

CHRISTINE WIEDINMYER

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SUMMARY

- Scientist at National Laboratory. Expertise in emissions measurement and modeling, air quality modeling, examining the interactions over time and space.
 - o Model Development: Developer of the Fire INventory for NCAR (FINN)
 - o Field Work: Principle Investigator of the REACCTING Study
 - o Participant in field work
- Computing Experience: ArcGIS, IDL, FORTRAN, IGOR
- Instrumentation: O₃, NO_x/NO_y, CO, VOC collection with canisters/cartridges and analyses with GC-MS/FID, low-cost sensors, PM collection
- Funding: Extensive experience with development, preparing and submitting proposals; Awardee of more than \$5M in research funding
- Mentor: Mentor and advisor to high school, undergrad, graduate students, and scientists/engineers.
- Leadership: Organized meetings and workshops. Serve on scientific advisory committees, member of several Boards.
- Communication: Author of 100+ peer-reviewed articles; invited international lecturer.

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

<i>Scientist III</i>	2012 - present
<i>Scientist II</i>	2008 – 2012
<i>Scientist I</i>	2005 – 2008
National Center for Atmospheric Research, Boulder, CO <i>Atmospheric Chemistry Division, NCAR Earth System Laboratory</i>	
<i>Project Scientist I</i>	2001 – 2005
National Center for Atmospheric Research, Boulder, CO <i>Atmospheric Chemistry Division</i>	
<i>Research Associate</i>	2001
University of Colorado, CIRES, Boulder, CO (at the National Oceanic and Atmospheric Administration, Aeronomy Lab)	
<i>Post-Doctoral Research Scientist/Research Faculty</i>	2000 – 2001
University of Denver, Denver, CO <i>Department of Mechanical Engineering</i>	

<i>Graduate Research Assistant</i> University of Texas at Austin, Austin, TX <i>Department of Chemical Engineering</i>	1995 – 1999
<i>Consultant</i> ENVIRON Technology, Inc., Novato, CA	1998-1999
<i>Consultant</i> Pollution Solutions, Austin, TX	1998
<i>Undergraduate Research Assistant</i> Tulane University, New Orleans, LA <i>Department of Chemical Engineering</i>	1993-1994

HONORS

NASA Group Achievement Award for SEAC⁴RS (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:

Chitsan Wang, School of Engineering and Public Health, Univ. of N. Carolina at Chapel Hill (Ph.D.2017)
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.

TEACHING EXPERIENCE

Guest Lecturer: *Colorado College*

- Introduction to Global Climate Change, 03 February 2015 (Rebecca Barnes, Professor)

Guest Lecturer: *University of Denver*

- Global Environmental Studies, November 04, 2010 (Sandy Johnson, Instructor)
- Sustainable Development and Environment, Oct. 30, 2008 (Sandy Johnson, Instructor)
- Sustainable Development and Environment, Oct. 10, 2007 (Sandy Johnson, Instructor)

Guest Lecturer: *University of Colorado at Boulder*

- Environmental Modeling, 20 March 2017 (Jana Milford, Instructor)
- Energy and the Environment, ENVS3070/PHYS3070, 28 February 2014 (Jerry Peterson, Instructor)
- Intro. to Environmental Studies, ENVS 1000, October 26, 2011 (Lisa Dilling, Instructor)
- Intro. to Environmental Studies, ENVS 1000, March 14, 2011 (Ryan Vachon, Instructor)
- Intro. to Environmental Studies, ENVS 1000, October 25, 2010 (Lisa Dilling, Instructor)
- Biosphere-Atmosphere Interactions, CIRES, March 16, 2010 (Noah Fierer and Rus Monson, Instructors)
- Air Pollution Control, MCEN 4131/5131, Mechanical Engineering, March 02, 2010 (Jana Milford, Instructor)
- Organics in the Atmosphere, CHEM 6111, April 22, 2008 (Veronica Vaida, Instructor)
- Air Pollution Control, MCEN4131/5131, Mechanical Engineering, April 2007 (Jana Milford, Instructor)
- Environmental Modeling, MCEN 4228/5228, Mechanical Engineering, April 2006 (Jana Milford, Instructor)
- Energy and the Environment Seminar: Biomass, MCEN 5228-001, Mechanical Engineering, March 30, 2005 (Mike Hannigan and Shelly Miller, Instructor)
- Energy and the Environment Seminar: Aerosols, MCEN 5228-005, Mechanical Engineering, November 2004 (Mike Hannigan, Instructor)
- Environmental Science and Policy, Spring 2004 (Professor Linnea Avelone)
- Fluid Mechanics, Mechanical Engineering, Fall 2002 (Michael Hannigan, instructor)

Guest Lecturer (online): *North Carolina A&T University*

- Atmospheric Chemistry, 25 January 2011

Guest Lecturer (online): *Immaculata College, Pennsylvania*

- Environmental Health for Nursing Students, 20 February 2014

Guest Lecturer (online): *Widener University, Chester, PA*

- Women Leading & Learning in Education , ED 693, March 29, 2011, Doctoral Program in Higher Education Leadership (Patricia Lawler, Instructor)
- Women Leading & Learning in Education , ED 693, June 24, 2010, Doctoral Program in Higher Education Leadership (Patricia Lawler, Instructor)

Design Project Mentor: *University of Colorado at Boulder, (Spring Semester, 2003)*

- Air Pollution Control (MCEN4131/5131) (Michael Hannigan & Elisabeth Andrews, Instructors)

Instructor: *Univ. of Denver, (Fall 2000, Winter 2001), Mechanical Engineering Laboratory I and II*

Teaching Assistant: *University of Texas at Austin, (Spring Semesters 1997, 1998, 1999) ChE 317-Introduction to Chemical Engineering (Pam Tucker, Professor)*

PROFESSIONAL TRAINING

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

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.

Board member and Founding member, Earth Science Women's Network (ESWN), 2002-present (<http://www.eswnonline.org>).

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:

<i>Nature-Geosciences</i>	<i>Nature</i>
<i>Environmental Research Letters</i>	<i>Journal of Air & Waste Management Association</i>
<i>Journal of Geophysical Research- Atmospheres</i>	<i>Geoscientific Model Development</i>
<i>Atmospheric Chemistry & Physics</i>	UK National Environment Research Council
<i>Atmospheric Environment</i>	U.S. Environmental Protection Agency
<i>Geophysical Research Letters</i>	U.S. Department of Defense
<i>Environmental Science & Technology</i>	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.

FUNDED GRANTS (SINCE 2006)

NASA ROSES Grant, "Assimilation and Analysis of Terra Observations of Amazonian Biomass Burning Emissions", M. Deeter (PI), A. Arellano (Co-PI), C. Wiedinmyer (Co-I), E. Fisher (Co-I), M. val Martin (Co-I), September 2014-August 2017. (TOTAL:

E.P.A. STAR Grant, "Determinants of indoor and outdoor exposure to ozone and extreme heat in a warming climate and the health risks for an aging population," D. Sailor (PI), O. Wilhelmi (Co-PI), S. Sain (Co-I), C. Wiedinmyer (Co-I), January 2015 – August 2017.

E.P.A. STAR Grant, "Lighting and Cooking in the Sub-Saharan Africa: How changes in technology and fuels can impact Air Quality and Climate," Michael Hannigan (PI), Christine Wiedinmyer (Co-PI), February 2014-January 2017.

E.P.A. STAR Grant, “Improving air quality, health and the environment through household energy interventions on the Tibetan Plateau,” Jill Baumgartner (PI), Christine Wiedinmyer (Co-I), Majid Ezzati (Co-I), James Schauer (Co-I), Xudon Yang (Co-I), January 2014 – December 2016.

NSF Coupled Natural and Human Dimensions Grant, “Cooking up Clean Air - Scaled-up Air Quality and Health Impacts of Clean Cookstoves in Ghana”, Christine Wiedinmyer (PI), Vanja Dukic (co-PI), Michael Hannigan (co-PI), Mary Hayden (co-I), A. Oduro (Co-I) October 2012 – September 2016.

Texas Air Quality Research Program, “Targeted Improvements in the Fire INventory from NCAR (FINN) Model for Texas Air Quality Modeling ,” Elena McDonald-Buller (PI), Christine Wiedinmyer, (Co-I), Chris Emery (Co-I), February 2014 - June 2015.

USDA AFRI Grant, “Projecting Climate Change Mitigation and Adaptation in Fire-Prone Forests under Future Climate Change,” M. Hurteau (PI), A. Westerling, (Co-I), C. Wiedinmyer (co-I), September 2012 – August 2015.

Texas Air Quality Research Program, “Evaluating the uncertainties associated with fire emissions and their impacts on air quality in Texas,” Elena McDonald-Buller (PI), Christine Wiedinmyer, (Co-I), Chris Emery (Co-I), Sept 2012 – November 2013.

E.P.A. STAR Grant, “Coarse PM Emissions Model Development and Inventory Validation” Michael Hannigan (PI), Noah Fierer (Co-PI), Christine Wiedinmyer (Co-PI), June 01, 2010 – December 31, 2012.

NSF ADVANCE Grant “Collaborative Research: Facilitating career advancement for women in the Geosciences through the Earth Science Women’s Network (ESWN)”, Christine Wiedinmyer (Co-PI), Meredith Hastings (Co-PI), Sandra Laursen (Co-I), Allison Steiner (Co-I), Tracey Holloway (Co-I), Erika Marin-Spiotta (Co-I), Arlene Fiore (Co-I), Oct. 2009- Sept. 2012.

NOAA CPPA Grant, “Including the Impacts of Forest Disturbances in Western North America in Climate Models.” Fei Chen (PI), Christine Wiedinmyer (Co-I), Michael Barlage (Co-I), Jeff Hicke (Co-I). June 2009-May 2012.

E.P.A. STAR Grant, “Impact of Climate Change on U.S. Air Quality using Multi-scale Modeling with the MM5/SMOKE/CMAQ System.” Lamb, B. (PI), October 1, 2003 - September 30, 2006.

E.P.A. STAR Grant, “Atmospheric Aerosols from Biogenic Hydrocarbon Oxidation.” Jana Milford (PI), Alex Guenther (Co-PI), Christine Wiedinmyer (Co-PI), and Detlev Helmig (Co-PI). October 1, 2003–September 30, 2006.

PEER-REVIEWED PUBLICATIONS

h index = 36/48 (ISI/Google Scholar) as of June 2017

(* Advised graduate student; #Advised post-doc; ^Graduate student; %Post-doc)

Submitted

Coffey, Evan; **Muvandimwe, Didier; Hagar, Yolanda; **Wiedinmyer, Christine; Kanyomse, Ernest; **Piedrahita, Ricardo; Dickinson, Katherine; Oduro, Abraham; Hannigan, Michael. Implications of new emission factors and efficiencies from in-field measurements of traditional and improved cookstoves. Submitted to *Environmental Science & Technology*, May 2017.

Ricardo Piedrahita, Yolanda Hagar, Ernest Kanyomse, Evan Coffey, Katelin Verploeg, **Christine Wiedinmyer, Katherine Dickinson, Abraham Oduro, Michael Hannigan. Bluetooth Beacon proximity sensing to improve exposure assessment. Submitted to *Journal of Exposure Science and Environmental Epidemiology*, February 2017.

Ricardo Piedrahita, Ernest Kanyomse, Evan Coffey, Yolanda Hagar, Katelin Verploeg, **Christine Wiedinmyer, Katherine Dickinson, Abraham Oduro, Michael Hannigan. Exposures to carbon monoxide in a cookstove intervention in Northern Ghana. Submitted to *Indoor Air*, January 2017.

^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. Adoption and use of a semi-gasifier cooking and water heating stove and fuel intervention in the Tibetan Plateau. Submitted to *Environmental Research Letters*, February 2017.

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. Will air pollution in South Asia continue to be a risk by 2050? Submitted to *ES&T*, December 2016.

Accepted/Published

1. 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. Quantifying black carbon deposition over the Greenland ice sheet from forest fires in Canada. Accepted to *Geophysical Research Letters*, June 2017.
2. **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*, in press, April 2017.
3. 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.
4. #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.
5. #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.
6. **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 PM_{2.5} in a cookstove intervention in Northern Ghana. *Science of the Total Environment*, 576, pp 178-192, DOI: 10.1016/j.scitotenv.2016.10.069.
7. Saunio, 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.
8. #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.
 9. ^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.
 10. 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.
 11. %Eloise Marais and **Christine Wiedinmyer**. Air quality impact of Diffuse and Inefficient Combustion Emissions in Africa (DICE-Africa). *Environmental Science & Technology*, 50 (19), pp 10739–10745 DOI: 10.1021/acs.est.6b02602, 2016.
 12. **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.
 13. #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.
 14. #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.
 15. 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.
 16. 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.
 17. ^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..

18. 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; Lioussse, 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.
19. **Wiedinmyer, C.** (2015) Atmospheric Chemistry: Breathing easier in the Amazon, *Nature-Geoscience*, 8, 751-752, doi:10.1038/ngeo2550.
20. *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.
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OTHER PUBLICATIONS

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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

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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.

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INVITED TALKS

- “Emissions and Impacts of Air Pollutants from Biomass Burning”, 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, Corvallis, 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/TIEMS 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., 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.

Wiedinmyer, C., Guenther, A.B, Harley, P., Hewitt, C.N., Geron, C., Schnell, R., Otter, L., Street, R., Stuart, H., Scholefield, P., Owen, S., Karl, T. "The development of a web-based biogenic emissions measurement database and future model applications." Presented at the Biogenic Hydrocarbons and the Atmosphere Gordon Conference, Queen's College, Oxford, U.K., September 2002.

Wiedinmyer, C. and Guenther, A. "Creating Biogenic Emissions Estimates with GIS." NCAR GIS Initiative Workshop, Boulder, CO, August 2002.

Wiedinmyer, C. Michael Trainer, Greg Frost, Stu McKeen, Tom Ryerson, Paul Goldan, John Holloway, Bill Kuster, Eric Williams, Donna Sueper, David Parrish, Fred Fehsenfeld, Elliot Atlas, Stephen Donnelly, Susan Schaffler. "Evaluation of Emissions Inventories in Southeast Texas." TexAQS2000 Science Workshop, Austin, TX, August, 2001.

Wiedinmyer, C. Ross J. Salawitch, Patrick J. Sheridan, Chuck Brock J. Michael Reeves, Martin Ross, J. C. Wilson. "Perturbed chemistry in a stratospheric plume containing carbon particles: Possible evidence for additional heterogeneous reactions." Atmospheric Chemistry Gordon Conference, Newport, RI, June, 2001.

Wilson, J.C., Reeves, J.M., Gessler, D., Brock, C., LaFleur, B., Wiedinmyer, C. "Non-Cloud Aerosol Size Distribution Measurements in the Northern Hemisphere Winter." SOLVE/THESEO Science Meeting. Palermo, Italy, Sept. 24-29, 2000.

Wiedinmyer, C., Strange, W., Allen, D. "Land Use Characterization in Texas for use in Photochemical Models." American Geophysical Union Fall Conference. San Francisco, Ca. December 1999.

McDonald-Buller, E., Wiedinmyer, C., Kimura, Y., Allen, D. "Effects of Land Use Classification and Scaling on Dry Deposition and Ozone Formation in Eastern Texas." American Geophysical Union Fall Conference. San Francisco, Ca. December 1999.