CHRISTINE WIEDINMYER

Associate Director for Science
Cooperative Institute for Research in Environmental Sciences (CIRES)
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EDUCATION

The University of Texas at Austin
Ph.D., Chemical Engineering, December, 1999
The University of Texas at Austin
M.S. Chemical Engineering, May 1998
Tulane University, New Orleans, LA
B.S.E. Chemical Engineering, *Cum Laude*, May 1994

WORK EXPERIENCE

Associate Director for Science — Aug 2017 - Present
University of Colorado Boulder, Boulder, CO
Cooperative Institute for Research in Environmental Sciences (CIRES)

Scientist III — 2012 - 2017
Scientist II — 2008 – 2012
Scientist I — 2005 – 2008
Project Scientist I — 2001 – 2005
National Center for Atmospheric Research, Boulder, CO
Atmospheric Chemistry Observations & Modeling Laboratory

Research Associate — 2001
University of Colorado, CIRES, Boulder, CO
(at the National Oceanic and Atmospheric Administration, Aeronomy Lab)

Post-Doctoral Research Scientist/Research Faculty — 2000 – 2001
University of Denver, Denver, CO
Department of Mechanical Engineering

Graduate Research Assistant — 1995 – 1999
University of Texas at Austin, Austin, TX
Department of Chemical Engineering

Consultant — 1998-1999
ENVIRON Technology, Inc., Novato, CA

Undergraduate Research Assistant — 1993-1994
Tulane University, New Orleans, LA
Department of Chemical Engineering

HONORS

NASA Group Achievement Award for KORUS (2017)
NASA Group Achievement Award for SEAC^{4}RS (2015)
2014 Thomson Reuters Highly Cited Researcher
American Meteorological Society 2014 Walter Orr Roberts Lecturer
Nominated Lecturer, Assoc. for Women Geoscientists Distinguished Lecture Series (2011-*present*)
UCAR 2011 Diversity Award
NASA Group Achievement Award for ARCTAS (2009)
Invited Speaker: International Young Scientist Global Change Conference; Trieste, Italy; Nov. 2003
Invitee: Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS VI), 2001
University of Texas Continuing Fellowship recipient, 1998
Tau Beta Pi (Engineering Honor Society), 1994
Omega Chi Epsilon (Chemical Engineering Honor Society), 1993

STUDENTS

Co-Advisor:

Tanarit Sakulyanontvittaya, Dept. of Mechanical Engineering, University of Colorado at Boulder (Ph.D. 2007)

Ph.D. Thesis Committee:

Qingqing Xu, University of California Merced, (Ph.D. Expected Summer 2020)
Chitsan Wang, School of Engineering and Public Health, Univ. of N. Carolina at Chapel Hill (Ph.D. expected Summer 2019)
Ricardo Piedrahita, Dept. of Mechanical Engineering, Univ. of Colorado at Boulder (Ph.D. 2016)
Forrest Lacey, Dept. of Mechanical Engineering, University of Colorado at Boulder (Ph.D.2016)
Chris Gray, Dept. of Microbiology, Univ. of Colorado (Ph.D. 2014)
Rodrigo Gonzalez-Abraham, Dept. Civil & Env. Eng., Wash. State Univ. (Ph.D. 2013)
Kelly Baustian, Dept. of Atmos. & Ocean Sciences, Univ. of Colorado (Ph.D. 2011)
Michael Feldman, Dept. of Chemical Engineering, Univ. of Texas at Austin (Ph.D. 2010)

NCAR supervisor/advisor:

Ricardo Piedrahita, Evan Coffey, Nick Masson, Didier Muvandimwe, Elise Mesenbring, Department of Mechanical Engineering, Univ. of Colorado, Boulder, CO
Isaac Rivera, University of Colorado-Denver, CO
Xiaoyan Jiang, Jackson School of Geosciences, Univ. of Texas at Austin
Barron Henderson, School of Engineering and Public Health, Univ. of N. Carolina at Chapel Hill
Ashley Berg, Colorado State University, Ft. Collins, CO

High School:

Amy Sahud and Bailey Page, Monarch High School, September 2015 – May 2016.

PROFESSIONAL TRAINING

ESWN Workshop: Leadership Skills for Success in the Scientific Workforce, October 2018
ESWN Workshop: Building Leadership and Management Skills for Success, June 2013
UCAR Leadership Academy, October 2009 – May 2010
ANSI Green House Gas Technical Assessor Training, Washington D.C., July 2009
ESWN Workshop: Building Leadership Skills for Success in Scientific Organizations, Dec. 2008

PROFESSIONAL ORGANIZATIONS

American Geophysical Union, 1998-present
American Meteorological Society, 2014-2015
American Chemical Society, 2011-2012
American Association for Aerosol Research member, 2004–2006, 2014, 2016
Air & Waste Management Association member, 1997-1999
AIChE student member, 1992-1994

PROFESSIONAL SERVICE/LEADERSHIP

UCAR Board of Trustees, February 2019 – present.

Board member and Founding member, Earth Science Women's Network (ESWN), 2002-present (http://www.eswnonline.org). *Secretary (2017-2018), Treasurer (Jan. 2019 – present).*

Member, IGAC Interdisciplinary Biomass Burning Initiative (IBBI), 2016 – present.

Member, National Academies of Science Committee: the Future of Atmospheric Chemistry Research, January 2015 – August 2016.

Chair, Local Organizing Committee, International Global Atmospheric Chemistry Project 2016 Conference, Breckenridge, CO, 2014-2016.

Member, Scientific Planning Committee, International Global Atmospheric Chemistry Project 2016 Conference, Breckenridge, CO, 2015-2016.

Discussion Leader, Biogenic Hydrocarbons and the Atmosphere Gordon Research Conference, Barcelona, Spain, June 2016.

Member, Advisory Board, CU EPA Grant "Climate Change Mitigation in Low-Income Communities in Colorado: Home Weatherization Impacts on Respiratory Health and Indoor Air Quality during Wildfires", April 2016 – present.

Member, GEIA VOC Working Group, November 2015- present.

Member, Garfield County Gas Emissions Study Technical Advisory Committee, Colorado State University, 2012 – 2016.

Member, Independent Technical Advisory Committee, Texas Air Quality Research Program, Univ. of Texas/Texas Center for Environmental Quality, June 2010-present.

Chair, Atmospheric Chemistry Working Group, Fundamental Instrument Unit of the National Ecological Observatory Network (NEON), 2011- 2015.

Member, Professional Advisory Board, Environmental Engineering Program, University of Colorado-Boulder, 2010-2011.

Chair, 2012 Gordon Research Conference: Biogenic Hydrocarbons and the Atmosphere, June 24-29, 2012, Bates College, Lewiston, Maine.

Co-Chair, 2010 Biogenic Hydrocarbons and the Atmosphere Gordon Research Conference, May 23-28, 2010, Les Diablerets, Switzerland.

Member, Advisory Board for Univ. of Wisconsin Project: "A cost-benefit analysis of expanding gas-powered freight transport versus expanding gas-powered electricity generation," 2010-2013.

Organizer, ESWN Career Workshop: *Defining Your Research Identity*, Boulder, CO; June 6-8, 2011.

Associate Editor, Journal of Geophysical Research- Atmospheres, 2007-2011.

Reviewer:

Nature-Geosciences
Environmental Research Letters
Journal of Geophysical Research- Atmospheres
Atmospheric Chemistry & Physics
Atmospheric Environment
Geophysical Research Letters
Environmental Science & Technology
PNAS
Nature
Journal of Air & Waste Management Association
Geoscientific Model Development
Earth System Science Data
UK National Environment Research Council
U.S. Environmental Protection Agency
U.S. Department of Defense
U.S. National Science Foundation

Member, Design Review Panel for the NSF Storm Peak Laboratory's renovation, 2010-2011.

Co-Convener, session "Wildland Fire Emissions in Chemical Transport Models: Improving Input Resolution", AGU Fall Meeting, San Francisco, CA, December 14-18, 2009.

Co-Organizer, NSF Biogenic Secondary Organic Aerosol Workshop series for early career US and Nordic Scientists, held in Sweden (2008) and Finland (2009).

Discussion Leader/Panelist, NCAR GIS in Weather, Climate and Impacts Workshop 2005, Boulder, Colorado July 6-8, 2005.

Co-Chair/Organizer, 2003 UCAR/NCAR Junior Faculty Forum on Future Scientific Directions: *Interactions between land ecosystems and the atmospheric hydrologic cycle*. NCAR, Boulder, CO, June, 2003.

Organizer/Leader, BVOC Emissions Workshop, Lancaster University, Lancaster, U.K., September 2002.

COMMUNITY OUTREACH

Mentor for PROGRESS (PROmoting Geoscience Research, Education and SuccesS), 2016-present
UCAR SOARS Program
Science Mentor (x's 2), Summer 2015
Science Mentor, Summer 2014
Science Mentor, Summer 2008
Writing Mentor, Summer 2005
Science Mentor, Earth Explorers Film Program with Trail Ridge Middle School, Fall 2012; Fall 2010.
Final Video (2010): http://vimeo.com/earthexplorers/cooliochem
Final Video (2012): https://vimeo.com/71733296
Panelist (*Careers in Science*), HIRO Summer High School Student Program, July 21, 2011.
Speaker, Denver School of Science & Technology, May 23, 2011
Speaker, Fairmount Elementary School, Golden, CO, March 15, 2011
Speaker /Mentor, Geoscience Research at Storm Peak (GRASP) Program, 2008, 2010.
Speaker, NCAR Undergraduate Leadership Workshop, 2005, 2006, 2007, 2008, 2010.
Invited Panelist, Storm Peak Laboratory/DRI 50th Anniversary Celebration, Steamboat Springs, 2009.
Presenter, Workshop activity (the Nitrogen Cycle Game), the Girls Exploring Science, Engineering and Technology (GESET) Symposium, Denver, CO, 2007, 2008.
Air Quality Expert, NCAR Broadcast Meteorologist Meeting, June 27, 2008.
Keynote Speaker, "Climate Impacts of the Great Outdoors," National Wildlife Federation National Meeting, Keystone, CO, May 16, 2008.
Speaker, "Energy, Air Quality, and Water Systems in Colorado," Trout Unlimited Conservation Day, Boulder, CO, Oct. 6, 2007.
Speaker, Western Regional Retired FBI Agents luncheon, Golden, CO, Feb. 21, 2007.
Science Fair Judge, Regional Secondary Science Fair, BVSD, Boulder, CO, March 3, 2005.
Lecturer, NCAR Climate and Global Change Geoscience Workshop, July 2002 & 2004.
Science Fair Judge, Weber Elementary School, Arvada, CO, February, 2003.
Lecturer, Environmental Science Workshop for School Teachers, Center for Energy and Environmental Resources, University of Texas at Austin, 1997, 1998, 1999.

PEER-REVIEWED PUBLICATIONS

h index = 41/55 (ISI/Google Scholar) as of March 2019
(**Advised graduate student; #Advised post-doc; ^Graduate student; %Post-doc**)

Submitted

Archer-Nicholls, S#, D. Lowe, F. Lacey#, R. Kumar, Q. Xiao, Y. Liu, E. Carter, J. Baumgartner, **C. Wiedinmyer.** Radiative Effects of Residential Sector Emissions in China: Sensitivity to Uncertainty in Black Carbon Emissions. Submitted to *J. Geophys. Res–Atmospheres*, February 2019.

Mona Abdo, Ernest Kanyomse, Rex Alirigia, Evan R. Coffey, Ricardo Piedrahita, David Diaz-Sanchez, Yolanda Hagar, Daniel Naumenko, **Christine Wiedinmyer**, Michael P. Hannigan, Abraham Rexford Oduro, Katherine L. Dickinson. Health Impacts of a Randomized Biomass Cookstove Intervention in Northern Ghana. Submitted to *International Journal of Environmental Research and Public Health*, Submitted December 2018.

Katherine Dickinson; Ricardo Piedrahita; Evan Coffey; Ernest Kanyomse; Rex Alirigia; Timothy Molnar; Yolanda Hagar; Michael Hannigan; Abraham R Oduro; **Christine Wiedinmyer**. Adoption of improved biomass stoves and stove/fuel stacking in the REACCTING intervention study in Northern Ghana. Submitted to *Energy Policy*, April 2018.

Jill Baumgartner, **Christine Wiedinmyer**, Tzu-Wei Tseng, ^Sierra Clark, Xudong Yang, Majod Ezzati, Graydon Snider, Ellison Carter and James Schauer. Impacts of stove use patterns and outdoor air quality on

household air pollution and cardiovascular mortality in southwestern China. Submitted to *Environmental International* March 2018.

Accepted/Published

1. Hurteau, M.D., S. Liang, A.L. Westerling, **C. Wiedinmyer** (2019) Vegetation-fire feedback reduces projected area burned under climate change. *Scientific Reports*, 9:2838, doi.org/10.1038/s41598-019-39284-1.

2. [%]O'Lenick, C.R., O. Wilhelmi, M. Ryan, M.H. Hayden, A. Baniassadi, **C. Wiedinmyer**, A.J. Monaghan, P.J. Crank, D.J. Sailor. (2019) Urban heat and air pollution: A framework for integrating population vulnerability and indoor exposure in health risk analyses, *Science of the Total Environment*, v660, pp. 715-723, DOI: 10.1016/j.scitotenv.2019.01.002.

3. [**]Wang, C.-T., **Wiedinmyer, C.,** Ashworth, K., Harley, P.C., Ortega, J., Viziete, W. (2019) Leaf enclosure measurements for determining volatile organic compound emission capacity from Cannabis spp. *Atmospheric Environment*, 199, pp 80-87, doi; 10.1016/j.atmosenv.2018.10.049.

4. [^]Lai, AM, E Carter, M Shan, K Ni, S Clark, M Ezzati, **C Wiedinmyer**, XD Yang, J Baumgartner and JJ Schauer (2019), Chemical composition and source apportionment of ambient, household, and personal exposures to PM2.5 in communities using biomass stoves in rural China. Sci. Total Environ. Version: 1 646 309-319, issn: 0048-9697, ids: GU3GO, doi: 10.1016/j.scitotenv.2018.07.322, PubMed ID: 30055493.

5. Dalaba, M, R Alirigia, E Mesenbring, E Coffey, Z Brown, M Hannigan, **C Wiedinmyer**, A Oduro and KL Dickinson (2018), Liquified Petroleum Gas (LPG) Supply and Demand for Cooking in Northern Ghana. EcoHealth Version: 1 15 (4) 716-728, issn: 1612-9202, ids: HC1VP, doi: 10.1007/s10393-018-1351-4, PubMed ID: 30109459.

6. [^]Brey, SJ, EA Barnes, JR Pierce, **C Wiedinmyer** and EV Fischer (2018), Environmental Conditions, Ignition Type, and Air Quality Impacts of Wildfires in the Southeastern and Western United States. Earth Future Version: 1 6 (10) 1442-1456, issn: 2328-4277, ids: HA2JB, doi: 10.1029/2018EF000972.

7. Snider, G, E Carter, S Clark, J Tseng, XD Yang, M Ezzati, JJ Schauer, **C Wiedinmyer** and J Baumgartner (2018), Impacts of stove use patterns and outdoor air quality on household air pollution and cardiovascular mortality in southwestern China. Environ. Int. Version: 1 117116-124, issn: 0160-4120, ids: GK9ME, doi: 10.1016/j.envint.2018.04.048, PubMed ID: 29734062.

8. Kumar, Rajesh; Barth, Mary; Pfister, Gabriele; Delle Monache, Luca; Lamarque, Jean-Francois; [#]Archer-Nicholls, Scott; Tilmes, Simone; Ghude, Sachin; **Wiedinmyer, Christine**; Jones, Bryan; Naja, Manish; Walters, Stacy. (2018) Will air pollution in South Asia continue to be a risk by 2050? *J. Geophysical Research*, 123(3), 1840-1864, DOI: 10.1002/2017JD027357.

9. Coffey, Evan; [**]Muvandimwe, Didier; Hagar, Yolanda; **Wiedinmyer, Christine**; Kanyomse, Ernest; [**]Piedrahita, Ricardo; Dickinson, Katherine; Oduro, Abraham; Hannigan, Michael (2017) Implications of new emission factors and efficiencies from in-field measurements of traditional and improved cookstoves. *Environmental Science & Technology*, 51(21), 12508-12517, 10.1021/acs.est.7b02436.

10. [#]Lacey, F.G., Marais, E.A., Henze, D.K., Lee, C.J., van Donkelaar, A., Martin, R.V., Hannigan, M.P., **Wiedinmyer, C.** Improving present day and future estimates of anthropogenic sectoral emissions and the resulting air quality impacts in Africa, *Faraday Discussions*, 2017, DOI: 10.1039/C7FD00011A.

11. Jennie Thomas, Chris Polashenski, Amber Soja, Louis Marelle, Kimberly Casey, Hyundeok Choi, Jean-Christophe Raut, **Christine Wiedinmyer**, Louisa Emmons, Jerome Fast, Jacques Pelon, Kathy Law,

Mark Flanner, Jack Dibb. (2017) Quantifying black carbon deposition over the Greenland ice sheet from forest fires in Canada. *Geophysical Research Letters*. 44(15), 7965-7974, DOI: 10.1002/2017GL073701

12. [^]Clark, Sierra; Carter, Ellison; Shan, Ming; Ni , Kun; Niu, Hongjiang; Tseng, Joy; Pattanayak, Subhrendu; Jeuland, Marc; Schauer, James; Ezzati, Majid; **Wiedinmyer, Christine**; Yang, Xudong; Baumgartner, Jill. (2017) Adoption and use of a semi-gasifier cooking and water heating stove and fuel intervention in the Tibetan Plateau. *Environmental Research Letters*, 12(7), 10.1088/1748-9326/aa751e.

13. **Wiedinmyer, Christine**; Dickinson, Katherine; [**]Piedrahita, Ricardo; Kanyomse, Ernest; Coffey, Evan; Hannigan, Michael; Alirigia, Rex; Oduro, Abraham. Rural-urban differences in cooking practices and exposures in Northern Ghana. *Environmental Research Letters,* April 2017.

14. Zhu, J., X. Xia, J. Wang, J. Zhang, **C. Wiedinmyer**, J. A. Fisher, and C. A. Keller (2017), Impact of Southeast Asian smoke on aerosol properties in Southwest China: First comparison of model simulations with satellite and ground observations, *J. Geophys. Res. Atmos*., 122, 3904–3919, doi:10.1002/2016JD025793.

15. [#]Hagar, Y., M. Hayden, **C. Wiedinmyer,** V. Dukic. Comparison of Models Analyzing a Small Number of Observed Meningitis Cases in Navrongo, Ghana. *Journal of Agricultural, Biological, and Environmental Statistics*, 2017, DOI: 10.1007/s13253-016-0270-5.

16. [#]Hagar, Y., Hayden, M., **Wiedinmyer, C.**, Dukic, V. (2017) Comparison of models analyzing a small number of observed meningitis cases in Navrongo, Ghana. *Journal of Agricultural, Biological, and Environmental Statistics*, 22(1), pp. 76-104, 10.1007/s13253-016-0270-5.

17. [**]Piedrahita R, Kanyomse E, Coffey E, Xie M, Hagar Y, Alirigia R, Agyei F, **Wiedinmyer C**, Dickinson KL, Oduro A, Hannigan M. (2017). Exposures to and origins of carbonaceous PM2.5 in a cookstove intervention in Northern Ghana. *Science of the Total Environment,* 576, pp 178-192, *DOI:* 10.1016/j.scitotenv.2016.10.069.

18. Saunois, M., Bousquet, P., Poulter, B., Peregon, A., Ciais, P., Canadell, J. G., Dlugokencky, E. J., Etiope, G., Bastviken, D., Houweling, S., Janssens-Maenhout, G., Tubiello, F. N., Castaldi, S., Jackson, R. B., Alexe, M., Arora, V. K., Beerling, D. J., Bergamaschi, P., Blake, D. R., Brailsford, G., Brovkin, V., Bruhwiler, L., Crevoisier, C., Crill, P., Covey, K., Curry, C., Frankenberg, C., Gedney, N., Höglund-Isaksson, L., Ishizawa, M., Ito, A., Joos, F., Kim, H.-S., Kleinen, T., Krummel, P., Lamarque, J.-F., Langenfelds, R., Locatelli, R., Machida, T., Maksyutov, S., McDonald, K. C., Marshall, J., Melton, J. R., Morino, I., Naik, V., O'Doherty, S., Parmentier, F.-J. W., Patra, P. K., Peng, C., Peng, S., Peters, G. P., Pison, I., Prigent, C., Prinn, R., Ramonet, M., Riley, W. J., Saito, M., Santini, M., Schroeder, R., Simpson, I. J., Spahni, R., Steele, P., Takizawa, A., Thornton, B. F., Tian, H., Tohjima, Y., Viovy, N., Voulgarakis, A., van Weele, M., van der Werf, G. R., Weiss, R., **Wiedinmyer, C.,** Wilton, D. J., Wiltshire, A., Worthy, D., Wunch, D., Xu, X., Yoshida, Y., Zhang, B., Zhang, Z., and Zhu, Q.: The global methane budget 2000–2012, Earth Syst. Sci. Data, 8, 697-751, doi:10.5194/essd-8-697-2016, 2016.

19. [#]Crippa, P, S. Castruccio, S. Archer-Nicholls, G.B. Lebron, M. Kuwata, A. Thota, S. Sumin, E. Butt, **C. Wiedinmyer**, D.V. Spracklen. Population exposure to hazardous air quality due to the 2015 fires in Equatorial Asia., *Scientific Reports,* 6, doi:10.1038/srep37074, 2016.

20. [^]Kodros, John; **Wiedinmyer, Christine**; Ford, Bonne; Cucinotta, Rachel; Gan, Ryan; Magzamen, Sheryl; Pierce, Jeffrey. Global burden of mortalities due to chronic exposure to ambient $PM_{2.5}$ from open combustion of domestic waste. *Environmental Research Letters*, 11, doi:10.1088/1748-9326/11/12/124022, 2016.

21. Dickinson, K.L., Monaghan, A.J., Rivera, I.J., Hu, L., Kanyomse, E., Alirigia, R., Adoctor J., Kaspar, R.E., Oduro, A.R., Wiedinmyer, C. (2017) Changing weather and climate in northern Ghana: comparison of local perceptions with meteorological and land cover data. *Reg Environ Change*, 17: 915. doi:10.1007/s10113-016-1082-4.

22. [%]Eloise Marais and **Christine Wiedinmyer**. Air quality impact of Diffuse and Inefficient Combustion Emissions in Africa (DICE-Africa). *Environmental Science & Technology*, 50 (19), pp 10739–10745DOI: 10.1021/acs.est.6b02602, 2016.

23. [**]Ricardo Piedrahita, Katie Dickinson, Evan Coffey, Ernest Kanyomse, Rex Alirigia, Yolanda Cecile-Hagar Slichter, Isaac Rivera, Abraham Oduro,Vanja Dukic, **Christine Wiedinmyer**, Michael Hannigan. Assessment of cookstove stacking in Northern Ghana using surveys and stove use monitors. *Energy for Sustainable Development*, http://dx.doi.org/10.1016/j.esd.2016.07.007, 34, 67–76, 2016.

24. [#]Archer-Nicholls, S., E. Carter, R. Kumar, Q. Xiao, Y. Liu, J. Frostad, M. Forouzanfar, A. Cohen, M. Brauer, J. Baumgartner, **C. Wiedinmyer**. The regional impact of cooking and heating emissions on air quality and disease burden in China. *Environmental Science & Technology*, DOI: 10.1021/acs.est.6b02533, 2016.

25. [#]Carter, Ellison; Archer-Nicholls, Scott; Ni, Kun; Lai, Alexandra; Niu, Hongjiang; Secrest, Matthew; Sauer, Sara; Schauer, James; Ezzati, Majid; **Wiedinmyer, Christine**; Yang, Xudong; Baumgartner, Jill. Seasonal and Diurnal Patterns in Residential Cooking and Space Heating Activities in the Tibetan Plateau. *Environ. Sci. Technol*., 2016, 50 (15), pp 8353–8361. DOI: 10.1021/acs.est.6b00082.

26. Gaubert, B., A.F. Arellano, J. Barre, H.M. Worden, L.K. Emmons, S. Tilmes, R.R. Buccholz, F. Vitt, K. Raeder, N. Collins, J.L. Anderson, **C. Wiedinmyer**, S Martinez Alonso, D.P. Edwards, M.O. Andreae, J.W. Hannigan, C. Petri, K. Strong, N. Jones (2016), Toward a chemical reanalysis in a coupled chemistry-climate model: An evaluation of MOPITT CO assimilation and its impact on tropospheric composition, *J. Geophys. Res. Atmos*., 121, 7310–7343, doi:10.1002/2016JD024863.

27. Bauwens, M., Stavrakou, T., Müller, J.-F., De Smedt, I., Van Roozendael, M., van der Werf, G. R., **Wiedinmyer, C.**, Kaiser, J. W., Sindelarova, K., and Guenther, A.: Nine years of global hydrocarbon emissions based on source inversion of OMI formaldehyde observations, *Atmos. Chem. Phys*., 16, 10133-10158, doi:10.5194/acp-16-10133-2016, 2016.

28. [^]Kodros, J. K., Cucinotta, R., Ridley, D. A., **Wiedinmyer, C**., and Pierce, J. R.: The aerosol radiative effects of uncontrolled combustion of domestic waste, *Atmos. Chem. Phys*., 16, 6771-6784, doi:10.5194/acp-16-6771-2016, 2016..

29. West, Jason; Cohen, Aaron; Dentener, Frank; Brunekreef, Bert; Zhu, Tong; Armstrong, Ben; Bell, Michelle; Brauer, Michael; Carmichael, Gregory; Costa, Dan; Dockery, Douglas; Kleeman, Michael; Krzyzanowski, M; Kunzli, Nino; Liousse, C; Lung, Shih-Chun; Martin, Randall; Pöschl, Ulrich; Pope, Clive; Roberts, James; Russell, Armistead; **Wiedinmyer, Christine**, What we breathe impacts our health: improving understanding of the link between air pollution and health. *Environmental Science & Technology*, 2016, 50 (10), pp 4895–4904, DOI: 10.1021/acs.est.5b03827.

30. **Wiedinmyer, C.** (2015) Atmospheric Chemistry: Breathing easier in the Amazon, *Nature-Geoscience*, 8, 751-752, doi:10.1038/ngeo2550.

31. [**]Gonzalez-Abraham, R., Chung, S. H., Avise, J., Lamb, B., Salathé Jr., E. P., Nolte, C. G., Loughlin, D., Guenther, A**., Wiedinmyer, C.**, Duhl, T., Zhang, Y., and Streets, D. G.: The effects of global change upon United States air quality, Atmos. Chem. Phys., 15, 12645-12665, doi:10.5194/acp-15-12645-2015, 2015.

32. Adams, A., A. Steiner, **C. Wiedinmyer**. The Earth Sciences Women's Network (ESWN): Mentoring for women in the atmospheric sciences. *Bulletin of the American Meteorological Society*, 97(3), DOI: 10.1175/BAMS-D-15-00040.1, 2016.

33. van der Laan-Luijkx, I.T., I. R. van der Velde, M.C. Krol, L.V. Gati, J.B. Miller, M. Gloor, T.T. van Leeuwen, J.W. Kaiser**, C. Wiedinmyer**, S. Basu, C. Clerbaux, W. Peters. Response of the Amazon carbon balance to the 2010 drought derived with CarbonTracker South America (2015) *Global Biogeochemical Cycles*,29(7), pp 1092-1108, DOI: 10.1002/2014GB005082.

34. de Foy, B., Cui, Y. Y., Schauer, J. J., Janssen, M., Turner, J. R., and **Wiedinmyer, C.:** Estimating sources of elemental and organic carbon and their temporal emission patterns using a least squares inverse model and hourly measurements from the St. Louis–Midwest supersite, *Atmos. Chem. Phys*., 15, 2405-2427, doi:10.5194/acp-15-2405-2015, 2015.

35. Dickinson, K.L., E. Kanyomse, R. Piedrahita, E. Coffey, I.J. Rivera, J. Adoctor, R. Alirigia, D. Muvandimwe, M. Dove, V. Dukic, M.H. Hayden, D. Diaz-Sanchez, A. Abisiba, D. Anaseba, Y. Hagar, N. Masson, A. Monaghan, A. Titiati, D.F. Steinhoff, Y.-Y. Hsu, R. Kaspar, B. Brooks, A. Hodgson, M. Hannigan, A. Oduro, **C. Wiedinmyer**: Research on Emissions, Air quality, Climate, and Cooking Technologies in Northern Ghana (REACCTING): study rationale and protocol. *BMC Public Health*, 2015, **15**:126, doi:10.1186/s12889-015-1414-1.

36. Kulkarni, S., Sobhani, N., Miller-Schulze, J. P., Shafer, M. M., Schauer, J. J., Solomon, P. A., Saide, P. E., Spak, S. N., Cheng, Y. F., Denier van der Gon, H. A. C., Lu, Z., Streets, D. G., Janssens-Maenhout, G., **Wiedinmyer, C**., Lantz, J., Artamonova, M., Chen, B., Imashev, S., Sverdlik, L., Deminter, J. T., Adhikary, B., D'Allura, A., Wei, C., and Carmichael, G. R.: Source sector and region contributions to BC and $PM_{2.5}$in Central Asia, *Atmos. Chem. Phys*., 15, 1683-1705, doi:10.5194/acp-15-1683-2015, 2015.

37. Eidhammer, T., M. Barth, M. Petters, **C. Wiedinmyer**, A. Prenni. Aerosol impact on summertime convective precipitation in the Rocky Mountain region. *J. Gephys. Res.*, doi: 10.1002/2014JD021883, 2014.

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119. **Wiedinmyer, C**., Strange, W., Estes, M., Yarwood, G., Allen, D. (2000) Biogenic hydrocarbon emissions estimates in North Central Texas. *Atmospheric Environment*, 34(20), 3419-3435.

OTHER PUBLICATIONS

Carlton, A.G., Barsanti, K.C., Wiedinmyer, C., Afreh, I. (2018) "Detailed characterization of organic carbon from fire: capitalizing on analytical advances to improve atmospheric models." Chapter in Multiphase Environmental Chemistry in the Atmosphere, (Hunt, S.W., Laskin, A., Nizkorodov, S.A., eds), American Chemical Society, Washington D.C., v1299, pp 349-361.

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AMAP, 2015. (*Contributing Author*) AMAP Assessment 2015: Black carbon and ozone as Arctic climate forcers. Arctic Monitoring and Assessment Programme (AMAP), Oslo, Norway. vii + 116 pp. http://www.amap.no/documents/doc/AMAP-Assessment-2015-Black-carbon-and-ozone-as-Arctic-climate-forcers/1299.

Wiedinmyer, C., Steiner, A., Ashworth, K. "Plant Influences on Atmospheric Chemistry", chapter in The Plant Sciences: Ecology and the Environment, (Monson, R.K., ed.), Springer Publishers, Inc., Heidelberg, Germany, pp. 573-572. ISBN 978-1-4614-7501-9

Luber, G., K. Knowlton, J. Balbus, H. Frumkin, M. Hayden, J. Hess, M. McGeehin, N. Sheats, L. Backer, C. B. Beard, K. L. Ebi, E. Maibach, R. S. Ostfeld, **C. Wiedinmyer**, E. Zielinski-Gutiérrez, and L. Ziska. Forthcoming (2014). Ch. 9: Human Health. In: Climate Change Impacts in the United States, The Third National Climate Assessment, J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds. U.S. Global Change Research Program. (available at: http://nca2014.globalchange.gov/report/sectors/human-health)

Hastings, M G; **Wiedinmyer, C;** Kontak, R; "Facilitating career advancement for women in the Geosciences through the Earth Science Women's Network (ESWN)" in Building the Architecture for Gender Parity in Academic Geoscience Departments, Holmes, MA and O'Connell, S eds. (forthcoming). (AGU Monograph).

Jiang, X., Barth, M. **C., Wiedinmyer**, C., and Massie, S. T.: Influence of anthropogenic aerosols on the Asian monsoon: a case study using the WRF-Chem model, *Atmos. Chem. Phys. Discuss*., 13, 21383-21425, doi:10.5194/acpd-13-21383-2013, 2013.

Wiedinmyer, C., P, Harley and A. Guenther (2009), "Exchange of organic compounds between the biosphere and the atmosphere", iLEAPS Newsletter Issue No. 7, June 2009.

Wiedinmyer, C., Guenther, A., Harley, P., Hewitt, C.N., Geron, C., Artaxo, P., Steinbrecher, R., Rasmussen. (2004) Global organic emissions from vegetation. Chapter in Emissions of Atmospheric Trace Compounds, Edited by Claire Granier, Paulo Artaxo, and Claire E. Reeves. Kluwer Academic Publishers, Dordrecht, The Netherlands, pp. 115 -170.

INVITED TALKS

- "Global Air Quality, Challenges and Opportunities". Sixth Arab-American Frontiers symposium, Kuwait City, Kuwait, November 05, 2018.
- "AON: Atmospheric Tracers for Arctic Wildfires, Air Pollution, Atmospheric Chemistry, and Climate Change at GEOSummit, Greenland." Helmig, D., C. Wiedinmyer, L. Emmons, M. val Martin, 2018-9-25: Interagency Arctic Research Policy Committee, online.
- "Fires and their impacts, from household burning to wildfires", Rice University, 20 April 2018
- "Fires, fires everywhere! Fires and their impacts from household burning to wildfires", University of Wollongong, 5 February 2018.
- "Quantifying interactions between technologies, behaviors, air quality and climate: A case study in West Africa", NCAR ACOM, 30 October 2017.
- "Emissions and Impacts of Air Pollutants from Biomass Burning"
  - NOAA Chemical Sciences Division, 27 September 2017
  - University of Utah, 05 April 2017.
- "Fire emissions modeling with EO at NCAR", NASA Wildland Fire Applications 2017 Team Meeting, University of Colorado-Boulder, 01 March 2017.
- "Emissions and Impacts of Air Pollutants from Biomass Burning", Earth Science Colloquium Speaker, Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, 09 December 2016.
- "Fire Aerosols: Exceptionally Common", Plenary talk at the 35th Annual Conference of the American Association for Aerosol Research, Portland, OR, 21 October 2016.
- "Constraining the Emissions of Air Pollutants and Their Impacts", University of Rijeka, Rijeka, Croatia, 23 June 2016.
- "Modeling Air Quality and Climate", Health Effects Institute Annual Meeting, Denver, CO, 01 May 2016.
- "Fires in the Earth System", AWG Distinguished Lecture, Oregon State University, Corvalis, OR, 28 April 2016.
- "Air Quality and Health", AWG Distinguished Lecture, Westminster College, Salt Lake City, UT, 24 September 2015.
- "Constraining the Emissions of Air Pollutants and Their Impacts"
  - Emory University, Atlanta, GA, 21 January 2015
  - Lyndon State University, *online*, 19 February 2015
- "Succeeding in science and life: some lessons learned about work-life balance", Gulf Coast ADVANCE Retreat, Dauphin Island Sea Lab, Alabama, 08 November 2014.
- "Fires in the Earth System: From Emissions to Impacts", Tutorial, AAAR Annual Meeting, Orlando, Florida, October 20, 2014.
- "Constraining the Emissions of Air Pollutants and their Impacts", Department of Mechanical Engineering, Colorado State University, Ft. Collins, CO, 10 April 2014.
- "Fires in the Earth System: Interactions with the Atmosphere", Walter Orr Roberts Lecture at the 2014 Annual Meeting of the American Meteorological Society, Atlanta, GA, 05 February 2014.

°"Cleaner cooking in the Sahel: Impacts for air quality, climate, and health"
- Massachusetts Institute of Technology, Boston, MA, 17 October 2013
- University of Denver, Denver, CO, 10 October 2013

°"Status and Recent Development of the FINN Emissions", Western Modeling Workshop, Boulder, CO, 09 July 2013.

°"Open Burning and its Atmospheric Impacts",
- University of Utah, 21 February 2013
- University of Wollongong, Wollongong, Australia, 14 January 2013.
- Washington State University, Pullman, WA, 22 October 2012.
- Harvard University, Boston, MA, 12 October 2012.

°"Using existing measurements to estimate the emissions of primary biological particles to the atmosphere", Bioaerosol Effects on Clouds Workshop, Steamboat Springs, CO, 4-7 August 2012.

°"Emissions from Open Burning: Evaluation Challenges at Different Scales," Session: Evaluating Emissions Inventories, AGU Fall Meeting, San Francisco, CA, 5-9 December 2011.

°"Feedbacks between climate and fire emissions," *DoD SERDP Partners in Environmental Technology Technical Symposium and Workshop*, Washington D.C., 29 November 2011.

°"Biogenic emissions modeling for chemistry and climate models," Joint MUSCATEN – ABBA Workshop on Biogenic VOC: Emissions, Aerosol Formation, Modeling", Tartu, Estonia, 19-21 October 2011.

° "Aerosols: Biomass Burning, Dust, and Climate in Africa", NCAR ISP Summer Colloquium *African Weather and Climate*, 02 August 2011.

° "Fires in the Earth System", Nelson Institute for the Environment, University of Wisconsin-Madison, 07 April 2011.

° "Forest fire air pollution in the Western U.S", Session: Protecting vulnerable communities from climate change, American Public Health Association Meeting, Denver, CO, 09 November 2010.

° "Mapping the World's VOC Emissions from Vegetation", Phyllosphere 2010: Ninth International Symposium of the Microbial Ecology of Aerial Plant Surfaces, Oregon State University, Corvallis, OR; 15 August 2010.

° "Fires in Asia", NCAR ASP Summer Colloquium: Asia in the 21st Century, Boulder, CO, 05 Aug. 2010.

° "Exchanges of Organic Compounds Between the Biosphere and the Atmosphere: Now and in the Future"
- North Carolina State University, 22 March 2010.
- North Carolina A&T University, 25 March 2010.
- University of California-Davis, 27 April 2009.

° "Climate Change and Water Systems, Forests, and the Atmosphere," Department of Environmental and Water Resources Engineering, University of Texas in Austin, 29 January 2009.

° "Observations from a mountain site in Colorado: The Storm Peak Aerosol and Clouds Characterization Study (SPACCS08)", Department of Atmospheric and Oceanic Sciences, University of Colorado, Boulder, 14 November 2008.

° "Exchanges of Organic Compounds Between the Biosphere and the Atmosphere", Marie Curie-iLEAPS Conference- Feedbacks-Land-Climate Dynamics. Hyeres, France, 17-21 November 2008.

° "Estimating Emissions from Fires", Environmental Engineering Department, University of Colorado at Boulder, Boulder, CO, 01 February 2008.

° "Estimating Emissions from Vegetation for Air Quality Modeling: Methods and Challenges", University of Texas at Austin, Austin, TX, 22 August 2007.

° "Aerosols and the Terrestrial Biosphere: Emissions, Processes, and Feedbacks"
- University of North Carolina at Chapel Hill, Chapel Hill, NC, 22 March 2007.
- ACD/TIIMES Seminar, NCAR, Boulder, CO, 22 January 2007.

° "Understanding and Quantifying Biosphere-Atmosphere Interactions," NCAR, Boulder, CO, 10 October 2005.

° "Working with spatial data to model and evaluate biosphere-atmosphere interactions", NCAR GIS Initiative Seminar, Boulder, CO, 22 March 2005.

° "Estimating Emissions from Fires in North America for Air Quality Modelers," Monitoring Science & Technology Symposium, Denver, CO, September 2004

- "Changes in biogenic isoprene emissions: How do they affect regional and global atmospheric chemistry?" International Young Scientist Global Change Conference, Trieste, Italy, November, 2003
- "Regional Air Quality in Texas and the Influence of Biogenic Isoprene," Gordon Research Conference: Biogenic Hydrocarbons and the Atmosphere, Ventura, CA, February, 2000
- Department of Chemical Engineering, Widener University, Chester, PA, May 1999
- Department of Environmental Engineering, Drexel University, Philadelphia, PA, May 1999

SELECTED CONFERENCE PRESENTATIONS

Wiedinmyer, C, I. Afreh, K.C. Barsanti, A.G. Carlton, 2018-12-12: Improved parameterizations for simulating the fate of monoterpene emissions. 2018 AGU Fall Meeting, Washington DC, USA.

Wiedinmyer, C., S.H. Chung, R.J. Yokelson, E. McDonald-Buller, T. Oda, C. Elvidge, L. Emmons, J. Orlando, "Constraining Emissions from Open Burning Sources and Their Atmospheric Impacts" Biomass Burning Symposium, AAAR Annual Meeting, Orlando, Florida, 23 October 2014.

Wiedinmyer, C., R. Li, M. Hannigan, K. Baker, A.G. Hallar, N. Clements, 2011: Coarse Particulate Matter in the Atmosphere: What do we really know? *AGU Fall Meeting*, San Francisco, CA, December 5-9, 2011.
Wiedinmyer, Christine; Louisa Emmons; John Orlando; Bob Yokelson; Sheryl Akagi; Jassim Al-Saadi; Amber Soja. "New global fire emission estimates and evaluation of volatile organic compounds." presented at the AGU Fall Meeting, San Francisco, CA, December 13-17, 2010.

Wiedinmyer, Christine, Jerome Fast, Alex Guenther, Serena Chung. "The Influence of Aerosols on Biogenic Emissions: Case Studies for… (1) Mexico and (2) Eastern U.S.", presented at the AGU Fall Meeting, San Francisco, CA, December 10-15, 2006.

Wiedinmyer, Christine, Chris Geron, Angie Belote, Brad Quayle, Don McKenzie, Xiaoyang Zhang, Susan O'Neill, Kristina Klos Wynne, and Alex Guenther. "Fire emissions from North America: A simple modeling approach", presented at the U.S. EPA Emission Inventory Conference, New Orleans, LA, May 18, 2006.

Wiedinmyer, Christine, Angie Belote, Kristina Klos, Alex Guenther, Brad Quayle, Chris Geron, Carol Shay, Tanarit Sakulyanontvittaya, and Jana Milford. "Estimating fire emissions and the impacts for air quality in the eastern United States", presented at the EastFIRE Conference, Fairfax, VA., May 11-13, 2005

Wiedinmyer, C., K. Klos, A. Belote, C. Geron, B. Quayle, A. Guenther, and C. Shay. "Daily fire emissions in North America for air quality modelers," Monitoring Science & Technology Symposium, Denver, CO, September 22, 2004.

Wiedinmyer, C., Ross, M.N. Reeves, J.M., Wilson, J.C., Brock, C.B. "Measurement of the aerosol size distributions in the stratospheric wakes of three rockets." Atmospheric Chemistry Colloquium for Emerging Senior Scientists (ACCESS). Brookhaven National Laboratory, Long Island, NY, June, 2001.

Wiedinmyer, C. "Regional Air Quality in Texas and the Influence of Biogenic Isoprene." Gordon Research Conference: Biogenic Hydrocarbons and the Atmosphere. Ventura, CA. February 27 – March 3, 2000.

Geron, C., Guenther, A., Greenberg, J., Wiedinmyer, C. "Scaling Isoprene Emissions in the Western and Central United States." American Geophysical Union Fall Conference. San Francisco, Ca. December 1999.

Wiedinmyer, C. and D. Allen. (Paper 99-236) "Isoprene Emissions and Concentrations in Central Texas." Proceedings of the Air and Waste Management Association's 92nd Annual Meeting. St. Louis, MO. June 20-24, 1999.

Wiedinmyer, C., Strange, W., Allen, D. (Paper 99-233) "Vegetation Coverage for Central Texas." Proceedings of the Air and Waste Management Association's 92nd Annual Meeting. St. Louis, MO. June 20-24, 1999.

Estes, M., Smith, J., Wiedinmyer, C. "Hierarchical Emissions Inventory Development for Nested Photochemical Modeling Part 3: Biogenic Sources." Proceeding of the Air and Waste Management Association Emission Inventory Conference. New Orleans, LA. Dec. 8-10, 1998.

SELECTED POSTER PRESENTATIONS

Wiedinmyer, C., Y. Kiumra, E. McDonald-Buller, J. Zheng, "The influence of land cover characterization on emissions estimates from the Fire INventory from NCAR (FINN), Presented at the AGU Fall Meeting, San Francisco, CA, 19 December 2014.

Wiedinmyer, C., Jassim Al-Saadi, Louisa Emmons, Robert Yokelson, Sheryl Akagi, Amber Soja, Colette Heald. "High resolution fire emission estimates for air quality applications", Presented at the AGU Fall Meeting, San Francisco, CA, December 14-18, 2009.

Wiedinmyer, C., S. Chung, J. Fast, and A. Guenther. "Impacts of aerosols on meteorology and biogenic emissions", Presented at the Biogenic Hydrocarbons and the Atmosphere Gordon Research Conference, Ventura, CA, Feb. 25- March 2, 2007.

Wiedinmyer, Christine, Tanarit Sakulyanontvittaya, Jana Milford, Alex Guenther, Detlev Helmig, Chao-Jung Chien, John Ortega, Tiffany Duhl, David Tanner, Angie Belote, Chris Geron, Brad Quayle. "Estimating the impact of biogenic sesquiterpene and fire emissions to organic aerosol concentrations", presented at the 24th Annual AAAR Annual Conference, Austin, TX, Oct. 17-21, 2005.

Matsunaga, S., C. Wiedinmyer, S. Kato, A. Yoshino, Y. Miyakawa, J. Greenberg, Y. Kajii, A. Guenther. "Sources of Biogenic and Anthropogenic Semi Volatile Organic Carbonyls and Their Effects on the Air Quality in Suburban and Remote Areas." Presented at the 2004 Fall AGU Meeting, San Francisco, CA, December 12-17, 2004.

Nandi, S., U. Vanchindorj, C. Wiedinmyer, A. Guenther, E. Prins, A. Setzer, P. Artaxo, C. Elvidge. "Uncertainties in Satellite Based Fire Emission Inventories in the Amazon." Presented at the 2004 Fall AGU Meeting, San Francisco, CA, December 12-17, 2004.

Chen, J., J. Avise, B. Lamb, C. Wiedinmyer, A. Guenther, J.F. Lamarque, E. Salathe, C. Mass. "Influence of Global Change and Asian Emissions on Regional Air Quality in the Pacific Northwest." Presented at the 2004 Fall AGU Meeting, San Francisco, CA, December 12-17, 2004.