



CYBER ENDEAVOUR 2017
Deterrence in and through Cyber Space 2022
Threats, Concepts, and Solutions
SEI AT CARNEGIE MELLON UNIVERSITY, PITTSBURGH PENNSYLVANIA
JUNE 20-22, 2017

Building: Mellon Institute 4400 Fifth AVE
Room: Mellon Institute Auditorium

- June 15-19** **Cyber X-Games**
0800-0900 On-Site Registration (Cyber X-Games Participants Only) Cyber X-Games Begins
- June 20** **Threats**
0730-0800 Registration and Check In
- 0800-0810 **Welcoming Remarks**
Farnan Jahanian - CMU Provost
- 0810-0815 **Introduction of Keynote Speaker**
Hy Rothstein - Director, DOD IO Center for Research
- 0815-0900 **Keynote Speaker**
MG Fogarty - CYBERCOM
- 0900-1030 **Panel: Framing the Deterrence Problem (Moderator: CAPT John Zerr)**
Erik Gartzke - UC San Diego
Martin Libicki - USNA
Greg Shannon - CMU
Leo Blanken – Naval Postgraduate School
- 1030-1040 **Break**
- 1040-1200 **Panel: Non State Actors and Proxys (ISIS) (Moderator: Antonio Scurlock)**
The Honorable Michael Lumpkin - Neptune
Katrina Lewis - ODNI Cyber
Keith Mularski - FBI Cyber Division
Randy Stanger - National Cyber Forensic Training Alliance FCFTA Cyber Division
- 1200-1330 **Lunch**
- 1330-1515 **Panel: Adversary Deterrence Strategies Comparison and Contrast of Russian, China, N Korea, and Iran : (Moderator – Leo Blanken)**
Kris Rush - CMU Iran
TBD - NSA Russia
Katya Drozdova – Seattle Pacific University North Korea
Timothy Thomas - Foreign Military Studies Office China
- 1515-1530 **Break**
- 1530-1700 **Panels: Internal Impediments (Moderator: MG(R) John Davis)**
David Hickton - DOJ Chief Cyber Prosecutor
Kathleen Bogner - MIT LL
Antonio Scurlock - DHS
Lawrence Zelvin - CITI Bank
Fred Hintermister - EISAC
- 1700-1710 **Day One Closing Remarks** - COL Michael Smith – Army Reserve Cyber Operations Group Commander
- 1700-1930 **Social:** Hosted w/Cash Bar at Bridges Restaurant – Wyndham Hotel – Pittsburgh University Center

June 21 Concepts

Building: Mellon Institute 4400 Fifth AVE
Room: Mellon Institute Auditorium

- 0700-0800 **Registration and Check In**
- 0800-0805 **Day Two Welcoming Remarks** – Dr. Hy Rothstein
- 0805-0930 **Panel: Cyber’s Contributions to General Deterrence (Moderator: Jackie Kerr)**
Erik Gartzke - UC San Diego
Scott Jasper - NPS
MG(R) John Davis - Palo Alto Networks
Mark Bristow - DHS
- 1050-1100 **Break**
- 0930-1050 **Panel: Cyber Contributions to Integrated Deterrence {State and Non-State} (Moderator: Jacquelyn Schneider)**
Greg Shannon - CMU
Martin Libicki - USNA
Ryan Maness - NPS
LTG(R) Rhett Hernandez – ACI
- 1100-1130 **Conference Photo**
- 1130-1300 **Lunch (Catered) Speaker:** CMU- Dr. Brumley – Soldiers and Sailors Memorial Hall, Grand Ballroom
- 1300-1420 **Panel: How to Manage an Attack/Crisis - Deter, Compel, Defend (Moderator: Rich Friedberg)**
Lawrence Zelvin - CITI Bank
Neil Jenkins - DHS
Omar Khawaja - Blue Cross Blue Shield
Fred Hintermister - EISAC
- 1420-1430 **Break**
- 1430-1600 **Panel: The Role of Cyber Autonomy in Deterrence (Moderator: Summer Fowler)**
MG(R) John Davis - Palo Alto Networks
Beau Woods - Atlantic Council
Dustin Frazee - DARPA
Ben Price - MIT LL
- 1600 - 1730 **Panel: Validating Assumptions About Deterrence in the Cyber Domain (Moderator: Paula Donovan)**
Erik Gartzke - UC San Diego
Jacquelyn Schneider - Naval War College
Martin Libicki - USNA
Perry A Pederson - Pacific Northwest National Laboratory
Troy Nash - Lawrence Livermore Lab
- 1730-1735 **Day Two Closing Remarks** – CMU – Maj Gen (R) Bob Behler
- 1735-1900 **Social: SEI Building – First Floor**

June 22 Solutions
Building: SEI 4500 Fifth AVE
Room: Jordan Auditorium

- 0700-0800 **Registration and Check In**
- 0800-0830 **Keynote Speaker:**
VADM Tighe - N2/N6
- 0830-1000 **Panel: Cyber Facilitating Information Operations for Deterrence (Moderator: Chris Paul)**
Dr Rothstein – NPS
Lincoln Liebner – OSD
Rand Waltzman - Rand
Austin Branch - Colsa Corp
- 1000-1015 **Break**
- 1015-1145 **Panel: Targeting Solutions: States, Non-States, Military, and Networks (Moderator: CDR Pablo Breuer)**
LTG(R) Hernandez - ACI
Kris Rush - CMU/SEI
Maj Gen Wilson - USD-P
Sharon Hower - WARCOC
- 1145-1300 **Catered Lunch**
- 1300-1420 **Panel: Special Operation in Cyber Space – Prepping the Battlespace/Capabilities Management (Moderator: Don Barber)**
SFC Kennerly - USASOC
Kevin Butler - WARCOC
CDR Breuer - NPS
Hy Rothstein - NPS
- 1420-1430 **Break**
- 1430-1550 **Panel: Cyber Escalation Dominance: Escalation and Resilience (Moderator: Rand Waltzman)**
CAPT Zerr - CYBERCOM
Maj Gen Wilson - OSD-P
Jacquelyn Schneider - NWC
Craig Schultz - Neo Prime Solutions
- 1550-1600 **Break**
- 1600-1650 **Panel: Road Ahead (Moderator: Hy Rothstein)**
Greg Shannon - CMU
Chris Paul - Rand
Robert Vince - Lawrence Livermore Lab
Maj Gen Wilson - OSD-P
MG(R) John Davis - Palo Alto Networks
- 1650-1700 **Closing Remarks:** Dr Hy Rothstein