



Climate and Respiratory Health - Focus Asthma

November 9, 2017 | The Collider | Asheville, NC

OVERVIEW

Climate and Respiratory Health - Focus Asthma is a climate and health forum taking place in Asheville, North Carolina on November 9, 2017. This interdisciplinary event brings together climate scientists, environmental and public health specialists, technologists, epidemiologists, and healthcare professionals.

The theme of this interdisciplinary gathering is “How do we prepare our public health responses to adapt to climate change impacts on asthma?” Join us to obtain insight into the synergistic solutions encompassing climate and health. Professionals in nursing, global health, public health, environmental studies, or interdisciplinary studies in climate change and society will gain insights into the impact of the environment and future climate on respiratory health. Students will gain the opportunity to meet subject matter experts in the fields of climate and health

Why climate? According to the [U.S. Global Change Research Program report Climate and Health Assessment](#), climate change exacerbates conditions that adversely affect respiratory health. Warmer and wetter conditions produce dampness and mold linked to 4.6 million cases of worsened asthma. Particulates from long enduring wildfires, which occur more frequently; and pollen from extended seasons of warming temperatures expose asthma sufferers to longer periods of allergens and other asthma triggers.

Why asthma? A major public health concern in the US, asthma accounts for more than 10 million outpatient visits, two million emergency room visits, and 500,000 hospitalizations yearly. More than 4,000 deaths each year are directly attributable to asthma, with 7,000 more deaths considered partially attributable to asthma.

Convening the health forum discussion are [Clean Air Carolina](#), [Green Built Alliance](#), and [CASE Consultants International](#) along with collaboration from NOAA [Cooperative Institute for Climate and Satellites-NC](#) and [The Collider](#), a nonprofit innovation center in Asheville, North Carolina, focused on catalyzing market-driven climate solutions.



AGENDA

Thursday, November 9

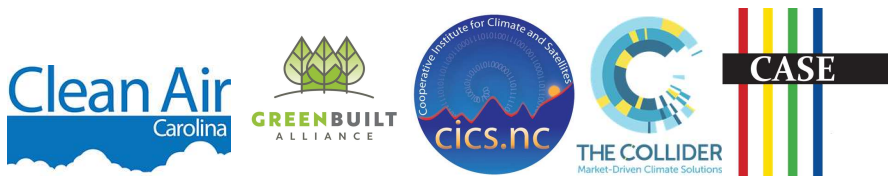
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|------------------|---|
| 8:00-8:30 am | Registration
<i>Collider Lobby – 4th Floor</i> |
| 8:45 am | Welcome Remarks
<i>Speaker: Marjorie McGuirk and Scott Shuford, CASE Consultants International</i> |
| 9:00 - 9:30 am | FEATURED PRESENTATION: The Science of Climate as Applied to Respiratory Health – a Look at the National Climate Assessment
<i>Speaker: Kenneth Kunkel, PhD., Lead Scientist for National Climate Assessments, NOAA Cooperative Institute for Climate and Satellites, Research Professor, Dept. of Marine, Earth, and Atmospheric Sciences <u>North Carolina State University</u></i> |
| 9:30 - 10:15 am | KEYNOTE: Climate and Respiratory Health- the Health Implications of Air Pollution and Climate Change
<i>Speaker: <u>Susan Anenberg, PhD.</u>, Associate Professor and Director Global Environmental Health Program, George Washington University.</i>
Dr. Anenberg was Co-Founder and Partner at Environmental Health Analytics, the Deputy Managing Director for Recommendations at the U.S. Chemical Safety Board, an environmental scientist at the U.S. Environmental Protection Agency, and a senior advisor for clean cook-stove initiatives at the U.S. State Department, as well as contributing author of USGCRP National Climate Assessment, Chapter 3, on climate, health, air quality. |
| 10:15 - 10:30 am | Break |
| 10:30 - 12:15 pm | Presentations Forum
<i>Moderator: Eileen Shea, CASE Consultants International</i> |
| 10:30 - 11:00 pm | Asthma Environmental Triggers Including Smoke, Dust, and Fungal Spores
<i>Speaker: <u>Jesse Bell, Ph.D.</u>, - NOAA Cooperative Institute for Climate and Satellites</i> |
| 11:00 - 11:30 pm | Asthma Trigger Threats from High Temperatures
<i>Speaker: <u>Ria Persad, Ph.D.</u>, - <u>StatWeather Institute</u>, Chief Executive Officer</i> |
| 11:30 - 12:00 pm | Public Health Services in the New Climate
<i>Speaker: Lauren Thie, Public Health Epidemiologist, Climate and Health with the NC Division of Public Health</i> |
| 12:00 - 12:15 pm | Open Forum Discussion Summary
<i>Moderator: Eileen Shea</i> |
| 12:15 - 1:30 pm | LUNCH (on your own) |



AFTERNOON SESSION IN NEMAC FACILITY THE COLLIDER

- 1:30 - 1:45 pm **Welcome by National Environmental Modeling and Analysis Center (NEMAC)**
Speaker: Jim Fox, NEMAC Director, University of North Carolina, Asheville
- 1:45 - 2:40 pm **Presentations Forum –**
Public, Private, and Not-for-Profit bring forward tools and techniques for adapting to respiratory health issues in a changing climate, discuss risks and opportunities facing their approach, and discuss data needs and assets.
Moderator: Eileen Shea, CASE Consultants International
- The U.S. Climate Resilience Toolkit Applied to Respiratory Health** *Speaker:*
Edward Gardiner, PhD., NOAA Climate Program Office
- Airkeepers - The Role of Citizen Science and the Internet of Things in Effective Air Quality Data-Gathering for Respiratory Health**
Speaker: Calvin Cupini, Clean Air Carolina
- Dailybreath - Linking Climate and Weather Risks with Respiratory Health in an Accessible way to Personalize Public Health**
Speaker: Eric Klos, CEO, HEALTHeWeatherPersonalized
- Q&A of the Speakers
Moderator: Eileen Shea, CASE Consultants International
- 2:40 pm **Break**
- 3:00 - 3:45 pm **Working Session and Open Forum Discussion**
Group discussion on environmental data applications affecting respiratory health. What are data needs and gaps? Data silos? What environmental information do health care professionals and specialists to advance research and innovative solutions? Addressing data congruence, data sharing, and pilot opportunities for local communities in North Carolina including Asheville.

Moderator: Jenny Dissen, Corporate Engagement and Partnerships, NC State University, Office of Research Innovation and Economic Development, NOAA Cooperative Institute for Climate and Satellites - NC
- 3:45 -4:00 pm **Summary and Discussion**
Next Steps - Report, Patients Workshop, Conference Evaluations
Closing Remarks
Moderator: Scott Shuford, CASE Consultants International
- 4:00 - 5:30 pm **Reception and Discussion**



ACKNOWLEDGEMENTS

The Climate and Respiratory Health workshop benefits greatly from the Advisory and Organizing Committees, who bring the authoritative voice of climate and science, and the preponderance of evidence-based research and data, to the area of respiratory health.

We would like to acknowledge the work of the following subject matter experts:

Juli Trtanj, Ph.D., [NOAA Climate Program Office](#), Stephanie Herring, Ph.D., Chair, American Meteorological Society, Committee on Climate Services, [NOAA National Centers for Environmental Information \(NCEI\)](#), Editor, [Explaining Extreme Events from a Climate Perspective](#), Claudia Brown, Ph.D., Centers for Disease Control and Prevention, the National Pollen Monitoring product, [Dane Ratliff](#), Attorney at Law, international environment law and climate policy, Lauren Thei and the Council of State and Territorial Epidemiologists network (CSTE – soon to be renamed Climate and Respiratory Health) for pollen measurements, [Jenny Dissen](#), Corporate Engagement and Partnerships, [NOAA Cooperative Institute for Climate and Satellites \(CICS-NC\) - North Carolina](#) (North Carolina State University Office of Research Innovation and Economic Development), and with CASE Consultants International, Robin Cape, Doug Copenhaver, Scott Shuford, Eileen Shea, Kathleen Finnegan, and Marjorie McGuirk.

We would like to acknowledge the contributions of the following sponsors:

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