

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

Ph.D. Students	Degree	Year Graduated
1. Yung-Jen Lin <i>"Silicate Grain Boundary Phases in Yttria Zirconia"</i> Current Employment - Professor, Tatung Institute of Technology, Taiwan	Ph.D. Mat.Sci.& Eng.	1990
2. Joseph Bailey <i>"Microstructural Development During the Chemical Processing of Ceramics"</i> Current Employment - 3M, St. Paul, Minnesota	Ph.D. Mat.Sci.& Eng.	1991
3. Cheng-Chen Hsueh <i>"Processing, Microstructural Development, and Electrical Properties of PZT"</i> Current Employment – VP, Macronix International, HsinChu, Taiwan	Ph.D. Mat.Sci.& Eng.	1991
4. Carl Blair <i>"Ancient Smelting Practices"</i> (Secondary advisor, primary advisor Peter Wells) Current Employment - Visiting Assistant Professor, Michigan Tech. University	Ph.D. Ancient Studies	1992
5. Vikram Joshi <i>"LiNbO₃ Thin Films by Sol-Gel Processing for Electrooptical Applications"</i> Current Employment – Research Scientist, Symmetrix, Colorado Springs, Colorado	Ph.D. Mat.Sci.& Eng.	1993
6. Garo Dederian <i>"Sol-Gel Processing of KNbO₃ Thin Films"</i> Current Employment – Engineer, Micron, Idaho	Ph.D. Eng. (Mat.Sci.)	1994
7. Maria Gust <i>"Sol-Gel Processing of Ferroelectric BaTiO₃ Thin Films"</i> Current Employment – Engineer, Western Digital, Irvine	Ph.D. Eng. (Mat.Sci.)	1996
8. Adel Sharif <i>"Grain Boundary Control of Grain Growth and Superplasticity in Oxide Ceramics"</i> Current Employment - Assistant Professor, Cal State LA	Ph.D. Eng. (Mat.Sci.)	1998
9. Andrew Shapiro <i>"Process Studies of Recrystallizing Glass/Ceramics for Dielectric Applications"</i> Current Employment - UCI Adjunct Assistant Professor and JPL	Ph.D. Eng. (Mat.Sci.)	1998
10. A. Yavuz Oral <i>"Oriented Thin Films of Anisotropic Ferroelectrics via Sol-Gel Processing"</i> Current Employment - Associate Professor, Gebze Institute of Technology	Ph.D. Eng. (Mat.Sci.)	2000

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| 11. | Michael Martin | Ph.D. Eng. (Mat.Sci.) | 2003 |
| | <i>"Grain boundary analysis and ionic conductivity of superplastic cubic zirconia for solid oxide fuel cell electrolytes"</i> | | |
| | Current employment, Director Fuel Cell Research, Edison Materials Technology Company | | |
| 12. | Tiandan Chen | Ph.D. Mat. Sci. Eng. | 2005 |
| | <i>"Design of Superplastic Ceramics with Tri-phase Structures"</i> | | |
| | Current employment, Post-doc research at Rutgers University | | |
| 13. | Phillip Imamura | Ph.D. Eng. (Mat.Sci.) | On Leave |
| | <i>"Grain Boundary Structure and Fracture at Grain Boundaries in Oxides"</i> | | |
| | Current Employment: Tencor Company, Santa Clara, CA | | |
| 14. | Lynher Ramirez | Ph.D. Mat. Sci. Eng. | Current Student |
| | <i>"Microstructural Control of Pulsed CVD of Zirconia"</i> | | |
| | | | <i>Advanced to Candidacy</i> |
| 15. | R. Peter Dillon | Ph.D. Mat. Sci. Eng. | Current Student |
| | <i>"Requirements for Extensive Superplasticity in Ceramic Composites"</i> | | |
| | | | <i>Advanced to Candidacy</i> |
| 16. | Lili Terhabadzi | Ph.D. Mat. Sci. Eng. | Current Student |
| | <i>"Mechanical Properties of Al₂O₃ - ZrO₂ - 3Al₂O₃*2SiO₂ (mullite)"</i> | | |
| | | | <i>Advanced to Candidacy</i> |
| 17. | Kevin Olson | Ph.D. Mat. Sci. Eng. | Current Student |
| | <i>"AFM Metrology"</i> | | |
| 18. | Mai Ng | Ph.D. Mat. Sci. Eng. | Current Student |
| | <i>"Grain Size Effects in YSZ and Apatite Electrolytes"</i> | | |
| 19. | Chris Hoo | Ph.D. Mat. Sci. Eng. | Current Student |
| | <i>"AFM Studies on Nanoparticles"</i> | | |

M.S. Students	Degree	Year Graduated
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| 1. | Elizabeth Hassler | M.S., Mat.Sci.& Eng. | 1988 |
| | <i>"High T_c Superconducting Thin Films by Sol-Gel Coating"</i> | | |
| | Current Employment - Medtronic, Minneapolis | | |
| 2. | Terumi Nagase | M.S., Chem.Eng. | 1990 |
| | <i>"Rheology of Sol-Gel Systems During Gelation"</i> | | |
| | Current Employment - James River Company | | |
| 3. | Vijay Agrawal | M.S., Mat.Sci.& Eng. | 1991 |
| | <i>"Microstructural Development During Thin Film Formation of YBa₂Cu₃O_{7-x}"</i> | | |
| | <i>(primary advisor, co-advised with Allen Goldman)</i> | | |
| | 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) <i>"TEM Analyses of High T_c Superconducting Ceramics"</i>	1988 - 1990
2. Dr. Grace King (from USC) <i>"Analytical TEM of Composite Microstructures"</i>	1990 - 1992
3. Dr. Debasis Roy (from Penn State) <i>"Electrical Characterization of Ferroelectric Thin Films"</i>	1992 - 1994