



Agenda
Health and Air Quality Applications Program Review
September 18-19, 2018
Burlington, VT

Tuesday, September 18, 2018
Day 1

Room: Juniper Hall/Common

- 8:30 a.m. – 9:00 a.m.** **Continental Breakfast/Coffee**
- 9:00 a.m. – 9:30 a.m.** **Session 1: Welcome and Overview**
Speaker: John Haynes, Program Manager, Health and Air Quality Applications, NASA Applied Sciences Program, NASA Headquarters
- 9:30 a.m. – 10:00 a.m.** **State Perspective:** David Grass, Environmental Health Surveillance Chief, Vermont Department of Health
- 10:00 a.m. – 10:30 a.m.** **Partner Address: Centers for Disease Control and Prevention**
Speaker: Heather Strosnider, Environmental Health Tracking Branch
- 10:30 a.m. – 10:45 a.m.** **BREAK**
- 10:45 a.m. – 11:00 a.m.** **Session 2: Community Applications and the NASA Health and Air Quality Applied Sciences Team**
Moderator: John Haynes
- 10:45 a.m. – 11:00 a.m.** **Invited Speaker: Open Innovation: An Old New Tool for your Toolbox**
Shobhana Gupta, NASA Community Applications Manager
- 11:00 a.m. – 11:30 a.m.** **Health and Air Quality Applied Sciences Team (HAQAST) Report**
Speaker: Daegan Miller, PhD, HAQAST Communications Coordinator
- 11:00 a.m. – 11:30 a.m.** **Session 3: Satellite Projects**
Moderator: Sue Estes, Associate Program Manager, Health and Air Quality Applications
- 11:30 a.m. – 11:45 p.m.** **A. Evaluate and Enhance Suomi NPP Products for Air Quality and Public Health Applications**
Speaker: Jun Wang, University of Iowa

11:45 a.m. – 1:00 p.m. LUNCH – on your own

Session 4: Health Applications

Moderator: Sue Estes

1:00 p.m. – 1:15 p.m. A. Enhanced Data-driven Decision Support for Highly Invasive Vectors
Speaker: Christopher Barker, University of California, Davis

1:15 p.m. – 1:30 p.m. B. An Early Warning System for Vector-Borne Diseases in the Amazon
Speaker: William Pan, Duke University

1:30 p.m. – 1:45 p.m. C. An Early Warning System for Human West Nile Virus
Speaker: Michael Wimberly, South Dakota State University

1:45 p.m. – 2:00 p.m. D. A Multi-Sensor Remote Sensing Approach to Predict Cholera
Speaker: Antarpreet Jutla, West Virginia University

2:00 p.m. – 2:15 p.m. E. Using Remote Sensing and Environmental Data to Quantify Social Vulnerabilities to Heat Stress and Strengthen Environmental Public Health Tracking and Heat Mitigation Efforts
Speaker: Tabassum Insaf, New York State Department of Health

2:15 p.m. – 2:30 p.m. F. Improved Forecasts of Respiratory Illness Hazard from Gulf of Mexico Red Tide
Speaker: Richard Stumpf, NOAA

2:30 p.m. – 2:45 p.m. BREAK

Session 5: Socio-Economic Benefits and Impact to ROSES 13 Projects

Moderator: Sue Estes

2:45 p.m. – 3:00 p.m. A. Socio-Economic Evaluation of Multi-Sensor Remote Sensing Approach to Predict Cholera
Speaker: Sonia Aziz, Moravian College, Pennsylvania

3:00 p.m. – 3:15 p.m. B. Socio-Economic Benefit of “Chemical Data Assimilation and Analog Based Uncertainty Quantification to Improve Decision-Making in Public Health and Air Quality”
Speaker: Rajesh Kumar, National Center for Atmospheric Research

Session 6: Air Quality Applications

Moderator: Ali Omar, Associate Program Manager, Health and Air Quality Applications

3:15 p.m. – 3:30 p.m. A. Improving the Representation of the Physical Atmosphere in Air Quality Decision Support Systems Used for Emissions Control Strategy Development
Speaker: Arastoo Pour Biazar, University of Alabama in Huntsville

- 3:30 p.m. – 3:45 p.m.** **B. Chemical Data Assimilation and Analog-Based Uncertainty Quantification to Improve Decision-Making in Public Health and Air Quality**
 Speaker: Rajesh Kumar, National Center for Atmospheric Research
- 3:45 p.m. – 4:00 p.m.** **C. Downwind of the Flames: Assessing and Predicting Wildfire Smoke Related Morbidity Using Satellites, In-Situ Measurements and Models.**
 Speaker: Jeffrey Pierce, Colorado State University
- Section 7: GEOSTRESS**
 Moderator: Ali Omar
- 4:00 p.m. – 4:30 p.m.** **A Thermodynamic Paradigm For Using the Latest Space-based Geophysical Measurements For Public Health Applications**
 Speaker: Jeff Luvall, NASA MSFC
- Section 8: NASA Applied Sciences Communications**
 Moderator: John Haynes
- 4:30 p.m. – 5:00 p.m.** **Invited Speaker:**
 Pamela Bond, NASA Communications Manager, Agency CHIEF
- 5:00 p.m.** **Adjourn**
- 5:30 p.m.** **Reception - Van Ness Room, Hotel Vermont**

Wednesday, September 19, 2018
Day 2

Room: Juniper Hall/Common

- 8:30 a.m. – 9:00 a.m.** **Continental Breakfast/Coffee**
- Section 9: One Health and VALUABLES Consortium**
 Moderator: John Haynes
- 9:00 a.m. – 9:30a.m.** **Invited Speaker: One Health**
 Helena Chapman, NASA AAAS Fellow
- 9:30 a.m. – 10:00 a.m.** **Invited Speaker: VALUABLES Consortium**
 Speaker: Bethany Mabee, Resources for the Future, Washington, DC
- 10:00 a.m. – 10:30 a.m.** **BREAK**

Session 10: NASA Training and Capacity Building Opportunities

Moderator: John Haynes

10:30 a.m. – 11:00 a.m. NASA's Training and Capacity Building Opportunities ARSET, DEVELOP, and SERVIR
Speaker: Zach Bengtsson, DEVELOP Boston Center Lead

Session 11: GEO EO4HEALTH Projects

Moderator: Helena Chapman

11:00 a.m. – 11:15 a.m. **A.** A Geospatial Surveillance and Response System Resource for Vector Borne Disease in the Americas
Speaker: John Malone, Louisiana State University

11:15 a.m. – 11:30 a.m. **B.** Environmental Determinants of Enteric Infectious Disease
Speaker: Ben Zaitchik, Johns Hopkins University

11:30 a.m. – 12:00 p.m. **C.** Earth Observations for Cholera Prediction
Speaker: Antarpreet Jutla, West Virginia University

12:00 p.m. – 12:15 p.m. **D.** Multi-sensor Data for Myanmar Malaria Warning
Speaker: Tatiana Loboda, University of Maryland

12:15 p.m. – 1:15 p.m. **Town Hall**
Discussion of Future Goals, Partnerships, and Opportunities
Speaker: John Haynes

1:15 p.m. **Adjourn**