

Ron C. Estler - Professional Presentations
(Oral Presentations Unless Otherwise Indicated)

“Flash Photolysis of $[\text{Co}(\text{NH}_3)_5 \text{Br}] \text{Br}_2$: The Photo-Initiation of Br_2 ”, R. C. Estler, Intercollegiate Council of ACS Student Affiliate Chapters, Sandoz-Wander, Inc., East Hanover, New Jersey, May, 1972.

“Determinations of Bond Energies by Time-of-Flight Single-Collision Chemiluminescence”, R. C. Estler and R. N. Zare, Electrochemical Society Meeting, Atlanta, Georgia, October 1977.

Invited Talk: “State-to-State Studies of Atom-Diatom Exchange Reactions”, R. C. Estler, American Chemical Society/Chemical Society of Japan Chemical Congress, Honolulu, Hawaii, April 1979.

“The Effect of Rotation in the Reaction $\text{Sr} + \text{HF}(v=1) \rightarrow \text{SrF} + \text{H}$ ”, C. K. Man and R. C. Estler, American Chemical Society Meeting, New York, New York, August 1981.

“Multiphoton Ionization Detection of Photodissociation Fragments: NO from NO_2 ”, G. Radhakrishnan, D. Ng, and R. C. Estler, American Chemical Society Meeting, New York, New York, August 1981.

“Multiphoton Ionization Detection of Photodissociation Fragments”, G. Radhakrishnan and R. C. Estler, Pacific Conference of Chemistry and Spectroscopy, Anaheim, California, October 1981.

“Multiphoton Ionization Studies of the Photodissociation of Alkyl Nitrites”, R. C. Estler, Conference on Lasers and Electro-Optics (CLEO), Baltimore, Maryland, May 1983.

“RIMS as a Diagnostic for Optical Damage”, N. S. Nogar and R. C. Estler, 17th Annual Symposium on Optical Materials for High Power Lasers, Boulder, Colorado, October, 1985.

“Lifetime and Quenching Measurements of C_2H Emission Produced by Vacuum Ultraviolet Photolysis of C_2H_2 ”, J. J. Tiee, R. K. Sander, C. R. Quick, Jr., R. J. Romero, and R. Estler, SPIE - Southwest Conference on Optics, Santa Fe, New Mexico, 1985.

“Laser Desorption Mass Spectrometry”, E. C. Apel, R. C. Estler, and N. S. Nogar, Rocky Mountain Regional ACS Meeting, Denver, Colorado, June, 1986.

“Vacuum Ultraviolet Photolysis of Acetylene in the 110-135 nm Region”, J. J. Tiee, R. K. Sander, C. R. Quick, and R. Estler, ", AIP - Conference on Short Wavelength Coherent Radiation: General Applications, 1986.

“RIMS Diagnostics for Laser Desorption/Laser Ablation”, E. C. Apel, N. S. Nogar, C. M. Miller, and R. C. Estler, International Symposium on Resonance Ionization Spectroscopy and Its Applications, Swansea, Wales, United Kingdom, September, 1986.

“Optical Damage in CaF₂ Studied by Laser Ionization Mass Spectrometry”, R. C. Estler, E. C. Apel, and N. S. Nogar, 18th Annual Symposium on Optical Materials for High Power Lasers, Boulder, Colorado, November, 1986.

“Applications of Resonance Ionization Mass Spectrometry in Analytical Spectroscopy”, N. S. Nogar, E. C. Apel, C. M. Miller, and R. C. Estler, Optical Society of America: Lasers in Chemical Analysis, Lake Tahoe, California, January, 1987

“Laser Etching and Evaporation of CaF₂ Studied by Mass Spectrometry”, R. C. Estler, E. C. Apel, and N. S. Nogar, Optical Society of America: Microphysics of Surfaces, Beams and Adsorbates, Santa Fe, New Mexico, February, 1987.

“Mass Spectral Identification of UV-Laser Photoablation Products from Polymers”, R. C. Estler and N. S. Nogar, Optical Society of America: Microphysics of Surfaces, Beams and Adsorbates, Santa Fe, New Mexico, February, 1987.

“Keeping Chemistry Majors in Chemistry”, R. C. Estler, Rocky Mountain Chairmen's Conference, Salt Lake City, October, 1987.

“A Chemical Precursor to Optical Damage? Studies by Laser Ionization Mass Spectrometry”, R. C. Estler and N. S. Nogar, 19th Annual Symposium on Optical Materials for High Power Lasers, Boulder, Colorado, November, 1987.

“Wavelength Dependence of Polymer Photoablation”, R. C. Estler and N. S. Nogar, Optical Society of America Topical Meeting on Free-Electron Applications in the Ultraviolet, Cloudcroft, New Mexico, March 1988.

“Laser Desorption/Ablation Studies by Resonance Ionization Mass Spectrometry”, R. C. Estler, N. S. Nogar, B. L. Fearey, C. M. Miller, and M. W. Rowe, Fourth International Symposium on Resonance Ionization Spectroscopy and Its Applications, National Bureau of Standards, Gaithersburg, Maryland, April, 1988.

Invited Talk: "Laser Desorption Mass Spectrometry", N. S. Nogar and R. C. Estler, 41st Annual Summer Symposium on Analytical Chemistry: Lasers in Analytical Chemistry, Stanford, California, June, 1988.

"The Detection, Removal and Effect on Damage Thresholds of Cerium Impurities on Fused Silica", R. C. Estler, N. S. Nogar, and R. A. Schmel, 20th Annual Symposium on Optical Materials for High Power Lasers, Boulder, Colorado, October, 1988.

"Direct Laser/Materials Interaction: Laser Ablation of Superconducting Materials and Laser Welding", D.A. Cremers, R.D. Dixon, R.C. Estler, G.K. Lewis, J.L. Lyman, R.E. Muenchausen, N.S. Nogar, and M. Piltch, High Temperature Materials Chemistry 89, Sixth International Conference on High Temperatures - Chemistry of Inorganic Materials, Gaithersburg, Maryland, April, 1989.

"Laser Ablation for the Production of Thallium-Containing High Temperature Superconducting Thin Films", P. Arendt, R. C. Estler, A. R. Garcia, R. E. Muenchausen, N. S. Nogar, and M. Trkula, Materials Research Society Spring Meeting, San Diego, California, April 1989.

Invited Talk: "Materials Analysis by Laser- and Ion Beam- Sputtering with Resonance Ionization Mass Spectrometry", R. C. Estler and N. S. Nogar, International Ions Beams Conference, Kingston, Ontario, Canada, June, 1989.

"Effects of Processing Parameters on the Excimer Laser Deposition of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films", R. E. Muenchausen, R. C. Estler, et.al., Materials Research Society, Boston, Massachusetts, November, 1989.

"Laser Mass Spectrometric Studies of High Temperature Superconductor Ablation", R. C. Estler and N. S. Nogar, International Society for Optical Engineering, SPIE conference, Los Angeles, California, January 1990.

"Properties of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Superconducting Thin Films Made at High Deposition Rate", R. E. Muenchausen, R. C. Estler, et.al., American Physical Society, March 1990.

"Influence of Beam and Target Properties on the Excimer Laser Deposition of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films", S. Foltyn, R. C. Estler, et.al., Materials Research Society, San Francisco, California, April 1990.

"Effects of Processing Parameters on the Excimer Laser Deposition of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films II", R. E. Muenchausen, R. C. Estler, et.al., Materials Research Society, San Francisco, California, April 1990.

“Laser Ablation and Laser Processing for the Production of High Quality HTSC Thin Films”, N.S. Nogar, R. C. Estler, et.al., American Physical Society, Minneapolis, Minnesota, September, 1990.

Invited Talk: “Spectrochemical Analysis of Laser-Desorbed Plumes”, N.S. Nogar and R. C. Estler, American Physical Society, Minneapolis, Minnesota, September, 1990.

“The Determination of Cr in Urine by Resonance Ionization Mass Spectrometry (RIMS) - Isotope Dilution Analysis”, R. C. Estler and N. S. Nogar, The Alfred O. Nier Symposium on Inorganic Mass Spectrometry, Durango, Colorado, May 1991. POSTER

“Incorporation of Fourier Transform Instrumentation into the Undergraduate Curriculum”, R. C. Estler, J. W. Mills, and W. R. Bartlett, American Chemical Society Meeting, New York, New York, August 1991.

“Trace Metal Detection by Resonance Ionization Mass Spectrometry”, J. Zoller and R.C. Estler, Sixth National Conference on Undergraduate Research, Minneapolis, Minnesota, March, 1992.

“ShoeString Resonance Ionization Mass Spectrometry (SSRIMS)”, J. Zoller, R. Lewis, G. Rothschof and R. Estler, Sixth International Symposium on Resonance Ionization Spectroscopy, Santa Fe, New Mexico, May, 1992. POSTER

“Time-of-Flight Resonance Ionization Mass Spectrometry (RIMS) of Ni”, G. Rothschof, R. Lewis, and R. C. Estler, American Chemical Society Meeting, Denver, Colorado, March 1993. POSTER

“Incorporation of Fourier Transform Techniques into the Undergraduate Physical Chemistry Laboratory”, R. C. Estler, L. Sommerville and J. W. Mills, American Chemical Society Meeting, Chicago, Illinois, August 1993.

“Studies of the Optimum Matrix/Biopolymer Ratio in Matrix Assisted Laser Desorption (MALD) Mass Spectrometry”, J. White and R. C. Estler, American Chemical Society Meeting, San Diego, California, March 1994. POSTER

“Measurement of the Electronic Temperature of Nickel During Laser Ablation”, C. Grant, G. Rothschof and R. C. Estler, American Chemical Society Meeting, San Diego, California, March 1994. POSTER

“How to Succeed in Grant Writing in Chemistry”, R. C. Estler, Council on Undergraduate Research April Dialogue, Washington, D.C., April 1995.

“Investigation of Optimum Matrix/Biopolymer Ratios in Matrix Assisted Laser Desorption Ionization (MALDI) Mass Spectrometry”, M. Frantz, J. White, L. Lewis, and R. C. Estler, American Chemical Society Meeting, Anaheim, California, April 1995. POSTER

“Getting a Job at a PUI”, J. M. Ritchey and R. C. Estler, Los Alamos National Laboratory, Los Alamos, New Mexico, December, 1995.

“Undergraduate Research Changed My Life”, Eastern Midwest PKAL Regional Conference, South Bend, Indiana, March 1997. Keynote Speaker.

"Laser Mass Spectrometry from Tens of Daltons to Tens of Thousands of Daltons", R. C. Estler, University of Oregon, November 1997.

“How to Get a Job at a PUI”, R. C. Estler, Sponsored by the Council on Undergraduate Research, University of Oregon, November 1997.

“Faculty Collaborations with National Laboratories”, R. C. Estler, Council on Undergraduate Research Institute, Bates College, May 1998

“Departmental Role in Revitalizing Mid-Career Faculty”, R. C. Estler, Council on Undergraduate Research Institute, Trinity University, February, 1999.

“Institutionalizing Research for the Bottom Up: Lessons Along the Way”, R. C. Estler, Council on Undergraduate Research Institute, University of Wisconsin, La Crosse, October 1999.

“Developing an Empowering Departmental Culture”, R. C. Estler, Council on Undergraduate Research Institute, The College of William and Mary, February, 2000.

"Getting a Job at a Primarily Undergraduate Institution (PUI)". R. C. Estler, Stanford University, March 30, 2000.

“Issues and Challenges of Undergraduate Research at a Public PUI”, R. C. Estler, Biennial Conference on Chemical Education: Undergraduate Research: Cornerstone of a Chemical Degree, Western Washington University, July 30, 2002.

“Wavelet Analysis: What Joe Fourier Didn’t Tell You” (or “Separating Good Hearts From Bad”) R. C. Estler, Fort Lewis College Chemistry Seminar, October

11, 2002.

“Investigation of Optimum Surface Modification in Porous Silicon for Negative Ion DIOS (Desorption Ionization on Silicon) Mass Spectrometry, Liam Jacobson and Ron Estler, American Chemical Society Meeting, New Orleans, LA , March 2003. POSTER

“Undergraduate Research Changed My Life”, R. C. Estler, Pepperdine University, (Invited departmental seminar), March 2003.

“You Want Me To Do What?”, R. C. Estler, Durango High School, invited graduation address, May 24, 2003.

“Developing an Empowering Departmental Culture”, R. C. Estler, Council on Undergraduate Research Institute, Furman University, March, 2004.

“Computational Chemistry Opportunities at Fort Lewis College” R. C. Estler, Fort Lewis College Chemistry Seminar, October 2004.

“Beetles, Butterflies, Birds, and Nanotechnology” R. C. Estler, Fort Lewis College, Professional Associates presentation – a seminar for the public, March 22, 2007.

“Wood, Beetles, Butterflies, Birds, and Nanophotonics” R. C. Estler, Fort Lewis College Chemistry Seminar, October 5, 2007.

“Simultaneously Encoding Multiple Frequencies and Amplitudes in Porous Silicon Rugate Filters”, Danielle Ladd and Ron Estler, American Chemical Society Meeting, New Orleans, LA, April 2008. POSTER

“Revisions to the ACS Guidelines for Undergraduate Programs: Motivation, Changes, and Possibilities” R. C. Estler, The Midstates Consortium for Math and Science workshop, The Impact of Changes in ACS Guidelines, Colorado College, June 27, 2008.

“Perceptions and Challenges in Engaging Native American Students in Chemistry”, Omaha, Nebraska (Part of the American Chemical Society workshop on increasing Native American student participation in the field of chemistry. Workshop organizer and presenter.) September 2008.

