

Resume: Joost de Gouw

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Professional Preparation

University of Utrecht, the Netherlands	MSc, Physics, 1990	
University of Utrecht, the Netherlands	PhD, Physics, 1994 (<i>cum laude</i>)	Prof. H.G.M. Heideman
JILA, Univ. of Colorado at Boulder	post-doc, 1994-1996	Dr. S.R. Leone
CIRES & NOAA Aeronomy Laboratory	post-doc, 1997-1998	Dr. C.J. Howard

Appointments

Research Physicist, National Oceanic and Atmospheric Administration, 2016-present
Adjoint Professor, Department of Chemistry & Biochemistry, University of Colorado, 2014-present
Fellow of CIRES, joint institute between NOAA and University of Colorado at Boulder, 2008-present
Senior Research Scientist: CIRES and NOAA Earth System Research Laboratory, 2006-2016
Research Scientist III: CIRES and NOAA Earth System Research Laboratory, 2001-2006
Research Professor: Institute for Marine and Atmospheric Research, University of Utrecht, the Netherlands, 1998-2001

Honors and Awards

Co-recipient, Colorado Governor's Award for High-Impact Research	2012 & 2014
CIRES Outstanding Performance Award	2007
Recipient of FOM Springplank fellowship	1998

Publications

Quantitative Summary (as of June 2016)

Number of publications	233
Number of citations	8739
H-index	51
Full list of publications at	http://www.researcherid.com/rid/A-9675-2008

Five Related Publications

Edwards, P. M. et al. (2014), High winter ozone pollution from carbonyl photolysis in an oil and gas basin, *Nature*, *514*, 351–354.

Warneke, C. et al. (2014), Volatile organic compound emissions from the oil and natural gas industry in the Uinta basin, Utah: point sources compared to ambient air composition, *Atmos. Chem. Phys.*, *14*, 10977–10988.

Koss, A. R. et al. (2015), Photochemical aging of volatile organic compounds associated with oil and natural gas extraction in the Uintah Basin, UT, during a wintertime ozone formation event, *Atmos. Chem. Phys.*, *15*, 5727–5741.

Yuan, B., A. Koss, C. Warneke, J. B. Gilman, B. M. Lerner, H. Stark, and J. A. de Gouw (2016), A high-resolution time-of-flight chemical ionization mass spectrometer utilizing hydronium ions (H_3O^+ ToF-CIMS) for measurements of volatile organic compounds in the atmosphere, *Atmos. Meas. Tech.*, Accepted for publication, doi:10.5194/amt-2016-21.

Koss, A. R., C. Warneke, B. Yuan, M. M. Coggon, P. R. Veres, and J. A. de Gouw (2016), Evaluation of NO⁺ reagent ion chemistry for on-line measurements of atmospheric volatile organic compounds, *Atmos. Meas. Tech.*, Accepted for publication, doi:10.5194/amt-2016-78.

Five Other Publications

- de Gouw, J.A., A.M. Middlebrook, C. Warneke, P.D. Goldan, W.C. Kuster, J.M. Roberts, F.C. Fehsenfeld, D.R. Worsnop, M.R. Canagaratna, A.A.P. Pszenny, W.C. Keene, M. Marchewka, S.B. Bertman and T.S. Bates, Budget of organic carbon in a polluted atmosphere: Results from the New England Air Quality Study in 2002, *J. Geophys. Res.-Atmos.*, *110*, D16305, doi:10.1029/2004JD005623 (2005).
- de Gouw, J.A., C. Warneke, A. Stohl, A.G. Wollny, C.A. Brock, O.R. Cooper, J.S. Holloway, M. Trainer, F.C. Fehsenfeld, E.L. Atlas, S.G. Donnelly, V. Stroud and A. Lueb, Volatile organic compounds composition of merged and aged forest fire plumes from Alaska and western Canada, *J. Geophys. Res.-Atmos.*, *111*, D10303 (2006).
- de Gouw, J. A. et al. (2008), Sources of particulate matter in the northeastern United States: 1. Direct emissions and secondary formation of organic matter in urban plumes, *J. Geophys. Res.-Atmos.*, *113*, D08301, doi:10.1029/2007JD009243.
- de Gouw, J., and J.L. Jimenez, Organic aerosols in the Earth's atmosphere, *Environ. Sci. Technol.*, *43*, 7614-7618 (2009).
- de Gouw, J.A., A.M. Middlebrook, C. Warneke, R. Ahmadov, E.L. Atlas, R. Bahreini, D.R. Blake, C.A. Brock, J. Brioude, D.W. Fahey, F.C. Fehsenfeld, J.S. Holloway, M. Le Henaff, R.A. Lueb, S.A. McKeen, J.F. Meagher, D.M. Murphy, C. Paris, D.D. Parrish, A.E. Perring, I.B. Pollack, A.R. Ravishankara, A.L. Robinson, T.B. Ryerson, J.P. Schwarz, J.R. Spackman, A. Srinivasan and L.A. Watts, Organic aerosol formation downwind from the Deepwater Horizon oil spill, *Science*, *331*, 1295-1299 (2011).

Synergistic Activities

Principal and co-Principal Investigator on the NOAA CalNex, SENEX and SONGNEX studies, 2010-2015

Served as Editor of Journal of Geophysical Research – Atmospheres, 2009-2013. Served on several Editor and Editor-in-Chief search committees for the American Geophysical Union

Reviewer of proposals for: National Science Foundation (NSF), National Aeronautics and Space Administration (NASA), National Oceanic and Atmospheric Administration (NOAA), U.S. Department of Energy, U.S. Environmental Protection Agency (EPA), U.S. Army Research Office, National Science Foundation of the Netherlands (NWO), U.K. National Environment Research Council, Natural Sciences and Engineering Research Council of Canada, European Science Foundation.

Reviewer of manuscripts for: Nature, Science, Proceedings of the National Academy of Sciences, Geophysical Research Letters, Journal of Geophysical Research - Atmospheres, Atmospheric Chemistry and Physics, Environmental Science & Technology, Atmospheric Environment, Aerosol Science & Technology, International Journal of Mass Spectrometry, Journal of the American Society for Mass Spectrometry, Mass Spectrometry Reviews, Journal of Physical Chemistry, Chemical Reviews, Journal of Physics B: Atomic, Molecular and Optical Physics, Biotechnology Progress and others.