The National Academies of

SCIENCES • ENGINEERING • MEDICINE

Anticipating Rare Events of Major Significance: An Unclassified Workshop

Final Draft 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 Al

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 Alfonzo Santamaria**

Organisation for Economic Co-operation and Development (OECD)

2:55 PM Madhay Marathe

University of Virgina 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 Pandemic Preparedness Response

TBD

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