

L. Gregory Huey

Curriculum Vitae

7/17/2010

Huey, L. Gregory Professor
School of Earth and Atmospheric Sciences
Georgia Institute of Technology

Personal Data:

Born: 10/13/64, South Charleston, West Virginia

Employment History:

Teaching Assistant: General Chemistry Department of Chemistry University of Wisconsin-Madison	1987
Research Associate: Department of Chemistry University of Wisconsin-Madison	1987-1992
Teaching Assistant: Physiological Chemistry College of Medicine University of Wisconsin-Madison	1992
Postdoctoral Research Associate: Chemical Kinetics Group Aeronomy Laboratory, NOAA	1992-1995
Research Scientist II: Tropospheric Chemistry Group Aeronomy Laboratory, NOAA	1995-1999
Associate Professor of Atmospheric Science School of Earth and Atmospheric Sciences Georgia Institute of Technology	1999-present
Adjunct Assoc. Professor of Chemistry School of Chemistry and Biochemistry Georgia Institute of Technology	2000-present

Current Fields of Interest:

Atmospheric Chemistry
Analytical Chemistry
Ion Molecule Chemistry

Teaching Experience:

Semester, year	Course #	Course Title	# of students
Fall Semester, 1999	EAS 2750 A	Physics of the Weather	48
Spring Semester, 2000	EAS 6420	Atmospheric Chem. Inst.	6
Fall Semester, 2000	EAS 2750 A, C	Physics of the Weather	112
Fall Semester, 2001	EAS 2750 A	Physics of the Weather	62
Fall Semester, 2001	EAS 3601	Earth System Chemistry	11
Fall Semester, 2002	EAS 2750 A	Physics of the Weather	50
Spring Semester, 2003	EAS 3641	Atmos. Chem. Laboratory	12
Fall Semester, 2003	EAS 6420	Atmospheric Chem. Inst.	6
Fall Semester, 2003	EAS 8803	Intro. to Atmos. and Aqueous Chemistry	6
Fall Semester, 2004	EAS 1600	Intro to Environ. Sci.	123
Fall Semester, 2004	EAS 8803	Intro. to Atmos. and Aqueous Chemistry	8
Fall Semester, 2005	EAS 1600	Intro to Environ Sci.	298
Fall Semester, 2005	EAS 8803	Intro. to Atmos. and Aqueous Chemistry	8
Fall Semester, 2006	EAS 1600	Intro to Environ Sci.	308
Fall Semester, 2006	EAS 6405	Intro. to Atmos. and Aqueous Chemistry	8
Fall Semester, 2007	EAS 1600	Intro to Environ Sci.	312
Fall Semester, 2007	EAS 1600HP	Intro to Environ Sci.	14
Fall Semester, 2008	EAS 1600	Intro to Environ Sci.	312
Fall Semester, 2008	EAS 1600HP	Intro to Environ Sci.	12
Fall Semester, 2009	EAS 1600	Intro to Environ Sci.	328
Fall Semester, 2009	EAS 2750	Physics of the Weather.	22

Refereed Publications:

A) Published
(Huey group graduate and undergraduate student's names are in *italics*)

- 1) Warneke, C., J. A. de Gouw, L. Del Negro, J. Brioude, S. McKeen, H. Stark, W. C. Kuster, P. D. Goldan, M. Trainer, F. C. Fehsenfeld, C. Wiedinmyer, A. B. Guenther, A. Hansel, A. Wisthaler, E. Atlas, J. S. Holloway, T. B. Ryerson, J. Peischl, L. G. Huey, and A. T. C. Hanks (2010), Biogenic emission measurement and inventories determination of biogenic emissions in the eastern United States and Texas and comparison with biogenic emission inventories, *J. Geophys. Res.-Atmos.*, 115.
- 2) Oppenheimer, C., P. Kyle, F. Eisele, J. Crawford, G. Huey, D. Tanner, S. Kim, L. Mauldin, D. Blake, A. Beyersdorf, M. Buhr, and D. Davis (2010), Atmospheric chemistry of an Antarctic volcanic plume, *J. Geophys. Res.-Atmos.*, 115.
- 3) Mauldin, R., E. Kosciuch, F. Eisele, G. Huey, D. Tanner, S. Sjostedt, D. Blake, G. Chen, J.

- Crawford, and D. Davis (2010), South Pole Antarctica observations and modeling results: New insights on HO_x radical and sulfur chemistry, *Atmos. Environ.*, *44*(4), 572-581.
- 4) Adhikary, B., G. R. Carmichael, S. Kulkarni, C. Wei, Y. Tang, A. D'Allura, M. Mena-Carrasco, D. G. Streets, Q. Zhang, R. B. Pierce, J. A. Al-Saadi, L. K. Emmons, G. G. Pfister, M. A. Avery, J. D. Barrick, D. R. Blake, W. H. Brune, R. C. Cohen, J. E. Dibb, A. Fried, B. G. Heikes, L. G. Huey, D. W. O'Sullivan, G. W. Sachse, R. E. Shetter, H. B. Singh, T. L. Campos, C. A. Cantrell, F. M. Flocke, E. J. Dunlea, J. L. Jimenez, A. J. Weinheimer, J. D. Crouse, P. O. Wennberg, J. J. Schauer, E. A. Stone, D. A. Jaffe, and D. R. Reidmiller (2010), A regional scale modeling analysis of aerosol and trace gas distributions over the eastern Pacific during the INTEX-B field campaign, *Atmos. Chem. Phys.*, *10*(5), 2091-2115.
 - 5) McNaughton, C. S., A. D. Clarke, V. Kapustin, Y. Shinozuka, S. G. Howell, B. E. Anderson, E. Winstead, J. Dibb, E. Scheuer, R. C. Cohen, P. Wooldridge, A. Perring, L. G. Huey, S. Kim, J. L. Jimenez, E. J. Dunlea, P. F. DeCarlo, P. O. Wennberg, J. D. Crouse, A. J. Weinheimer, and F. Flocke (2009), Observations of heterogeneous reactions between Asian pollution and mineral dust over the Eastern North Pacific during INTEX-B, *Atmos. Chem. Phys.*, *9*(21), 8283-8308.
 - 6) Mao, J., X. Ren, W. H. Brune, J. R. Olson, J. H. Crawford, A. Fried, L. G. Huey, R. C. Cohen, B. Heikes, H. B. Singh, D. R. Blake, G. W. Sachse, G. S. Diskin, S. R. Hall, and R. E. Shetter (2009), Airborne measurement of OH reactivity during INTEX-B, *Atmos. Chem. Phys.*, *9*(1), 163-173.
 - 7) Lee, C., R. V. Martin, A. van Donkelaar, G. O'Byrne, N. Krotkov, A. Richter, L. G. Huey, and J. S. Holloway (2009), Retrieval of vertical columns of sulfur dioxide from SCIAMACHY and OMI: Air mass factor algorithm development, validation, and error analysis, *J. Geophys. Res.-Atmos.*, *114*.
 - 8) Kim, H. S., C. H. Song, R. S. Park, G. Huey, and J. Y. Ryu (2009), Investigation of ship-plume chemistry using a newly-developed photochemical/dynamic ship-plume model, *Atmos. Chem. Phys.*, *9*(19), 7531-7550.
 - 9) Fast, J., A. C. Aiken, J. Allan, L. Alexander, T. Campos, M. R. Canagaratna, E. Chapman, P. F. DeCarlo, B. de Foy, J. Gaffney, J. de Gouw, J. C. Doran, L. Emmons, A. Hodzic, S. C. Herndon, G. Huey, J. T. Jayne, J. L. Jimenez, L. Kleinman, W. Kuster, N. Marley, L. Russell, C. Ochoa, T. B. Onasch, M. Pekour, C. Song, I. M. Ulbrich, C. Warneke, D. Welsh-Bon, C. Wiedinmyer, D. R. Worsnop, X. Y. Yu, and R. Zaveri (2009), Evaluating simulated primary anthropogenic and biomass burning organic aerosols during MILAGRO: implications for assessing treatments of secondary organic aerosols, *Atmos. Chem. Phys.*, *9*(16), 6191-6215.
 - 10) de Gouw, J. A., D. Welsh-Bon, C. Warneke, W. C. Kuster, L. Alexander, A. K. Baker, A. J. Beyersdorf, D. R. Blake, M. Canagaratna, A. T. Celada, L. G. Huey, W. Junkermann, T. B. Onasch, A. Salcido, S. J. Sjostedt, A. P. Sullivan, D. J. Tanner, O. Vargas, R. J. Weber, D. R. Worsnop, X. Y. Yu, and R. Zaveri (2009), Emission and chemistry of organic carbon in the gas and aerosol phase at a sub-urban site near Mexico City in March 2006 during the MILAGRO study, *Atmos. Chem. Phys.*, *9*(10), 3425-3442.
 - 11) de Foy, B., N. A. Krotkov, N. Bei, S. C. Herndon, L. G. Huey, A. P. Martinez, L. G. Ruiz-Suarez, E. C. Wood, M. Zavala, and L. T. Molina (2009), Hit from both sides: tracking industrial and volcanic plumes in Mexico City with surface measurements and OMI SO₂ retrievals during the MILAGRO field campaign, *Atmos. Chem. Phys.*, *9*(24), 9599-9617.
 - 12) Zhang, L., D. J. Jacob, K. F. Boersma, D. A. Jaffe, J. R. Olson, K. W. Bowman, J. R. Worden, A. M. Thompson, M. A. Avery, R. C. Cohen, J. E. Dibb, F. M. Flock, H. E. Fuelberg, L. G. Huey, W. W. McMillan, H. B. Singh, and A. J. Weinheimer (2008), Transpacific transport of ozone pollution and the effect of recent Asian emission increases on air quality in North America: an integrated analysis using satellite, aircraft, ozonesonde, and surface observations, *Atmos. Chem.*

- Phys.*, 8(20), 6117-6136.
- 13) Wang, Y. H., Y. Choi, T. Zeng, D. Davis, M. Buhr, L. G. Huey, and W. Neff (2008), Assessing the photochemical impact of snow NO_x emissions over Antarctica during ANTICI 2003 (reprinted from *Atmospheric Environment*, vol 41, pg 3944-3958, 2007), *Atmos. Environ.*, 42(12), 2849-2863.
 - 14) van Donkelaar, A., R. V. Martin, W. R. Leitch, A. M. Macdonald, T. W. Walker, D. G. Streets, Q. Zhang, E. J. Dunlea, J. L. Jimenez, J. E. Dibb, L. G. Huey, R. Weber, and M. O. Andreae (2008), Analysis of aircraft and satellite measurements from the Intercontinental Chemical Transport Experiment (INTEX-B) to quantify long-range transport of East Asian sulfur to Canada, *Atmos. Chem. Phys.*, 8(11), 2999-3014.
 - 15) Thornhill, K. L., G. Chen, J. Dibb, C. E. Jordan, A. Omar, E. L. Winstead, G. Schuster, A. Clarke, C. McNaughton, E. Scheuer, D. Blake, G. Sachse, L. G. Huey, H. B. Singh, and B. E. Anderson (2008), The impact of local sources and long-range transport on aerosol properties over the northeast US region during INTEX-NA, *J. Geophys. Res.-Atmos.*, 113(D8).
 - 16) Talbot, R., H. Mao, E. Scheuer, J. Dibb, M. Avery, E. Browell, G. Sachse, S. Vay, D. Blake, G. Huey, and H. Fuelberg (2008), Factors influencing the large-scale distribution of Hg degrees in the Mexico City area and over the North Pacific, *Atmos. Chem. Phys.*, 8(7), 2103-2114.
 - 17) Smith, J. N., M. J. Dunn, T. M. VanReken, K. Iida, M. R. Stolzenburg, P. H. McMurry, and L. G. Huey (2008), Chemical composition of atmospheric nanoparticles formed from nucleation in Tecamac, Mexico: Evidence for an important role for organic species in nanoparticle growth, *Geophys. Res. Lett.*, 35(4).
 - 18) Ren, X. R., J. R. Olson, J. H. Crawford, W. H. Brune, J. Q. Mao, R. B. Long, Z. Chen, G. Chen, M. A. Avery, G. W. Sachse, J. D. Barrick, G. S. Diskin, L. G. Huey, A. Fried, R. C. Cohen, B. Heikes, P. O. Wennberg, H. B. Singh, D. R. Blake, and R. E. Shetter (2008), HO_x chemistry during INTEX-A 2004: Observation, model calculation, and comparison with previous studies, *J. Geophys. Res.-Atmos.*, 113(D5).
 - 19) Nunnermacker, L. J., J. B. Weinstein-Lloyd, B. Hillery, B. Giebel, L. I. Kleinman, S. R. Springston, P. H. Daum, J. Gaffney, N. Marley, and G. Huey (2008), Aircraft and ground-based measurements of hydroperoxides during the 2006 MILAGRO field campaign, *Atmos. Chem. Phys.*, 8(24), 7619-7636.
 - 20) Hennigan, C. J., A. P. Sullivan, C. I. Fountoukis, A. Nenes, A. Hecobian, O. Vargas, R. E. Peltier, A. T. C. Hanks, L. G. Huey, B. L. Lefer, A. G. Russell, and R. J. Weber (2008), On the volatility and production mechanisms of newly formed nitrate and water soluble organic aerosol in Mexico City, *Atmos. Chem. Phys.*, 8(14), 3761-3768.
 - 21) Fried, A., J. R. Olson, J. G. Walega, J. H. Crawford, G. Chen, P. Weibring, D. Richter, C. Roller, F. Tittel, M. Porter, H. Fuelberg, J. Halland, T. H. Bertram, R. C. Cohen, K. Pickering, B. G. Heikes, J. A. Snow, H. W. Shen, D. W. O'Sullivan, W. H. Brune, X. R. Ren, D. R. Blake, N. Blake, G. Sachse, G. S. Diskin, J. Podolske, S. A. Vay, R. E. Shetter, S. R. Hall, B. E. Anderson, L. Thornhill, A. D. Clarke, C. S. McNaughton, H. B. Singh, M. A. Avery, G. Huey, S. Kim, and D. B. Millet (2008), Role of convection in redistributing formaldehyde to the upper troposphere over North America and the North Atlantic during the summer 2004 INTEX campaign, *J. Geophys. Res.-Atmos.*, 113(D17).
 - 22) Eisele, F., D. D. Davis, D. Helmig, S. J. Oltmans, W. Neff, G. Huey, D. Tanner, G. Chen, J. Crawford, R. Arimoto, M. Buhr, L. Mauldin, M. Hutterli, J. Dibb, D. Blake, S. B. Brooks, B. Johnson, J. M. Roberts, Y. H. Wang, D. Tan, and F. Flocke (2008), Antarctic Tropospheric Chemistry Investigation (ANTCI) 2003 overview, *Atmos. Environ.*, 42(12), 2749-2761.

- 23) Davis, D. D., J. Seelig, G. Huey, J. Crawford, G. Chen, Y. H. Wang, M. Buhr, D. Helmig, W. Neff, D. Blake, R. Arimoto, and F. Eisele (2008), A reassessment of Antarctic plateau reactive nitrogen based on ANTO 2003 airborne and ground based measurements, *Atmos. Environ.*, 42(12), 2831-2848.
- 24) Blake, N. J., J. E. Campbell, S. A. Vay, H. E. Fuelberg, L. G. Huey, G. Sachse, S. Meinardi, A. Beyersdorf, A. Baker, B. Barletta, J. Midyett, L. Doezema, M. Kamboures, J. McAdams, B. Novak, F. S. Rowland, and D. R. Blake (2008), Carbonyl sulfide (OCS): Large-scale distributions over North America during INTEX-NA and relationship to CO₂, *J. Geophys. Res.-Atmos.*, 113(D9).
- 25) Arimoto, R., T. Zeng, D. Davis, Y. Wang, H. Khaing, C. Nesbit, and G. Huey (2008), Concentrations and sources of aerosol ions and trace elements during ANTCI-2003, *Atmos. Environ.*, 42(12), 2864-2876.
- 26) Wang, Y. H., Y. Choi, T. Zeng, D. Davis, M. Buhr, L. G. Huey, and W. Neff (2007), Assessing the photochemical impact of snow NO_x emissions over Antarctica during ANTCI 2003, *Atmos. Environ.*, 41(19), 3944-3958.
- 27) Tang, Y. H., G. R. Carmichael, N. Thongboonchoo, T. F. Chai, L. W. Horowitz, R. B. Pierce, J. A. Al-Saadi, G. Pfister, J. M. Vukovich, M. A. Avery, G. W. Sachse, T. B. Ryerson, J. S. Holloway, E. L. Atlas, F. M. Flocke, R. J. Weber, L. G. Huey, J. E. Dibb, D. G. Streets, and W. H. Brune (2007), Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models, *J. Geophys. Res.-Atmos.*, 112(D10).
- 28) Sjostedt, S. J., L. G. Huey, D. J. Tanner, J. Peischl, G. Chen, J. E. Dibb, B. Lefer, M. A. Hutterli, A. J. Beyersdorf, N. J. Blake, D. R. Blake, D. Sueper, T. Ryerson, J. Burkhardt, and A. Stohl (2007), Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003, *Atmos. Environ.*, 41(24), 5122-5137.
- 29) Singh, H. B., L. Salas, D. Herlth, R. Kolyer, E. Czech, M. Avery, J. H. Crawford, R. B. Pierce, G. W. Sachse, D. R. Blake, R. C. Cohen, T. H. Bertram, A. Perring, P. J. Wooldridge, J. Dibb, G. Huey, R. C. Hudman, S. Turquety, L. K. Emmons, F. Flocke, Y. Tang, G. R. Carmichael, and L. W. Horowitz (2007), Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere, *J. Geophys. Res.-Atmos.*, 112(D12).
- 30) Nowak, J. B., J. A. Neuman, K. Kozai, L. G. Huey, D. J. Tanner, J. S. Holloway, T. B. Ryerson, G. J. Frost, S. A. McKeen, and F. C. Fehsenfeld (2007), A chemical ionization mass spectrometry technique for airborne measurements of ammonia, *J. Geophys. Res.-Atmos.*, 112(D10).
- 31) Liang, Q., L. Jaegle, R. C. Hudman, S. Turquety, D. J. Jacob, M. A. Avery, E. V. Browell, G. W. Sachse, D. R. Blake, W. Brune, X. Ren, R. C. Cohen, J. E. Dibb, A. Fried, H. Fuelberg, M. Porter, B. G. Heikes, G. Huey, H. B. Singh, and P. O. Wennberg (2007), Summertime influence of Asian pollution in the free troposphere over North America, *J. Geophys. Res.-Atmos.*, 112(D12).
- 32) Kim, S., L. G. Huey, R. E. Stickel, D. J. Tanner, J. H. Crawford, J. R. Olson, G. Chen, W. H. Brune, X. Ren, R. Leshner, P. J. Wooldridge, T. H. Bertram, A. Perring, R. C. Cohen, B. L. Lefer, R. E. Shetter, M. Avery, G. Diskin, and I. Sokolik (2007), Measurement of HO₂NO₂ in the free troposphere during the intercontinental chemical transport experiment - North America 2004, *J. Geophys. Res.-Atmos.*, 112(D12).
- 33) Huey, L. G. (2007), Measurement of trace atmospheric species by chemical ionization mass spectrometry: Speciation of reactive nitrogen and future directions, *Mass Spectrom. Rev.*, 26(2), 166-184.

- 34) Grannas, A. M., A. E. Jones, J. Dibb, M. Ammann, C. Anastasio, H. J. Beine, M. Bergin, J. Bottenheim, C. S. Boxe, G. Carver, G. Chen, J. H. Crawford, F. Domine, M. M. Frey, M. I. Guzman, D. E. Heard, D. Helmig, M. R. Hoffmann, R. E. Honrath, L. G. Huey, M. Hutterli, H. W. Jacobi, P. Klan, B. Lefer, J. McConnell, J. Plane, R. Sander, J. Savarino, P. B. Shepson, W. R. Simpson, J. R. Sodeau, R. von Glasow, R. Weller, E. W. Wolff, and T. Zhu (2007), An overview of snow photochemistry: evidence, mechanisms and impacts, *Atmos. Chem. Phys.*, 7(16), 4329-4373.
- 35) Chen, G., L. G. Huey, J. H. Crawford, J. R. Olson, M. A. Hutterli, S. Sjostedt, D. Tanner, J. Dibb, B. Lefer, N. Blake, D. Davis, and A. Stohl (2007), An assessment of the polar HOx photochemical budget based on 2003 Summit Greenland field observations, *Atmos. Environ.*, 41(36), 7806-7820.
- 36) Campbell, J. E., G. R. Carmichael, Y. Tang, T. Chai, S. A. Vay, Y. H. Choi, G. W. Sachse, H. B. Singh, J. L. Schnoor, J. Woo, J. M. Vukovich, D. G. Streets, L. G. Huey, and C. O. Stanier (2007), Analysis of anthropogenic CO₂ signal in ICARTT using a regional chemical transport model and observed tracers, *Tellus Ser. B-Chem. Phys. Meteorol.*, 59(2), 199-210.
- 37) Beyersdorf, A. J., N. J. Blake, A. L. Swanson, S. Meinardi, J. E. Dibb, S. Sjostedt, G. Huey, B. Lefer, F. S. Rowland, and D. R. Blake (2007), Hydroxyl concentration estimates in the sunlit snowpack at Summit, Greenland, *Atmos. Environ.*, 41(24), 5101-5109.
- 38) Bertram, T. H., A. E. Perring, P. J. Wooldridge, J. D. Crouse, A. J. Kwan, P. O. Wennberg, E. Scheuer, J. Dibb, M. Avery, G. Sachse, S. A. Vay, J. H. Crawford, C. S. McNaughton, A. Clarke, K. E. Pickering, H. Fuelberg, G. Huey, D. R. Blake, H. B. Singh, S. R. Hall, R. E. Shetter, A. Fried, B. G. Heikes, and R. C. Cohen (2007), Direct measurements of the convective recycling of the upper troposphere, *Science*, 315(5813), 816-820.
- 39) Arnold, J. R., B. E. Hartsell, W. T. Luke, S. M. R. Ullah, P. K. Dasgupta, L. G. Huey, and P. Tate (2007), Field test of four methods for gas-phase ambient nitric acid, *Atmos. Environ.*, 41(20), 4210-4226.
- 40) Turnipseed, A. A., L. G. Huey, E. Nemitz, R. Stickel, J. Higgs, D. J. Tanner, D. L. Slusher, J. P. Sparks, F. Flocke, and A. Guenther (2006), Eddy covariance fluxes of peroxyacetyl nitrates (PANs) and NO_y to a coniferous forest, *J. Geophys. Res.-Atmos.*, 111(D9).
- 41) Nowak, J. B., L. G. Huey, A. G. Russell, D. Tian, J. A. Neuman, D. Orsini, S. J. Sjostedt, A. P. Sullivan, D. J. Tanner, R. J. Weber, A. Nenes, E. Edgerton, and F. C. Fehsenfeld (2006), Analysis of urban gas phase ammonia measurements from the 2002 Atlanta Aerosol Nucleation and Real-Time Characterization Experiment (ANARChE), *J. Geophys. Res.-Atmos.*, 111(D17).
- 42) Hennigan, C. J., S. Sandholm, S. Kim, R. E. Stickel, L. G. Huey, and R. J. Weber (2006), Influence of Ohio River valley emissions on fine particle sulfate measured from aircraft over large regions of the eastern United States and Canada during INTEX-NA, *J. Geophys. Res.-Atmos.*, 111(D24).
- 43) McMurry, P. H., M. Fink, H. Sakurai, M. R. Stolzenburg, R. L. Mauldin, J. Smith, F. Eisele, K. Moore, S. Sjostedt, D. Tanner, L. G. Huey, J. B. Nowak, E. Edgerton, and D. Voisin (2005), A criterion for new particle formation in the sulfur-rich Atlanta atmosphere, *J. Geophys. Res.-Atmos.*, 110(D22).
- 44) Chen, G., L. G. Huey, M. Trainer, D. Nicks, J. Corbett, T. Ryerson, D. Parrish, J. A. Neuman, J. Nowak, D. Tanner, J. Holloway, C. Brock, J. Crawford, J. R. Olson, A. Sullivan, R. Weber, S. Schauffler, S. Donnelly, E. Atlas, J. Roberts, F. Flocke, G. Hubler, and F. Fehsenfeld (2005), An investigation of the chemistry of ship emission plumes during ITCT 2002, *J. Geophys. Res.-Atmos.*, 110(D10).

- 45) Tang, Y. H., G. R. Carmichael, L. W. Horowitz, I. Uno, J. H. Woo, D. G. Streets, D. Dabdub, G. Kurata, A. Sandu, J. Allan, E. Atlas, F. Flocke, L. G. Huey, R. O. Jakoubek, D. B. Millet, P. K. Quinn, J. M. Roberts, D. R. Worsnop, A. Goldstein, S. Donnelly, S. Schauffler, V. Stroud, K. Johnson, M. A. Avery, H. B. Singh, and E. C. Apel (2004), Multiscale simulations of tropospheric chemistry in the eastern Pacific and on the US West Coast during spring 2002, *J. Geophys. Res.-Atmos.*, 109(D23).
- 46) Slusher, D. L., L. G. Huey, D. J. Tanner, F. M. Flocke, and J. M. Roberts (2004), A thermal dissociation-chemical ionization mass spectrometry (TD-CIMS) technique for the simultaneous measurement of peroxyacyl nitrates and dinitrogen pentoxide, *J. Geophys. Res.-Atmos.*, 109(D19).
- 47) Nowak, J. B., D. D. Parrish, J. A. Neuman, J. S. Holloway, O. R. Cooper, T. B. Ryerson, D. K. Nicks, F. Flocke, J. M. Roberts, E. Atlas, J. A. de Gouw, S. Donnelly, E. Dunlea, G. Hubler, L. G. Huey, S. Schauffler, D. J. Tanner, C. Warneke, and F. C. Fehsenfeld (2004), Gas-phase chemical characteristics of Asian emission plumes observed during ITCT 2K2 over the eastern North Pacific Ocean, *J. Geophys. Res.-Atmos.*, 109(D23).
- 48) Mauldin, R. L., E. Kosciuch, B. Henry, F. L. Eisele, R. Shetter, B. Lefer, G. Chen, D. Davis, G. Huey, and D. Tanner (2004), Measurements of OH, HO₂+RO₂, H₂SO₄, and MSA at the south pole during ISCAT 2000, *Atmos. Environ.*, 38(32), 5423-5437.
- 49) Huey, L. G., D. J. Tanner, D. L. Slusher, J. E. Dibb, R. Arimoto, G. Chen, D. Davis, M. P. Buhr, J. B. Nowak, R. L. Mauldin, F. L. Eisele, and E. Kosciuch (2004), CIMS measurements of HNO₃ and SO₂ at the South Pole during ISCAT 2000, *Atmos. Environ.*, 38(32), 5411-5421.
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- 82) Bartz, J. A., T. M. Barnhart, D. B. Galloway, L. G. Huey, T. Glenewinkelmeyer, R. J. McMahon, and F. F. Crim (1993), GAS-PHASE PHOTODISSOCIATION OF (ETA-5-CYCLOPENTADIENYL)FE(CO)₂R AND (ETA-5-INDENYL)FE(CO)₂R IN A MOLECULAR-BEAM - COMPETITIVE LOSS OF ALKYL RADICAL AND ALKENE DETECTED BY VACUUM-ULTRAVIOLET IONIZATION AND TIME-OF-FLIGHT MASS-SPECTROMETRY, *J. Am. Chem. Soc.*, *115*(18), 8389-8395.

B) Accepted for Publication

- 1) Padro, L.T., D. Tkacik, T. Lathem, C.J. Hennigan, A.P. Sullivan, R.J. Weber, L.G. Huey, A. Nenes (2010), Investigation of cloud condensation nuclei relevant properties and droplet growth kinetics of water-soluble aerosol fraction in Mexico City, *J. Geophys. Res.-Atmos.*, *115*, .

C) Submitted for Publication

D) In Preparation

Liao, J., H. Sihler, L.G. Huey, J.A. Neuman, D.J. Tanner, H. Sihler, U. Friess, U. Platt, F.M. Flocke, J.J. Orlando, P.B. Shepson, H.J. Beine, A. Weinheimer, S. J. Sjostedt, J.B. Nowak, D. Knapp, (2010)
A comparison of Arctic BrO measurements by a chemical ionization mass spectrometer (CIMS) and a long path differential optical absorption spectrometer (LP-DOAS), *J. Geophys. Res.-Atmos*

Knapp, T.N., P.B. Shepson, J.D. Fuentes, M.E. Baldwin, R.J. Salawitch, A. Richter, J. Liao, L.G. Huey, W.R. Simpson, J.W. Bottenheim (2010) Column BrO Events and the Relative Influence of the Troposphere and the Stratosphere, *Geophys. Res. Lett.*,

Non-Refereed Publications:

None

Books:

None

Research Grants and Contracts:

Funded

a) Development of a CIMS for Measurement of OH and H₂SO₄ For the NOAA P3, NOAA Climate and Global Change, 9/00-8/2003, 560k\$. Contract # NA06GP0410

b) Measurement of OH, H₂SO₄ and HNO₃ for PROPHET 2001, NSF – Atmospheres, 9/1/01-8/31/03, 220k\$. Contract # ATM-0115656

c) Development of a Chemical Ionization Technique for Measuring Atmospheric Pernitric Acid Concentrations, NASA – Earth System Science Fellowship, 9/01 – 8/04, 66 k\$. Contract # NGT5-30384 (NASA fellowship for Darlene Slusher).

d) Collaborative Research: Impact of Snow Photochemistry on Atmospheric Radical Concentrations at Summit, Greenland, NSF – Office of Polar Programs – Arctic Natural Science – 9/02-8/05, 357 k\$.

e) Collaborative Research: Antarctic Troposphere Chemistry Investigation, NSF – Office of Polar Programs – Antarctic – 5/03-4/07, 356 k\$. (Huey group portion of proposal, Eisele PI)

f) Deployment of CIMS during the BRACE HNO₃ Intercomparison, Florida Department of Environmental Protection – 7/03-6/04, 46 k\$.

g) Development of a CIMS for fast time response measurements of PAN, PPN, MPAN, and N₂O₅, NASA – GTE – 5/03-4/05, 410 k\$.

h) Construction of a NO_x instrument for the New England Air Quality Study, U. of N.H., 2/04-12/04, 87 k\$.

- i) Measurement of OH, HO₂+RO₂, H₂SO₄, and CCN from NOAA P3, NOAA – OGP, 7/30/04-8/31/07, 555 k\$.
- j) A CIMS for measuring inorganic acids and VOCs on the NCAR G-V (HIAPER), NSF, 645 k\$, 9/04-8/07.
- k) Construction of a NO_x instrument for the New England air quality study U. of N.H., 3/05-12/05, 96 k\$.
- l) CIMS Measurements of HO₂NO₂, SO₂, and PANs from NASA Aircraft during AURA validation activities, NASA – Trop. Chem., 550 k\$, 9/05-8/08.
- m) Deployment of the Georgia Tech Mobile Air Quality Laboratory (MAQL) during MIRAGE-MEX, NSF-Atm., 510 k\$, 9/05-8/31/08. (Weber, Wang, and Nenes co-PIs)
- n) Collaboration to Develop a Chemical Ionization Mass Spectrometer for Measurement of SO₂, HNO₃, and HO₂NO₂ from HALO, Max Plank Institute – Mainz, 199 k\$, 8/05 – 9/07.
- o) Measurement of OH and HO₂+RO₂ at Halley Bay, British Antarctic Survey, 110 k\$, 6/06-6/08.
- p) Interactions of HO_x and Halogens at Summit, Greenland, NSF-ATM, 320 k\$ 8/06-7/09.
- q) Collaboration to Develop a Chemical Ionization Mass Spectrometer for Measurement of SO₂, HNO₃, and HO₂NO₂ from British Research Aircraft – University of Manchester, 192 k\$, 7/07– 7/09.
- r) Measurement of Atmospheric Trace Gases from the NASA DC-8 during ARCTAS, NASA, 760 k\$, 1/08-12/12. (funded jointly by NSF (first year as supplement to MC grant) out years by NASA.
- s) Collaboration to Develop two Chemical Ionization Mass Spectrometers for Measurement of HNO₃ and HCl from German Research Aircraft, DLR, 390 k\$, 3/1/08-3/1/11
- t) Measurements of halogens at Barrow, Alaska during OASIS, UC-Davis (NSF – Biogeochemistry prime), 200 k\$, 11/1/08-10/31/10.
- u) The impact of halogen chemistry on nitrate isotopes in ice cores, NSF-OPP, 280 k\$, 11/09-10/12.
- v) The Southeast Mercury Consortium – Year 1, NOAA via sub with Florida State University, 120k\$, 11/09 – 5/11.

Submitted

- w) The Southeast Mercury Consortium – Year 1, NOAA via sub with Florida State University, 120k\$, 11/09 – 5/11.

Meetings and Symposia:

AGU Fall Meeting 1993-2009 – contributed/invited

IPY, Osolo, 6/2010

Telluride Conference on Atmospheric Chemistry 8/2010

NOAA, Chemical Sciences Division, 2/2010

University of Wisconsin, Chemistry Seminar 2/2010

Michigan Tech 10/2008

International Proton Transfer Mass Spec. Conference 01/07- invited

Chemistry Department Seminar, Kent State University, 2/06 - invited

Seminar at National Institutes of Aerospace, NASA Langley, 2/06 - invited

Juelich Research Center, Juelich Germany, 10/17/06 - invited

Analytical Chemistry Seminar, Univ. of Colorado, 10/17/05 - invited

ACCENT Meeting on Atmospheric Radicals 4/05, University of Leeds - invited.

IGAC Meeting, Christ Church, NZ – 9/05 – contributed.

Physical Chemistry Seminar, Univ of Ga., 9/03 - invited

Aeronomy Lab Seminar, NOAA, 11/02 - invited

Environmental Engineering Seminar, Arizona State, 5/02 - invited

Asilomar Conference on Mass Spectrometry, 10/01 - invited

“Mass Spectrometry out of this World”, FACS, 10/01 – invited

“Future Measurement Needs”, NASA GTE Workshop, 10/01 - invited

Aeronomy Lab Seminar, NOAA, 9/01 - invited

“Analytical Atmospheric Chemistry”, Telluride Conference, 8/00 – invited

Analytical Chemistry Seminar, Purdue University, 10/99 - invited

“Uncertainties in Tropospheric Chemistry”, Telluride Conference, 8/98 – invited

“Atmospheric Chemistry/New Faces in Ion Chemistry”, Reactions of Gaseous Ions Gordon Conference, 2/97 - invited

“Workshop on Applications of Mass Spectrometers to Environmental Chemistry” American Society of Mass Spectrometry Annual Meeting, 6/97 - invited

“New Frontiers in Measurement”, Atmospheric Chemistry Gordon Conference, 6/97 - invited

Committees and Service:

EAS

Undergraduate Curriculum Committee (1999-200)

Graduate Admission Committee (1999-2002, 2009-)

Chairman, Graduate Studies Committee (2000-2003)
Faculty Search Committee (2001-2002, 2005-2006)
COS Machine Shop Committee (2002 –2005)
Graduate Studies Committee (2003-2004)
DOTE (2004-2008)
Promotion and Tenure Committee (2004-present)
EAS Chair's Advisory Committee (2005-2007)

Institute

COS Dean Search Committee (2006-2007)
Institute Executive Committee (2007-2009)
Selection committee for Packard Fellowship for Science and Engineering (2008)

National

Signature and Interferent Collection Science Panel, Homeland Security Chemical and Biological Weapons Program (4/07 – 4/09)
EPA Review Panel Climate Change and Air Quality (2008-2009)
University of Houston Atmospheric Sciences Consulting Committee (2010)

Honors, Awards, and Recogintions:

Camille and Henry Dreyfuss Foundation – Environmental Chemistry Postdoctoral Fellow (joint w/ D. Tan and P. Wine) 8/03.
Outstanding Scientific Paper Award, Office of Oceanic and Atmospheric Research, NOAA, 4/03
Outstanding Scientific Paper Award, Office of Oceanic and Atmospheric Research, NOAA, 4/00

Membership in Professional and Honor Societies:

American Geophysical Union
American Physical Society
American Society of Mass Spectrometrists
Phi Beta Kappa

Professional Activities

Journal Review – J. of Geophysical Research, Geophysical Research Letters, J. Phys. Chem., J. Chem. Phys., Chem. Phys. Lett., Env. Sci. and Tech., J. of Air and Waste Management, Int. J. Mass Spect. and Ion Processes, Analytical Chem., Rapid Comm. In Mass Spec., Environmental Chemistry, Atm. Chemistry and Physics, Env. Research Letters.

Proposal Review – NASA – GTE, NASA – NIP, NOAA – Climate and Global Change, NOAA – SBIR, NSF – Physical Meteorology, NSF – Atmospheres, NSF – Polar Programs, NSF-Career, NSF-Oceans, Petroleum Research Fund., National Environmental Council – United Kingdom.

Workshops and Panels

NASA Upper Atmospheric Selection Panel (2009)
NSF Antarctic Program Selection Panel (2009)
NASA UAR Selection Panel (10/08)
Future NASA Missions Planning Workshop (3/07)
Deep Convection, Clouds, and Chemistry (DC3) Planning Workshop (4/06)
Selection Panel, NASA New Investigator Program, 03/04
Future Measurement Needs Workshop, NASA GTE, 10/01
Future Measurement Needs Workshop, NASA GTE, 5/02

Science Teams

North Atlantic Regional Experiment 1997 – NOAA
Southern Oxidant Study 1999 – NOAA
Texas Air Quality Study 2000 – NOAA and State of Texas
Investigation of Sulfur Chemistry in the Antarctic Troposphere 2000– NSF Polar Programs – Antarctic
Intercontinental Transport and Chemical Transformation 2002 – NOAA
Atlanta Nucleation and Regional Chemistry Experiment 2002 – DOE and Georgia Power
Greenland Snow Photochemistry Experiment 2003 and 2004 – NSF Polar Programs – Arctic
Chemical Loss and Transformation in Canopies 2003 – NSF and EPA
Bay Area Regional Atmospheric Chemistry Experiment 2003 – Florida Dep. of Env. Protection
Antarctic Tropospheric Chemistry Investigation 2003 – NSF Polar Programs - Antarctic
New England Air Quality Study 2004 – NOAA
Intercontinental Transport Experiment 2004 – NASA
Intercontinental Transport Experiment 2006 – NASA
MIRAGE 2006 – NSF
Texas Air Quality Study 2006 – NOAA
Greenland Halogen Chemistry Experiment 2007 – NSF
CARE Beijing 2007 – NSF
ARCTAS – 2008
OASIS -2009
Grand Bay Mercury Experiment -2010
Greenland – Nitrogen Ice Core Experiment - 2010

Graduate Students Supervised:

Jin Liao, current
Eric Parker, current (shared with Rodney Weber)
Eva Land, current (shared with Mike Bergin)
Anne Case, 2006-2008 Ph.D. (Assist. Prof. U. of Louisiana, Monroe)
Sae Wung Kim, 2003-2008, Ph.D. (Res. Sci., NCAR)
Andrea Thompson, M.S. w/ thesis (science journalist)
Steve Sjostedt, 2001-2006, Ph.D. (Postdoc at Univ. of Toronto)
Darlene Slusher, 2000-2003, Ph.D. (Assist. Prof. Coastal Carolina)
Venus Dookwah, 2001-2003 (now with P. Wine)

Undergraduate Students Supervised:

Jeff Shook, current
Danja Williams, current
Zach Lune, current
Tony Cummings, 2007-2009
Bonnie Reichardt, 2007-2009
Ping Yang, 2008, current
Sean Sullivan, 2007-2008
Oscar Vargas, 2005- 2006 (Toyota)
Chris Argot, 2005-2006
Roy Wang, 2005
Grant Farmer 2004-2006
Steve Rieck, 2004-2005
Sarah Goodwin, 2003 (Colby College)
Jeff Peischl, 2002-2004 (NOAA, Aeronomy Lab)
Jessica Higgs, 2001-2003, 2005-06 B.S. (The Weather Channel)
Ken Delson, 2000-2001, (Grumman)
Sharon Pitteri, 2000 (Carleton College)
Brian Haman, 1999-2001 (Harris Electronics)

Jeff Perkins, 1999 – 2001

Postdoctoral Fellows Supervised:

Edeltraud Leibrock, 1997-1999

J. Andrew Neuman, 1997 (Staff Scientist, NOAA)

Research Faculty Supervised:

David Tanner 1999-present

Robert Stickel 2002 – 2010