

LUIS F. GARFIAS

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WORKING EXPERIENCE

- 2001-Date Member of Technical Staff, Principal Investigator, Lucent Technologies, Physics Reliability Research Department.
- 1998-2001 Member of Technical Staff, Principal Investigator, Bell Laboratories, Lucent Technologies, Reliability Research Department.
- 1996-1998 Postdoctoral Research Associate, Corrosion Research Center, The University of Minnesota, Chemical Engineering and Materials Science Department.
- 1989-1992 Research Assistant, CINVESTAV-Merida, Applied Physics Department.
Merida, Yucatan, Mexico.
- 1989-1992 Physics Teacher, Colegio Peninsular, Merida Yucatan, Mexico.

ACADEMIC TRAINING

Sept. 1996- Nov. 98: Postdoctoral Researcher in the Corrosion Research Center, The University of Minnesota, Chemical Engineering and Materials Science Department.

Research Topics: "INVESTIGATION OF THE PROPERTIES OF DIFFERENT MATERIALS USING *IN-SITU* AND *EX-SITU* TECHNIQUES: NSOM, AFM, MFM, SEM, SECM, PEM & CLSM"

Supervisor: Prof. William H. Smyrl

Sept. 1993- July 1996: D. Phil. in the Department of Materials, Oxford University, UK.

Research Topic: "PITTING CORROSION OF DUPLEX STAINLESS STEELS".

Supervisor: Dr. John M. Sykes

Sept. 1992- Sept. 1993: M.Sc. in Corrosion Science and Engineering, Corrosion and Protection Centre, UMIST (University of Manchester Institute of Science and Technology, UK). Thesis: "TRANSITION FROM INTERNAL TO EXTERNAL OXIDATION OF Ni-Cr ALLOYS".

Supervisor: Prof. R. C. Newman

Sept. 1986- March 1991: Industrial Chemical Engineer, Chemical Engineering Faculty, Autonomous University of Yucatan. Thesis: "SYNTHESIS AND CHARACTERIZATION OF A CERAMIC SUPERCONDUCTOR $YBa_2Cu_3S_{0.25}O_{6.5}$ "

Supervisors: Dr. Juan Luis Peña Chapa and Dr. Jose A. Azamar Barrios

PROFESSIONAL SOCIETIES

- The Electrochemical Society (ECS)
 - Vice-Chairman, Twin Cities Local Section (1998-1999)
- American Chemical Society (ACS)
- National Association of Corrosion Engineers (NACE)
 - Chairman, Volatile Corrosion Inhibitors (VCI) Symposium, during CORROSION/2001, Houston TX,
 - Chairman, Committee T-3A-14, VCI (1999-2001).
 - Chairman, VCI Symposium, CORROSION/1998, San Antonio TX.
 - Vice Chairman, Committee T-3A-14, VCI (1997-1999).

LANGUAGES

- ENGLISH: Fluent speaking, writing, and understanding.
- SPANISH: Fluent speaking, writing, and understanding.

PUBLICATIONS AND ATTENDANCE TO INTERNATIONAL CONFERENCES

13 Published Articles in International Journals

12 Publications in Refereed Conference Proceedings

25 Invited Lectures And Courses

17 Oral Presentations

29 Contributions to Works Presented At International Conferences

AWARDS

- MOST PROMISING ENGINEER OR SCIENTIST - ADVANCED DEGREE 2004, Recognition granted by the Hispanic Engineer National Achievements Award Corporation (HENAAC).
- GORDON RESEARCH CONFERENCE ON CORROSION SPEAKER, During the 2004 Summer series of the GRC meeting on Corrosion.
- CENTRAL BELL LABS TEAMWORK AWARD, for being the Chairman of the Lucent Task Force on Corrosion Team, June 2003.
- OUTSTANDING CONTRIBUTIONS recognition, Committee T-3A-14 (Technical Committee on VCIs), NACE, CORROSION/2001.
- Recognition for paper "THE INFLUENCE OF COPPER ON THE ACTIVE DISSOLUTION AND PITTING CORROSION OF DUPLEX STAINLESS STEELS," Committee T-8 (Technical Committee on Refining Industry Corrosion), NACE, CORROSION/96.
- Scholarship awarded by CONACyT-Mexico (National Research Council for Science and Technology), to study for D. Phil., Department of Materials, Oxford University, UK. (Sep.93 - Sep.96).
- Scholarship awarded by CONACyT-Mexico (National Research Council for Science and Technology) to study for M.Sc. in the Corrosion and Protection Center, UMIST, UK. (Sep.92 -Aug.93).
- FIRST PLACE AWARD, "First Organic Chemistry Competition", Chemical Engineering Faculty, Autonomous University of Yucatan, Merida Yucatan, Mexico (1988).
- National Researcher, recognized by the National Association of Researchers in Mexico (*Sistema Nacional de Investigadores, SNI*) (1995).
- Best average in the 3rd semester of Chemical Engineering course at the Faculty of Chemical Engineering, Autonomous University of Yucatan, (February 88 - July 88), Merida Yucatan, Mexico.
- Recognition on the "First Writing Competition" from the Foreign Language Department (Education Faculty), Autonomous University of Yucatan, June 1988. Merida Yucatan, Mexico.

EXTRACURRICULAR ACTIVITIES

- Currently have project in collaboration with Prof. Kathryn Uhrich at Rutgers University (Biomedical materials and applications and microscopy).
- Have participated as the outside PhD Committee member for 2 students at Rutgers University (March 2001 and July 2003).
- Program Coordinator, Program SEED/ACS, Bell Laboratories (2001). Program for high school students from minorities and from low-income families to spend a summer doing research at Bell Laboratories.
- Mentor, "Lucent Summer Research Program for University Students" (2000-present). Program for minorities and women to spend a summer doing research at Bell Laboratories.
- Mentor, "Lucent Technologies, Bell Laboratories Science Grant Program for Local High Schools" (1999-present). Program for minorities and women.
- Involved in sports societies during school years: soccer, football, basketball and volleyball.
- Member, Union Society Board of the Chemical Engineering Faculty, Autonomous University of Yucatan, Mexico (1987-91).
- Member, National Board, "Mexican Institute of Chemical Engineering Students" (1989-91).
- President, Peninsular Section, "Mexican Institute of Chemical Engineering Students" (1989-90).
- Director, school magazine "*TURBINE*", edited by the Union Society, Faculty of Chemical Engineering, Autonomous University of Yucatan, Mexico (1987-88).
- President, Union Society, first year high school (1983-84).

OTHER RELEVANT DATA

Gender: Male

Children: I have two children: Louisa 5 and Francisco 4

Nationality: Mexican **Legal Status:** Legal Permanent Resident (I have a green card)

Home address: 713 Girard Ave. Westfield NJ 07090, USA.

Hobbies: Soccer, Basketball, Football, Baseball, playing with my children at the beach and cooking authentic Mexican food and making my new home recipes.