

**CURRICULUM VITAE  
PAWEL KONRAD MISZTAL**

Assistant Professor  
Department of Civil, Architectural and Environmental Engineering  
University of Texas at Austin  
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**EDUCATION**

University of California at Berkeley	Environmental Science, Policy and Management	Postdoc	2015
The University of Edinburgh, UK	Chemistry	PhD	2010
Maria Curie-Sklodowska University in Lublin, Poland	Chemistry	MS	2003
Maria Curie-Sklodowska University in Lublin, Poland	Chemistry and Physics	BS	2001

**PROFESSIONAL EXPERIENCE - Academic**

University of Texas at Austin	Assistant Professor	2019 – Present
University of California at Berkeley	Research Specialist	2015 – 2018
The University of Edinburgh	Laboratory Demonstrator	2007 – 2010
John Paul II Catholic University of Lublin	Research Assistant	2004 – 2007

**HONORS AND AWARDS**

Outstanding Reviewer Award 2018 by Biogeosciences, 2019.

Opinion featured by CNN: “Rabbit gene turns houseplant into air detoxifier”, 2019.

Invited Lecturer at the International Graduate Course on Biogenic Volatile Organic Compounds at University of Copenhagen, Denmark, November 4-8, 2019.

**PROFESSIONAL SERVICE/LEADERSHIP**

Associate Editor: *Frontiers in Forests and the Global Change*

Reviewer/referee: *Nature Communications, Environmental Science & Technology, Atmospheric Chemistry and Physics, Atmospheric Environment, Atmospheric Measurement Techniques, Biogeosciences, Geophysical Research Letters, Journal of Geophysical Research, Agricultural and Forest Meteorology, Biogeochemistry, Plant Physiology and Biochemistry, Indoor Air, Building and Environment, Geoscientific Model Development, Scientific Reports, Global Change Biology, PLOS ONE, Frontiers in Chemistry, Nature ISME Multidisciplinary Journal of Microbial Ecology.*

Lead convener of the European Geosciences Union session “Volatile Organic Compounds in the Atmosphere: Sources, Sinks and Transformations”, General Assembly 2019, Vienna, Austria, 7-12 April, 2019.

Session chair of Healthy Buildings 2017 Europe Conference, Lublin 2-5 July 2017. Session title: “Chemical Pollutants – Sources and Fates”.

Co-convener of the European Geosciences Union session “Biosphere-Atmosphere Exchange, Biosynthesis, and Oxidation of Volatile Organic Compounds Across Terrestrial and Marine Ecosystems”, BG1.11, EGU General Assembly, Vienna, Austria, April 12-17, 2015.

Chair and convener of the oral session “Biosphere-Atmosphere Exchange, Biosynthesis, and Oxidation of Volatile Organic Compounds Across Terrestrial and Marine Ecosystems”, B22G, AGU Fall Meeting, San Francisco 9-13 December 2013.

Chair and convener of the poster session “Biosphere-Atmosphere Exchange, Biosynthesis, and Oxidation of Volatile Organic Compounds Across Terrestrial and Marine Ecosystems”, B23A, AGU Fall Meeting, San Francisco 9-13 December 2013.

Chair and convener of the oral session “Measurements and Modeling of Biogenic Volatile Organic Compounds Across Terrestrial and Marine Ecosystems and the Atmosphere I”, B44C, AGU Fall Meeting, San Francisco 3-7 December 2012.

Chair and convener of the poster session “Measurements and Modeling of Biogenic Volatile Organic Compounds Across Terrestrial and Marine Ecosystems and the Atmosphere II”, B51E, AGU Fall Meeting, San Francisco 3-7 December 2012.

Co-chair and co-convener of oral sessions “Exchange Dynamics of Volatile Organic Compounds Between Plant Ecosystems and Atmosphere”, B53A and B54A, AGU Fall Meeting, San Francisco 5-9 December 2011.

Co-chair of poster session “Exchange Dynamics of Volatile Organic Compounds Between Plant Ecosystems and Atmosphere”, B51E, AGU Fall Meeting, San Francisco 5-9 December 2011.

### PROFESSIONAL SOCIETY AFFILIATIONS

American Society of Civil Engineers	2019 – current
American Geophysical Union	2009 – current
Royal Society of Chemistry	2007 – current
American Chemical Society	2015 – current
American Society for Microbiology	2018 – current
FLUXNET	2008 – current
International Society of Indoor Air Quality and Climate	2016 – current

### INTERVIEWS & MEDIA EVENTS/MENTIONS

CNN, Jack Guy, “Rabbit gene turns houseplant into air detoxifier”, 21 Dec 2018.

AAAS, EurekAlert, Nat Levy, “COVID-19 has led to more deep cleaning: Which disinfectants and masks work best together?”, 29 April 2020.

Chemistry World, Nina Notman, “Human Chemical Communication”, 21 Sept 2020.

### RESEARCH GRANTS AND CONTRACTS

*Funded projects since starting at UT Austin in Fall 2019. Asterisk (\*) denotes grants where Dr. Misztal is lead PI for UT.*

PI	Title	Sponsor	Grant Total (Misztal’s share)	Grant Period
Hildebrandt-Ruiz, Novoselac, Misztal	RAPID: COVID Response: Identifying practices that minimize exposure to disinfection	NSF	\$190,337 (\$190,337)	05/1/20- 04/30/21
Adams, Goldstein, Dannemiller, *Misztal	Chemistry of Homes: Environmental Microbes and Moisture (CHEMM)	A.P. Sloan	\$780,000 (\$192,914)	1/1/19- 12/31/21

Hildebrandt-Ruiz, Misztal	Novel Measurements of Hydrocarbons in the Eagle Ford Shale	TARC	\$19,350	04/01/20-06/30/21
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#### **OTHER FUNDED AND UNFUNDED RESEARCH COLLABORATIONS**

Meredith, Werner, Misztal et al. (multi-collaborative effort with 50 participants, 20 research groups and 13 institutions)	B2-WALD (Biosphere 2 – Rainforest Water, Atmosphere and Life Dynamics)		unfunded	2019 - 2021
Goldstein, Nazaroff, Misztal (co-I)	Abundance, Sources, and Fates of Organic Chemicals in Residential Environments	A.P. Sloan	\$750,000	2016-2018

#### **UNIVERSITY COMMITTEE ASSIGNMENTS**

Member, CAEE Distinguished Lecture Series Committee	2019 – present
Member, CAEE Department Search Committee for Building Energy and Environments	2020
Member, Doctoral Dissertation Committee, Chemical Engineering	2020

#### **COURSES TAUGHT**

CE 397 – Novel Air Quality Measurement Techniques, Graduate, F19, F20  
 CE 369R – Indoor Air Quality, Undergraduate, Sp20, Sp21  
 CE 397C – Master’s Research, Graduate, Sp20  
 CE W397C – Master’s Research, Graduate, Su20  
 CE 698A – Thesis, Graduate, Sp20

#### **STUDENT RESEARCH AND ADVISING**

##### **Students/Postdoctoral Researchers Supervised at UT Austin (Misztal Students)**

**PhD** – Emma Hall, Daniel Blomdahl, Elena Christopher-Allison

**Postdoctoral Researchers** – Dr. Leif Jahn

**Research Associates** – Dr. Shahana Khurshid

##### **PhD Dissertation Committee, Master Thesis Committee (Non-Misztal Students)**

**Departmental of Civil, Architectural and Environmental Engineering** – Mark Campmier, Sarah Chambliss, Mengjia Tang

**Departmental of Chemical Engineering** – Nirvan Bhattacharyya, Pearl Abue

#### **REFEREED, ARCHIVAL PUBLICATIONS**

[Google Scholar](#), [ORCID](#), h-index: 29, i10-index: 56, Citations: 3196 (as of January 2021).

37. Liu, Y., **Misztal, P. K.**, Arata, C., Weschler, C. J., Nazaroff, W. W. and Goldstein, A. H.: Observing ozone chemistry in an occupied residence, *Proc. Natl. Acad. Sci.*, 118(6), doi:10.1073/PNAS.2018140118, 2021.
36. Roberts, S.C., **Misztal, P.K.**, and Langford, B.: Decoding the social volatilome by tracking rapid context-dependent odour changes. *Philosophical Transactions of the Royal Society B*, 10.1098/rstb.2019.0259, 2020.
35. Heald, C. L., Gouw, J. De, Goldstein, A. H., Guenther, A. B., Hayes, P. L., Hu, W., Isaacman-Vanwertz, G., Jimenez, J. L., Keutsch, F. N., Koss, A. R., **Misztal, P. K.**, Rappenglück, B., Roberts, J. M., Stevens, P. S., Washenfelder, R. A., Warneke, C. and Young, C. J.: Contrasting Reactive Organic Carbon Observations in the Southeast United States (SOAS) and Southern California (CalNex), *Environ. Sci. Technol.*, doi:10.1021/acs.est.0c05027, 2020.
34. Lunderberg, D. M., Kristensen, K., Tian, Y., Arata, C., **Misztal, P. K.**, Liu, Y., Kreisberg, N., Katz, E. F., Decarlo, P. F., Patel, S., Vance, M. E., Nazaroff, W. W. and Goldstein, A. H.: Surface Emissions Modulate Indoor SVOC Concentrations through Volatility-Dependent Partitioning, *Environ. Sci. Technol.*, doi:10.1021/acs.est.0c00966, 2020.
33. Dayan, C., Fredj, E., **Misztal, P. K.**, Gabay, M., Guenther, A. B. and Tas, E.: Emission of biogenic volatile organic compounds from warm and oligotrophic seawater in the Eastern Mediterranean, *Atmos. Chem. Phys.*, 20(21), 12741–12759, doi:10.5194/acp-20-12741-2020, 2020.
32. Tian, Y., Arata, C., Boedicker, E., Lunderberg, D. M., Patel, S., Sankhyan, S., Kristensen, K., **Misztal, P. K.**, Farmer, D. K., Vance, M., Novoselac, A., Nazaroff, W. W. and Goldstein, A. H.: Indoor Emissions of Total and Fluorescent Supermicron Particles during HOMEChem, *Indoor Air*, doi:10.1111/ina.12731, 2020.
31. Haines, S. R., Adams, R. I., Boor, B. E., Bruton, T. A., Downey, J., Ferro, A. R., Gall, E., Green, B. J., Hegarty, B., Horner, E., Jacobs, D. E., Lemieux, P., **Misztal, P. K.**, Morrison, G., Perzanowski, M., Reponen, T., Rush, R. E., Virgo, T., Alkhayri, C., Bope, A., Cochran, S., Cox, J., Donohue, A., May, A. A., Nastasi, N., Nishioka, M., Renninger, N., Tian, Y., Uebel-Niemeier, C., Wilkinson, D., Wu, T., Zambrana, J. and Dannemiller, K. C.: Ten questions concerning the implications of carpet on indoor chemistry and microbiology, *Build. Environ.*, 170, 2020.
30. Arata, C., Heine, N., Wang, N., **Misztal, P.K.**, Wargoeki, P., Beko, G., Williams, J., Nazaroff, W.W., Wilson, K.R. and Goldstein, A.H.: Heterogeneous Ozonolysis of Squalene: Gas-Phase Products Depend on Water Vapor Concentration. *Environmental Science & Technology*, 53, 14441-14448, 2019.
29. Liu, Y., **P.K. Misztal**, J. Xiong, Y. Tian, C. Arata, R.J. Weber, W.W. Nazaroff, A.H. Goldstein, Characterizing sources and emissions of volatile organic compounds in a northern California residence using space- and time-resolved measurements, *Indoor Air*, 29 (4), 630–644, DOI: 10.1111/ina.12562, 2019.
28. Kristensen, K., D.M. Lunderberg, Y. Liu, **P.K. Misztal**, Y. Tian, C. Arata, W.W. Nazaroff, A.H. Goldstein, Sources and Dynamics of Semivolatile Organic Compounds in a Single-Family Residence in Northern California, *Indoor Air*, 29 (4), 645–655, DOI: 10.1111/ina.12561, 2019.
27. Xiong, J.Z. He, X.Tang, **P.K. Misztal**, and A.H. Goldstein, Modeling the Time-Dependent Concentrations of Primary and Secondary Reaction Products of Ozone with Squalene in a University Classroom, *Environ. Sci. Technol.*, 53, 14, 8262-8270, DOI: 10.1021/acs.est.9b02302, 2019.
26. Lunderberg, D., K. Kristensen, Y. Liu, **P. Misztal**, Y. Tian, C. Arata, R. Wernis, N. Kreisberg, W.W. Nazaroff, and A.H. Goldstein, Characterizing Airborne Phthalate Concentrations and Dynamics in a Normally Occupied Residence, *Environ. Sci. Technol.*, 53, 137,337-7346, DOI: 10.1021/acs.est.9b02123, 2019.
25. **Misztal, P. K.**, Lymperopoulou, D. S., Adams, R., Scott, R., Lindow, S., Bruns, T., Taylor, J. W., Uehling, J., Bonito, G., Vilgalys, R., and Goldstein, A. H.: Emission Factors of Microbial Volatile Organic Compounds from Environmental Bacteria and Fungi, *Environmental Science & Technology*, 10.1021/acs.est.8b00806, 2018.

24. Arata, C., K.J. Zarzana, **P.K. Misztal**, Y. Liu, S.S. Brown, W.W. Nazaroff, and A.H. Goldstein, Measurement of NO<sub>3</sub> and N<sub>2</sub>O<sub>5</sub> in a Residential Kitchen, *Environ. Sci. Technol. Lett.*, 5 (10), pp 595–599, DOI: 10.1021/acs.estlett.8b00415, 2018.
23. Isaacman-VanWertz, G., Massoli, P., O'Brien, R., Lim, C., Franklin, J. P., Moss, J. A., Hunter, J. F., Nowak, J. B., Canagaratna, M. R., **Misztal, P. K.**, Arata, C., Roscioli, J. R., Herndon, S. T., Onasch, T. B., Lambe, A. T., Jayne, J. T., Su, L., Knopf, D. A., Goldstein, A. H., Worsnop, D. R., and Kroll, J. H.: Chemical evolution of atmospheric organic carbon over multiple generations of oxidation, *Nature Chemistry*, 10.1038/s41557-018-0002-2, 2018.
22. Yang, T., Xiong, J., Tang, X. and **Misztal, P.K.**, 2018. Predicting indoor emissions of cyclic volatile methylsiloxanes from the use of personal care products by university students. *Environmental science & technology*, 52(24), pp.14208-14215.
21. Liu, Y., **P.K. Misztal**, J. Xiong, Y. Tian, C. Arata, W.W. Nazaroff, A.H. Goldstein, Detailed investigation of ventilation rates and airflow patterns in a northern California residence, *Indoor Air*, 1–13, DOI: 10.1111/ina.12462, 2018.
20. Tian, Y., Liu, Y., **P.K. Misztal**, J. Xiong, C.M. Arata, A.H. Goldstein, W.W. Nazaroff, Fluorescent biological aerosol particles: Concentrations, emissions, and exposures in a northern California residence, *Indoor Air*, 00:1–13, DOI: 10.1111/ina.12461, 2018.
19. Adams, R. I., Lymperopoulou, D. S., **Misztal, P. K.**, De Cassia Pessotti, R., Behie, S. W., Tian, Y., Goldstein, A. H., Lindow, S. E., Nazaroff, W. W., Taylor, J. W., Traxler, M. F., and Bruns, T. D.: Microbes and associated soluble and volatile chemicals on periodically wet household surfaces, *Microbiome*, 5, 128, 10.1186/s40168-017-0347-6, 2017.
18. Kurtén, T., Møller, K. H., Nguyen, T. B., Schwantes, R. H., **Misztal, P. K.**, Su, L., Wennberg, P. O., Fry, J. L., and Kjaergaard, H. G.: Alkoxy Radical Bond Scissions Explain the Anomalously Low Secondary Organic Aerosol and Organonitrate Yields From  $\alpha$ -Pinene + NO<sub>3</sub>, *The Journal of Physical Chemistry Letters*, 8, 2826-2834, 10.1021/acs.jpcclett.7b01038, 2017.
17. Yu, H., Guenther, A., Gu, D., Warneke, C., Geron, C., Goldstein, A., Graus, M., Karl, T., Kaser, L., **Misztal, P.**, and Yuan, B.: Airborne measurements of isoprene and monoterpene emissions from southeastern U.S. forests, *Science of The Total Environment*, 595, 149-158, <https://doi.org/10.1016/j.scitotenv.2017.03.262>, 2017.
16. Uehling, J., Gryganskyi, A., Hameed, K., Tschaplinski, T., **Misztal, P. K.**, Wu, S., Desirò, A., Vande Pol, N., Du, Z., Zienkiewicz, A., Zienkiewicz, K., Morin, E., Tisserant, E., Splivallo, R., Hainaut, M., Henrissat, B., Ohm, R., Kuo, A., Yan, J., Lipzen, A., Nolan, M., LaButti, K., Barry, K., Goldstein, A. H., Labbé, J., Schadt, C., Tuskan, G., Grigoriev, I., Martin, F., Vilgalys, R. and Bonito, G., Comparative genomics of *Mortierella elongata* and its bacterial endosymbiont *Mycoavidus cysteinexigens*. *Environ Microbiol.* doi:10.1111/1462-2920.13669, 2017.
15. **Misztal, P. K.**, Avise, J. C., Karl, T., Scott, K., Jonsson, H. H., Guenther, A. B., and Goldstein, A. H.: Evaluation of regional isoprene emission factors and modeled fluxes in California, *Atmos. Chem. Phys.*, 16, 9611-9628, doi:10.5194/acp-16-9611-2016, 2016.
14. Tang, X., **Misztal, P.K.**, Nazaroff, W.W. and Goldstein, A.H.: Volatile Organic Compound Emissions from Humans Indoors, *Environmental Science & Technology*, 50, 12686-12694, doi:10.1021/acs.est.6b04415, 2016.
13. Amador-Muñoz, O., **Misztal, P. K.**, Weber, R., Worton, D. R., Zhang, H., Drozd, G., and Goldstein, A. H.: Sensitive detection of n-alkanes using a mixed ionization mode proton-transfer-reaction mass spectrometer, *Atmos. Meas. Tech.*, 9, 5315-5329, <https://doi.org/10.5194/amt-9-5315-2016>, 2016.
12. Su, L., Patton, E. G., Vilà-Guerau de Arellano, J., Guenther, A. B., Kaser, L., Yuan, B., Xiong, F., Shepson, P. B., Zhang, L., Miller, D. O., Brune, W. H., Baumann, K., Edgerton, E., Weinheimer, A., **Misztal, P. K.**, Park, J.-H., Goldstein, A. H., Skog, K. M., Keutsch, F. N., and Mak, J. E.: Understanding isoprene photooxidation using observations and modeling over a subtropical forest in the southeastern US, *Atmos. Chem. Phys.*, 16, 7725-7741, doi:10.5194/acp-16-7725-2016, 2016.
11. Romer, P. S., Duffey, K. C., Wooldridge, P. J., Allen, H. M., Ayres, B. R., Brown, S. S., Brune, W. H., Crouse, J. D., de Gouw, J., Draper, D. C., Feiner, P. A., Fry, J. L., Goldstein, A. H., Koss, A.,

- Misztal, P. K.**, Nguyen, T. B., Olson, K., Teng, A. P., Wennberg, P. O., Wild, R. J., Zhang, L., and Cohen, R. C.: The lifetime of nitrogen oxides in an isoprene-dominated forest, *Atmos. Chem. Phys.*, 16, 7623-7637, doi:10.5194/acp-16-7623-2016, 2016.
10. Tang, X., **Misztal, P. K.**, Nazaroff, W. W., Goldstein, A. H.: Siloxanes Are the Most Abundant Volatile Organic Compound Emitted from Engineering Students in a Classroom. *Environmental Science & Technology Letters*, 2, 303-307, doi:10.1021/acs.estlett.5b00256, 2015.
9. **Misztal, P. K.**, Hewitt, C. N., Wildt, J., Blande, J. D., Eller, A. S. D., Fares, S., Gentner, D. R., Gilman, J. B., Graus, M., Greenberg, J., Guenther, A. B., Hansel, A., Harley, P., Huang, M., Jardine, K., Karl, T., Kaser, L., Keutsch, F. N., Kiendler-Scharr, A., Kleist, E., Lerner, B. M., Li, T., Mak, J., Nölscher, A. C., Schnitzhofer, R., Sinha, V., Thornton, B., Warneke, C., Wegener, F., Werner, C., Williams, J., Worton, D. R., Yassaa, N., and Goldstein, A. H.: Atmospheric benzenoid emissions from plants rival those from fossil fuels, *Scientific Reports*, 5, 12064, 10.1038/srep12064, 2015.
8. Wolfe, G. M., Hanisco, T. F., Arkinson, H. L., Bui, T. P., Crouse, J. D., Dean-Day, J., Goldstein, A., Guenther, A., Hall, S. R., Huey, G., Jacob, D. J., Karl, T., Kim, P. S., Liu, X., Marvin, M. R., Mikoviny, T., **Misztal, P. K.**, Nguyen, T. B., Peischl, J., Pollack, I., Ryerson, T., St. Clair, J. M., Teng, A., Travis, K. R., Ullmann, K., Wennberg, P. O., Wisthaler, A.: Quantifying sources and sinks of reactive gases in the lower atmosphere using airborne flux observations. *Geophysical Research Letters*, 42, 8231-8240, doi:10.1002/2015GL065839, 2015.
7. **Misztal, P. K.**, Karl, T., Weber, R., Jonsson, H. H., Guenther, A. B., and Goldstein, A. H.: Airborne flux measurements of biogenic isoprene over California, *Atmos. Chem. Phys.*, 14, 10631-10647, doi:10.5194/acp-14-10631-2014, 2014.
6. Karl, T., **Misztal, P. K.**, Jonsson, H. H., Shertz, S., Goldstein, A. H., and Guenther, A. B.: Airborne flux measurements of BVOCs above Californian oak forests: Experimental investigation of surface and entrainment fluxes, OH densities and Dahmköhler numbers, *J Atmos Sci*, 10.1175/jas-d-13-054.1, 2013.
5. **Misztal, P.K.**, Heal, M.R., Nemitz, E. and Cape, J.N., Development of PTR-MS selectivity for structural isomers: Monoterpenes as a case study, *International Journal of Mass Spectrometry* 310, pp. 10-19, 2012.
4. **Misztal, P.K.**, Nemitz, E., Langford, B., Di Marco, C.F., Phillips, G.J., Hewitt, C.N., MacKenzie, A.R., Owen, S.M., Fowler, D., Heal, M.R. and Cape, J.N., Direct ecosystem fluxes of volatile organic compounds from oil palms in South-East Asia, *Atmospheric Chemistry and Physics* 11, pp. 8995-9017, 2011.
3. Hewitt, C.N., Ashworth, K., Boynard, A., Guenther, A., Langford, B., MacKenzie, A.R., **Misztal, P.K.**, Nemitz, E., Owen, S.M., Possell, M., Pugh, T.A.M., Ryan, A.C. and Wild, O., Ground-level ozone influenced by circadian control of isoprene emissions, *Nature Geoscience* 4, pp. 671-674, 2011.
2. **Misztal, P. K.**, Owen, S. M., Guenther, A. B., Rasmussen, R., Geron, C., Harley, P., Phillips, G. J., Ryan, A., Edwards, D. P., Hewitt, C. N., Nemitz, E., Siong, J., Heal, M. R., and Cape, J. N.: Large estragole fluxes from oil palms in Borneo, *Atmospheric Chemistry and Physics*, 10, 4343-4358, 10.5194/acp-10-4343-2010, 2010.
1. Langford, B., **Misztal, P. K.**, Nemitz, E., Davison, B., Helfter, C., Pugh, T. A. M., MacKenzie, A. R., Lim, S. F., and Hewitt, C. N.: Fluxes and concentrations of volatile organic compounds from a South-East Asian tropical rainforest, *Atmospheric Chemistry and Physics*, 10, 8391-8412, 10.5194/acp-10-8391-2010, 2010.

## REFEREED CONFERENCE PROCEEDINGS

*Note: Underline indicates Dr. Misztal's group member (or group affiliate) at UT Austin at the time of the work, & asterisk (\*) indicates corresponding author.*

1. Emma C Hall, Sarah Haines, Karen C. Dannemiller, Katarzyna Marciniak, Robin Weber, Allen H Goldstein, Rachel Adams, and Pawel K Misztal\*: Full House: Microbial and Nonmicrobial Volatile Organic Compounds Competing for "Residency" in Indoor Environments at Cycling Relative Humidity. The 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020), Paper ID: ABS-1211, 2020.

2. Mengjia Tang, Atila Novoselac, Pawel K Misztal\*: Emission of Volatile Byproducts from Ozone Removal Filters. The 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020), 2020.
3. Daniel Blomdahl\*, Emma Hall, Nirvan Bhattacharyya, Mengjia Tang, Leif Jahn, Shahana Khurshid, Atila Novoselac, Lea Hildebrandt Ruiz, Richard Corsi, David Allen, Pawel K Misztal: Chemical Exposure to Disinfection Byproducts Interacting on Personal Face Masks and Indoor Surfaces. The 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020), 2020.
4. Shahana S Khurshid\*, Emma Hall, Daniel Blomdahl, David Jarma, Kerry Kinney, Ciara McAfee, Atila Novoselac, Robert Josephs, Pawel K Misztal: Ultrasensitive VOC Measurements in University Offices: Insights into Variability of Indoor VOC Concentrations and Indoor Air Quality. The 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020), 2020.
5. Pawel K Misztal, Emma Hall, Daniel Blomdahl, Sarah Haines, Caleb Arata, Nijing Wang, Allen Goldstein, Jonathan Williams, Karen Dannemiller, Pawel Wargocki, Gabriel Bekö, Atila Novoselac, Kerry Kinney, and Rachel Adams: Understanding Endogenous and Exogenous Volatile Organic Compounds in Human Breath with respect to Indoor Air Quality. The 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020), 2020.
6. David M. Lunderberg, Pawel K. Misztal, Yingjun Liu, Caleb Arata, Yilin Tian, Kasper Kristensen, William W Nazaroff, and Allen H. Goldstein. Source apportionment of indoor exposures to >200 VOCs at two California residences. The 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020), 2020.
7. Caleb Arata, Pawel K. Misztal, Yingjun Liu, David M. Lunderberg, Kasper Kristensen, Yilin Tian, William W Nazaroff, and Allen H. Goldstein. It's Coming From Inside the House! VOC Emissions at HOMEChem. The 16th Conference of the International Society of Indoor Air Quality & Climate (Indoor Air 2020), 2020.

## BOOK CHAPTERS

1. Misztal P.K.: Measuring rapid changes in plant volatiles at different spatial levels. In: Blande, J., Glinwood, R. (eds): Deciphering chemical language of plant communication, pp. 95 -114. Springer, 2016.

## INVITED TALKS AND SEMINARS

14. *Future Directions in Understanding Human Volatilome*, Indoor Air 2020 Conference, November 1-5, 2020
13. *Airborne Flux Measurements*, invited lecture, University of Copenhagen, Denmark. 5 Nov 2019.
12. *Air Quality and Human Health*, invited talk, University of Aarhus, Denmark, 6 Nov 2019.
11. *BVOC Emissions from Humans and Microbes*, invited lecture, University of Copenhagen, 7 Nov 2019.
10. *Humans, Microbiomes and Air Quality*. Chemical Engineering Seminar, UT Austin, 28 Aug 2019.
9. *Microbial and non-microbial volatile organic compounds from indoor materials subjected to dust and moisture*. ESES-ISIAQ Conference, Kaunas, Lithuania. 18-22 Aug 2019 (presented by Glenn Morrison).
8. *Interactions between Chemistry and Microbiology in Carpets based on CHEMM Measurements*, Ohio State University, Columbus, OH, 30-31 Jul 2019.
7. *Emission of biogenic volatile organic compounds from humans and microbes*. EU COST Indairpollnet indoor air network: The University of York, 13-14 Dec 2018.
6. *How do microbial volatile organic compounds affect chemistry of indoor environments?* Chemistry of Indoor Environments (CIE) Conference, Boulder, CO. 24-26 Oct 2018.
5. *Field measurements of human VOC bioeffluents using PTRMS*. Indoor Air 2018 Conference, Philadelphia, PA. 22-27 Jul 2018.

4. *Emission of microbial volatile organic compounds by bacteria and fungi*. American Chemical Society (California Section) meeting, USDA, Albany, CA. 25 Jan 2018.
3. *Probing indoor microbial VOC emissions with PTR-TOF-MS*. Healthy Buildings Europe 2017, Lublin, Poland. 2-5 Jul 2017.
2. *Tracking the sources of volatile organic compounds in an occupied home*. Healthy Buildings Europe 2017, Lublin, Poland. 2-5 Jul 2017.
1. *What Controls the Diversity and Variability of BVOC Emissions from Bacteria and Fungi?* Gordon Research Conference, Biogenic Hydrocarbons & the Atmosphere, Girona, Spain. 26 Jun – 1 Jul 2016.

## OTHER CONFERENCE PRESENTATIONS AND ABSTRACTS

*Asterisk (\*) denotes Misztal student/lab member*

34. \*Hall E, "Chemistry of Homes: Environmental Microbes and Moisture", Environmental and Water Resource Engineering Research Seminar Series, University of Texas at Austin, January 21, 2021.
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7. Karl, T, Guha, A, Peischl, J, Misztal, P K, Jonsson, H, Goldstein, A H, Ryerson, T B (2011), Mapping methane emission sources over California based on airborne measurements. Abstract A41B-0092 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
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2. Phillips, G.; Di Marco, C.; Misztal, P.; Nemitz, E.; Farmer, D.; Kimmel, J.; Jimenez, J.. 2008 Ambient aerosol in Southeast Asia: high resolution aerosol mass spectrometer measurements over oil palm (*Elaeis guineensis*). Eos Trans. AGU, 89(53), Fall Meet. Suppl., A11C-0123.
1. Misztal, P. and Cape, J.N. Concentrations and fluxes of VOCs from the ACCENT Castelporziano campaign (May 2007). Poster, ESF/VOCBAS/ACCENT meeting, Montpellier, October 2007.

#### **COMMUNITY OUTREACH/EDUCATION/PUBLIC SERVICE**

1. Volunteer at American Chemical Society (California Section) Event “Chemistry Helps Feed The World”. Demonstrating to the public *Molecule Building of Plant’s Volatiles and Scents*. John Muir National Historic Site, Martinez, CA. 22 April 2017.

#### **PROFESSIONAL EXPERIENCE – Non-academic**

UK Research and Innovation/NERC	Research Scientist	2018 – 2019
National Center for Atmospheric Research	Visiting Researcher	2010 – 2011
NERC Centre for Ecology & Hydrology	Research Student	2007 – 2010