

About NSCI

The National Security Cyberspace Institute, Inc. (NSCI) was founded in 2008 to provide research and analysis services to public and private entities, including U.S. government agencies, academia and commercial entities. In addition to facilitating world-class cyberspace education and research, NSCI frequently advises organizations with operational and technical analysis of concepts, capabilities and emerging technologies; experimentation; capability integration; cyberspace and nuclear education and research; and senior mentoring services.

NSCI's key capabilities and organizations supported:

Capability	Organizations Supported
Operational and technical analysis of concepts, capabilities and emerging technologies	U.S. Strategic Command (USSTRATCOM) Capability and Resource Integration Directorate, Joint Functional Component Command Global Strike (JFCC GS), U.S. Joint Forces Command (USJFCOM), Global Cyberspace Integration Center (GCIC), Defense Advanced Research Product Agency (DARPA), Air Force Research Laboratory (AFRL) Information Directorate, AFRL Human Factors Directorate
Experimentation	USSTRATCOM, USJFCOM, GCIC
Capability Integration	USSTRATCOM, USJFCOM, AFRL
Cyberspace, Nuclear, and Global Strike Education and Analysis	USSTRATCOM, USJFCOM, Services, Department of Energy National Nuclear Security Administration, Industry, Academia, Congressional Members and Staff
Senior Mentoring Services	USSTRATCOM, USJFCOM, AFRL



National Security Cyberspace Institute

Analysis of concepts and capabilities

NSCI has a proven track record in the assessment of new concepts and leading-edge technologies to satisfy air, space and cyberspace integration requirements. An example of this is the expertise we bring to the U.S. Strategic Command's (USSTRATCOM) Joint Functional Component Command for Global Strike (JFCC-GS) and the Integrated Strategic Planning and Analysis Network (ISPAN) program – a net-centric mission planning and execution system employed by USSTRATCOM. In support of JFCC-GS and ISPAN, our team has performed the following primary functions:

- Requirements analysis and documentation, experimentation, assessment and transition of prototypes into the ISPAN Program of Record
- Principal cadre for operator training for the operational command center staffs of U.S. Combatant Commands, the United Kingdom and Australia
- Subject matter expertise in joint doctrine and strategic and operational planning activities across the full range of military operations
- Evaluation and recommendations regarding new and emerging capabilities versus current systems and processes

Experimentation support

Members of the NSCI team support the design, planning and execution of large- and small-scale experimentation and concept development activities in coordination with Air Force, Joint, sister-service and Coalition partner activities. In this capacity, we provide the following services:

- Consulting services to senior military and government leaders
- Evaluation of emerging and innovative C4ISR capabilities, concepts, technologies and systems
- Recommendations for interoperability and integration, testing, training and fielding
- Authoring of concept papers on experimentation-related topics for dissemination throughout the government and commercial sectors

During cyberspace Limited Objective Experiments (LOE) jointly sponsored by USSTRATCOM and USJFCOM, NSCI played a pivotal role in determining event objectives and agenda, providing senior mentors, documenting results and making follow-on recommendations for future LOEs. Our team has the talent and experience to support a variety of experimentation activities.

Capability integration

NSCI personnel assigned to the USSTRATCOM Capability and Resource Integration Directorate perform liaison duties to U.S. Joint Forces Command and the AF Global Cyberspace Integration Center (GCIC). We have thus established

a collaborative relationship to facilitate the exchange of C4ISR and cyber-related planning and execution information. We also provide recommendations concerning transition and integration of innovative C4ISR capabilities into various DoD programs of record. Specific contributions include:

- Support to identify a baseline of Computer Network Attack/Computer Network Exploitation (CNA/CNE) skill sets and manpower requirements
- Development of a process for establishing priorities for defense of critical cyberspace assets, enhancing DoD's ability to secure, operate and defend the Global Information Grid (GIG)
- System requirements analyses, system design studies, software requirements analyses and hardware and software demonstration
- Support to development of the Air Force's "Integrated Operating Environment" pilot effort to integrate air, space and cyberspace planning, execution and assessment
- Coordination of cyber-related data calls to the COCOMs and Services
- Aggregation/analysis of data and way-ahead recommendations to senior defense leaders

Cyberspace and nuclear education and research

NSCI conducts and facilitates cyberspace education and research through the definition, instruction, integration, employment and analysis of cyberspace strategy, policy, concepts, capabilities and tactics. NSCI contributes to increased cyberspace capabilities while also facilitating a full and open dialogue with the American people and international partners. We similarly assist USSTRATCOM in educating Joint Forces and the National Security Complex on the latest nuclear security and global strike-related news. We execute these functions primarily through the publication of two biweekly newsletters:

- *CyberPro* – NSCI's newsletter that informs the cyberspace community of relevant major news stories from a wide variety of sources. *CyberPro* includes feature articles and interviews conducted with senior leaders charged with cyber-related responsibilities, allowing them to share their perspectives on cyberspace and how their respective organizations are tackling the various challenges facing them in this newest warfighting domain.
- *Nuclear Surety and Global Strike (NSGS)* – Provides a thorough overview of the latest nuclear security and global strike-related news from a wide variety of sources.

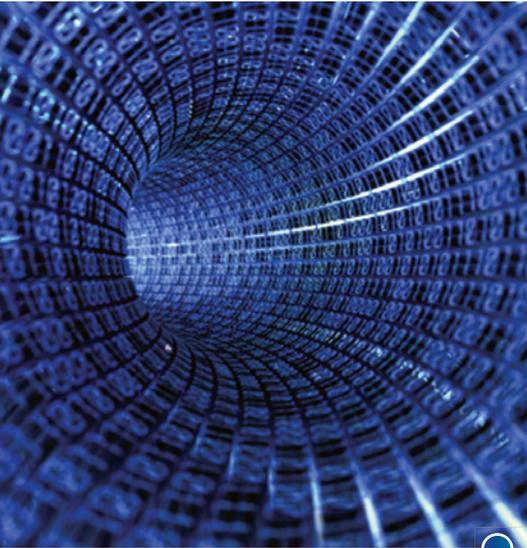
These newsletters also feature news of conferences, symposiums and trade shows that might be of interest to our readers. Recipients of *CyberPro* and *NSGS* include active duty and retired flag officers; congressional and gubernatorial staff offices; industry and academia; and international organizations.

Senior mentoring services

In addition to analysis support, NSCI provides senior mentors who facilitate discussions, promote consensus among participants such as Services and COCOMs, and provide observations and recommendations on key issues and challenges during conferences, experiments, workshops and other venues.

NSCI played a pivotal role in a recent cyberspace LOE, jointly sponsored by USSTRATCOM and USJFCOM. The LOE provided findings and recommendations regarding CNA/CNE baseline skill sets and personnel numbers.

Our senior mentors are also working with the Services on ways to organize and present cyber forces to the new U.S. Cyber Command, a review of C2-related science and technology projects, and analysis of processes and capabilities involved in command and control of space resources.



Summary

Since its founding in October 2008, NSCI has quickly become an industry leader in operational and technical analysis of concepts, capabilities and emerging technologies; experimentation; capability integration; cyberspace and nuclear education and research; and senior mentoring services. With broad-based expertise in C4ISR systems and processes, we are constantly seeking opportunities to team and collaborate with other organizations – from industry to government to academia – in pursuing similar goals and objectives.

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