia" Award for a Distinguished Career in Natural Science.
- 1996-1998** Senior Fellowship from The Royal Society, London, UK.
- 1997** Bibliographical note in Who's Who in the World; Red Elsevier, New Providence-USA.
- 1997** "Dr. Francisco Eugenio Bustamante" Award for the best published article between 1996-1997 in the chemistry literature
- 1997-1998** Visiting Professor, The University of Nottingham. UK
- 1998** Bibliographical note in Dictionary of International Bibliography, International Bibliography Centre, Cambridge, UK.
- 1999** Opening Conference in the First Joint School of the Venezuelan Post-graduated Studies in Chemistry, IDEA, Caracas
- 1999- 2002** CIENCIA, Executive Editor.
- 2001** Member of the Selection Board of the "Lorenzo Mendoza Fleury" Award, Fundación Polar, Caracas
- 2003** "Joseph Jay Ewald" Award.
- 2002-2006** CIENCIA, Honorary Editor

Main research areas

I. Vibrational (specially Infrared) Spectroscopic Studies of Structure and Reactivity of Adsorbed Species on Metals.

II. Vibrational Spectra of Inorganic and Organometallic Compounds as Models for the Analogous Spectra from Adsorbed Species on Single-Crystal Metal Surfaces and Finely-Divided Metal Particles.



From left to right: Claudio Bifano (UCV), Fernando Ruette (IVIC), Deanna Marcano (UCV), Carlos De La Cruz (LUZ), Mireya Golwasser (UCV), Wilmer Olivares (ULA), Roberto Sánchez-Delgado (IVIC), Alberto Golwasser (UCV) and Benjamin Scharifker (USB). Photo: Taken by Elena Ryder.



The 9. "Lorenzo Mendoza Fleury" Award, Fundación Polar, Caracas, 2001. From left to right: Dr. Hugo Leiva (ULA), Prof. Jesús González (ULA), Prof. José Calatróni (USB), Prof. Fracehuli Dagger (UCV), Dr. Anwar Hasmy (IVIC), Madame Leonor Giménez de Mendoza (President of Fundación Polar), Prof. Vladimiro Mujica (UCV), Prof. Carlos De La Cruz (LUZ), M. Sc. Irene Pérez Schael (UCV), Prof. Roberto Sánchez-Delgado (IVIC), Prof. Jesús Alberto León (UCV), Señora Graciela Pantín (General Manager of Fundación Polar) and Jose León (UCV). Photo by Carlos Rividó. Courtesy of Fundación Polar.

**Colleagues, Collaborators, research fellows, post-graduated and graduated students of
Prof. Carlos De La Cruz with research area in brackets**

Colleagues and collaborators.

Norman Sheppard (School of Chemical Science and Pharmacy, University of East Anglia-UK).
Michael A. Chesters (School of Chemistry, The University of Nottingham-UK).
Martin McCoustra (School of Chemistry, The University of Nottingham-UK).
Upali Jayasooriya (School of Chemical Sciences and Pharmacy, University of East Anglia-UK).
The late Mihsuo Ogura (Centro de Microscopia Electrónica, Universidad Central de Venezuela).
Daniel A. Morales (Departamento de Química, Universidad de Los Andes).
Hernán Galindo (Departamento de Física, Universidad de Los Andes).
Nelson Márques (Laboratorio de Petroquímica y Surfactantes, La Universidad del Zulia).
Fredy Ysambert (Laboratorio de Petroquímica y Surfactantes, La Universidad del Zulia).
Rafael Quintero-Arcaya (Investigación y Desarrollo Compañía Anónima).
Esteban Márquez (Investigación y Desarrollo Compañía Anónima).
Edgar González. (Investigación y Desarrollo Compañía Anónima).
Carlos E. Alciaturi (Instituto Zuliano de Investigaciones Tecnológicas).
Marcos Escobar (Instituto Zuliano de Investigaciones Tecnológicas).

Research Fellows.

Tamara Rajmakina de Parada, 1992-1994.
Lenín Huerta, 1995-1997.

Post-graduated Students.

Regina Vallejo de Soto, 1995.
Jorge Reverol, 1996.
Dinny Nava, 1997.
Lenín Huerta, 1997.
Eduardo González.

Graduated Students.

Edgardo Ángulo-Mercado, 1993.
Soraya Segovia-Matos, 1995.
Alexander Granadillo, 1997.
Edgar Portillo, 1998.
Inés González, 1998.
Frine Ruiz, 1998.
Samy Dávila, 2000.
Arlenis Quintero, 2001.
Alfredo Ríos-Martínez, 2003.
Griscar Sandra; 2004.

III. Transmission/Absorbance Infrared Spectroscopy and Scanning Electron Microscopy (SEM) of Stereospecific and Non-stereospecific Polybutadienes.

IV. Transmission/Absorbance and Attenuated Total Reflectance (ATR) Infrared Spectra of Environmental Photo-oxidation Products from Low- and High Density Polyethylene, Polypropylene, Polybutadiene and High-Impact Poly-styrene Films.

V. Quantitative Analysis of the Absorbance Infrared Spectra of High Density Polyethylene samples with Anti-oxidants.

VI. Infrared Micro-spectroscopy, Scanning Electron Microscopy (SEM) and Energy-dispersive X-ray (EDX) Spectrometry Studies of Hard-to-process-particles in Poly-Vinyl Chloride (PVC) Samples.

VII. UV-vis, Absorbance Infrared and Surface Enhance Raman (SER) Spectroscopic Measurements for the Identification of V-, Ni-, Fe-porphyrin in Heavy Crude Oils using Analogous Spectra from Structurally well-defined Metallo-porphyrin Models.

VIII. Application of Partial Least Square (PLS) Regression Analysis to extract Chemical and Quantitative Information from Diffuse Reflectance Infrared Fourier-Transform (DRIFT) Spectra of Coal Samples.

IX. DRIFTS of Metal Oxides.

X. Infrared Micro-spectroscopy of W-Films Deposited on Metal Surfaces.

Poetry

Shahnoz, Impresos Ariel, Maracaibo, 1982.

Planicie Perpetua, Editorial Astro-Data, Maracaibo, 2002.

Breve Antología Poética, Colección El Aleph (Editora Lilia Boscán de Lombardi) Universidad Católica Cecilio Acosta, Maracaibo, 2005.