

PRESENTATIONS

*-graduate student coauthor

**-undergraduate student coauthor

“Photochemistry of Matrix-Isolated Biacetyl-Water Complexes.”

Christine Salvatore* and C. A. Baumann

Presented at the Gordon Conference on Photochemistry, Stonehill College, July, 2015.

“Infrared Spectra and Calculated Binding Energies of γ -Butyrolactone Dimers and Trimers.”

Eric Willis** and C. A. Baumann

Presented at the Sixty-Ninth International Symposium on Molecular Spectroscopy, The University of Illinois, June, 2014.

“Long-wavelength Photochemistry of Matrix-Isolated Biacetyl.”

Nathan G. Kuchmas* Erin E. Gatrone* and C.A. Baumann

Presented at the Gordon Conference on Photochemistry, Stonehill College, July, 2013.

“Fluorescence of Matrix-Isolated Biacetyl.”

Erin E. Gatrone*, Nathan G. Kuchmas* and C.A. Baumann

Presented at the Sixty-Sixth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2011.

“Long-wavelength Photochemistry of Matrix-Isolated Biacetyl.”

Nathan G. Kuchmas* and C.A. Baumann

Presented at the Sixty-Fifth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2010.

“Photochemistry of Matrix-Isolated Vinyl Acetate.”

Krista Cohen* and C.A. Baumann

Presented at the Gordon Conference on Photochemistry, Bryant University, July, 2009.

“Photochemistry of Matrix-Isolated Vinyl Acetate.”

Krista Cohen* and C.A. Baumann

Presented at the Sixty-Fourth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2009.

“Concentration, Matrix, and Wavelength Dependence in the Photolysis Efficiency of Matrix-Isolated Biacetyl.”

C. A. Baumann

Presented at the Sixty-Third Symposium on Molecular Spectroscopy, The Ohio State University, June, 2008.

“The Ketene Channel in the Photochemistry of Matrix-Isolated Biacetyl.”

C. A. Baumann

Presented at the Gordon Conference on Photochemistry, Bryant University, July, 2007.

"Infrared Spectrum of Matrix-Isolated Methylhydroxycarbene."

C. A. Baumann

Presented at the Sixty-Second Symposium on Molecular Spectroscopy, The Ohio State University, June, 2007.

"Concentration Dependence of the Photochemistry of Matrix-Isolated Nitromethane."

Angela M. Jaramillo** and C. A. Baumann

Presented at the Sixty-First Symposium on Molecular Spectroscopy, The Ohio State University, June, 2006.

"Photochemistry of Biacetyl Isolated in Inert Gas Matrices."

Christopher Baumann, Shawn Finney** and Jared Varaly*

Presented at the Gordon Conference on Photochemistry, Bryant University, July, 2005.

"Infrared Spectra of *gamma*-Butyrolactone Dimers and Trimers Isolated in Inert Gas Matrices."

Jonathan Roslund** and C. A. Baumann

Presented at the Sixtieth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2005.

"Infrared Spectra and Photochemistry of Biacetyl-water Complexes Isolated in Inert Gas Matrices."

Christine Salvatore* and C. A. Baumann

Presented at the Fifty-Ninth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2004.

"Infrared Spectra and Photochemistry of *gamma* butyrolactone and *gamma* butyrolactone-*d*₆ Isolated in Inert Gas Matrices."

Jonathan Roslund**, and C. A. Baumann

Presented at the Fifty-Eighth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2003.

"Infrared Spectrum and Photochemistry of Glyoxal Adsorbed on Alkali Halide Films."

James Collins*, John Telechowski*, and C. A. Baumann

Presented at the Fifty-Seventh Symposium on Molecular Spectroscopy, The Ohio State University, June, 2002.

"Photochemistry of Biacetyl-*d*₆ Isolated in Inert Gas Matrices."

Jared Varaly* and C. A. Baumann

Presented at the Fifty-Sixth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2001.

"Infrared Spectra of Acetonitrile and Related Compounds Adsorbed on Alkali Halide Films."

Denise Mahalidge*, N. Satish Chandra*, Candice Taylor*, and C. A. Baumann

Presented at the Fifty-Fifth Symposium on Molecular Spectroscopy, The Ohio State University, June, 2000.

"Photochemistry of Biacetyl Isolated in Inert Gas Matrices."

Shawn Finney** and C. A. Baumann

Presented at the Fifty-Fourth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1999.

"Infrared Spectrum of Biacetyl Adsorbed on Alkali Halide Films."

Roy Gernhardt*, Richard Morgan*, and C. A. Baumann

Presented at the Fifty-Fourth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1999.

"Photochemistry of Biacetyl Adsorbed on Alkali Halide Films."

Roy Gernhardt*, Richard Morgan*, and C. A. Baumann

Presented at the Fifty-Fourth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1999.

"Production and Infrared Spectrum of a Photodimer of Trifluoronitrosomethane (CF₃NO) Isolated in Inert Gas Matrices."

Megan Morgan* and C. A. Baumann

Presented at the Fifty-Third Symposium on Molecular Spectroscopy, The Ohio State University, June, 1998.

"Infrared Spectroscopy and Photochemistry of Nitromethane Adsorbed on Alkali Halide Films: Conformers and Quenching."

Toni Green**, Angela Jaramillo**, and C. A. Baumann

Presented at the Fifty-Second Symposium on Molecular Spectroscopy, The Ohio State University, June, 1997.

"Photochemistry of Nitromethane Adsorbed on Alkali Halide Films."

Toni Green**, Angela Jaramillo**, Gerald Wayton*, and C. A. Baumann

Presented at the Fifty-Second Symposium on Molecular Spectroscopy, The Ohio State University, June, 1997.

"Infrared Spectroscopy and Photochemistry of Nitromethane Adsorbed on Alkali Halide Films."

Margaret Cullen**, Gerald Wayton*, and C. A. Baumann

Presented at the Fifty-First Symposium on Molecular Spectroscopy, The Ohio State University, June, 1996.

"Photochemistry of Matrix-Isolated Trifluoronitrosomethane (CF₃NO)."

Megan Morgan* and C. A. Baumann

Presented at the Fifty-First Symposium on Molecular Spectroscopy, The Ohio State University, June, 1996.

"Photochemistry of Trifluoronitrosomethane (CF_3NO) Adsorbed on Noble Gas Solids."

Brendan C. Haynie** and C. A. Baumann

Presented at the Fiftieth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1995.

"Infrared Spectrum of CF_3H Adsorbed on Alkali Halide Films."

C. A. Baumann

Presented at the Forty-Ninth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1994.

"Infrared Spectrum and Photochemistry of Adsorbed CF_3NO_2 ."

J. Rusnock*, and C. A. Baumann

Presented at the Forty-Eighth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1993.

"Photochemistry of Adsorbed Nitrosotrifluoromethane (CF_3NO)."

J. Rusnock*, L. Giancarlo**, and C. A. Baumann

Presented at the Forty-Seventh Symposium on Molecular Spectroscopy, The Ohio State University, June, 1992.

"Infrared Spectra of H_2O , D_2O , and HDO on Alkali Halide Films."

L. Giancarlo**, B. Stone, and C. A. Baumann

Presented at the Forty-Fifth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1990.

"Infrared Spectra of H_2O and D_2O on Sodium Chloride Films."

J. Reynolds**, K. Pensak**, B. Stone, and C. A. Baumann

Presented at the Forty-Third Symposium on Molecular Spectroscopy, The Ohio State University, June, 1988.

"Spectra and Isotherms of Nitrosotrifluoromethane (CF_3NO) on Sodium Chloride Films."

J. Reynolds**, K. Miller**, K. Pensak**, and C. A. Baumann

Presented at the Forty-Third Symposium on Molecular Spectroscopy, The Ohio State University, June, 1988.

"Infrared Spectroscopy of Physisorbed Molecules on Alkali Halide Surfaces."

C. A. Baumann, W. C. Schinzer, and G. E. Ewing

Presented at the Thirty-Eighth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1983.

"Bi-Metallic Molecules: ESR of Manganese-and Chromium-Containing Species."

C. A. Baumann, R. J. Van Zee, and W. Weltner, Jr.

Presented at the Thirty-Seventh Symposium on Molecular Spectroscopy, The Ohio State University, June, 1982.

"ESR of the High-Spin ($S=25/2$) Mns Molecule."

C. A. Baumann, R. J. Van Zee, S. V. Bhat, and W. Weltner, Jr.

Presented at the Thirty-Seventh Symposium on Molecular Spectroscopy, The Ohio State University, June, 1982.

"Transition Metal Diatomics: an ESR Overview."

C. A. Baumann, R. J. Van Zee, and W. Weltner, Jr.

Presented at the Thirty-Fifth Annual Meeting of the Florida Section of the American Chemical Society, Orlando, May, 1982.

"High Spin Molecules: $S=3$ Manganese Monohalides and $S=5/2$ Dihalides."

C. A. Baumann, R. J. Van Zee, and W. Weltner, Jr.

Presented at the Thirty-Sixth Symposium on Molecular Spectroscopy, The Ohio State University, June, 1981.