

## BOSC Homeland Security (HS) Subcommittee Members 2020

	Name	Affiliation	Expertise	Background
	<p><b>(Chair)</b>  <a href="#">Paula Olsiewski</a>,  <a href="#">Ph.D.</a></p>	<p>Alfred P. Sloan Foundation   <i>(NY Region 2)</i></p>	<ul style="list-style-type: none"> <li>• Chemistry (analytical, physical, water chemistry)</li> <li>• Behavioral science (risk perception/ communication)</li> <li>• Bioterrorism</li> <li>• Microbial ecology</li> <li>• Social science</li> <li>• Toxicology</li> </ul>	<p>Dr. Olsiewski is the Program Director at the Alfred P. Sloan Foundation. She is a biological chemist who has led various philanthropic programs involving science and risk communications including DHS's citizen preparedness campaign (<a href="http://www.ready.gov">www.ready.gov</a>), an exploration into protecting building from biological threats, an examination of synthetic biology including policy and public perception, and a first of its kind initiative to understand the microbiology of the built environment. She directs a new program to elucidate the chemistry of the indoor environments. Dr. Olsiewski has served as a consultant on numerous biosecurity projects.</p>
	<p><b>(Vice Chair)</b>  <a href="#">Justin Teeguarden</a>,  <a href="#">Ph.D.</a></p>	<p>Pacific Northwest National Laboratory   <i>(WA Region 10)</i></p>	<ul style="list-style-type: none"> <li>• Risk assessment</li> </ul>	<p>Dr. Teeguarden is a Staff Scientist and Team Lead at the Pacific Northwest National Laboratory (PNNL). Dr. Teeguarden has more than 15 years of experience in computational and experimental exposure assessment in humans, animals and cell culture systems. His particular focus has been the utilization of emerging technologies, novel experimental data and computational methods for solving public health challenges related to human exposure to chemicals. In his role as the Director of the Research Translation Core for the Oregon State University-PNNL Superfund Program, Dr. Teeguarden led development of a "systems" approach to organizing emerging data from the field of exposure science and co-led a U.S. EPA-supported expert workshop on advancing this new framework. He is widely published in the fields of exposure science, pharmacokinetics, and toxicology.</p>

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	<a href="#"><u>Charles Barton, Ph.D., DABT</u></a>	Valspar Corporation <i>(PA Region 3)</i>	<ul style="list-style-type: none"> <li>• Risk assessment</li> </ul>	Dr. Barton is the Global Manager of Toxicology & Risk Assessment for the Valspar Corporation. Dr. Barton has a Ph.D. in Toxicology and is Board certified in toxicology (DABT). He is an expert in most fields of toxicology and can conduct computational toxicology analyses. His expertise in risk assessment allows him to conduct risk assessments which determine acceptable exposure levels. He is on the Board of Directors for the American Board of Toxicology. He has served on many national and international committees as an expert in the fields of toxicology and risk assessment.
	<a href="#"><u>Murray Cohen, Ph.D., MPH, CIH</u></a>	Frontline Healthcare Workers Safety Foundation, Ltd <i>(TX Region 6)</i>	<ul style="list-style-type: none"> <li>• Biology</li> <li>• Decision science</li> <li>• Risk assessment</li> <li>• Social science</li> </ul>	Dr. Cohen is the Chairman of Frontline Healthcare Workers Safety Foundation, Ltd. He has career experiences in government research and management, private sector research and training, and international public health. He has specialized in emerging infections, bioterrorism, risk assessment, and biocontainment. Dr. Cohen has an extensive working knowledge of OSHA, CDC, FDA, and EPA regulations, as well as WHO guidelines. He has a breadth of experiences, including biodefense research, HIV/AIDS and emerging infectious diseases research, and emergency preparedness and response training and evaluation. Dr. Cohen has established a successful private sector consulting practice and a global NGO.

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	<a href="#"><u>Kari Cutting, M.S.</u></a>	North Dakota Petroleum Council  <i>(ND Region 8)</i>	<ul style="list-style-type: none"> <li>• Science policy/Public policy</li> <li>• Engineering</li> </ul>	Ms. Cutting is the Vice President of the North Dakota Petroleum Council. She has over thirty years of leadership experience in regulatory analysis, compliance, and strategy development. She has managed multiple task force efforts for environmental issue identification and swift, effective compliance. Ms. Cutting has expertise in water and hydrocarbon spill remediation strategies as well as incident prevention, detection, and management. She has extensive knowledge of federal air, water, land management, and transportation regulations and engineering design for compliance.
	<a href="#"><u>Andrew DeGraca, P.E.</u></a>	San Francisco Public Utilities  <i>(CA Region 9)</i>	<ul style="list-style-type: none"> <li>• Chemistry (analytical, physical, water chemistry)</li> <li>• Behavioral science (risk perception/communication)</li> <li>• Decision science (decision analysis/support system)</li> <li>• Engineering (biochemical, civil-drinking water or wastewater treatment/ distribution/ decontamination)</li> <li>• Sampling and analysis</li> </ul>	Mr. DeGraca is the Water Quality Division Director at San Francisco Public Utilities. He is a licensed chemical engineer with in-depth knowledge of water quality and treatment. He provides expertise in water security including decontamination of water infrastructure and treatment of water after a contamination incident.
	<a href="#"><u>Shawn Gibbs, Ph.D., MBA, CIH</u></a>	Texas A&M University  <i>(IN Region 6)</i>	<ul style="list-style-type: none"> <li>• Industrial hygiene</li> <li>• Environmental exposure assessment, focusing on environmental microbiology</li> <li>• Disrupting transmission of highly infectious diseases</li> </ul>	Shawn Gibbs, PhD, MBA, CIH, is Dean of the Texas A&M University School of Public Health. Shawn has over a hundred articles in industrial hygiene and environmental exposure assessment, focusing on disrupting transmission of highly infectious diseases. He is a Member of USEPA Board of Scientific Counselors for Homeland Security. He was a U.S. Faculty Fulbright Scholar to Egypt and has been PI of three Fulbright Junior Faculty Development Programs (Egypt and Libya). His research helped to determine national policies, procedure, and best practices for response to Ebola virus disease, COVID-19, and other highly infectious diseases. Shawn has held roles in organizations, such as National Ebola Training and Education Center, Hispanic Health Disparities Research Center,

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				NIOSH funded Central States Center for Agricultural Safety and Health, and Director of Research for the CDC/DHHS funded Nebraska Biocontainment Unit. Shawn is heavily involved in national worker training programs in Hazardous Materials Disaster Preparedness Training and Hazardous Waste Worker Training. He is a national leader in the research, training, and policy related to national and international responses to highly infectious disease outbreaks, including developing procedures for aeromedical evacuation isolation.
	<a href="#">Edward Hackney, MBA</a>	SUEZ (United Water) <i>(NJ Region 2)</i>	<ul style="list-style-type: none"> <li>• Information science (uncertainty analysis)</li> <li>• Network architecture</li> <li>• Security</li> </ul>	Mr. Hackney is a Director in SUEZ North America's IT group. He is responsible for Business Relationship Management (BRM) ensuring appropriate IT alignment to meet the needs of Water Utility Operations, with focus on Digital Utility disciplines including Customer, Workforce, Production, Asset, Network and Revenue Management. Prior to SUEZ, he was co-founder and CTO of a broadband ISP startup, managed networks at HP, consulted at KPMG and was employee #7 at the first digital advertising agency to IPO.
	<a href="#">David Klein, Ph.D.</a>	Texas Tech University <i>(TX Region 6)</i>	<ul style="list-style-type: none"> <li>• Chemistry</li> </ul>	Dr. Klein is an associate professor in the Department of Environmental Toxicology at Texas Tech University. He has over 20 years of experience managing state environmental chemistry laboratories, as well as experience managing the Chemical Terrorism Response Lab in Texas for the Centers for Disease Control Laboratory Response Network. He is currently Certified as a Toxicological Chemist by the National Registry of Certified Chemists and is the High Complexity Lab Director for the Clinical Laboratory Improvement Act.

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	<a href="#">Debra R. Reinhart, Ph.D., PE, BCEE</a>	University of Central Florida  <i>(FL Region 4)</i>	<ul style="list-style-type: none"> <li>• Engineering (biochemical, civil – drinking water or wastewater treatment/distribution/decontamination)</li> <li>• Chemistry (analytical, physical, water chemistry)</li> </ul>	Dr. Reinhart is the Associate Vice President for Research and Scholarship at the University of Central Florida. She has expertise related to waste management (both solid and liquid). Dr. Reinhart’s expertise in solid waste management, in which she conducts research, teaches and is a board certified engineer, and her previous experience conducting applied research on wastewater treatment allows her to advise the HSRP.
	<a href="#">Edwin A. Roehl, Jr., M.S.</a>	Advanced Data Mining International, LLC  <i>(SC Region 4)</i>	<ul style="list-style-type: none"> <li>• Engineering (biochemical, civil - drinking water or wastewater treatment/distribution/decontamination)</li> <li>• Decision science</li> </ul>	Mr. Roehl is the Chief Technical Officer at Advanced Data Mining International, LLC (ADMi). Mr. Roehl is a mechanical engineer with expertise in data mining and decision support systems. He develops solutions that employ expert decision support systems, data mining/advanced analytics, time series analysis and dynamics, predictive modeling and forecasting, and process optimization. He has worked in water, wastewater, and water resources, with specific experience in disinfection byproducts, distribution, and event detection. Mr. Roehl has also worked in troubleshooting and optimizing manufacturing and production processes in the aerospace, automotive, metals, oil & gas, and polymer industries.

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	<a href="#">Monica L. Schoch-Spana, Ph.D.</a>	Johns Hopkins University Center for Health Security  <i>(MD Region 3)</i>	<ul style="list-style-type: none"> <li>• Public health emergency preparedness and response</li> <li>• Social, cultural, and ethical aspects of epidemic disaster management</li> </ul>	Dr. Schoch-Spana is a Senior Scientist and Senior Scholar at John Hopkins University Center for Health Security. As a medical anthropologist with expertise in health related disasters, her expertise is understanding community responses to health events and in providing information on needs related to crisis and emergency risk communication. In addition, she has expertise related to increasing community resilience to disasters, including through public participation emergency planning.
	<a href="#">Robert Scudder, Ph.D., CIH, CSP, CIT</a>	Grand River Dam Authority, Corbin Scientific Investigations, LLC  <i>(OK Region 6)</i>	<ul style="list-style-type: none"> <li>• Emergency management</li> <li>• Disaster preparedness</li> <li>• Hazardous materials</li> <li>• Risk assessment</li> </ul>	Dr. Scudder is the Industrial and Occupational Risk Manager for the Grand River Dam Authority. He has a breadth of knowledge and experience in hazardous chemical management, emergency response, safety, and industrial hygiene. His areas of expertise include environmental disaster management, hazardous materials, emergency management, toxicology, exposure assessment, safety, preparedness, emergency response, community capital building, community sociology, risk perception and decision making, emergency services, public health, and industrial hygiene.
	<a href="#">Dana Tulis, M.S.</a>	U.S. Coast Guard  <i>(DC Region 3)</i>	<ul style="list-style-type: none"> <li>• Large-scale emergency response</li> <li>• Incident management</li> </ul>	Ms. Tulis assumed the duties of the Director, Emergency Management (CG-5RI) in January 2016. She is responsible for establishing, developing, and implementing policies, strategies, and goals to meet Coast Guard's Emergency Response Mission. She provides strategic programmatic oversight for the Offices of Search and Rescue, Emergency Management and Disaster Response, and Marine Environmental Response. Prior to this position, Ms. Tulis served in a number of senior level management positions at the Environmental Protection Agency and has played a major leadership role in every large scale event since and including the World Trade Center, Anthrax

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				Incidents, Hurricanes Katrina and Rita, Deepwater Horizon, Superstorm Sandy, Joplin Tornado, Yellowstone River Oil Spill, Midwest Flooding, the 2017 Hurricane Season as well as day-to-day Emergency Responses and Removals.
	<a href="#"><u>Michael Wichman, Ph.D.</u></a>	U.S. Food and Drug Administration Office of Regulatory Affairs (ORA), Office of Regulatory Science (ORS), Arkansas Laboratory  <i>(AR Region 6)</i>	<ul style="list-style-type: none"> <li>• Analytical chemistry</li> <li>• Sampling and analysis</li> <li>• Water quality</li> <li>• Emergency response</li> </ul>	Dr. Wichman is the Laboratory Director of the U.S. Food and Drug Administration (FDA) Office of Regulatory Affairs (ORA), Office of Regulatory Science (ORS), Arkansas Laboratory. He currently serves on the FDA Science Advisory Council, Partnership for Food Protection (PFP) Laboratory Science Workgroup, and Per- and Polyfluoroalkyl Substances (PFAS) Technical Work Group. His current research interests include simplifying sample preparation techniques, monitoring for existing and emerging environmental contaminants and/or persistent degradates, and biomonitoring for human metabolites resulting from environmental exposure.

**BOSC Executive Committee Representative**

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	<p><b>(Executive Committee Vice Chair)</b>  <a href="#">Lucinda Johnson, Ph.D.</a></p>	<p>University of Minnesota Duluth's Natural Resources Research Institute  <i>(MN Region 5)</i></p>	<ul style="list-style-type: none"> <li>• Aquatic/systems ecology</li> <li>• Watershed management</li> <li>• Climate change impacts</li> </ul>	<p>Dr. Johnson is the Associate Director and Initiative Director for Water for University of Minnesota Duluth's Natural Resources Research Institute. She has worked closely with scientists from academia and government addressing a number of environmental challenges. This work has primarily focused on the development of data and tools to improve environmental assessment of surface waters through the development and testing of environmental indicators. Most recently she was a coauthor of the U.S. Environmental Protection Agency's report on Biological Criteria for Surface Waters (Jackson, et al. 2016). Dr. Johnson serves on the Graduate Faculty of the University of Minnesota where she teaches Landscape Ecology and Stream Ecology and supervises graduate students. Dr. Johnson's work has focused on quantifying the interactions between human activities on the land and the structure and function of aquatic ecosystems. She has focused on using spatial analysis and remote sensing tools to quantify impacts of land use change.</p>
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