



NCDMPH



Uniformed
Services
University

Disasters and Health: State of Science

A symposium convening leading disaster experts

April 25-26, Washington, DC

2019

www.usuhs.edu/ncdmph



@NCDMPH1 #DSASTRG33K



Speakers



Stephen H. Anderson, MD

Born & raised in Michigan, attended the University of Michigan for undergrad, medical school, and began residency there. Finished training at University of Washington and joined the Emergency Department staff at Auburn General Hospital in south Seattle in 1986. Has practiced there going on 33 years as it grew into MultiCare Auburn Medical Center. Over the last few years as President of the WA Chapter of ACEP, fought flawed public policies surrounding restricting access to care for State Medicaid patients, and Mental Health Boarding in ED's.

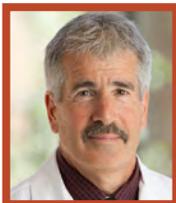
Co-authored the WA State 7 Best Practices, a program many states now use as a blueprint to increase patient access, coordinate care of high utilizers, save lives and save states Medicaid costs. Joined Emergency Medicine Foundation Board of Directors in 2015, Presently EMF Chair for 2019.



David Applegate, PhD

David Applegate, is Associate Director for Natural Hazards at the U.S. Geological Survey. He co-chairs the National Science and Technology Council's interagency Subcommittee on Disaster Reduction and co-leads the Department of the Interior's Strategic Sciences Group. Prior to joining USGS in 2004, he directed science policy at the American Geological Institute for eight years and before that served with the U.S. Senate Committee on Energy and Natural Resources as the American Geophysical Union's Congressional Science Fellow and as a professional staff

member. He holds a B.S. in geology from Yale and a Ph.D., also in geology, from M.I.T.



Paul Auerbach, MD

Paul S. Auerbach MD, MS, FACEP is Redlich Family Professor Emeritus in the Department of Emergency Medicine at Stanford University, and Adjunct Professor of Military/Emergency Medicine and a Visiting Scholar at the National Center for Disaster Medicine and Public Health at USUHS. Dr. Auerbach is editor of Wilderness Medicine; author of Medicine for the Outdoors and Field Guide to Wilderness Medicine; and co-author of Enviromedics: The Impact of Climate Change on Human Health. A first responder to the earthquakes in Haiti and

Nepal, he is a member of the Council on Foreign Relations.



John Balbus, MD

John M. Balbus, M.D., M.P.H., is the Senior Advisor for Public Health to the Director of the National Institute of Environmental Health Sciences, where he directs the NIEHS-WHO Collaborating Centre for Environmental Health Sciences. He serves as HHS principal to the U.S. Global Change Research Program and also co-chairs working groups on Climate Change and Human Health for the US Global Change Research Program and for the National Institutes of Health. Balbus has served as a lead author on health for the past

two US National Climate Assessments and is a co-author of the HHS guide document "Primary Protection: Enhancing Health Care Resilience for a Changing Climate."



Jeffrey Booth

Senior manager with 35+ years of professional experience in Federal government and private industry programs. Jeff leads the DHS Science & Technology Directorate's Sensor, Platform & Control Systems Technology Center. The Tech Center provides; 'applied engineering sciences to new, existing and evolving sensors, platforms and system architecture for surveillance, detection, alerts and notifications'. The intent of the Tech Center is to deliver operational results based upon DHS Components and First Responder community

requirements using a commercial-first approach for solution adoption.



Carlos Santos-Burgoa, MD

Professor and Program Director for the Global Health Policy MPH program in GW's School of Public Health. His focus is on the importance of public health institutions, including regulatory agencies, and their importance for chronic diseases, equity and development. He was Dean of the School of Public Health of Mexico (NIPH), Director General of the Health Environment and Work Institute—a private consulting and research firm, Director General at Mexico's Ministry of Health and Senior Advisor and Acting Department Director at the

Regional Office for the Americas of WHO. In Mexico he was responsible for chemicals and radiologic emergency management; he conducted the health promotion response in the 2007 Tabasco floods and the non-pharmacological preparedness and response to the 2009 Pandemic Influenza A(H1N1) in Mexico.



Edward Gabriel, MPA

Mr. Gabriel is the Deputy Assistant Secretary for Incident Command and Control within the Office of the Assistant Secretary Preparedness and Response (ASPR). In this role, he serves as principal advisor to the ASPR on all matters pertaining to the department's incident command and control structure to augment the Department's public health emergency preparedness and response and recovery activities, programs, and policies. Mr. Gabriel provides strategic oversight to ASPR with an emphasis on enhancing

ASPR's strategies, policies, plans, and requirements relating to public health and medical emergencies, advancing security and intelligence efforts, and ensuring emergency response operation requirements including information management, and operational data analysis are met. Mr. Gabriel also oversees the leadership team managing the Department's Continuity of Operations Program (COOP), Critical Infrastructure Program (CIP), and the HHS Secretary's Operations Center (SOC) which runs 24/7/365.



Juli Trtanj, MES

Juli Trtanj is the One Health and Integrated Climate and Weather Extremes Research Lead for the National Oceanic and Atmospheric Administration (NOAA) and the Climate Program Office. She is responsible for developing and coordinated NOAA health-related activities and programs with other federal, state, local and international Agencies, academic and private sector partners. Ms. Trtanj is leading efforts to build the National Integrated Heat Health Information System (NIHHIS) in partnership with the Centers for Disease Control and Prevention (CDC), FEMA,

OSHA, NIOSH, ASPR, EPA and other agencies. She coordinates the NOAA One Health Working Group which brings together NOAA data, research, information and actions to inform health decision making. Ms. Trtanj co-chairs the US Global Change Research Program, Climate Change and Human Health Group (CCHHG) and co-chairs the Group Earth Observations (GEO) EO4Health and Community of Practice. She started and directed interdisciplinary programs and oceans, climate and health, and has authored numerous publications and assessments for health.



Leremy Colf, PhD

Dr. Colf is the Director of Disaster Science for the HHS Office of the Assistant Secretary for Preparedness and Response. His role is to use science, data, and evidence to improve policy and operational response in disasters. In addition to his current efforts with HHS, Leremy is an Adjunct Assistant Professor of Biochemistry at the George Washington University School of Medicine and Health Sciences. He earned a Ph.D. in Microbiology and Immunology from the Stanford University School of Medicine as well as a B.S. in Chemistry/

Biochemistry from the University of Arkansas.



Christi Collins, MA

Ms. Christi Collins is the Individual and Community Preparedness Division (ICPD) Operations Branch Chief for the Federal Emergency Management Agency (FEMA). Ms. Collins joined FEMA as a leader in the National Preparedness Directorate, in April 2016. Ms. Collins is an innovative and experienced leader in community development, economic growth, and strategic communications. Her academic work includes the study of Shrinking Cities in America and how government officials can have an effective dialogue with residents in order to encourage them to take an active role in

community recovery.



Rita Colwell, PhD

Dr Colwell is a Distinguished University Professor both at the University of Maryland at College Park and at Johns Hopkins University Bloomberg School of Public Health, senior advisor and chairman emeritus at Canon US Life Sciences, Inc., and president and CEO of CosmosID, Inc. Colwell served as the eleventh director of the National Science Foundation (NSF) from 1998 to 2004. In her capacity as NSF director, she served as co-chair of the Committee on Science of the National Science and Technology Council.

She has held many advisory positions in the U.S. government, nonprofit science policy organizations, and private foundations, as well as in the international scientific research community. Colwell is a nationally-respected scientist and educator, and has authored or co-authored 17 books and more than 750 scientific publications. She produced the award-winning film, "Invisible Seas," and has served on editorial boards of numerous scientific journals. Her research interests are focused on global infectious diseases, water, and health. Colwell is currently developing an international network to address emerging infectious diseases and water issues, including safe drinking water for both the developed and developing world.



Grant Dawson, MA

GSD's mission is to conduct immediate post-disaster humanitarian interventions with rapid response teams, providing stability, needs assessments, and information flow for affected communities until the arrival of more robust resources. GSD's approach focuses on providing for fast deployment of small, highly trained, and self-sufficient teams, emphasizing adaptability and bringing a broad spectrum of skill-sets to keep people alive in the immediate aftermath of a disaster.



Scott Deitchman, MD

Scott Deitchman, MD, MPH served 30 years in the US Public Health Service, retiring in 2017 at the rank of Rear Admiral. As Associate Director for Environmental Health Emergencies at the Centers for Disease Control and Prevention, he led CDC's responses to the 2004 Asian tsunami, the Deepwater Horizon oil spill, and the Fukushima nuclear reactor emergency. RADM Deitchman served in the White House as the Vice President's Medical Advisor for Homeland Security Affairs. Currently he consults on preventing and controlling

Legionnaire's disease outbreaks, and serves as adjunct faculty at the Uniformed Services University of the Health Sciences.



Robin Dillon-Merrill, PhD

Robin L. Dillon-Merrill is the National Science Foundation program director for Humans, Disasters, and the Built Environment. She will serve in this position from September 2017-August 2019. After that time, she will return to her position as a Professor in the McDonough School of Business at Georgetown University. In her research, she seeks to understand and explain how and why people make the decisions that they do under conditions of uncertainty and risk. This research specifically examines critical decisions that people have made following near-

miss events in situations with severe outcomes including hurricane evacuation, terrorism, cybersecurity, and NASA mission management. She has a B.S./M.S. from the University of Virginia in Systems Engineering and a Ph.D. from Stanford University.



Wayne Duffus, MD

Dr. Duffus is currently the acting Associate Director for Science in the Center for Preparedness and Response at CDC. Previous roles include Senior Medical Advisor to CDC-South Africa PEPFAR program Care and Treatment Branch and as the Associate Director for Health Equity at CDC's National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention. Dr. Duffus is board certified in Infectious Diseases and sees patients at the University of South Carolina School of Medicine Ryan White Clinic. He was the Medical Director for the STD/HIV

Division of the South Carolina Department of Health and Environmental Control after completing EIS training.



David Eisenman, MD

David Eisenman is Professor in Residence at the David Geffen School of Medicine and the Fielding School of Public Health at UCLA and Director of the Center for Public Health and Disasters. Dr. Eisenman's training is in internal medicine, primary care, public health, and health services research. His studies of disasters, climate change, violence, and PTSD have been funded by the National Institutes of Health, National Science Foundation, National Institute of Justice, U.S. Forest Service, Centers for Disease Control and Prevention, Department

of Homeland Security, the Assistant Secretary for Preparedness and Response, and the Robert Wood Johnson Foundation. Further details are available at www.cphd.ucla.edu



W. Craig Fugate

W. Craig Fugate a world leader in emergency and crisis management. Mr. Fugate is currently Chief Emergency Officer at One Concern. He promotes innovation and forward thinking, with an emphasis on solving emergency management challenges as a community.

Craig helps to enhance Cadmus' offerings in homeland security management consulting and training to federal, state, and local agencies, international governments, and leading private sector companies. He brings his insights and contributions to bear in support of Cadmus' risk assessments and high-impact exercises across a range of challenges, including cybersecurity, natural hazards, terrorist attacks, climate resilience, and public health risks.

Craig served as FEMA administrator from May 2008 to January 2017. During his tenure, he led the agency through more than 500 presidentially declared major disasters and emergencies and created what has become known as the Waffle House Index—an informal metric used to help predict the effects of an incoming storm and the potential level of assistance required for disaster recovery. He also guided U.S. assistance in international disasters such as the earthquake in Haiti and the Fukushima radiological incident in Japan. In 2016, Craig was awarded the National Emergency Management Association Lacy E. Suiter Award for lifetime achievements in the field of emergency management.



Arthur Kellermann, MD

Arthur L. Kellermann, MD, MPH, is the Dean of the F. Edward Hébert School of Medicine at the Uniformed Services University of the Health Sciences, America's Medical School and the leadership academy of for military health. Dr. Kellermann's distinguished career is anchored in academic medicine and public health. Prior to joining USU, he held the Paul O'Neill-Alcoa Chair in Policy Analysis at RAND, a non-profit research organization. He was a professor of emergency medicine and public health and associate dean for health policy at

the Emory School of Medicine in Atlanta. He founded Emory's Department of Emergency Medicine and served as its first chair from 1999 to 2007. He also founded the Emory Center for Injury Control, a World Health Organization Collaborating Center.



Thomas Kirsch, MD

Dr. Kirsch is a board certified emergency physician and expert in disaster management and science. Dr. Kirsch has experience in medicine, public health and healthcare management combined with real world experience in disaster and humanitarian responses. He has responded to many national and international disasters with organizations such as the Centers for Disease Control, Federal

Emergency Management Agency, the Department of Defense, Office of Foreign Disaster Assistance, the American and Canadian Red Cross, the World Health Organization, UNICEF, Pan American Health Organization and the Earthquake Engineering Research Institute.

He is a globally recognized teacher who has lectured extensively nationally and internationally on disaster and emergency medicine issues. Dr. Kirsch has authored over 100 scientific articles, abstracts, and textbook chapters, and co-authored the austere medical textbook, Emergent Field Medicine (VanRooyen-Kirsch). His recent research has focused on the regional preparedness of health care systems for mass casualty and disaster events.



Nicolette Louissaint, PhD

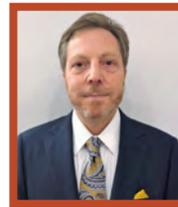
Dr. Louissaint serves as the Executive Director of Healthcare Ready, where she leads organizational initiatives to meet the most pressing patient needs before, during and after natural disasters, disease outbreaks and catastrophic events. She coordinates with health and emergency management across the public and private sectors to ensure communities are prepared and able to bounce back following disasters. Prior to joining Healthcare Ready, Nicolette was the Senior Advisor to the State Department's Special Coordinator for Ebola during the height of the Ebola Epidemic of 2014. In this role, she helped coordinate international response efforts.

Nicolette holds Bachelors of Science degrees in Chemical Engineering and Biological Sciences from Carnegie Mellon University, and a Ph.D. in Pharmacology and Molecular Sciences from Johns Hopkins University School of Medicine. She completed post-doctoral fellowships at the Johns Hopkins University and the American Association for the Advancement of Science.



Meghan McGinty, PhD

Dr. McGinty, is a faculty associate at the Johns Hopkins Bloomberg School of Public Health. Her research examines health sector resilience, allocation of scarce resources during disasters, and risk management and communication. Previously, Dr. McGinty held positions as deputy director of the Big Cities Health Coalition (BCHC) at the National Association of County and City Health Officials (NACCHO) and Director of Continuity of Operations Planning at the New York City Department of Health and Mental Hygiene, where she was responsible for developing and implementing plans to sustain essential public health services in the event of a disaster.



Aubrey Miller, MD

Aubrey K. Miller, M.D., M.P.H., is currently Senior Medical Advisor for the Director of the NIH, National Institute of Environmental Health Sciences (NIEHS), where he oversees legislative, policy, global health, disaster, and environmental health related programs and activities in coordination with other government, academic, and public stakeholders. He has longstanding experience, publications, presentations, and contributions to a wide variety of occupational & environmental health issues, including asbestos, disaster research, and numerous emergency responses including WTC, anthrax, major hurricanes, and the Gulf Oil Spill. His career includes notable public health positions with U.S. federal agencies including the FDA, EPA, and CDC.



Judith Mitrani-Reiser, PhD

Dr. Judith Mitrani-Reiser is the Director of the Disaster and Failure Studies (DFS) Program, where she leads a multidisciplinary staff responsible for conducting fact-finding investigations focused on: building and infrastructure failures; successful building and infrastructure performance; evacuation and emergency response systems; and disaster recovery and community resilience. These investigations can be carried out under four different statutory authorities at NIST: National Construction Safety Team (NCST) Act, National Earthquake Hazard Reduction Program (NEHRP), National Windstorm Impact Reduction Program (NWIIRP), and the NIST Organic Act. The results of these investigations are intended to inform recommendations to improve codes, standards, and practice. Dr. Mitrani-Reiser is a member of the NCST Technical Investigation of Hurricane Maria and its impacts on Puerto Rico. Within the Hurricane Maria Program, Dr. Mitrani-Reiser is leading an NCST project to assess the technical conditions.



Lori Peek, PhD

Dr. McGinty, is a faculty associate at the Johns Hopkins Bloomberg School of Public Health. Her research examines health sector resilience, allocation of scarce resources during disasters, and risk management and communication. Previously, Dr. McGinty held positions as deputy director of the Big Cities Health Coalition (BCHC) at the National Association of County and City Health Officials (NACCHO) and Director of Continuity of Operations Planning at the New York City Department of Health and Mental Hygiene, where she was responsible

for developing and implementing plans to sustain essential public health services in the event of a disaster.



Matt Runyan, BS

Matt Runyan is a Network Consulting Engineer and Engineering Lead with Cisco Systems Tactical Operations (TacOps). TacOps is a highly skilled and dedicated team that can mobilize and respond to natural disasters and other situations when normal communications infrastructure have been degraded or destroyed. Examples include: hurricane Katrina, the 2010 Haiti earthquake, numerous wildfires, Superstorm Sandy, Typhoon Haiyan in the Philippines, refugee crisis in Greece, and hurricanes Maria, Florence and Michael. Mr. Runyan has been with Cisco since 1999 and is also a volunteer Firefighter/EMT serving Apex, NC since 2004.



Jeff Schlegelmilch, MBA

Jeff Schlegelmilch is the Deputy Director for the National Center for Disaster Preparedness at Columbia University's Earth Institute. His areas of expertise includes public health preparedness, community resilience and the integration of private and public sector capabilities. Prior his role at Columbia, he was the Manager for the International and Non-Healthcare Business Sector for the Yale New Haven Health System Center for Emergency Preparedness and Disaster Response. He was also previously an epidemiologist and planner for the Boston Public Health Commission.

He holds a Master's degree in Public Health from UMASS Amherst in Health Policy and Management, and a Master's degree in Business Administration from Quinnipiac University.



Umair Shah, MD

Dr. Umair A. Shah has served as Executive Director and Local Health Authority for Harris County Public Health (HCPH) – the nationally accredited county public health agency for the nation's 3rd largest county with 4.7 million people.

He began a distinguished career as an emergency department physician at Houston's Michael DeBakey VA Medical Center. He started his formal public health journey as Chief Medical Officer at Galveston County's Health District before joining HCPH to oversee its clinical health system and infectious disease portfolio. Under his leadership, He currently holds numerous leadership positions with respected entities like the National Academies of Sciences, Engineering, and Medicine; U.S. Centers for Disease Control & Prevention; Trust for America's Health; Network for Public Health Law; and Texas Medical Association.



Kimberley Shoaf, DrPH

Kimberley Shoaf, DrPH is Professor and Associate Chief for Community Engagement in the Division of Public Health within the Department of Family and Preventive Medicine at the University of Utah. Over the course of her academic career, she has focused on the field of emergency public health and health workforce development. Prior to joining the faculty of the Division of Public Health at the University of Utah, she was the Associate Director of the UCLA Center for Public Health and Disasters. Her research encompasses the

health impacts of disasters as well as preparedness of the health sector for public health emergencies and disasters. Her earliest work was on casualty estimation for earthquakes and the exploration of the mechanisms for injuries in earthquakes. This work led to the development of the Hazard Risk Assessment Instrument, used as the prototype for the CDC requirement for Hazard Analysis in the Public Health Emergency Preparedness Capabilities. In addition to research, Dr. Shoaf has worked with more than 50 local and state health departments around the country in developing their emergency response plans, training their workforce in emergency public health concepts, and developing and conducting tabletop, functional, and full scale exercises.



Tricia Wachtendorf, PhD

Dr. Wachtendorf is a Professor of Sociology at the University of Delaware and Director of the world-renown Disaster Research Center – the oldest center in the world focused on the social science aspects of disaster. Over the past two decades, her research has focused on multi-organizational coordination before, during and after disasters, transnational crises, and social vulnerability to disaster events. She has engaged in quick response field work after such events as the 2001 World Trade Center attacks, the tsunamis affecting India, Sri Lanka and Japan, and Hurricanes Katrina and Sandy. She has published widely on

improvisation and disaster convergence.



Regine Webster, MSFS

Regine A. Webster, is vice president of the Center for Disaster Philanthropy, brings a keen sense of adventure, discovery and compassion to the fields of philanthropy and humanitarian assistance, helping build bridges between those offering solutions and those in need. The founding executive director of the Center for Disaster Philanthropy (CDP), a trusted resource and philanthropic force, she now serves as CDP vice president. She is one of only a handful of people nationwide who have managed a dedicated disaster portfolio for a

foundation, as a program officer, consultant and fellow in the Global Health and Global Development divisions of the Bill & Melinda Gates Foundation in Seattle, WA. There Webster led the Foundation's \$15 million Emergency Relief portfolio. In addition to her speaking engagements that inspire and educate in the disaster philanthropy realm, she has been actively involved in volunteer leadership positions on local and national-level boards and committees. Though many long for quick fixes in disaster philanthropy, Webster's own two decades of experience demonstrate her understanding of taking the time to do things right.

Program Design: Norma Quintanilla

Photographer: Barb Hunt

Recording: RCI Systems

Special thanks to the American Geophysical Union and the Society for Disaster Medicine for sponsorship.

Program

Thursday, April 25

8:00 - 8:30 am	REGISTRATION OPEN
8:30 - 8:45 am	WELCOME AND INTRODUCTION Arthur Kellermann, MD, MPH
8:45 - 9:45 am	KEYNOTE ADDRESS W. Craig Fugate
9:45 - 10:15 am	SPEAKER PRESENTATION Thomas Kirsch, MD, MPH, FACEP
10:15 - 10:30 am	MORNING BREAK
10:30 am -12:00 pm	PANEL 1 CURRENT FEDERAL DISASTER RESEARCH MODERATOR David Applegate, PhD PANELISTS Leremy Colf, PhD Christi Collins, MA CAPT Aubrey Miller, MD, MPH, USPHS Retired Judy Mitrani-Reiser, PhD Juli Trtanj, MES
12:00 - 1:30 pm	LUNCH on OWN
1:30 - 2:40 pm	PANEL 2 NEEDS OF THE STATE AND LOCAL RESPONDERS MODERATOR Edward Gabriel, MPA PANELISTS Nicolette Louissante, PhD Meghan McGinty, PhD, MPH, MBA Umair Shah, MD, MPH
2:40 - 3:40 pm	PANEL 3 NEEDS AND FUNDING FROM FEDERAL PARTNERS MODERATOR CAPT Aubrey Miller, MD, MPH, USPHS Retired PANELISTS John Balbus, MD, MPH Jeffrey Booth Robyn Dillon-Merrill, PhD, MS Wayne Duffus, MD, PhD
3:40 - 3:50 pm	AFTERNOON BREAK
3:50 - 4:45 pm	CLOSING KEYNOTE Rita Colwell, PhD
4:45 - 4:55 pm	CLOSING REMARKS Thomas Kirsch, MD, MPH, FACEP

Friday, April 26

8:00 - 8:30 am	REGISTRATION OPEN
8:30 - 8:35 am	WELCOME AND INTRODUCTION Thomas Kirsch, MD, MPH, FACEP
8:35 - 10:00 am	PANEL 4 ALTERNATIVE SOURCES OF FUNDING FOR DISASTER RESEARCH MODERATOR Paul Auerbach, MD, MS, FACEP PANELISTS Stephen Anderson, MD, FACEP Grant Dawson Matt Runyan Regine Webster, MS
10:00 - 10:15 am	MORNING BREAK
10:15 - 11:30 am	PANEL 5 - THE ROLE AND NEEDS OF ACADEMIC RESEARCH IN DISASTERS MODERATOR Jeff Schlegelmilch, MPH, MBA David Eisenman, MD, MSHS Tricia Wachtendorf, PhD Carlos Santos Burgoa, MD, PhD, MPH Kim Shoaf, Dr PH
11:30 am - 12:00 pm	SUMMARY OF CONFERENCE PROCEEDINGS RADM Scott Deitchman, MD, MPH, USPHS Retired
12:00 - 12:10 pm	CLOSING REMARKS Thomas Kirsch, MD, MPH, FACEP
12:15 - 1:00 pm	AFTERNOON BREAK
1:00 - 4:30 pm	NORTH AMERICAN ALLIANCE FOR HAZARDS AND DISASTER RESEARCH INSTITUTES (NAADRI) Founders Meeting

Network Access: AGUGuestWiFi
Password: Welcome2net0\$