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Cyber Energy Center

Welcome to the

TRANSFORMING CYBERSECURITY WORKSHOP

Hosted by

PITT CYBER & CYBER ENERGY CENTER

Welcome & Thank you for Coming

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This workshop arose from asking the question, “What if we could change cyber risk by orders of magnitude?”

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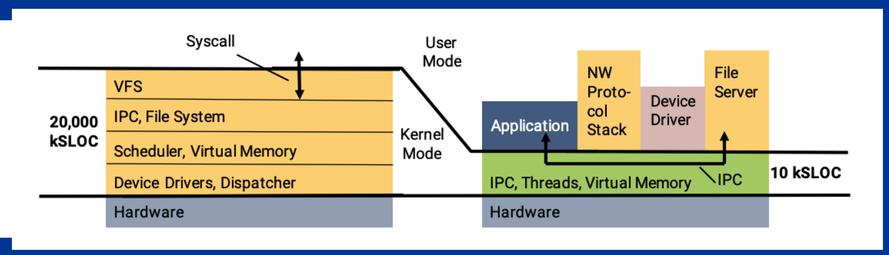
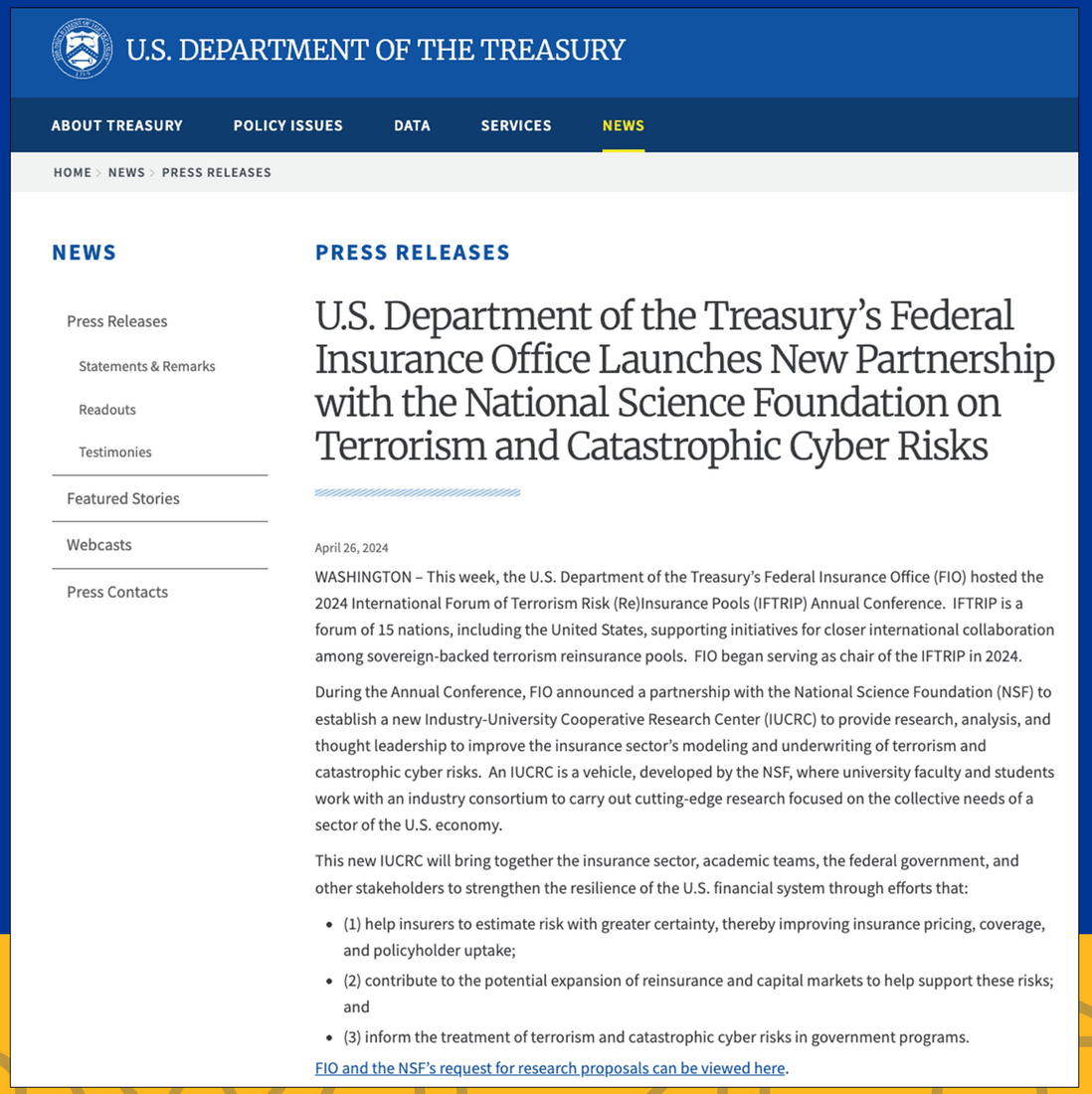
Security. Performance. Proof.





U.S. DEPARTMENT OF THE TREASURY

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PRESS RELEASES

U.S. Department of the Treasury’s Federal Insurance Office Launches New Partnership with the National Science Foundation on Terrorism and Catastrophic Cyber Risks

April 26, 2024

WASHINGTON – This week, the U.S. Department of the Treasury’s Federal Insurance Office (FIO) hosted the 2024 International Forum of Terrorism Risk (Re)Insurance Pools (IFTRIP) Annual Conference. IFTRIP is a forum of 15 nations, including the United States, supporting initiatives for closer international collaboration among sovereign-backed terrorism reinsurance pools. FIO began serving as chair of the IFTRIP in 2024.

During the Annual Conference, FIO announced a partnership with the National Science Foundation (NSF) to establish a new Industry-University Cooperative Research Center (IUCRC) to provide research, analysis, and thought leadership to improve the insurance sector’s modeling and underwriting of terrorism and catastrophic cyber risks. An IUCRC is a vehicle, developed by the NSF, where university faculty and students work with an industry consortium to carry out cutting-edge research focused on the collective needs of a sector of the U.S. economy.

This new IUCRC will bring together the insurance sector, academic teams, the federal government, and other stakeholders to strengthen the resilience of the U.S. financial system through efforts that:

- (1) help insurers to estimate risk with greater certainty, thereby improving insurance pricing, coverage, and policyholder uptake;
- (2) contribute to the potential expansion of reinsurance and capital markets to help support these risks; and
- (3) inform the treatment of terrorism and catastrophic cyber risks in government programs.

FIO and the NSF’s request for research proposals can be viewed here.

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The goal of this workshop is to explore how technological innovation, policy development, and better risk modeling can be used to develop new strategies that reduce cyber risks and enhance resilience.

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Time	Duration	Description	Speakers
8:30am	30 min	Gathering w/ Continental Breakfast	
9:00am	15 min	Welcome, Introductions, and Overview	Dan Cole, Pitt Erica Owen, Pitt
9:15am	60 min	Keynote: Transforming Cybersecurity	Cheri Caddy, McCrary Institute
10:15am	30 min	**Break**	
10:45am	60 min	Keynote: New Horizons in Cybersecurity and Risk	Greg Shannon, INL
11:45am	60 min	**Lunch**	
12:45pm	60 min	Panel #1: Perspectives on Risk	Derek Brown, EQT Jim Gillespie, GrayMatter Mark Hairston, Seubert & Associates Sarah Scheffler*, CMU
1:45pm	15 min	**Break**	
2:00pm	60 min	Panel #2: Certification and Policy	Chad Heitzenrater, RAND Pgh Zya Hydari, Pitt Sam Perl, CMU SEI Cheri Caddy*, McCrary Institute
3:00pm	15 min	**Break**	
3:15pm	60 min	Interactive Discussion: Designing the Future of Cybersecurity	Rob Cunningham*, Pitt
4:30pm		**Adjourn**	**Designates Discussion Chair*

Transforming Cybersecurity

Cheri Caddy
Senior Cybersecurity Fellow, McCrary Institute for Cybersecurity & Critical Infrastructure at Auburn University;
former Deputy Assistant National Cyber Director for Research & Technology, the White House

New Horizons in Cybersecurity and Risk

Greg Shannon, PhD
Laboratory Fellow and Chief Cybersecurity Scientist
National & Homeland Security Directorate
Idaho National Laboratory (INL)

Perspectives on Risk

Derek Brown, EQT
Jim Gillespie, GrayMatter
Mark Hairston, Seubert & Associates
Sarah Scheffler, CMU (Chair)

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Certification and Policy

Chad Heitzenrater, RAND Pittsburgh
Zia Hydari, Pitt
Sam Perl, CMU SEI
Cheri Caddy, McCrary Institute (Chair)

Designing the Future of Cybersecurity

Robert K. Cunningham, PhD
Vice Chancellor for Research Infrastructure
University of Pittsburgh

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TRANSFORMING CYBERSECURITY

A MULTIDISCIPLINARY APPROACH TO RISK, TECHNOLOGY, AND POLICY

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