

CISSMUpdate



CISSM Winter 2019 Newsletter

CISSM cybersecurity framework presents an effects-centric approach to assessing risk

In a new CISSM Report, "[An Effects-Centric Approach to Assessing Cybersecurity Risk](#)," CISSM Research Associate Charles Harry and CISSM Director Nancy Gallagher outline the main features of an analytic framework that provides the building blocks needed to satisfy federal cybersecurity standards and other best practice guides:

- A system for classifying cyber threats and events by their effects.
- Tools to associate organizational functions with IT topologies.
- Algorithms to assess the severity of disruptive and exploitative cyber events.
- A method to understand the integrated nature of risk across different parts of a simple organization, major divisions of a complex organization, or interconnected organizations in a complex system.



Using a comprehensive, consistent, and repeatable method to categorize and measure risk, such as the CISSM Framework, can enhance communication and decision-making among executives who make strategic decisions for organizations and their IT staff with day-to-day responsibility for cybersecurity. It can facilitate cooperation between public officials and private industry who share responsibility for different components of national critical infrastructure. It can inform media coverage and public debate about important policy questions, such as which decisions about cybersecurity should be purely private decisions, whether government should incentivize or mandate certain cybersecurity choices, and when a cyber attack warrants some type of military response.

Harry, Gallagher, and Hitchens to speak at inaugural UMD cybersecurity conference

Senior Research Associate Charles Harry, CISSM Director Nancy Gallagher, and Senior Research Associate Theresa Hitchens will each be participating in panels and discussions as part of the inaugural [2019 Executive UMD Cybersecurity Summit](#), which is being held on April 4-5, 2019 at The Hotel at the University of Maryland, College Park.

[VIEW THE SUMMIT AGENDA](#)
[VIEW THE SUMMIT PARTICIPANTS](#)

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SPP launches Kelleher fellowship for international security graduate students

The University of Maryland School of Public Policy is [launching a new graduate fellowship to support students studying international security policy](#). The fellowship is named in honor of [College Park Professor Catherine Kelleher](#), who was a founding faculty member of the school and has a long track-record of working to advance the careers of women scholars and practitioners.

The fellowship, the Catherine Kelleher Fellowship for International Security Studies, will provide full support to one master's or doctoral student at the University of Maryland School of Public Policy each year. The award will be open to any student studying international security policy broadly defined, but will give special consideration to students interested in cooperative approaches to reducing nuclear risks and addressing other security challenges in U.S.-European relations, an approach that Professor Kelleher championed as a scholar, government official, and a policy practitioner.



Two-thirds oppose U.S. withdrawal from Intermediate Nuclear Forces Treaty, new CISSM study finds

As the Trump administration has formally initiated the process of withdrawing from the Intermediate-range Nuclear Forces (INF) Treaty with Russia, saying that Russia has persistently violated the Treaty, [a just-completed survey of American voters finds](#) that two thirds oppose taking this step, opting instead for staying within the Treaty and redoubling efforts to work with the Russians to resolve their disputes about compliance. Those opposed to withdrawing from the Treaty include 55% of Republicans and 51% of Trump voters, as well as 77% of Democrats.



[READ VICTOR ESIN'S NEW CISSM WORKING PAPER, "A RUSSIAN VIEW OF THE U.S. INF WITHDRAWAL."](#)

Alumna Q & A : Mariel Borowitz on the Relevance of Outer Space Policies

President Trump's recent announcement about forming a U.S. Space Force has brought space policy issues to the international security forefront. [CISSM reached out to alumna Dr. Mariel Borowitz](#), an assistant professor at the Sam Nunn School of International Affairs at the Georgia Institute of Technology, to learn about her work on space policy and to ask what other issues—besides Space Force—she thinks ought to be getting more attention in policy and public discussions.



[READ THERESA HITCHEN'S UPDATED WORKING PAPER ON MULTILATERAL](#)

[SPACE GOVERNANCE](#)

Steinbruner fund supports student work on Russia, arms control

On a trip to Moscow, Russia, in November 2018, School of Public Policy master's student Tucker Boyce (pictured, far right, with U.S. Ambassador to Russia Jon Huntsman) found himself sitting face to face with members of the Russian Ministry of Foreign Affairs. "Meeting those officials gave me a different perspective on the latest arms control developments, including President Trump's decision to withdraw the United States from the INF Treaty," says Boyce.



[GIVE TO THE STEINBRUNER STUDENT SUPPORT FUND](#)

Boyce's trip to Moscow as part of an educational program organized by Stanford University was made possible in part by support from the Steinbruner Student Support Fund. He was among three [School of Public Policy students who recently received support from the fund](#).

Master's students Lindsay Rand and Erica Symonds both received support from the fund to attend this year's ISODARCO conference in Italy, which focused on the past and future of arms control.

CISSM hosts European Space Agency director

CISSM [hosted a delegation from the European Space Agency \(ESA\)](#), including Johann-Dietrich "Jan" Wörner, the Director General of ESA, for a discussion about international cooperation on a range of space issues, including exploration, data collection and analysis, and debris mitigation on December 7, 2018.

Wörner kicked off the meeting by emphasizing how ESA sees international cooperation as the key enabler for new activities in space, even though competition has driven these changes. This is particularly relevant in the current "Space 4.0" environment, where shifts in the variety of different actors operating in space has helped spur new uses of space.



Recent CISSM publications

Charles Harry & Nancy Gallagher, ["An Effects-Centric Approach to Assessing Cybersecurity Risk,"](#) A CISSM Report, March 3, 2019.

Victor Esin, ["A Russian View of the U.S. INF Withdrawal,"](#) CISSM Working Paper, March 3, 2019.

Davin O'Regan, ["Civil Society and Civil War Onset: What is the Relationship?"](#) CISSM Working Paper, December 17, 2018.

Rachael Gosnell, ["The Militarization of the Arctic is Not Certain,"](#) CISSM Policy Brief, December 3, 2018.

Theresa Hitchens, ["Forwarding Multilateral Space Governance: Next Steps for the International Community,"](#) CISSM Working Paper, August 27, 2018.

Recent publications by CISSM researchers

Lindsay Rand, "[Approaching Y2Q and Barely a Peep \(or Tweet\) from the Government](#)," *Bulletin of the Atomic Scientists*, February 27, 2019.

Maria Snegovaya, "[What Factors Contribute to the Aggressive Foreign Policy of Russian Leaders?](#)" *Problems of Post-Communism*, January 18, 2019.

Charles Harry, "[The Quiet Threat Inside 'Internet of Things' Devices](#)," *TheConversation.com* January 11, 2019.

Steven Kull, "[Americans Don't Want Trump's Border Wall. This is What They Want Instead](#)," *The Monkey Cage*, January 11, 2019.

Nancy Gallagher, Charles Harry, "[Classifying Cyber Events: A Proposed Taxonomy](#)," *Journal of Information Warfare*, December 17, 2018.

I.M. Destler, "[The Foreign Policy Genius of George H. W. Bush](#)," *ForeignAffairs.com*, December 04, 2018.

Maria Snegovaya, "[When Left-leaning Parties Support Austerity, their Voters Start to Embrace the Far Right](#)," *The Monkey Cage*, November 20, 2018.

Milton Leitenberg, "[The Hazards of Operations Involving Nuclear Weapons during the Cold War](#)," *Journal of Cold War Studies*, October 01, 2018.

Milton Leitenberg, "[A Review of the Question of WMD Terrorism](#)," Author presentation, August 02, 2018.

I.M. Destler, "[Tom Schelling at Maryland](#)," *Negotiation Journal*, July 23, 2018.

About CISSM

CISSM conducts research, outreach and education focused on multiple, overlapping types of international security challenges. The challenges include those posed by dual-use technologies (e.g., information, nuclear and space), political dynamics that threaten human security, and those that require national governments (including the United States, China, Russia and Iran) to develop innovative forms of international cooperation and governance. [Contact CISSM](#).

Support CISSM

[CISSM's Target of Opportunity Fund](#) supports exploratory research, education, and outreach efforts on security policy problems for which CISSM does not currently have dedicated grant funding.

The [Steinbruner Student Support Fund](#) provides financial support for research and professional development activities by School of Public Policy students working on any policy problem related to cooperative security.

The [Kelleher Fellowship for International Security Studies](#) supports School of Public Policy students focused on international security policy.

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