Emerging Leaders in Biosecurity Initiative: 2016 Workshop

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Speakers’ Biographies

Crystal Boddie
Anita Cicero
Brooke Courtney
Gerald Epstein
Dan Hanfling
Richard Hatchett
Randall Holmes
William Hostyn

Thomas Inglesby
Franca Jones
Robert Kadlec
Randall Larsen
Jennifer Nuzzo
Caitlin Rivers
Matthew Shearer
Matthew Watson

Crystal Boddie

Crystal Boddie is a Senior Associate at the UPMC Center for Health Security. Her policy research focuses on public health risk assessment, public health and healthcare preparedness and response, biodefense, and emerging infectious diseases. She also conducts research on the funding and management of biodefense and health security in the US federal government. Ms. Boddie is the Program Manager for the Emerging Leaders in Biosecurity program (ELBI).

From 2012 to 2013, Ms. Boddie served as Program Manager for the Integrated (CBRN) Terrorism Risk Assessment (ITRA) program of the US Department of Homeland Security (DHS), Science and Technology Directorate. During her year as ITRA Program Manager, Ms. Boddie also coordinated and supported a joint DHS/HHS study to inform the contents of the US Centers for Disease Control and Prevention’s (CDC) Strategic National Stockpile (SNS).

Since joining the Center in 2004, Ms. Boddie has authored a number of peer-reviewed articles and reports on issues including the bioweapons threat, federal decontamination plans for a wide-area biological attack; federal, state, and local medical response to
Hurricane Katrina; and the National Hospital Preparedness Program. She serves as an Associate Editor of the journal *Health Security*.

Ms. Boddie is a DrPH candidate at the Johns Hopkins Bloomberg School of Public Health (BSPH) in the Department of Health Policy and Management, focusing on public health management and risk assessment. Ms. Boddie received her MPH degree from BSPH in May 2009, and she earned her BA in molecular, cellular, and developmental biology in 2004 from the University of Colorado at Boulder.

**Anita Cicero**

Working with the CEO, Ms. Cicero directs operations, strategic and budget planning, and program development for the UPMC Center for Health Security. Since joining the Center, she has expanded the Center’s efforts in epidemic preparedness, nuclear resilience, and international programs. Ms. Cicero has authored or co-authored a number of widely cited articles and reports on biosecurity policy, pandemic preparedness, nuclear and radiological consequence management, biosurveillance, international disease surveillance, and public health law.

Before joining the Center, Ms. Cicero spent nearly 2 decades as a practicing attorney in both the US federal government and the private sector. She was Managing Partner in charge of the Washington, DC, office of Drinker, Biddle & Reath, LLP, where she was responsible for more than 300 lawyers and staff. In her legal work, she created and managed a number of pharmaceutical consortia, with a particular focus on clinical research and regulatory compliance. Ms. Cicero’s work required constructive engagement with members of Congress; the World Health Organization; the European Commission; the US Food and Drug Administration; the US Departments of State, Defense, and Health and Human Services; and the Environmental Protection Agency.

Before entering private practice, Ms. Cicero focused on environmental litigation and counseling. She began her career as a trial attorney in the Honors Program at the US Department of Justice, Environmental Enforcement Section. Ms. Cicero is a graduate of the Yale Law School and Oberlin College.

**Brooke Courtney**

Brooke Courtney, JD, MPH, serves as Senior Regulatory Counsel in FDA's Office of Counterterrorism and Emerging Threats in the Office of the Commissioner, where she works on domestic and global regulatory, policy, and legal issues to facilitate access to critical medical products in response to CBRN and emerging infectious disease threats. In 2014, she received the FDA Commissioner’s Award of Excellence for her work with state and local public health partners. Ms. Courtney previously served as the Director of
the Baltimore City Health Department's Office of Public Health Preparedness and Response, where she oversaw the city's health emergency response efforts and healthcare coalition. She has also worked at the Center for Health Security, the American Red Cross, and Pfizer. She is a member of the Institute of Medicine (IOM) Preparedness Forum, served as a member of the IOM crisis standards of care committee, and was selected as a term member of the Council on Foreign Relations from 2010 to 2015.

Ms. Courtney is the 2010 recipient of the Public Health Law Association's Emerging Leader in Public Health Law Award. She serves on the board of directors of the Association of Yale Alumni in Public Health and was a founding member and co-chair of the Yale Alumni Service Corps, which provides global volunteer service opportunities. Her MPH is from Yale University, and her JD and Health Law Certificate are from the University of Maryland Carey School of Law, where she received the William P. Cunningham Award for excellence in service to the school. She is admitted to practice law in the District of Columbia and in Maryland.

Gerald Epstein

Gerald Epstein, PhD, joined the Department of Homeland Security as Deputy Assistant Secretary for Chemical, Biological, Radiological, and Nuclear Policy in January 2012. He came to the Department from the American Association for the Advancement of Science, where he directed their Center for Science, Technology and Security Policy from October 2009 to January 2012.

From 2003 through 2009, he was Senior Fellow for Science and Security in the Homeland Security Program at the Center for Strategic and International Studies (CSIS) and also taught a course on “Science, Technology, and Homeland Security” as an Adjunct Professor with the Security Studies Program at Georgetown University’s Edmund A. Walsh School of Foreign Service. He came to CSIS from the Institute for Defense Analyses, where he had been assigned to the Defense Threat Reduction Agency. From 1996 to 2001, he worked at the White House Office of Science and Technology Policy (OSTP), serving for the last year in a joint appointment as Assistant Director of OSTP for National Security and Senior Director for Science and Technology on the National Security Council staff. His responsibilities at OSTP included technologies to counter terrorism and to protect the nation’s critical infrastructures; chemical and biological defense and arms control; missile defense; strategic arms control; the nuclear weapon stockpile stewardship program; export controls; and national security/emergency preparedness telecommunications.

From 1983 to 1989 and again from 1991 until its demise in 1995, he worked at the Congressional Office of Technology Assessment, where he directed a study on the proliferation of weapons of mass destruction and worked on other international security topics. From 1989 to 1991, he directed a project at Harvard University's Kennedy School

Dr. Epstein is a Fellow of the American Physical Society and the American Association for the Advancement of Science. He serves on the editorial board of the journal Health Security and has served on the Biological Threats Panel of the National Academy of Sciences’ Committee on International Security and Arms Control and the Biological Sciences Experts Group for the Office of the Director of National Intelligence. He also served on the National Academies’ Committee on Science, Security, and Prosperity, which produced the report Beyond Fortress America: National Security Controls on Science and Technology in a Globalized World (Washington, DC: National Academy Press, 2009). He received SB degrees in physics and in electrical engineering from MIT and a PhD in physics from the University of California at Berkeley.

Dan Hanfling

Dan Hanfling, MD, is a consultant on emergency preparedness, response, and crisis management. He is a Contributing Scholar at the UPMC Center for Health Security, Clinical Professor of Emergency Medicine at George Washington University, and adjunct faculty at the George Mason University School of Public Policy. He currently serves as the Co-chair of the Institute of Medicine (National Academies) Forum on Medical and Public Health Preparedness for Catastrophic Events, and is a Special Advisor in the Office of the Assistant Secretary for Preparedness and Response (HHS, ASPR), focused chiefly on the National Hospital Preparedness Program.

Dr. Hanfling spent 18 years as principal consultant to the Inova Health System (Falls Church, VA) on matters related to emergency preparedness and response. He continues to practice emergency medicine at Inova Fairfax Regional Trauma Center and is an operational medical director for a regional helicopter EMS service. He was instrumental in founding one of the nation’s first healthcare coalitions, the Northern Virginia Hospital Alliance, created in October 2002.

His areas of expertise include biodefense and mass casualty management, catastrophic disaster response planning with particular emphasis on scarce resource allocation, and the nexus between healthcare system planning and emergency management. In addition to his hospital and EMS clinical responsibilities, he serves as a Medical Team Manager for the Fairfax County–based FEMA- and USAID-sanctioned international urban search and rescue team (VATF-1, USA-1) and has responded to catastrophic disaster events across the globe.

Dr. Hanfling received his undergraduate degree in political science from Duke University, including a general course at the London School of Economics, and
completed his medical degree at Brown University. He completed his internship in internal medicine at Brown University and his emergency medicine training at the combined George Washington and Georgetown University residency program. He has been board certified in emergency medicine since 1997.

**Richard Hatchett**

Richard J. Hatchett, MD, is acting Director of the U.S. Biomedical Advanced Research and Development Authority (BARDA), where he oversees programs to develop medical countermeasures against chemical, biological, radiological and nuclear threats, pandemic influenza, and emerging infectious diseases. Previously, he was Director for Medical Preparedness Policy on the White House National Security Staff and Associate Director for Radiation Medical Countermeasures and Emergency Preparedness at the National Institutes of Health. A graduate of Vanderbilt University and the Vanderbilt University Medical School, he completed a residency in internal medicine at the New York Hospital – Cornell Medical Center and a fellowship in medical oncology at Duke University Medical Center.

**Randall Holmes**

Randall D. Holmes is a Program Analyst for the Advisory Committees and Programs Office (ACP) with the Defense Threat Reduction Agency and USSTRATCOM Center for Combating WMD (DTRA/SCC-WMD). In this capacity, he is a designated federal officer supporting the Threat Reduction Advisory Committee, a senior-level federal advisory committee consisting of retired military, senior civilian DoD leadership, and nationally renowned experts advising the Secretary of Defense on all aspects of countering weapons of mass destruction (CWMD). Additionally, Mr. Holmes performs program management for the Emerging Leaders in Biosecurity Initiative (ELBI) and Nuclear Issues Forum and supports planning and execution of the Global Synchronization Conference hosted by the USSTRATCOM Commander.

Before his appointment to ACP in 2014, Mr. Holmes joined DTRA/SCC-WMD in 2012 and later served as a CWMD Planner with DTRA/SCC-WMD Deliberate Plans Department. Mr. Holmes began his career in the federal workforce as an acquisition professional for the Department of Homeland Security in 2009, after leaving the private sector, where he was a Facilities Manager with the Washington Redskins. Mr. Holmes holds a bachelor of science degree from Radford University and has a level 2 certification in program management through the Defense Acquisition Workforce; he received a CWMD planning certification and nuclear weapons certification, both from the Defense Nuclear Weapons School.
William Hostyn

William P. Hostyn is the Director, Advisory Committees and Programs Office, Defense Threat Reduction Agency, and STRATCOM Center for Combating Weapons of Mass Destruction (DTRA/SCC-WMD). In this capacity, he is the senior Department of Defense (DoD) designated federal officer responsible for the Threat Reduction Advisory Committee (TRAC). TRAC provides the Secretary of Defense with independent advice and recommendations on reducing the risk to the United States, its military forces, and its allies and partners posed by nuclear, biological, chemical, and conventional threats. Additionally, he oversees DoD program management of the Project on Advanced Systems and Concepts for Countering Weapons of Mass Destruction; the Project on Nuclear Issues; the Emerging Leaders in Biosecurity Initiative; and the Nuclear Strategy Forum.

Prior to his current assignment, Mr. Hostyn was the Chief, Systems and Engineering Division, in DTRA’s Advanced Systems and Concepts Office (ASCO). While assigned to ASCO, he oversaw the development and execution of technical projects and strategic international dialogues that cut across federal agencies for weapons of mass destruction (WMD) threat reduction in nuclear, chemical, biological, and emerging requirements. He maintained interagency liaison on programs, policy, and doctrinal issues and was a principal interface with think-tanks in the Washington, DC, area and the Naval Post Graduate School, Monterey, CA. He also served as Chief, Joint Military Personnel Division, with DTRA.

Mr. Hostyn retired from the US Air Force in 2003 after more than 20 years of distinguished service. Having served on 3 major command staffs (Headquarters Tactical Air Command, Pacific Air Forces, and Air Force Space Command), he was primarily engaged in manpower and personnel force structure planning and execution of programs stemming from the Base Realignment and Closure Commission for installation-wide and unit level activation, inactivation, and conversions in missile, satellite, and fixed and rotary wing weapon systems. A graduate of the Air University Contingency Warfare Planning Course, he further worked with Joint Chief of Staff (JCS) contingency warfare planning while serving on the Air Component Staff, Headquarters Seventh Air Force, Osan Air Base, Republic of Korea.

Mr. Hostyn has a BS in organizational management from Colorado Christian University, an MS in public administration from Troy State University, and an MS in national resources strategy with a minor as a national security professional from the National Defense University, Industrial College of the Armed Forces.

Thomas Inglesby

Thomas Inglesby is Director of the UPMC Center for Health Security, a nongovernmental organization dedicated to protecting people's health from the
consequences of epidemics and disasters and to ensuring that communities are resilient to those challenges. He is an Associate Professor of Medicine and Public Health at the University of Pittsburgh Schools of Medicine and Public Health.

Dr. Inglesby’s work is internationally recognized in the fields of public health preparedness, pandemic flu and epidemic planning, and biosecurity. He is Chair of the Board of Scientific Counselors, Office of Public Health Preparedness and Response, US Centers for Disease Control and Prevention (CDC). He is Chair of the National Advisory Council of the Robert Wood Johnson Foundation National Health Security Preparedness Index.

He is a member of the External Laboratory Safety Workgroup appointed by the CDC Director that is examining the biosafety practices of the CDC, the National Institutes of Health (NIH), and the Food and Drug Administration (FDA). He is on the Advisory Committee to the Biomedical Advanced Research and Development Authority (BARDA) in the Office of the Assistant Secretary of Preparedness and Response of the Department of Health and Human Services. He has also served on committees of the Defense Science Board and the National Academies of Sciences and in an advisory capacity to DHS and DARPA.

During the past 15 years, Dr. Inglesby has authored or co-authored more than 90 peer-reviewed articles, reports, and editorials on a range of issues related to health and security. He is Editor-in-Chief of the journal *Health Security*, which he helped to establish 13 years ago as the first peer-reviewed journal in its field, under its original title, *Biosecurity and Bioterrorism*. He was a principal editor of the *JAMA* book *Bioterrorism: Guidelines for Medical and Public Health Management*. He has been invited to brief White House officials from the past 3 presidential administrations on national biosecurity challenges and priorities, and he has delivered congressional testimony on public health preparedness and biosecurity.

Dr. Inglesby completed his internal medicine and infectious diseases training at Johns Hopkins University School of Medicine, where he also served as Assistant Chief of Service in 1996-97. Dr. Inglesby received his MD from Columbia University College of Physicians and Surgeons and his BA from Georgetown University. He continues to see patients in a weekly infectious disease clinic.

**Franca Jones**

Franca R. Jones attended St. John’s University in Queens, New York, and received a BS and MS in biology in 1991 and 1994, respectively. She completed her PhD in microbiology and immunology in 1999 at the University of North Carolina, Chapel Hill, and conducted her postdoctoral studies at the University of Virginia, Charlottesville.
Following completion of her postdoctoral studies, CDR Jones accepted a direct commission as a Lieutenant in the U.S. Navy, Medical Service Corps, in April 2002. Since accepting her commission, CDR Jones has had a variety of challenging assignments focusing on disease surveillance, infectious disease research, biodefense operations, and biosecurity. Her first assignment was in Lima, Peru, as the Bacteriology Department Head at the Naval Medical Research Unit-6 (2002-04). She returned to the Washington, DC, area, serving as the Branch Head for Clinical Microbiology at the Walter Reed National Military Medical Center (2004-05); the Navy’s Biological Defense Fellow and Division Officer for the Biological Defense Operations Department at the Naval Medical Research Center (2005-08); and Department of Defense (DoD) Biosecurity and Biosurveillance Lead in Chemical and Biological Defense Program (CBDP), Pentagon (2008-10). CDR Jones deployed to Kandahar, Afghanistan, as a plans, operations, medical intelligence officer from 2009-10.

In September 2010, CDR Jones was selected for a detail in the White House Office of Science and Technology Policy, where she led the development of administration policy on chemical and biological defense, biosecurity, and biosurveillance. In collaboration with the National Security Council, CDR Jones co-developed the administration’s National Strategy for Biosurveillance (2012) and the Global Health Security Agenda (2014), among others. CDR Jones was subsequently selected by the Assistant Secretary of Defense for Nuclear, Chemical, and Biological Defense to serve as the Director of Medical Programs for the CBDP (2013-15), where she led the DoD’s medical countermeasure response to the West African Ebola epidemic and the response to the inadvertent shipment of live *Bacillus anthracis* (anthrax) samples from a DoD lab to 194 labs worldwide. In August 2015, CDR Jones was selected by the Defense Health Agency as the Chief, Global Emerging Infections Surveillance and Response System, where she currently serves.

**Robert Kadlec**

Robert Kadlec is currently the Deputy Staff Director for the Senate Select Committee on Intelligence. Dr. Kadlec spent 26 years as a career officer and physician in the United States Air Force, serving in several senior positions in the White House, the US Senate, and the Department of Defense. His most recent position is Managing Director of RPK Consulting LLC.

Dr. Kadlec previously served as the Special Assistant to the President and Senior Director for Biodefense Policy on the Homeland Security Council from 2007 to 2009. He also served as staff director for Senator Richard Burr for the Senate Subcommittee on Bioterrorism and Public Health Preparedness in the 109th Congress from 2005 to 2006. In this capacity, he was instrumental in drafting the Pandemic and All-Hazard Preparedness Act that was signed into law. Dr. Kadlec also served at the White House from 2002 to 2005 as a Director for Biodefense Preparedness on the Homeland Security Council, where he was responsible for conducting the biodefense end-to-end
assessment, which culminated in drafting the National Biodefense Policy for the 21st century.

Dr. Kadlec holds a bachelor’s degree from the United States Air Force Academy, a doctorate of medicine and a masters of tropical medicine and hygiene from the Uniformed Services University of the Health Sciences, and a master’s degree in national security studies from Georgetown University. Dr. Kadlec has experience in the executive and legislative branches of the US government and extensive participation in strategy and policy development promulgation. His past efforts cover the spectrum of medical and nonmedical biodefense issues and public health activities. He has supported efforts of the Department of Defense, Office of the Secretary of Defense, the Defense Advanced Research Projects Agency, and the Department of Homeland Security.

Randall Larsen

Randall Larsen, USAF (Ret), is the national security advisor at the UPMC Center for Health Security and a senior fellow at the Center for Cyber and Homeland Security at George Washington University. He formerly served as a professor and department chair at the National War College, where in 1999 he created the nation’s first graduate course in homeland security. In May 2000 he founded the Institute for Homeland Security, where he served as the director. In 2009 he served as the executive director of the bipartisan Congressional Commission on the Prevention of Weapons of Mass Destruction Proliferation and Terrorism, and with former Senators Bob Graham (D-FL) and Jim Talent (R-MO), founded the Bipartisan WMD Terrorism Research Center, where he served as the chief executive officer until December 2012.

Col. Larsen is the author of Our Own Worst Enemy: Asking the Right Questions About Security to Protect You, Your Family, and America (Warner Books, 2007). His op-eds and commentaries have been published in the Washington Post, the Wall Street Journal, Business Week, USA Today, the New York Post, DomPrep, and the Ripon Forum. He served as the co-host of public radio’s Homeland Security: Inside & Out (WAMU & KAMU), and as the host of Science and National Security (WFED).

Jennifer Nuzzo

Jennifer Nuzzo is a Senior Associate at the UPMC Center for Health Security. An epidemiologist by training, her work focuses on international and domestic biosurveillance, infectious disease diagnostics, and disease mitigation strategies. She also has worked on issues related to the Affordable Care Act, tuberculosis control, foodborne outbreaks, and water security. Dr. Nuzzo is an Associate Editor of the peer-reviewed journal Health Security, and she was Co-Managing Editor of the Biosecurity Briefing, a weekly internet-based news, science, and policy update.
In addition to her work at the Center, Dr. Nuzzo has advised national governments and nonprofit organizations. She has served as a consultant to the National Biosurveillance Advisory Subcommittee, as a member of the US Environmental Protection Agency’s National Drinking Water Advisory Council (NDWAC), and as a member of the NDWAC’s Water Security Working Group. She has also served as a project advisor for the American Water Works Association Research Foundation (now called the Water Research Foundation), a primary funding organization for drinking water research in the United States. She has also been consulted on pandemic planning efforts in the Republic of Indonesia and Taiwan.

Dr. Nuzzo joined the Center at its founding in 2003, and she has served as an Analyst, Senior Analyst, and Associate. Prior to joining the Center, she served as a Research Analyst with the Center for Civilian Biodefense Strategies at the Johns Hopkins Bloomberg School of Public Health.

In 2002 and 2003, Dr. Nuzzo worked as a public health epidemiologist for the City of New York, where she was involved with disease and syndromic surveillance efforts related to the city’s Waterborne Disease Risk Assessment Program. Central to her duties in New York was the management of the city’s drug sale monitoring program for surveillance of diarrheal illness. She also worked on a local climate change initiative for the City of Cambridge, MA. Dr. Nuzzo received a DrPH in epidemiology from the Johns Hopkins Bloomberg School of Public Health, an SM in environmental health from Harvard University, and a BS in environmental sciences from Rutgers University.

**Caitlin Rivers**

Caitlin Rivers is an outbreak scientist with the Army Public Health Center in Edgewood, Maryland. Her research interests are modeling emerging infectious diseases to support public health response operations and improving outbreak forecasting and prediction response capabilities in the federal government. Dr. Rivers is an advocate for open data and works with partners across the federal government to improve data sharing in public health emergencies. Her work in open data began when she led a popular repository for open Ebola data during the 2014-15 outbreak. Prior to working as a civilian scientist for the Army, Dr. Rivers earned a PhD in computational epidemiology and an MPH in infectious diseases at Virginia Tech. Her PhD work was funded by a Science, Mathematics, and Research fellowship. She is also the developer of epipy, a Python package for epidemiology.

**Matthew Shearer**

Matthew Shearer is an Analyst at the UPMC Center for Health Security. His primary research interests include infectious disease outbreak and bioterrorism response. He is
also interested in the use of stochastic simulations to model the impact of preparation and response policy on public health emergencies.

Mr. Shearer serves as an Associate Editor of the peer-reviewed journal *Health Security*, and he has previously contributed to projects exploring risk communication for medical countermeasures, infectious disease surveillance, and international collaboration for infectious disease incident response. Prior to joining the Center, he served as Anti-Terrorism/Force Protection Officer in the US Navy. Additionally, he conducted medical countermeasure exercises, performed infectious disease surveillance, and supported emergency preparedness activities, including Ebola preparation and returning traveler monitoring, at local health departments in Michigan and California.

Mr. Shearer earned a master of public health degree in epidemiology from the University of Michigan in 2014 and a bachelor of science in aerospace engineering from the United States Naval Academy in 2007.

**Matthew Watson**

Matthew Watson is a Senior Analyst at the UPMC Center for Health Security. His research interests include the health sector response to high-impact epidemics and other disasters, public health preparedness and policy, emergency medicine, infectious disease epidemiology, and biosurveillance.

Mr. Watson serves as an Associate Editor of the peer-reviewed journal *Health Security*. He also edits the Center’s daily newsletter, *Health Security Headlines*, and the Center’s blog, *The Bifurcated Needle*. Mr. Watson’s interest and experience in disaster preparedness and response began on an operational level as a paramedic and firefighter. He earned his bachelor of science in emergency medicine from the University of Pittsburgh in 2006.