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DEGREES:

- June, 1994 Ph.D. in Physical Chemistry, Harvard University, Cambridge, MA
Thesis: "In Situ Measurements of Stratospheric Hydroxyl and Hydroperoxyl Radicals" Research Advisor: James G. Anderson
- June, 1985 B.A. in Chemistry, Oberlin College, Oberlin, OH.

PROFESSIONAL APPOINTMENTS:

- 2008 – 2011 Director, Linde Center for Global Environmental Science, California Institute of Technology.
- 2005 Visiting Prof., Dept. of Chem., Univ. Otago, New Zealand
- 2005 – 2006 Secretary of the Atmospheric Sciences Section, American Geophysical Union.
- 2004 – R. Stanton Avery Professor of Atmospheric Chemistry and Environmental Science and Engineering, California Institute of Technology.
- 2001 – 2004 Professor of Atmospheric Chemistry and Environmental Science and Engineering, California Institute of Technology.
- 1998 – 2001 Associate Professor of Atmospheric Chemistry and Environmental Engineering Science, California Institute of Technology.
- 1994 – 1997 Postdoctoral Research Fellow, Department of Chemistry, Harvard University.

HONORS AND AWARDS:

- 2002 MacArthur Fellow
- 1999 – 2003 Presidential Early Career Award for Scientists and Engineers (PECASE)
- 1992 – 1993 Hughes Corp., Graduate Fellowship.
- 1986 – 1988 National Science Foundation Graduate Fellowship.

LARGE PROJECTS:

- 2000 – Founding science team member Orbiting Carbon Observatory (OCO, OCO-2)
- 2002 – Chair, Total Carbon Column Observing Network (TCCON)
- 2010 – PI, Mars Atmospheric Trace Molecule Occultation Spectrometer (MATMOS)

PUBLICATIONS:

1. Barkley, MP, Palmer, PI, Ganzeveld, L, Arneth, A, Hagberg, D, Karl, T, Guenther, A, Paulot, F, Wennberg, PO, Mao, JQ, Kurosu, TP, Chance, K, Muller, JF, De Smedt, I, Van Roozendaal, M, Chen, D, Wang, YX, Yantosca, RM, “Can a "state of the art" chemistry transport model simulate Amazonian tropospheric chemistry?”, *J. Geophys. Res.*, 116, D16302, 2011.
2. Parker, R, Boesch, H, Cogan, A, Fraser, A, Feng, L, Palmer, PI, Messerschmidt, J, Deutscher, N, Griffith, DWT, Notholt, J, Wennberg, PO, Wunch, D, “Methane observations from the Greenhouse Gases Observing SATellite: Comparison to ground-based TCCON data and model calculations”, *Geophys. Res. Lett.*, 38, L15807, 2011.
3. Butz, A, Guerlet, S, Hasekamp, O, Schepers, D, Galli, A, Aben, I, Frankenberg, C, Hartmann, JM, Tran, H, Kuze, A, Keppel-Aleks, G, Toon, G, Wunch, D, Wennberg, P, Deutscher, N, Griffith, D, Macatangay, R, Messerschmidt, J, Notholt, J, Warneke, T, “Toward accurate CO₂ and CH₄ observations from GOSAT”, *Geophys. Res. Lett.*, 38 AR L14812, 2011.
4. Keppel-Aleks, G, Wennberg, PO, Washenfelder, RA, Wunch, D, Schneider, T, Toon, GC, Andres, RJ, Blavier, J-F, Connor, B, Davis, KJ, Desai, AR, Messerschmidt, J, Notholt, J, Roehl, CM, Sherlock, V, Stephens, BB, Vay, SA, Wofsy, SC, “The imprint of surface fluxes and transport on variations in total column carbon dioxide”, *Biogeosciences Discuss.*, 8, 7475-7524, 2011.
5. Crounse, JD, Paulot, F, Kjaergaard, HG, Wennberg, PO, “Peroxy radical isomerization in the oxidation of isoprene”, *Phys. Chem. Chem. Phys.*, 13, 13607-13613, 2011.
6. Morino, I, Uchino, O, Inoue, M, Yoshida, Y, Yokota, T, Wennberg, PO, Toon, GC, Wunch, D, Roehl, CM, Notholt, J, Warneke, T, Messerschmidt, J, Griffith, DWT, Deutscher, NM, Sherlock, V, Connor, B, Robinson, J, Sussmann, R, Rettinger, M, “Preliminary validation of column-averaged volume mixing ratios of carbon dioxide and methane retrieved from GOSAT short-wavelength infrared spectra”, *Atm. Meas. Tech.*, 4, 1061-1076, 2011.
7. Vay SA, Choi Y, Vadrevu KP, Blake DR, Tyler SC, Wisthaler A, Hecobian A, Kondo Y, Diskin GS, Sachse GW, Woo J-H, Weinheimer AJ, Burkhardt JF, Stohl A, Wennberg PO, “Patterns of CO₂ and radiocarbon across high northern latitudes during International Polar Year 2008”, *J. Geophys. Res.*, 116, D14301, 2011.
8. Huang, M, Carmichael, GR, Spak, SN, Adhikary, B, Kulkarni, S, Cheng, Y, Wei, C, Tang, Y, D'Allura, A, Wennberg, PO, Huey, GL, Dibb, JE, Jimenez, JL, Cubison, MJ, Weinheimer, AJ, Kaduwela, A, Cai, C, Wong, M, Pierce, RB, Al-Saadi, JA, Streets, DG, Zhang, Q, “Multi-scale modeling study of the source contributions to near-surface ozone and sulfur oxides levels over California during the ARCTAS-CARB period”, *Atmos. Chem. Phys.*, 11, 3173-3194, 2011.
9. Akagi, SK, Yokelson, RJ, Wiedinmyer, C, Alvarado, MJ, Reid, JS, Karl, T, Crounse, JD, Wennberg, PO, “Emission factors for open and domestic biomass burning for use in atmospheric models”, *Atmos. Chem. Phys.*, 11, 4039-4072, 2011.
10. Keppel-Aleks, G, Wennberg, PO, Schneider, T, “Sources of variations in total column carbon dioxide” *Atmos. Chem. Phys.*, 11, 3581-3593, 2011.
11. Wunch, D, Toon, GC, Blavier, JFL, Washenfelder, RA, Notholt, J, Connor, BJ, Griffith, DWT, Sherlock, V, Wennberg, PO, “The Total Carbon Column Observing Network”, *Phil. Trans. Royal Soc. A*, 369, 2087-2112, 2011.
12. Paulot, F, Wunch, D, Crounse, JD, Toon, GC, Millet, DB, DeCarlo, PF, Vigouroux, C,

- Deutscher, NM, Abad, GG, Notholt, J, Warneke, T, Hannigan, JW, Warneke, C, de Gouw, JA, Dunlea, EJ, De Maziere, M, Griffith, DWT, Bernath, P, Jimenez, JL, Wennberg, PO, “Importance of secondary sources in the atmospheric budgets of formic and acetic acids”, *Atmos. Chem. Phys.*, 11, 1989-2013, 2011.
13. Reuter, M, Bovensmann, H, Buchwitz, M, Burrows, JP, Connor, BJ, Deutscher, NM, Griffith, DWT, Heymann, J, Keppel-Aleks, G, Messerschmidt, J, Notholt, J, Petri, C, Robinson, J, Schneising, O, Sherlock, V, Velazco, V, Warneke, T, Wennberg, PO, Wunch, D, “Retrieval of atmospheric CO₂ with enhanced accuracy and precision from SCIAMACHY: Validation with FTS measurements and comparison with model results”, *J. Geophys. Res.*, 116, 10.1029/2010JD015047, 2011.
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- stratosphere - constraints from isotope data of water and methane”, *Atmos. Chem. Phys.*, 10, 201-207 2010.
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35. DeCarlo, PF, Dunlea, EJ, Kimmel, JR, Aiken, AC, Sueper, D, Crounse, J, Wennberg, PO, Emmons, L, Shinozuka, Y, Clarke, A, Zhou, J, Tomlinson, J, Collins, DR, Knapp, D, Weinheimer, AJ, Montzka, DD, Campos, T, Jimenez, JL, "Fast airborne aerosol size and chemistry measurements above Mexico City and Central Mexico during the MILAGRO campaign", *Atmos. Chem. Phys.*, 8, 4027, 2008.
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- M. Fisher, C. Wold, T. Campos, K. Adachi, P. R. Buseck, and W. M. Hao, "Emissions from forest fires near Mexico City", *Atmos. Chem. Phys.*, **7**, 6687, 2007.
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