Agenda

Monday, July 29

2:00 PM	**Registration/Initial Icebreaker**
3:00 PM	**Welcome, Introductions, and Expectations:** Matthew Huber, Purdue University; Marthie Grobler, CSIRO; Rossitza Homan, Sandia National Laboratories; James Appathurai, NATO Deputy Assistant Secretary General; Julie Brewer, Deputy Under Secretary, U.S. DHS S&T
3:45 PM	**Setting the Scene:** *Laying out the landscape of the CPSICC NEXUS through 2050* — David Johnson, Purdue University
4:00 PM	**Plenary Talk:** *Emerging security challenges* *DHS strategic line of effort* — David Alexander, U.S. DHS S&T *NATO strategic line of effort* — Eyüp Turmuş, NATO SPS Programme
5:00 PM	**Adjourn**

Tuesday, July 30

8:00 AM	**Registration and Light Breakfast**
8:30 AM	**Introduction/Initial Exhortation:** Matthew Huber, Purdue University
9:00 AM	**Talk:** *Future climate change and insights into the implications for energy, communities, and economies* — Richard Matear, CSIRO
9:35 AM	**Talk:** *The first European Climate Risk Assessment: How to support policy prioritisation in a complex risk and political context* — Hans-Martin Füssel, European Environment Agency
10:10 AM	**Coffee Break**
10:30 AM	**Talk**: *Compound and cascading climate hazards and their impacts on critical infrastructure systems* — Amir AghaKouchak, University of California Irvine
11:05 AM	**Talk:** *Cybersecurity and climate change nexus: Applying risk-based approaches to ensure resilience and critical mission assurance of cyber-physical systems* — Piret Pernik, NATO Cooperative Cyber Defence Centre of Excellence
11:35 AM	**Talk**: *Extreme weather trends against datacenters and cryptocurrency functionality* — Sunny Wescott, U.S. DHS
12:00 PM	**Networking Lunch** (food will be provided)
1:00 PM	**Short Talks** *Not breaking the bank: Where climate technology could maintain financial system stability* — Nick Heavens, Viridien *The challenge of adaptation seen through the lens of complexity* — Giovanni Fusina, Defence Research and Development, Canada *Policy response to climate and the role of community representatives* — David Kaufman, CNA *National critical infrastructures: The need for addressing cascading effects and cross-sector governance* — Jonas Johansson, Lund University *Climate change, security, and misinformation* — Tom Ellison, Center for Climate and Security *Beyond the trend: The superposed impacts of climate change and variability on cyberinfrastructure* — Christina Karamperidou, University of Hawai'i at Mānoa *Stress testing in the context of supply-chain resilience and financial-sector resilience* — Mark Flood, University of Maryland *Improving global security, deterrence and defense: Cyber-physical-social systems and climate change nexus perspectives* — Rossitza Homan, Sandia National Laboratories

Agenda

Tuesday, July 30—continued

2:45 PM	**Panel Discussion with Presenters** and including Igor Linkov, U.S. Army Engineer Research and Development Center, and Lilian Alessa, University of Idaho Facilitator: Marthie Grobler, CSIRO
3:15 PM	**Coffee Break**
3:30 PM	**Talk:** *Climate security and integrated deterrence* — Rob Leland, Sandia National Laboratories
4:00 PM	**Talk:** *Risks and opportunities for cybersecurity posed by quantum technology* — Marcin Niemiec, AGH University of Science and Technology Stanisław Staszic in Krakow
4:30 PM	**Introduction to Smart Games and CPSICC Gameplay:** David Johnson, Purdue Univeristy
5:00 PM	**Evening Mixer, Lightning Talks** (food will be provided) Joel Rasmus, Purdue University Stacey Connaughton, Purdue University Ben Bonin, Sandia National Laboratories Igor Linkov, U.S. Army Engineer Research and Development Center Anjuli Bamzai, NSF GEO
7:00 PM	**Adjourn**

Wednesday, July 31

Morning Session

8:00 AM	**Registration and Light Breakfast**
8:30 AM	**Introductory Talk:** *From threat multiplier to opportunity multiplier in climate security and infrastructure resilience* — Sherri Goodman, Wilson Center
9:00 AM	**Setup and Scenario Building**
9:30 AM	**Gameplay** 1) Near term to 2030 2) Scenario role play 1 3) Scenario role play 2
12:00 PM	**Lunch with Game Groups** (food will be provided)

Afternoon Session

1:00 PM	**Gameplay**
2:30 PM	**Coffee Break**
2:45 PM	**Short Talk:** *Science of Analytical Gaming* —Lynn Yang, Sandia National Laboratories
3:00 PM	**Summary of Game Results and Report Out**

Agenda

3:45 PM	**Short Talks**
	Modeling human dynamics for critical infrastructure resilience — Budhendra (Budhu) Bhaduri, Oak Ridge National Laboratory
	Is cybersecurity turning up the heat on climate change? — Helge Janicke, Cyber Security Cooperative Research Centre, Australia
	Human-centered cyber security — Giovanni Russello, Auckland University
	Climate risks, uncertainties, and economic opportunities — Gernot Wagner, Columbia Business School
	Three worldviews for complex systems — Thushara Gunda, Sandia National Laboratories
5:00 PM	**Break**
6:00 PM	**Banquet with TED-style Talks** (food will be provided)
	Lilian Alessa, University of Idaho
	Emerging climate risks: An inconvenient truth — Malcolm Mistry, Ca' Foscari University of Venice, Italy and Environment & Health Modelling Lab, The London School of Hygiene & Tropical Medicine, UK
	Swathi Veeravalli, National Security Council
	Robert Kopp, Rutgers University
	Honor Sangster, UK Ministry of Defence
	Waste heat as a neglected problem and energy treasure — Fero Simančík, Slovak Academy of Sciences
	Climate Risks to Critical Infrastructure — Matteo Gerlini, University of Siena
9:00 PM	**Adjourn**

Thursday, August 1

Morning Session

8:00 AM	**Registration and Light Breakfast**
8:30 AM	**Setup and Scenario Building**
9:00 AM	**Gameplay**
11:00 AM	**Summary Discussion**
12:00 PM	**Lunch with Game Groups** (food will be provided)

Afternoon Session

1:00 PM	**Group Work, SWOT Analysis, Next Steps, and Identifying Research Gaps**
4:00 PM	**Closing Remarks**
5:00 PM	**Adjourn**