

# Foreign Influence and Research Security: The Challenges Continue

August 18, 2020

## Moderator:

Robert Hardy, Director of Research Security & Intellectual Property (COGR)

## Panelists:

**Stephen Binkley**, Principal Deputy Director, Office of Science, Department of Energy

**Lizbet Boroughs**, Associate Vice President for Federal Relations, Association for American Universities (AAU)

**Michael Corn**, Chief Information Security Officer, University of California, San Diego and Co-Chair, Educause Higher Education Information Security Council (HEISC)

**Elizabeth Peloso**, Associate Vice Provost and Assoc. Vice President for Research Services, University of Pennsylvania

**Hanan Saab**, Asst. Vice President for Federal Relations, (AAU)

# Today's Topics

- DOE Update
- NDAA & Congressional Developments
- CMMC & Cybersecurity
- Section 117 Update
- Immigration Update
- Q&A

# DOE Update

**Stephen Binkley**, Principal Deputy  
Director, Office of Science,  
Department of Energy



# NDAA & Congressional Developments

**Hanan Saab, Asst. Vice  
President for Federal Relations,  
(AAU)**



**SEC. 1746. SECURING AMERICAN SCIENCE AND TECHNOLOGY.**

(a) INTERAGENCY WORKING GROUP.—

(1) IN GENERAL.—The Director of the Office of Science and Technology Policy, acting through the National Science and Technology Council, in consultation with the National Security Advisor, shall establish or designate an interagency working group to coordinate activities to protect federally funded research and development from foreign interference, cyber attacks, theft, or espionage and to develop common definitions and best practices for Federal science agencies and grantees, while accounting for the importance of the open exchange of ideas and international talent required for scientific progress and American leadership in science and technology.

(2) MEMBERSHIP.—

(A) IN GENERAL.—The working group shall include at least one representative of—

- (i) the National Science Foundation;
- (ii) the Department of Energy;
- (iii) the National Aeronautics and Space Administration;
- (iv) the Department of Commerce;
- (v) the Department of Health and Human Services;
- (vi) the Department of Defense;
- (vii) the Department of Agriculture;
- (viii) the Department of Education;
- (ix) the Department of State;
- (x) the Department of the Treasury;
- (xi) the Department of Justice;
- (xii) the Department of Homeland Security;
- (xiii) the Central Intelligence Agency;

# FY 21 National Defense Authorization Act

## Key Provisions of Interest

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**Sec. 281 National Security Innovation Pathways**

**Sec. 1763 Online and Distance Education Classes**

**Sec. 279 Traineeships for American Leaders to Excel in National Technology and Science (TALENTS)**

**Sec. 229 Disclosure of Foreign Funding Sources in Applications for Federal Research Awards**

**Sec. 6282 Academic Liaison to Protect Against Emerging Threats**

**Sec. 228 Measures to Address Foreign Talent Programs**

**Sec. 1264 Enhanced Information Sharing Requirements for Basic Research**

**Sec. 830B Prohibition on Procurement or Operation of Foreign-Made Unmanned Aircraft Systems**

# Other Congressional Activity

## **Recent Bill Introductions & Legislative Updates**

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**S. 3997 Safeguarding American Innovation Act**

**S. 4370 Stop Theft of Intellectual Property Act**

**H.R. 7842 INFLUENCE Act**

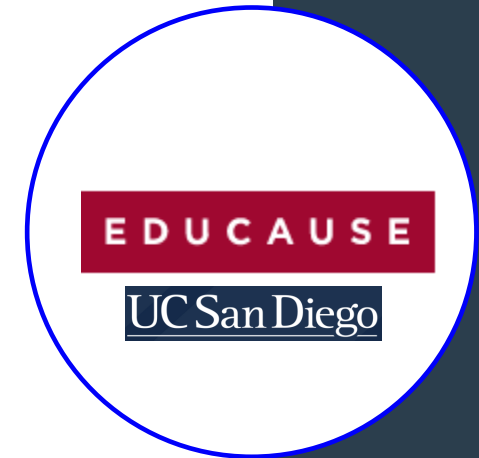
**S. 939 CONFUCIUS Act**

**S. 3837 COVID-19 Vaccine Protection Act**

**House GOP China Task Force**

# CMMC & Cybersecurity

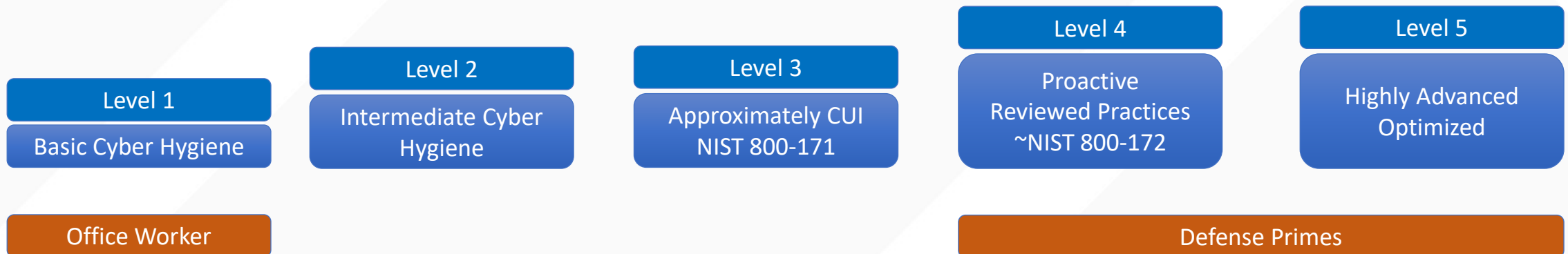
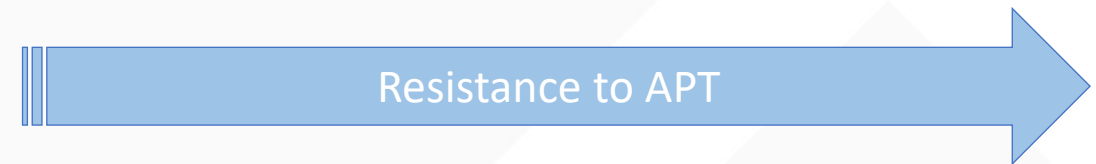
**Michael Corn**, Chief Information Security Officer, University of California, San Diego and Co-Chair, Educause Higher Education Information Security Council (HEISC)





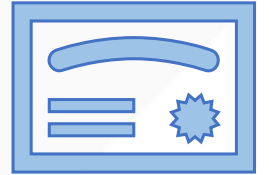
# CYBERSECURITY MATURITY MODEL CERTIFICATION (CMMC) IN A NUTSHELL

- Five tier system of security and IT practices
- Largely based on NIST 800-53
- Each tier represents an increasing level of maturity of practices
- For security professionals the items in each tier are familiar



# CMM CERTIFICATION

- Requires each environment to be pre-certified prior to responding to a solicitation
- Certification audit performed by an assessor who is trained and certified by the CMMC-AB (accreditation body) <https://www.cmmcab.org/>
- Certification is lasts for three years
- CMMC program has suggested a Level 1 institutional certification may be required
- Only DoD contracts are in scope initially



## Timeline

- Defense Federal Acquisition Regulation Supplement (DFARS) 252.204-7012 is undergoing a rule change to include CMMC (expected completion October 2020)
- CMMC expected in contracts starting November 2020 and continuing through 2026 for comprehensive implementation
- DoD expects 7500 organizations to achieve certification in 2021 (~20 / day)

# WHAT WILL CMMC MEAN FOR YOUR INSTITUTION

- A failure to address could result in a complete loss of DoD funding in the next decade
- An institutional certification could cost 7+ figures to achieve
- Basic research exemption only at the discussion phase
- Contract flow down could result in Level 4 & 5 obligations
- CMMC enclaves could take 6 months to 1 year to bring into compliance
- Certifying labs (or ships) in situ will be very challenging and has not be addressed by CMMC standards explicitly

CMMC is Research Issue



CMMC is operationalized by infosec



Research culture is one of autonomy



CMMC is blind to COVID



# TACKLING THE DIVERSE IT ENVIRONMENTS: INTERNAL SELF-CERTIFICATION

## Define and publish internally a baseline standard based around CMMC L1 aka “Cybersecurity Baseline for Research”

- Ensure and encourages common security controls (e.g., anti-malware software, regular patching) and record-keeping are deployed
- Provides visibility for early detection of attacks and compromises which is critical for response and remediation
- Education of IT staff is critical! Emphasize practice and not ‘controls’ or ‘security’
- Security, research IT / facilitators / divisional leaders can assist labs with security guidance and baseline implementation

## Require labs to self-certify compliance with the UC San Diego Baseline for Research

- Ensures
  - Labs and distributed IT assets are identified with local accountability identified
  - Local IT teams with labs, working with central IT, can improve their cybersecurity position
- Begins shifting the culture around pro-active cybersecurity management, periodic assessment and continuous improvement and significantly prepares UCSD for Federal imposition of CMMC or similar standards
- Biennial process
- Program overview and introduction at <https://assure.ucsd.edu>

# Section 117 Update

**Elizabeth Peloso**, Associate Vice  
Provost and Assoc. Vice President for  
Research Services, University of  
Pennsylvania



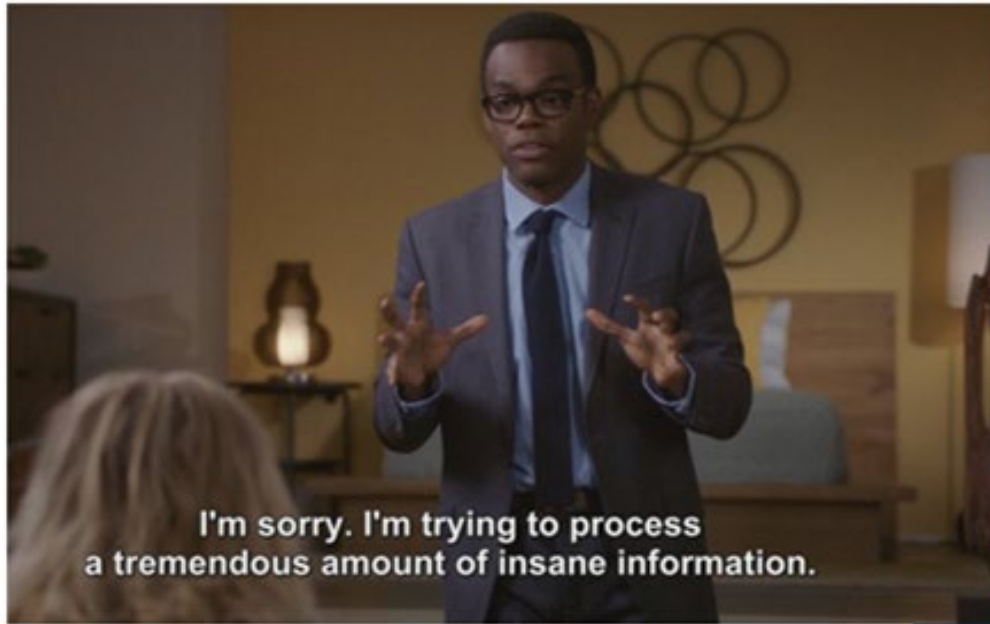
# Department of Education Section 117 reporting

- New reporting requirements in 2020 include
  - Required identification of donors
  - Expanded definition of institutions
  - Expanded definitions and information requirements for foreign sources
  - Identification of intermediaries
  - Detailed information on foreign contract restrictions
- New reporting portal for 2020 (first use for July 31 reporting deadline)
  - Limited functionality
  - No ability to correct a submitted record
- Still no defined process to correct/amend past reporting periods
- COGR is planning to reach out to the department of Education on these issues

# Immigration Update

**Lizbet Boroughs**, Associate Vice  
President for Federal Relations,  
Association for American Universities  
(AAU)





I'm sorry. I'm trying to process  
a tremendous amount of insane information.

Policy changes  
from  
administration



# Three “buckets” facing international students and scholars



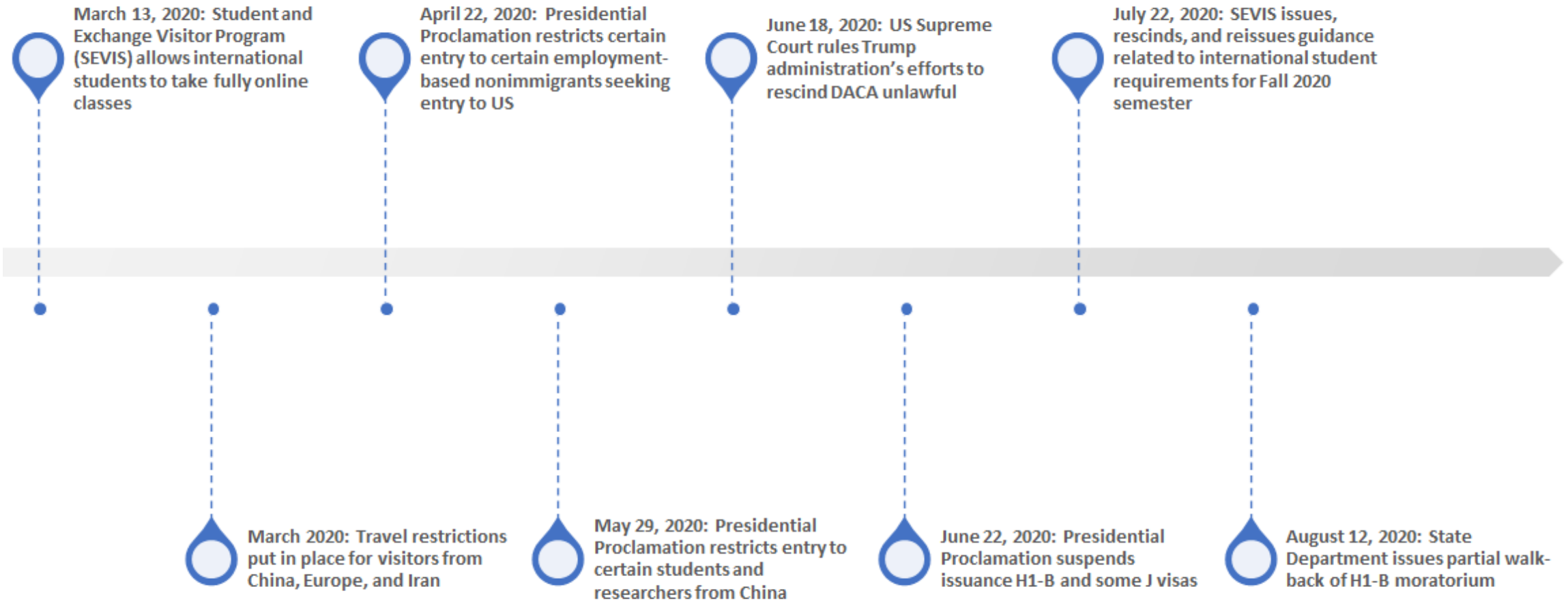
OBTAINING VISAS FROM  
STATE DEPARTMENT



OBTAINING ENTRY INTO THE  
US FROM CUSTOMS AND  
BORDER PROTECTION



OBTAINING EMPLOYMENT  
AUTHORIZATION FROM USCIS



# Litigation

- June 22 - skilled worker litigation filed
- July 6 order on international students and on-line learning
- SCOTUS decision on DACA rescission
- September 11 hearing on high-skilled restrictions

# AAU Forecast



Continued guidance, rules and Executive Orders



Litigation, rather than legislation



Security concerns conflated with economy

# Q & A

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# Thank You



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