Martha L. Mecartney – Current and Former Graduate Students and Post-Doctoral Researchers

Ph.D. Students	Degree	Year Graduated

1. Yung-Jen Lin — Ph.D. Mat.Sci.& Eng. — 1990
   "Silicate Grain Boundary Phases in Yttria Zirconia"
   Current Employment - Professor, Tatung Institute of Technology, Taiwan

2. Joseph Bailey — Ph.D. Mat.Sci.& Eng. — 1991
   "Microstructural Development During the Chemical Processing of Ceramics"
   Current Employment - 3M, St. Paul, Minnesota

3. Cheng-Chen Hsueh — Ph.D. Mat.Sci.& Eng. — 1991
   "Processing, Microstructural Development, and Electrical Properties of PZT"
   Current Employment – VP, Macronix International, HsinChu, Taiwan

4. Carl Blair — Ph.D. Ancient Studies — 1992
   "Ancient Smelting Practices" (Secondary advisor, primary advisor Peter Wells)
   Current Employment - Visiting Assistant Professor, Michigan Tech. University

5. Vikram Joshi — Ph.D. Mat.Sci.& Eng. — 1993
   "$LiNbO_3$ Thin Films by Sol-Gel Processing for Electrooptical Applications"
   Current Employment – Research Scientist, Symmetrix, Colorado Springs, Colorado

6. Garo Dederian — Ph.D. Eng. (Mat.Sci.) — 1994
   "Sol-Gel Processing of $KNbO_3$ Thin Films"
   Current Employment – Engineer, Micron, Idaho

7. Maria Gust — Ph.D. Eng. (Mat.Sci.) — 1996
   "Sol-Gel Processing of Ferroelectric $BaTiO_3$ Thin Films"
   Current Employment – Engineer, Western Digital, Irvine

8. Adel Sharif — Ph.D. Eng. (Mat.Sci.) — 1998
   "Grain Boundary Control of Grain Growth and Superplasticity in Oxide Ceramics"
   Current Employment - Assistant Professor, Cal State LA

9. Andrew Shapiro — Ph.D. Eng. (Mat.Sci.) — 1998
   "Process Studies of Recrystallizing Glass/Ceramics for Dielectric Applications"
   Current Employment - UCI Adjunct Assistant Professor and JPL

10. A. Yavuz Oral — Ph.D. Eng. (Mat.Sci.) — 2000
    "Oriented Thin Films of Anisotropic Ferroelectrics via Sol-Gel Processing"
    Current Employment - Associate Professor, Gebze Institute of Technology

11. Michael Martin — Ph.D. Eng. (Mat.Sci.) — 2003
"Grain boundary analysis and ionic conductivity of superplastic cubic zirconia for solid oxide fuel cell electrolytes"
Current employment, Director Fuel Cell Research, Edison Materials Technology Company

12. Tiandan Chen — Ph.D. Mat. Sci. Eng. — 2005
"Design of Superplastic Ceramics with Tri-phase Structures"
Current employment, Post-doc research at Rutgers University

13. Phillip Imamura — Ph.D. Eng. (Mat.Sci.) — On Leave
"Grain Boundary Structure and Fracture at Grain Boundaries in Oxides"
Current Employment: Tencor Company, Santa Clara, CA

14. Lynher Ramirez — Ph.D. Mat. Sci. Eng. — Current Student
"Microstructural Control of Pulsed CVD of Zirconia" *Advanced to Candidacy*

15. R. Peter Dillon — Ph.D. Mat. Sci. Eng. — Current Student
"Requirements for Extensive Superplasticity in Ceramic Composites" Advanced to Candidacy

16. Lili Terhabadzi — Ph.D. Mat. Sci. Eng. — Current Student
*"Mechanical Properties of Al_2O_3 - ZrO_2 - $3Al_2O_3$*$2SiO_2$ (mullite)" Advanced to Candidacy*

17. Kevin Olson — Ph.D. Mat. Sci. Eng. — Current Student
"AFM Metrology"

18. Mai Ng — Ph.D. Mat. Sci. Eng. — Current Student
"Grain Size Effects in YSZ and Apatite Electrolytes"

19. Chris Hoo — Ph.D. Mat. Sci. Eng. — Current Student
"AFM Studies on Nanoparticles"

M.S. Students — Degree — Year Graduated

1. Elizabeth Hassler — M.S., Mat.Sci.& Eng. — 1988
"High T_c Superconducting Thin Films by Sol-Gel Coating"
Current Employment - Medtronics, Minneapolis

2. Terumi Nagase — M.S., Chem.Eng. — 1990
"Rheology of Sol-Gel Systems During Gelation"
Current Employment - James River Company

3. Vijay Agrawal — M.S., Mat.Sci.& Eng. — 1991
"Microstructural Development During Thin Film Formation of $YBa_2Cu_3O_{7-x}$"
(primary advisor, co-advised with Allen Goldman)
Current Employment - Materials Export Company, Cedar Rapids, Iowa

4. Maria Gust M.S., Engineering 1992
"Superplastic Behavior in Compression via Grain Boundary Phases in Yttria Zirconia"
Current Employment - Western Digital, Irvine

5. Phil Imamura M.S., Eng. (Mat.Sci.) 1995
"Microstructural Studies of Low Temperature Cofired Ceramics"
Current Employment - Tencor, Santa Clara, CA

6. Joseph Lee M.S., Eng. (Mat.Sci.) 1996
"Dielectric Properties of Sol-Gel BaTiO3 Thin Films" Masters Project
Current Employment: Samsung Corp, Korea

7. Nitin Goyal M.S., Chem. Eng. 1997
"Processing and Structure of V2O5 Thin Films" Masters Project
Current Employment - i2 Company, Dallas, Texas

8. Benjamin Craft M.S., Eng. (Mat.Sci.) 2001
"MOD Techniques for the Growth of Uniform Carbon Nanotubes"
Current Employment - Material Methods, Irvine, CA

9. Joanne Manalac M.S., Eng. (Mat.Sci.) 2001
"Microstructure and Mechanical Properties of Seashells"

10. Michelle Lutes M.S. Mat. Sci. Eng Current Student
"Single Crystal Oxides for AFM Standards"

Post-Doctoral Associates Time Period

1. Dr. Yu-Jun Zhang (from Shanghai Inst. of Ceramics) 1988 - 1990
"TEM Analyses of High T_c Superconducting Ceramics"

2. Dr. Grace King (from USC) 1990 - 1992
"Analytical TEM of Composite Microstructures"

3. Dr. Debasis Roy (from Penn State) 1992 - 1994
"Electrical Characterization of Ferroelectric Thin Films"