

Forum on Medical and Public Health Preparedness for Disasters and Emergencies: Meeting 45

AGENDA – November 8-9, 2023

The Keck Center of the National Academies, Room Keck 100, 500 Fifth St. NW Washington, DC 20001

WEDNESDAY, NOVEMBER 8, 2023

Purpose

- Explore and discuss the latest advancements in digital and AI technologies and tools (e.g., for forecasting, generative AI, etc.) to improve medical and public health emergency preparedness and response.
- Examine the challenges and opportunities of data modernization and applying AI in the context of public health emergency preparedness and response.
- Discuss, receive updates, and provide input on current and planned Forum activities.
- Receive briefings on National Academies activities of interest and consider areas of alignment.
- Examine progress made, existing gaps, and future opportunities on key issues covered by the Forum over the past decade, such as:
 - Wildfires ([Forum Work: Implications of the California Wildfires for Health, Communities, and Preparedness – 2019](#))
 - Nuclear incidents ([Forum Work: Exploring Medical and Public Health Preparedness for a Nuclear Incident – 2019](#))
- Discuss issues that should be explored further by the Forum (e.g., chemical incidents, laboratory systems, healthcare preparedness, MCMs, trauma-informed response and recovery, etc.)

SESSION 1: WELCOME REMARKS

09:00 AM

Opening Remarks, Introductions, and Overview of the Agenda (15 minutes)

Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

W. Craig Vanderwagen, *Forum Co-Chair*
Co-Founder and Director
East West Protection, LLC

SESSION 2: ARTIFICIAL INTELLIGENCE FOR MEDICAL AND PUBLIC HEALTH PREPAREDNESS AND RESPONSE: OPPORTUNITIES AND CHALLENGES

09:15 AM

Setting the Stage: Overview of AI for Medical and Public Health Preparedness and Response (60 minutes)

Moderator: Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

Samuel V. Scarpino
Director, AI + Life Sciences
Professor of the Practice, Health & Computer Sciences
Northeastern University
External Professor, Santa Fe Institute

J. Bradley Dickerson
Senior Manager, Global Chemical and Biological Security
Director, WOAHC Collaborating Centre for Laboratory Biorisk Management
Sandia National Laboratories

Ryan Luginbuhl
Principal
The MITRE Corporation

Q&A

10:15 AM

AI for Preparing for Public Health Emergencies (45 minutes)

Moderator: Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

Community Resilience Building

Ali Mostafavi
Associate Professor
Holder of the Zachry Career Development Endowed Professorship I
Faculty Director, UrbanResilience.AI Lab
Founder, Resilitix.AI
Zachry Department of Civil and Environmental Engineering
Texas A&M University

Early Warning and Prediction and Risk Assessment

Michael Wargo
Vice President
Enterprise Emergency Operations & CSG Medical Transport
HCA Healthcare
Executive Officer
U.S. Healthcare and Public Health Sector Coordinating Council (US HPHSCC)

Q&A

11:00 AM **Break** (30 minutes)

11:30 AM **AI for Responding for Public Health Emergencies** (45 minutes)

Moderator: W. Craig Vanderwagen, *Forum Co-Chair*
Co-Founder and Director
East West Protection, LLC

Infodemic Management

Chris Voegeli

Acting Inaccurate Health Information Mitigation Team Lead
Behavioral Scientist
Division for Communication Science and Services
Office of Communications
Centers for Disease Control and Prevention (CDC)

Supply Chain and Resource Allocation

Tinglong Dai

Professor
Operations Management and Business Analytics
Johns Hopkins Carey Business School

Q&A

12:15 PM **Lunch** (60 minutes)

1:15 PM **Roundtable Discussion: Risks and Challenges to Consider** (45 minutes)

Moderator: W. Craig Vanderwagen, *Forum Co-Chair*
Co-Founder and Director
East West Protection, LLC

Thomas Wilkinson

Chief Medical Information Officer
Office of Health Security
Department of Homeland Security (DHS)

Ari Chadda

Data Scientist
IQT Labs

2:00 PM **Reflections & Discussion** (60 minutes)

Moderator: Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

3:00 PM **ADJOURN and BREAK** (15 minutes)

SESSION 3: FORUM MEMBERS AND STAFF UPDATES

3:15 PM **Updates from the Forum Directors and from Related NASEM Activities** (45 minutes)

Scott Wollek

Senior Program Officer
Health and Medicine Division
National Academies of Sciences, Engineering, and Medicine

Lisa Brown

Senior Program Officer
Health and Medicine Division
National Academies of Sciences, Engineering, and Medicine

Directors from Relevant NASEM Activities

4:00 PM **Member Updates “Tour de Table”** (55 minutes)

Forum members will be asked to provide a 2-3 min update on behalf of their organization on work relevant to the Forum

SESSION 4: DAY 1 WRAP-UP

04:55 PM **Closing Remarks** (5 min)

Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

W. Craig Vanderwagen, *Forum Co-Chair*
Co-Founder and Director
East West Protection, LLC

05:00 PM **Adjourn Day One**

END OF DAY 1

Networking Reception to Follow

THURSDAY, NOVEMBER 9, 2023

09:00 AM Opening Remarks & Reflection on Day 1 (15 minutes)

Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

W. Craig Vanderwagen, *Forum Co-Chair*
Co-Founder and Director
East West Protection, LLC

SESSION 5: PROGRESS MADE, EXISTING GAPS, AND FUTURE OPPORTUNITIES ON PAST FORUM ISSUES

09:15 AM Wildfires (Forum Work: Implications of the California Wildfires for Health, Communities, and Preparedness – 2019) (90 minutes)

Moderator: W. Craig Vanderwagen, *Forum Co-Chair*
Co-Founder and Director
East West Protection, LLC

Birgitte Messerschmidt
Director, Applied Research
National Fire Protection Association

Discussion

10:45 AM Break (30 minutes)

11:15 AM Nuclear Incidents (Forum Work: Exploring Medical and Public Health Preparedness for a Nuclear Incident – 2019) (90 minutes)

Moderator: Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

James Jeng
Professor, Division of Trauma Critical Care, Acute Care & Burn Surgery
Department of Surgery
UCI School of Medicine

Andrew Scott
Senior Radiological/Nuclear Health Advisor
Office of Health Affairs
Department of Homeland Security (DHS)

Discussion

12:45 PM

Lunch (60 minutes)

1:45 PM

Discuss Topics to be Explored Further by the Forum (e.g., chemical incidents, laboratory systems, healthcare preparedness, MCMs, trauma-informed response and recovery, etc.) (60 minutes)

SESSION 6: WRAP-UP AND CLOSING REMARKS

02:45 PM

Closing Reflections and Remarks (15 minutes)

Suzet McKinney, *Forum Co-Chair*
Principal, Director of Life Sciences
Sterling Bay

W. Craig Vanderwagen, *Forum Co-Chair*
Co-Founder and Director
East West Protection, LLC

3:00 PM

MEETING ADJOURNS