

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

**Anticipating Rare Events of Major Significance:
An Unclassified Workshop**

Final Agenda

DAY 1: DECEMBER 17, 2021

SESSION 1 — IMPORTANCE AND SCOPE

- 10:30 AM **Introduction and Expectations of the Workshop**
Christopher Barrett, Committee Chair
University of Virginia Biocomplexity Institute
- 10:45 AM **Sponsor Remarks**
Theodore Plasse
Defense Threat Reduction Agency

SESSION 2 — MATHEMATICAL FOUNDATIONS

- 11:00AM **Alon Orlitsky**
University of California, San Diego
- 11:30 AM **BREAK**

SESSION 3 — DETECTION, INDICATIONS AND WARNINGS

- 11:45 AM **Arvind Satyam**
Pano AI
- 12:05 PM **T. Charles Clancy**
MITRE Labs

12:25 PM **Elisabeth Pate Cornell**
Stanford University

12:45 PM **Panel Discussion with Speakers 1-3**
Robert Schock, Moderator

1:20 PM LUNCH

SESSION 4 — PLANNING, FORECASTING AND INTELLIGENCE PREPARATION

2:15 PM **Jeffrey Love**
U.S. Geological Survey (USGS)

2:35 PM **Nestor Alfonso Santamaria**
Organisation for Economic Co-operation and Development (OECD)

2:55 PM **Madhav Marathe**
University of Virginia Biocomplexity Institute

3:15 PM **Panel Discussion with Speakers 4-6**
Christopher Barrett, Moderator

3:50 PM **BREAK**

SESSION 5 — FIRESIDE CHAT

3:55 pm **Madeleine Clare Elish**
Google Research

Michele Wucker, Moderator

4:25 PM **Day One Concluding Remarks**
Christopher Barrett, Committee Chair
University of Virginia Biocomplexity Institute

4:30 PM ADJOURN DAY ONE

DAY 2: DECEMBER 21, 2021

SESSION 6 — PLENARY

- 10:00 AM **Welcome and Introduction for Day 2**
Christopher Barrett, Committee Chair
University of Virginia Biocomplexity Institute
- 10:05 AM **Sponsor Remarks**
Theodore Plasse
Defense Threat Reduction Agency

SESSION 7 — FIRESIDE CHAT

- 10:10 AM **Markus Gesmann**
Insurance Capital Markets Research

Michele Wucker, Moderator
- 11:10 AM **BREAK**

SESSION 8 — MULTISOURCE INFORMATION FUSION, SITUATION ASSESSMENT, AND COURSE OF ACTION SELECTION

- 11:25 AM **Alice Hill**
Council on Foreign Relations
- 11:45 AM **Delores Knipp**
University of Colorado Boulder
- 12:05 PM **John Organek**
Electric Infrastructure Security Council
- 12:25 PM **Panel Discussion with Speakers 10-12**
Vicki Bier, Moderator
- 1:00 PM **LUNCH**

SESSION 9 — ACTIVE PREVENTION AND DETERRENCE

- 1:50 PM **Terik Daly**
Johns Hopkins University Applied Physics Laboratory
- 2:10 PM **Seth Baum**
Global Catastrophic Risk Institute
- 2:30 PM **Robert Axtell**
George Mason University
- 2:50 PM **Panel Discussion with Speakers 10-12**
Justin Kasper, Moderator
- 3:25 PM **Concluding Remarks**
Christopher Barrett, Committee Chair
University of Virginia Biocomplexity Institute
- 3:35 PM **ADJOURN WORKSHOP**