Invited Presentations at Universities, Conferences, and Research Institutions (from September 1990)

- 1. "Structural Development During Sol-Gel Processing," Workshop on Powder Free Processing for Advanced Ceramics, Schloss Ringberg, West Germany, November 1990.
- 2. "Morphological Characterization of Gel Ultrastructures," Fifth Ultrastructure Processing Conference, Orlando, Florida, February 1991.
- 3. "Sol-Gel Processing of Ceramic Materials: Analysis and Control of Structural Development," Department of Chemical Engineering, Georgia Tech, May 1991.
- 4. "Grain Boundary Chemistry and the Properties of Zirconia Ceramics," EMSA and MAS Annual Meeting, San Jose, August 1991.
- 5. "Microstructural Development in Sol-Gel Processing," AIChE Fall Meeting, Los Angeles, November 1991.
- 6. "Sol-Gel Processing of Ferroelectric Thin Films," Hughes Research Labs, Malibu, CA March 1992.
- 7. "Sol-Gel Processing of Ceramic Materials," Physical Chemistry Div., Dept. of Chemistry, UCI, April 1992.
- 8. "Crystallization of Sol-Gel Thin Films," Crystal Growers Assoc. of Southern CA, June 1992.
- 9. "Grain Boundary Phases in Yttria Stabilized Zirconia," Fifth International Conference on Zirconia, Melbourne, Austrailia, August 1992.
- 10. "Microstructural Development in Sol-Gel Derived Ferroelectric Thin Films," Naval Research Laboratory, Washington D.C., May 1993.
- 11. "Microstructural Development in Sol-Gel Derived Dielectric and Ferroelectric Oxide Thin Films," Materials Science & Engineering Department, UCLA October 1993.
- 12. "Microstructural Development of Sol-Gel Derived Oxide Thin Films," Ceramic Engineering Department, University of Illinois, Champaign-Urbana, April 1994.
- 13. "Microstructural Development in Sol-Gel Derived Ferroelectric Thin Films," Microscopy Society of America 52nd Annual Meeting, New Orleans, August 1994.
- 14. "Microstructural Design of Crystalline Oxide Thin Films via Sol-Gel Routes," Materials Science & Engineering Department, University of California, Berkeley, February 1995
- 15. "Microstructural Evolution of Sol-Gel Derived Ferroelectric Thin Films," Sandia National Lab, Albuquerque, NM, February 1995.

- 16. "Intergranular Phases in Zirconia Ceramics," Los Alamos National Lab, February 1995.
- 17. "Ferroelectric Thin Films via Sol-Gel Processing," Materials Research Laboratory, University of California, Santa Barbara, March 1995.
- 18. "Microstructural Development of Sol-Gel Derived Barium Titanate Thin Films," Fifth International Symposium on Integrated Ferroelectrics, Colorado Springs, March 1995.
- 19. "Microstructural Design of Oxide Thin Films via Sol-Gel Routes," American Chemical Society National Meeting, Symposium on Sol-Gel Synthesis of Catalysts & Advanced Materials, San Francisco, April 1997.
- 20. "Design of Superplastic Oxides using Grain Boundary Phases," Materials Science and Engineering Program, Caltech, March 1998.
- 21. "Superplastic Deformation of Cubic Yttria Stabilized Zirconia Using Intergranular Phases" Symposium on Interfaces and Microstructures in Materials, UC Santa Barbara, April 1998.
- 22. "The Design of Superplastic Fine Grain Ceramics using Intergranular Phases," JIMIS-9, Towards Innovation in Superplasticity II, Kobe, Japan, September 1998.
- 23. "Grain Boundary Engineering of Highly Deformable Ceramics," Materials Research Society, Symposium on Superplasticity: Current Topics and Future Potential, November, 1999.
- 24. "Mentoring Strategies for Underrepresented Students," NSF PAESMEM Workshop, March 2003, Washington D.C.
- 25. "Interfacial Design for Superplastic Deformation of Zirconia Ceramics," American Ceramic Society Annual Meeting, April 2003.
- 26. "Nanocrystalline Ceramics for Superplastic Forming," International Materials Research Society (MRS) Conference, Cancun, Mexico, August 2005
- 27. "Observations of Metal-like Behavior in Superplastic Ceramics," Department of Mechanical Engineering, UC Riverside. October 2005.
- 28. "Should Mentoring Be an Expectation, Not an Option, for Faculty?" Southeast Alliance for Graduate Education and the Professoriate (SEAGAP), Gainesville, Florida, January 2006.
- 29. "Comparison of Electrical and Chemical Grain Boundary Widths in Cubic Yttria Stabilized Zirconia, "Oak Ridge National Laboratory, May 2006.
- 30. "High Temperature Deformation and Superplasticity in Mullite and Mullite Composites," International Conference on Mullite, Vienna, June 2006.

- 31. "Dislocation Assisted High Temperature Deformation in Mullite and Mullite Composites," Stanford University, Sinclair Symposium, February 2007.
- 32. "Grain Size Effects in Solid Oxide Electrolytes," Materials Research Society, San Francisco, April 2007.
- 33. "Superplastic Ceramics," UCLA, Materials Science and Engineering Department, May 2007.