

## Sixth Annual “One Medicine” Symposium

# Earth, Wind, & Fire: A One Medicine Approach to Climate Change



December 10-11, 2008

Sheraton Imperial Hotel and Convention Center  
Durham, North Carolina

A conference for physicians; nurses; veterinarians; veterinary technicians; public health, agriculture, wildlife, and environmental professionals; and federal, military, state, and local disaster responders.

For the last five years, the North Carolina Department of Health and Human Services and the North Carolina Department of Agriculture and Consumer Services have hosted the annual One Medicine Symposium to educate and provide attendees with take-home tools that will improve and enhance preparedness for a natural or man-made disaster or infectious disease outbreak.

The theme of the 2008 symposium, “Earth, Wind, and Fire: A One Medicine Approach to Climate Change,” focuses on the effects of climate change on agriculture, public health, and animal health. This year’s agenda includes environmental challenges that encourage human and animal health professionals to come together to explore key questions so we can improve awareness and understanding of issues benefiting from a One Medicine approach.

### Conference Objectives- at the conclusion of this activity, participants should be able to:

- Describe the impacts of climate change on human and animal health.
- Discuss solutions and preventive measures to respond to possible health consequences of climate change.
- Discuss the effects of extreme weather on public health, animal health, and agriculture including national, regional, and local examples.
- Highlight the “One Medicine” approach of close cooperation between human and veterinary medicine for a rapid and effective response to terrorism, disease, and natural disasters.

Sponsored by:



# 2008 One Medicine Symposium

## Agenda for Day 1, December 10th

7:00-8:30

### Registration

8:30-9:00

### Welcome and Opening Remarks

*Steve Cline, DDS, MPH, Deputy State Health Director, NC Department of Health and Human Services*

*Steve Troxler, Commissioner, NC Department of Agriculture and Consumer Services*

9:00-10:00

### Environmental Health in a Changing World

- One Medicine and Climate Change

*Mike McGeebin, PhD, MSPH, Centers for Disease Control and Prevention*

10:00-10:45

### The Science of Climate Change

- Observed trends in climate in the United States

*David Easterling, PhD, National Oceanic and Atmospheric Administration*

10:45-11:15

### Break

11:15-12:00

### Recreational Water: The Risks, the Effects, and the Public Health Interventions

- Water Quality and Infectious Disease Concerns

*Michael Beach, PhD, Centers for Disease Control and Prevention*

12:00-1:00

### Lunch: provided

1:00-2:00

### Harmful Algal Blooms: Effects in North Carolina Past, Present, and Future

- Consequences for marine ecosystems, animals, and humans

*Pat Tester, PhD, National Oceanic and Atmospheric Administration*

*Deborah Fauquier, DVM, MPVM, Mote Marine Laboratory*

2:00-2:45

### Extreme Weather and Heat Related Events

- Unable to attribute a single weather event to climate change
- Natural disasters and health concerns
- Heat waves

*George Luber, PhD, Centers for Disease Control and Prevention*

2:45-3:15

### Break

3:15-3:45

### Iowa's Recent Flooding Tragedy

- Response
- Animal health concerns leading to public health concerns
- Lessons learned

*David Schmitt, DVM, Iowa Department of Agriculture and Land Stewardship*

3:45-5:15

### Panel Highlighting the Issues and Lessons Learned from the 2007 Drought

- Multiple agencies provide North Carolina and regional perspectives

*Ryan Boyles, PhD, State Climate Office of NC, NC State University*

*Julie Casani, MD, MPH, NC Department of Health and Human Services*

*Dana Cole, DVM, Dipl. ACVIM, PhD, Georgia Department of Human Resources*

*Debbie Hamrick, NC Farm Bureau Federation*

*Doug Hoell, NC Department of Crime Control and Public Safety*

*Matt Poore, PhD, NC Cooperative Extension Service, NC State University*

*Robin Smith, NC Department of Environment and Natural Resources*

*Moderator: Blake Brown, PhD, College of Agriculture & Life Sciences, NC State University*

5:30-7:30

### Symposium Social and Scientific Poster Session

For information about presenting relevant research, activities, or programs during the scientific poster session please contact Kristen Peele at [kristen.peele@ncagr.gov](mailto:kristen.peele@ncagr.gov) or 919-807-4361.

## To Register

Visit [www.onemedicinenc.org](http://www.onemedicinenc.org) or call 919.966.4032

The conference registration fee is \$75. Limited registrations available.

Continuing education credits will be offered for various professionals based on 12.25 hours of instruction. If you have any questions regarding CE credit, please contact Melanie Green at 919.843.9259 or [msgreen@email.unc.edu](mailto:msgreen@email.unc.edu).

# Agenda for Day 2, December 11th

8:30-8:45

## Welcome and Opening Remarks

*Warwick Arden, DVM, Dean, College of Veterinary Medicine, NC State University*

*David Potenziani, PhD, Senior Associate Dean, University of North Carolina Gillings School of Global Public Health*

8:45-9:30

## Engaging Stakeholders: How to Communicate Effectively About Climate Change

*Ed Maibach, MPH, PhD, Center for Climate Change Communication, George Mason University*

9:30-10:15

## Climate Change and Vectorborne Diseases in the United States

- Climate change is only part of the story

*Ken Gage, PhD, Centers for Disease Control and Prevention*

10:15-10:30

## Break

10:30-11:15

## Effects of Climate Change on Wildlife Health: Implications for Conservation, Domestic Animals, and Human Health

- Mechanisms: favored pathogens, increased host susceptibility
- Conservation problems arising from wildlife health disruption
- Implications for livestock and human health: potential for disease emergence and expansion

*Pablo Beldomenico, DVM, MPVM, PhD, Global Health Programs, Wildlife Conservation Society*

11:15-12:00

## Potential Climate Change Impacts on United States Crop Yields, Impacts on Food Animals, and Implications for the Southeast

*Michael Roberts, PhD, College of Agriculture & Life Sciences, NC State University*

12:00-1:00

## Lunch: provided

1:00-1:45

## Animal Welfare and Human Welfare Concerns

- Welfare issues lead to human health issues
- Implications for feed price increases

*Jimmy Tickel, DVM, NC Department of Agriculture and Consumer Services*

1:45-2:30

## The Connection between Mental Health and Climate Change

- Understanding the concerns and addressing the issues
- Mental health consequences of natural disasters and other adverse conditions

*Carol North, MD, MPE, North Texas VA Health Care System, Dallas, Texas; University of Texas Southwestern Medical Center at Dallas*

2:30-3:00

## Break

3:00-3:45

## Climate Change, Air Quality, and Respiratory Health

- Pollen, storms, and wildfires

*Katherine Shea, MD, MPH, University of North Carolina Gillings School of Global Public Health*

3:45-4:30

## Surveillance During Natural Disasters and Applications for Climate-Change Related Health Monitoring

- Building an integrated biosurveillance capacity for human and animal health

*Aaron Fleischauer, PhD, MPH, Centers for Disease Control and Prevention; NC Department of Health and Human Services*

## Hotel Information

If you need overnight accommodations, the Sheraton Imperial has a limited number of rooms reserved.

When making reservations, please ask for the One Medicine rate of \$95. Please make your reservations by November 18 to receive the conference rate.

Sheraton Imperial Hotel  
4700 Emperor Blvd. Durham, NC 27713  
I-40 exit 282 (Page Road)  
919.941.5050 or 800.325.3535

# One Medicine Symposium Registration

## December 10-11, 2008

First name: \_\_\_\_\_ Last name: \_\_\_\_\_

Name of agency: \_\_\_\_\_ Job title/position: \_\_\_\_\_

Type of agency:

- |   |  |
|---|--|
| <input type="checkbox"/> Armed Forces                               | <input type="checkbox"/> Agriculture                     |
| <input type="checkbox"/> County/State Public Health Department      | <input type="checkbox"/> Emergency Management            |
| <input type="checkbox"/> Educational / Research / AHEC              | <input type="checkbox"/> Federal Government Agency       |
| <input type="checkbox"/> Hospital / Medical Practice / Nursing Home | <input type="checkbox"/> Veterinarian (private practice) |
| <input type="checkbox"/> Other Government Agency                    | <input type="checkbox"/> Wildlife                        |

Occupation: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ Daytime phone: (\_\_\_\_) \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_ Evening phone: (\_\_\_\_) \_\_\_\_\_

E-mail: \_\_\_\_\_ Fax: (\_\_\_\_) \_\_\_\_\_

Gender: \_\_\_\_\_ Please provide **ONE** of the following: *(For internal record-keeping only)*  
Birthdate: \_\_\_\_\_ Social Security Number: \_\_\_\_\_

How did you hear about this program?

- |   |   |                                    |
|---|---|------------------------------------|
| <input type="checkbox"/> Brochure                                       | <input type="checkbox"/> Catalog                    | <input type="checkbox"/> Colleague |
| <input type="checkbox"/> E-mail from the Office of Continuing Education | <input type="checkbox"/> E-mail from another source | <input type="checkbox"/> Website   |
| <input type="checkbox"/> Other (please specify): _____                  |   |                                    |

Are you a student, faculty member, or staff member at UNC-Chapel Hill?  Yes  No

Are you a graduate of the UNC-Chapel Hill Gillings School of Global Public Health?  Yes  No

To pay by check or money order, mail this form and your payment of \$75 made payable to **NCIPH to: Registrar, Office of Continuing Education**

UNC Campus Box 8165  
Chapel Hill, NC 27599-8165

Or fax this form to 919-966-5692

To pay by credit card, please call 919-966-4032.

Limited registrations available.

### Continuing Medical Education Information

CME Credit: Wake AHEC designates this educational activity for a maximum of 12.25 AMA PRA Category 1 Credits™. Physicians should claim credit commensurate with the extent of their participation in the activity.

AAPA Credit: AAPA accepts certificates of participation for educational activities certified for Category I credit from AOACCME. Prescribed credit from AAFP and AMA PRA Category I Credits™ from organizations accredited by ACCME or a recognized state medical society. Physician Assistants may receive a maximum of 12.25 hours of Category I credit for completing this program.

Accreditation Statement: WAKE AHEC is accredited by the North Carolina Medical Society to provide continuing medical education for physicians.

Disclosure: WAKE AHEC adheres to ACCME Essential Areas and policies regarding industry support of continuing medical education. Commercial support for the program and faculty relationships within the industry will be disclosed at the activity. Speakers will also state when off-label or experimental drugs or devices are incorporated in their presentations.