



Andrew Mudd

Home Town: Rome, Georgia

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Education:

BS in Chemical Engineering (2006) from Georgia Tech

Current Position:

MS in Chemical Engineering Student and Graduate Researcher at Georgia Tech

Research Interests

- Atmospheric Chemistry, with emphasis on issues relating to global warming.
- Energy generation, with emphasis on issues relating to fuel cells and alternative energy sources such as nuclear fusion and nuclear fission.
- Production of fuel grade ethanol as an alternative to gasoline.

Previous and Ongoing Research Projects

Wine Research Group, Georgia Tech, 2005-Present

- Gas Phase Kinetics For Reactions of Atmospheric Importance

Study of the temperature and pressure dependence of the rate coefficients for the reactions between atomic chlorine and selenium compounds. Done as part of a larger study covering a larger range of reactions. Utilized Laser Flash Photolysis – Resonance Fluorescence (LFP-RF) to compile reaction rate data.

Nenes Research Group, Georgia Tech, 2006-Present

- Cloud Chemistry Modeling

Studying chemistry-aerosol-cloud interactions in marine environments. I currently focus on the impact of organosulfur aqueous chemistry on the MS/NSS ratio and size distribution evolution of marine aerosols.