

THE CIP REPORT

CENTER FOR INFRASTRUCTURE PROTECTION

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The June issue of The CIP Report highlights domestic and international education and training programs that incorporate the complex issues of critical infrastructure and key resources protection into their curriculum.

The George Mason University School of Public Policy provides information about the development of a new graduate degree program. This degree, the Executive Masters in Public Policy: Leadership in Critical Infrastructure Protection (EMPP-CIP), was created through the partnership between School of Public Policy and the Center for Infrastructure Protection. They also provide information about the Federal Emergency Management Agency (FEMA) cooperative agreement that was recently awarded to them and the Center for Infrastructure Protection.

We are pleased to include information about new and revised courses and training programs offered through the Department of Homeland Security (DHS) Office of Infrastructure Protection. These professional programs are available to Federal homeland security professionals as well as to private sector professionals who wish to enhance their knowledge of critical infrastructure and information protection. In addition to George Mason and the DHS Office of Infrastructure Protection, there are a number of innovative universities and training academies that have integrated critical infrastructure issues and topics into their programs. We are delighted to feature both domestic and international education and training programs in this issue.

The Legal Insights column this month reveals the development of a new law concentration offered through the George Mason University School of Law. The Homeland and National Security Law Concentration in the Juris Doctor program prepares students for careers in homeland and national security in both the public and private sector. The Cyber Conflict Perspectives monthly column proposes an ideal curriculum for international cyber incident management legal studies. Finally, this issue includes information about the upcoming 3rd National Conference on Security Analysis and Risk Management that the Center for Infrastructure Protection is co-hosting.

We hope you enjoy this issue of The CIP Report as well as find it useful and informative. Thank you for your support and feedback.



Mick Kicklighter
Director, CIP
George Mason University, School of Law



School of Law

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INFRASTRUCTURE PROTECTION

Graduate Concentration in Leadership for Critical Infrastructure Protection Combining Academic Excellence and Professional Development

by Christine Pommerening, Research Assistant Professor
George Mason University School of Public Policy

Educational Vision

The Executive Masters in Public Policy: Leadership in Critical Infrastructure Protection (EMPP-CIP) is currently under development at George Mason University, a joint effort by the School of Public Policy and the School of Law's Center for Infrastructure Protection.

With its focus on developing leaders in critical infrastructure protection, this new EMPP-CIP degree is unique in combining academic excellence and professional development. As such, it also fits into the National Infrastructure Protection Plan education strategy, which views the role of university programs as presenting advanced knowledge, research, and theories to promote professional development for the protection of critical infrastructure and key resources.

While most people in the homeland security community agree that we indeed need a robust and comprehensive set of courses and degrees in all facets of the field, turning such visions into practice is where the rubber meets the road.

Turning Vision into Practice

Typically, the demand from prospective students (and their current and future employers) starts out at a different level than the

In addition to the School of Public Policy's EMPP-CIP degree, George Mason University's School of Law is also launching a new concentration in Homeland and National Security Law (see page 6).

supply of courses offered by academic institutions. Emerging fields of study such as CIP do not yet have a well-defined place within the traditional disciplines — they are too broad and too new to easily fit within academic accreditation and approval standards established to ensure consistent quality. Even if they were not subject to accreditation and approval, graduate schools and their faculty cannot compromise on the quality and rigor of their base curriculum.

Thus, the approach here is to adapt an established master's curriculum for a particular audience. This guarantees academic excellence by providing a solid foundation rather than starting from scratch or offering a patchwork of unrelated courses. At the same time, it validates the subject-matter expertise and job experience of students dealing with CIP issues. Through this combination, the level of knowledge and thought leadership is elevated in both academia and the workplace.

Program Practice

The goal of the EMPP-CIP is to develop and advance professionals within and across governmental agencies, non-governmental organizations, and the private sector that deal with critical infrastructure risk management. Participants from these organizations will meet one another, develop professional relationships, share their unique perspectives, and come to understand one another's organizational exigencies. The program cultivates strategic thinking and analytical capabilities concerning risks and resilience in various areas, resulting in an ability to exercise leadership within and beyond each student's organization.

Applicants must be a GS-12 or its private sector equivalent and must be sponsored by their employers, which will certify experience level. Each select group of 20-25 professionals will move through the program as a cohort in an 18-month period of intensive study, occurring primarily on Fridays and

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Mason Receives FEMA Grant to Teach Infrastructure Protection

by Brien Benson, Ph.D.

Program Director, Enterprise Risk Management Training Program
Research Professor, George Mason University School of Public Policy

George Mason University was recently awarded a \$3.5 million cooperative agreement by the Federal Emergency Management Agency (FEMA) to develop training in infrastructure protection. The instruction is directed at the electric power industry and will show how the use of enterprise risk management techniques can help insure infrastructure protection. The project is a partnership of George Mason's School of Public Policy and the Law School's Center for Infrastructure Protection.

Enterprise risk management (ERM) is a management tool developed in the 1960s to help firms deal with the increasing complexity of risks arising from the merger wave of the period. At first ERM was exclusively a financial tool, but it has spread to include operations, marketing and strategic planning. ERM has gained widespread acceptance in the business community, and it is the subject of numerous professional articles and books.

In awarding this cooperative agreement to George Mason University, FEMA seeks to use a widely accepted business tool as a means to develop more sophisticated planning for and management of critical infrastructure protection. One major goal of the training is to

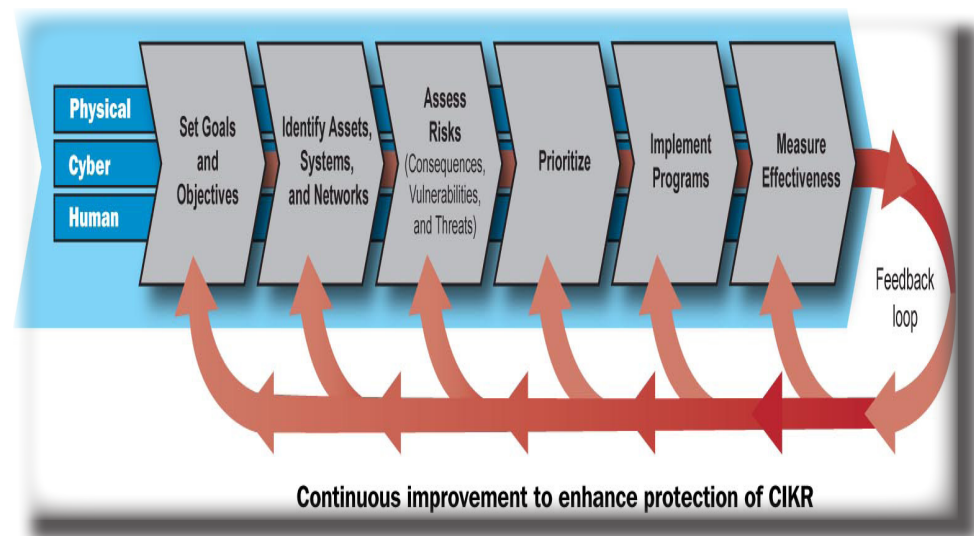
improve coordination between industry and government officials at the state and local level, in particular regulatory officials and state officials charged with overall responsibility for energy security and continuity. Training sessions will bring together public- and private-sector professionals in order to encourage increased understanding of each other's perspectives.

Another important goal of the training is to help achieve commonality of language regarding risk. At present, words like 'risk,' 'hazard,' 'resiliency,' and 'accident' are used to mean widely different things, leading to confusion in communication. One effort to address this problem is the Department of Homeland Security's 50-page booklet "Risk Steering Committee: DHS Risk Lexicon," which sets out formal definitions of

many terms currently used loosely with divergent meanings. The George Mason training will encourage participants to develop a more common understanding of words frequently used in discussing risk management.

Instructional material developed under FEMA's Competitive Training Grants Program must undergo a rigorous review process, in which outside subject matter experts review the proposed training modules and then negotiate changes with the grantee. Once the training material is approved by DHS, George Mason will begin the Delivery Phase of the agreement, in which training will be conducted broadly throughout the nation. George Mason will work in close cooperation with the Edison Electric Institute and the other major electric power trade

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DHS Launches New Course on CIKR Support Annex

by DHS Office of Infrastructure Protection

The Department of Homeland Security's Office of Infrastructure Protection has launched a new independent study course that focuses on how protection of national critical infrastructure and key resources (CIKR) is integrated into the National Response Framework (NRF). The NRF is the nation's blueprint for responding to terrorist incidents or natural disasters.

The CIKR Support Annex training (IS-821) presents the policies, procedures, and mechanisms used by the many public and private sector entities responsible for assessing, prioritizing, protecting, and restoring the nation's critical infrastructure during the response to natural disasters or terrorist attacks.

The CIKR Support Annex is essentially the bridge linking "steady-state" CIKR protection as detailed in the National Infrastructure Protection Plan (NIPP) and the NRF's unified approach to domestic incident management. The training is available free of charge at <http://training.fema.gov/emiweb/is/is821.asp>.

CIKR Webinars

The Office of Infrastructure Protection also offers free Webinars about CIKR and related subjects. Read more about this on page 7.

The CIKR Support Annex online course describes:

- The relationship between the National Response Framework and CIKR prevention, protection, and response and recovery;
- The role of the Infrastructure Liaison in supporting coordination with the CIKR sectors and all levels of partners; and
- NRF processes for integrating CIKR considerations into incident response.

The CIKR Support Annex course is an introductory course intended for a broad audience, including Federal homeland security professionals and Tribal, State, local, and private sector professionals from such fields as emergency management, infrastructure protection, planning, and security.

Participants who take IS-821 receive 0.1 CEU credit. IS-800.B on the National Response Framework is a prerequisite, and IS-860 on the National Infrastructure Protection Plan also should be taken prior to the support annex course. ❖

More information about the NRF and other NRF-related training is available at www.fema.gov/nrf.

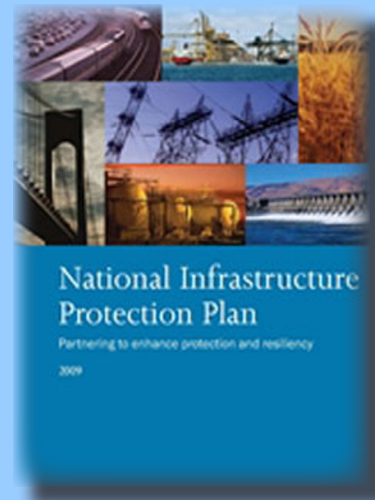
More information on the NIPP and CIKR is available at www.dhs.gov/nipp.

No Cost Infrastructure Protection Training Available

by DHS Office of Infrastructure Protection

DHS announced the release of a revised version of *IS-860.a National Infrastructure Protection Plan (NIPP)*. This online course was jointly developed by the DHS Office of Infrastructure Protection and FEMA's Emergency Management Institute. *IS-860.a* highlights:

- Explains the importance of protecting critical infrastructure and key resources (CIKR);
- Identifies the relevant authorities and roles for CIKR protection efforts;
- Provides an overview of the NIPP unifying structure for the integration of CIKR protection efforts — including the sector security partnership model, the risk management framework, and the information sharing process; and
- Covers changes and enhancements to the 2009 NIPP update, including the addition of the 18th CIKR sector (Critical Manufacturing), the role of the Regional Consortium Coordinating Council, and other elements of the new program.



The NIPP, originally released in 2006, was revised and updated early this year to reflect experience and changes in the threat environment.

The free course is available on FEMA's Emergency Management Institute learning site, accessible at www.dhs.gov/nipp. The course requires about two hours to complete, and provides 0.2 CEU to those passing the 25-question final exam. Individuals who have successfully completed IS-860 need not take the updated course; however, IS-860.a may serve as a useful refresher or primer on the 2009 updates. ❖

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LEGAL INSIGHTS

George Mason Introduces New Homeland and National Security Law Concentration

The George Mason University School of Law has approved a new specialty concentration in Homeland and National Security Law, enabling students to present potential employers, both in government and the private sector, with credentials reflecting a solid foundation in homeland and national security law.

This new concentration is an example of Mason Law's innovation and proactive efforts to produce future generations of law professionals who are focused and dedicated to our homeland security.

Mason is one of just two law schools in the United States with a homeland security focus to its national security curriculum. Recent years have seen a growing interest — among scholars, students, government officials, and private practitioners alike — in the fields of national security law, homeland security law, international law, and related topics.

While some law schools offer a course or two in security-related topics, such as 'terrorism and national security' or 'domestic preparedness law,' Mason Law's new specialty concentration in Homeland and National Security Law uniquely enables students to

focus on the 'homeland' aspect of national security. Topics to be covered include legal aspects of cyber security and the protection of other critical infrastructure, border control, disaster preparedness and response, and intelligence and information sharing.

Mason Law is uniquely positioned to develop this curriculum. George Mason has four tenured and tenure-track faculty who teach in these fields (Jonathan Mitchell, Jeremy Rabkin, Neomi Rao, and Nathan Sales). These professors have worked in the homeland security profession before joining Mason. The law school also has numerous adjunct faculty who currently work in the homeland security fields, as well as those who have past experience in the area.

Also, the law school's close relationship with the Center for Infrastructure Protection offers opportunities to supplement Mason's in-house expertise with outside and affiliated experts and research projects in homeland and national security law.

Specialty concentrations provide students with expertise in a particular substantive area, but also flexibility in terms of taking electives on a broad range of topics. Generally, in order to complete a

concentration, a student must complete 14 to 16 credit hours in that subject area. The new Homeland and National Security Law Concentration requires students to take six courses: Homeland Security Law, National Security Law, and Administrative Law, plus three elective courses selected from a list of relevant homeland security courses, such as technology and terrorism, immigration law, international law, aviation law, and privacy law.

The addition of the new concentration brings to 11 the number of concentrations available to George Mason Law students. The other ten concentrations are in Corporate and Securities Law, Criminal Law, Intellectual Property Law, International Business Law, Legal and Economic Theory, Litigation Law, Personal Law, Regulatory Law, Tax Law, and Technology Law. ♦

Click here for more information on the Homeland and National Security Law Concentration, and for information on School of Law go to <http://www.law.gmu.edu/>.

Office of Infrastructure Protection Continues Successful Critical Infrastructure and Key Resources Learning Series

by DHS Office of Infrastructure Protection

More than 250 public- and private-sector partners participated in the April 2009 offering of the Department of Homeland Security's 2009 Critical Infrastructure and Key Resources (CIKR) Learning Series. Participants discovered how engaged partnerships benefit both public and private sectors during a disaster. Presented by R. James Caverly, Director of the Office of Infrastructure Protection's Partnership and Outreach Division, the most recent seminar closely examined the roadmap for integrating critical infrastructure response into a unified approach to incident management.

The Office of Infrastructure Protection sponsors these one-hour Webinars on issues of interest to government stakeholders and owners and operators of the nation's CIKR. The Series provides the latest information on infrastructure protection tools, trends, issues, and best practices.

More than 3,000 people have participated in the CIKR Learning Series since its initial offering in August 2008. Topics covered include: Improvised Explosive Devices; The Role of Regional Coalitions in Implementing the National Infrastructure Protection Plan; Critical Infrastructure Protection Mission and Vision; and The Effective Use and Visualization of CIKR Data.

Information provided in these Webinars is helpful to a wide range of security partners, including emergency management professionals and systems, security, facilities, operations, and financial or risk managers — anyone engaged in activities promoting infrastructure protection and resilience. ❖

To view the previously recorded Webinar "Engaged Partnership for Disaster Response," visit <https://connect.hsin.gov/p21834718/>.

To register for notification of future CIKR Learning Series Webinars, please visit the program's Web page at http://www.dhs.gov/xprevprot/programs/gc_1231165582452.shtm.

Upcoming CIKR Learning Series Webinar

2009 Hurricane Season: A Readiness Guide for Critical Infrastructure Partners

23 June 2009
2:00 PM - 3:00 PM(ET)

PCII Program Procedures Manual

by Laura L.S. Kimberly, PCII Program Manager
IICD/IP/NPPD
Department of Homeland Security

The Department of Homeland Security's Protected Critical Infrastructure Information (PCII) Program Office is pleased to announce that a new edition of the PCII Program Procedures Manual is now available.

A copy of the 2009 Manual can be downloaded here. The updated Manual reflects changes made to PCII Program policies, procedures and requirements pursuant to the issuance of the Final Rule and additional operational experience gained since 2005.

Information validated as PCII is protected from public disclosure under the Freedom of Information Act (FOIA) and similar State and local disclosure laws, and from use in civil litigation. As owners/operators of critical infrastructure, your participation in information-sharing partnerships and the PCII

Program is important. The Manual will help you understand how to submit information and how it is safeguarded and handled once it is validated as PCII.

and trained individuals with a need to know, and that PCII is used appropriately for homeland security purposes to analyze threats and vulnerabilities.

Stricter requirements for a change in status:

The Manual refines guidance on the limited circumstances in which validated information relinquishes its protected status.

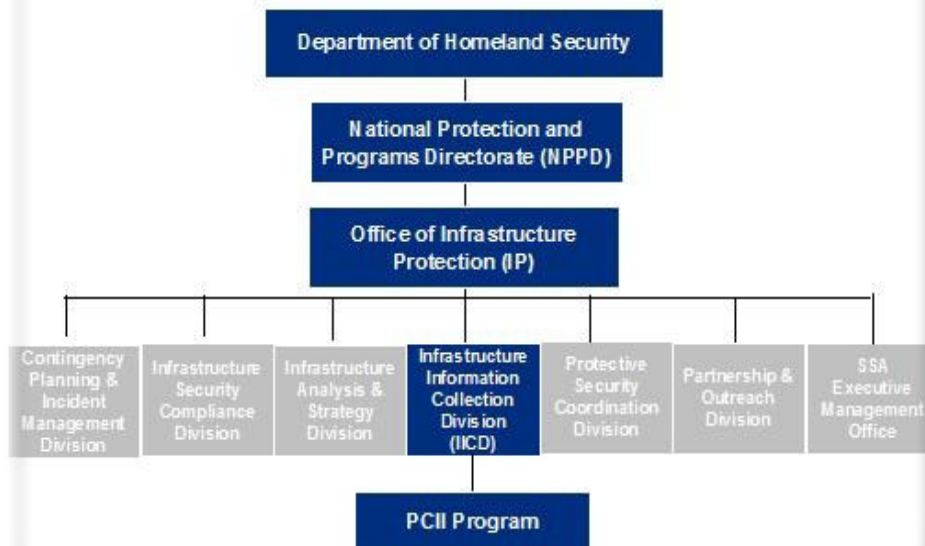
Clarification of what information is PCII protected:

Only critical infrastructure information (CII) that is received,

validated and marked by DHS as PCII is protected by the Critical Infrastructure Information Act of 2002 (CII Act). When validated and marked information is subsequently shared with accredited government entities and authorized users, the protections of the CII Act apply. Unmarked and invalidated CII retained by the submitter does

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PCII Program's Position Within DHS



In addition to clarifying the policies and procedures governing the receipt, validation, handling, storage, marking and use of PCII, the Manual highlights the following policies:

Enhanced oversight:

Enhanced oversight ensures that PCII is only accessed by authorized

DHS Releases Executive Training on Use of Protected Critical Infrastructure Information

by DHS Protected Critical Infrastructure Information (PCII) Program

The Department of Homeland Security's Protected Critical Infrastructure Information (PCII) Program protects critical infrastructure information from public disclosure while allowing the information to be shared with government security analysts. The PCII Program Office is pleased to announce the release of a new online Authorized PCII User Training created specifically for senior executives.

Advent of the new administration in January 2009 brought many new people to the PCII Program, some of whom need to become versant in PCII handling as quickly as possible. The executive training module provides a brief, high-level introduction to the policies and procedures surrounding the use, dissemination, and handling of PCII. Busy executives will gain a workable understanding of the basics of the PCII Program in about 15 minutes, including an overview of the basics of PCII safeguarding policies and a brief question and answer session at the end of the course.

The new course is only available to senior executives whose responsibilities merit a concise overview of the Program (as opposed to the standard Web-based Authorized User Training, which is longer and more detailed).

PCII Authorized User Training is an essential part of the process that security analysts go through to gain access to PCII. Participants in the PCII Program must be government employees or government contractors, have specific homeland security duties, complete the version of PCII Authorized User Training appropriate to their job responsibilities, and have a specific need to know the particular information to be accessed. ♦

To learn more about training offered by the PCII Program Office or about the Program in general, please e-mail PCII-info@dhs.gov, call (202) 360-3023, or visit the PCII Web page at <http://www.dhs.gov/PCII>.



CAPTAP

Popular DHS Training and Technical Assistance for State and Local CIP

by DHS Office of Infrastructure Protection

To support those on the front lines protecting the nation's critical infrastructure and key resources (CIKR), the Department of Homeland Security Office of Infrastructure Protection (DHS/IP) offers free training on critical infrastructure protection and planning to federal, state, and local first responders, emergency managers, and homeland security officials. Known as the CIKR Asset Protection Technical Assistance Program, or CAPTAP, the training is offered in partnership with the DHS Federal Emergency Management Agency and is conducted by National Guard instructors.

CAPTAP trains participants on how to identify and prioritize CIKR, conduct infrastructure vulnerability assessments, and build public and private partnerships to support their jurisdiction's infrastructure protection process.

Training on IP's Systems and Tools

Since 2005, CAPTAP has trained more than 2,500 participants. In addition to an overview of critical infrastructure protection (CIP), CAPTAP provides information on how to establish CIP programs, and discusses the benefits of Protected Critical Infrastructure Information

(PCII), an information-protection program that enhances information sharing between the private sector and the government.



WV National Guardsman First Sergeant Dan Phillips leads CAPTAP training course.

CAPTAP training includes hands-on experience using the Constellation/Automated Critical Asset Management System (C/ACAMS) — a Web-based data collection and management tool. C/ACAMS provides methods for cataloguing infrastructure sites and systems and includes instruction on how to create Buffer Zone Plans and prioritize assets. C/ACAMS also provides access to vulnerability assessment tools and can be tailored to the needs of individual jurisdictions, allowing users to determine the appropriate level of detail and to create customized reports.

Another feature of CAPTAP is an overview of Integrated Common Analytical Viewer (iCAV) mapping functions within C/ACAMS. The iCAV application allows users to visualize infrastructure geospatially for increased situational awareness.

In response to stakeholder requests for expanded training options, DHS IP is upgrading CAPTAP training to include a Web-based component to teach C/ACAMS functions using interactive lessons and knowledge check points. Web-based training will reduce the amount of time and resources needed for state participation in CAPTAP.

National CAPTAP Conference

Earlier this year, CAPTAP held its first national training conference, bringing together nearly 200 representatives from federal agencies, 38 states, two territories, and other local government representatives for a two-day discussion on how to protect vital infrastructure and establish CIP programs. Participants exchanged tips on best practices and lessons learned, while sharing insights on current CIKR protection tools

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