

# Scott M. Hurst

## Education

- Ph.D., Physical Chemistry, Loyola University of Chicago, 1992
- B.S., Chemistry, West Virginia University, 1985

## Academic experience

### *West Virginia University Institute of Technology*, 1996-present

Associate Professor, Department of Physical Sciences, 2012-present

Campus Provost, 2008-2011

Associate Provost, 2006-2009

Associate Professor, Department of Chemistry, 2001-2006

Assistant Professor, Department of Chemistry, 1996-2001

### *Loyola University of Chicago*

Lecturer, Department of Chemistry, Jan. 1991-May 1991

## Non-teaching work experiences

- Residential Research Associate, U.S. Department of Energy, National Energy Technology Center, Technology Support Project Division, Morgantown, WV, Feb.1995-Aug.1996.
- Visiting Scientist, Department of Chemistry, Cornell University, Ithaca, Jan.1995-Feb.1995.
- Research Associate, Sibley School of Mechanical and Aerospace Engineering, Cornell University, Ithaca, Aug.1993-Jan.1995.
- Postdoctoral Associate, Department of Chemistry, Cornell University, Ithaca, Mar.1991-Aug.1993.

## Membership in professional organizations

- American Chemical Society
- American Physical Society

## Publications

1. Scott M. Hurst (August 1996). Final Report to the U.S. Department of Energy Federal Energy Technology Center and the Oak Ridge Institute for Science and Education: *Degenerate Four-Wave Mixing Diagnostics of Combustion in a High Pressure Environment*.
2. Scott M. Hurst, C.F. Wilcox, and S.H. Bauer (1995). Spectral Signatures of Critical Transition Structures Derived from Temperature Dependent IR Spectra.

J. Chem. Phys. 103(14),5904.

3. Daniel J. Graham, Scott M. Hurst, and Jing-Chen Luo (1995). Investigations of Cooling  $N_2(C^3\Pi_u, v', J')$  in a Supersonic Discharge. J. Phys. Chem. 99(4),1115.

4. D.H. Sokol, S.M. Hurst, E.M. Fisher, and F.C. Gouldin (1995). In-Situ Fourier- Transform Infrared Spectrometric Measurements in a Premixed  $CH_4/O_2/N_2$  Flat Flame Doped with Dimethyl Methyl Phosphonate. The Combustion Institute Joint Technical Meeting, April 23-26, 1995, 95PS-015.

5. S.M. Hurst and S.H. Bauer (1993). A Piston-Actuated Shock-Tube, with Laser Schlieren Diagnostics. Rev. Sci. Instrum. 64, 1342.

6. D.J. Graham, S.M. Hurst, J.C. Luo (1993). Emission Spectroscopy of Nitrogen in a Supersonic Discharge: Evidence of Excited Neutral Nitrogen Clusters. J. Chem. Phys. 98,2564.

7. Scott M. Hurst (1991). Ph.D. Dissertation submitted to the Faculty of the Graduate School of Loyola University of Chicago, Dynamic and Spectroscopic Studies of Triplet State Nitrogen, University Microfilm International (Bell and Howell Information Company), Ann Harbor, Michigan.

8. Daniel J. Graham and Scott M. Hurst (1990). Spectroscopic Studies of Electronic Energy Transfer between Triplet State N, and Argon. Paper RHI, Proceedings of the Forty-Fifth Symposium on Molecular Spectroscopy, The Ohio State University.

9. Scott M. Hurst (1989). Three-Dimensional Laser Cooling of Atoms: Optical Molasses. Seminar Proceedings Loyola University of Chicago Department of Chemistry.