



# **PATRICIA QUINTANA OWEN**

## ***Curriculum Vitae***

### **PERSONAL INFORMATION**

**Name.** Patricia Quintana Owen

**Professional Address:** Applied Physics Dept  
CINVESTAV- MERIDA  
Km 6 Antigua Carretera a Progreso  
C.P. 97310 Mérida, Yucatán  
MEXICO  
Phone: +52-1 (999) 942-9442  
Email: pquint@cinvestav.mx

### **FORMAL EDUCATION/DEGREE**

- 1985-1992** PhD Inorganic Chemistry Ceramics  
Faculty of Chemistry, UNAM, México, D.F.  
*Advisor:* Prof. Anthony West  
*Area:* Phase diagrams of solid ionic conductors
- 1975-1977** M. Sc. Inorganic Chemistry Ceramics  
Faculty of Chemistry, UNAM, México, D.F.  
*Scholarship from:* CONACYT, Mexico  
*Advisor:* Prof. Anthony West  
*Area:* High temperature phase diagrams of inorganic materials
- 1969-1974** B. Sc. in Chemistry  
Faculty of Chemistry, Universidad Autónoma de Guadalajara,  
Jalisco Mexico  
*Advisor:* Dr. Takeshi Ogawa  
*Area:* Polymers

**RESEARCH INTERESTS:** Materials science in inorganic ceramic materials with electrical properties. Study of archeological materials used by the Mayan culture such as pigments, bones, funerary bundles, to contribute to the knowledge of the living conditions of the prehispanic Mayan society. Nanocoatings to prevent biodeterioration and to control the growth of microorganisms on calcareous rocks affecting historical monuments and buildings.

### **ACADEMIC POSITIONS**

- 1977-1994** Lecturer in Inorganic Chemistry, DEPg. Faculty of Chemistry-UNAM, México,  
**1994-Present** Senior Researcher, Applied Physics Dept. CINVESTAV-Mérida, Yucatán México.

## **INSTITUTIONAL DUTIES**

**1983-1985** Coordinator of MSc and PhD programs in Faculty of Chemistry, UNAM, México, D.F.  
**2011-present** Responsible of the National Laboratory of Nano and Biomaterials, Cinvestav Mérida, Yucatán, México

## **ACADEMIC ACTIVITIES**

Visiting Lecturer: Department of Chemistry, University of Aberdeen, Scotland, Great Britain  
June-October 1979, August-November 1982; January 1987-September 1988

## **SABBATICALS**

**1985-1986** Department of Chemistry, University of Aberdeen, Scotland, Great Britain  
**1994-1995** Department of Applied Physics, Cinvestav-Mérida, Yucatan, Mexico  
**2002-2003** Educational Center Piaget A.C., Yucatan, Mexico

## **MEMBERSHIP OF SCIENTIFIC SOCIETIES**

**1985-Present** Member of National Research System (Level 3)  
**1996-Present** Member Mexican Academy of Sciences  
**1999-2001** Member of the Advisory Board of the Mexican Ceramic Research Network.  
**1995-Present** Member of the Mexican National Congress of Crystallography

## **GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

1981- Present 2 Posdocs/9 PhDs /19 M Sc/24 BSc students

## **TEACHING ACTIVITIES**

Lecturer to BSc, MSc and PhD students in Inorganic Chemistry, General chemistry, Ceramics, Solid State Chemistry, Phase diagrams in ceramic systems, X-Ray Diffraction, Synthesis and Characterization of Materials.

## **OVERALL RESEARCH CONTRIBUTIONS (H-factor = 18, ISI)**

Peer-reviewed papers: 150; Book Chapters: 17; Oral communications/Invited lectures: 300  
Patents: granted 1 and 1 patent request

**Translation of Scientific Books:** Química del Estado Sólido. Una Introducción Solid State Chemistry. An Introduction. Authors: L. Smart y E. Moore, **Translators:** P. Quintana Owen and M. A. Castellanos, Editorial: Addison-Wesley Iberoamericana S.A., Wilmington, Delaware, USA, 1995. (300 pp), ISBN: 0-201-62582-2, Printing: 3000 copies

## **LEADING RESEARCH PROJECTS FUNDED BY THE MEXICAN NATIONAL COUNCIL OF SCIENCE AND TECHNOLOGY**

Infraestructure and Development of the National Laboratory of Nano and Biomaterials,  
Archeological Materials Science  
Ceramic Materials with Electrical Properties