



Charles N. Brownstein, PhD.

Brownstein is a Fellow at the Homeland Security Institute (HSI), an FFRDC conducting analytic research. He advises, conducts research and other activities on matters of strategic innovation and information technology applications.

At HSI he has led projects including the design of HSI's information sharing architecture, the promotion of innovation and collaboration in DHS, support of the REAL ID Program, implementation of the National Small Vessel Security Summit, Cyber Security R&D planning, and concept development for future IT intensive national exercise and common operating picture systems.

He joined HSI in 2005 as A Visiting Fellow from the National Academies, where he directed the Computer Science and Telecommunications Board (CSTB) undertaking studies including supercomputing, the DNS and Internet search, emergency services interoperability, electronic voting, cyber security, privacy, government IT applications, software systems development, and IT innovation.

He came to the National Academies in 2004 from the Corporation for National Research Initiatives (CNRI), where from 1994 to 2000 he directed the Cross-Industry Working Team (XIWT), a strategic industry consortium of up to 65 leading computing and telecommunications companies, and subsidiary organizations dealing with electronic payments and Internet performance measurement. He also was PI on independent research on Internet performance and security under awards from NSF and DARPA.

From 1974 to 1994 Brownstein served at the National Science Foundation (NSF) in positions including (in reverse order) the following:

- Director, NSF Office of Planning and Assessment;
- Deputy, and Assistant Director of NSF for Computer and Information Science and Engineering;
- Division Director, Information Science and Technology, and
- Program Director, Telecommunications Policy Research.

At NSF, he was a principal in organizing the CISE Directorate and the inter-agency High Performance Computing and Communications (HPCC) initiative. He was founding Chair of the Federal Networking Council, which made TCP/IP the internetworking standard for the USG. He "officially authorized" the first commercial activity of the Internet (e.g., Vint Cerf's linking MCI to NSFnet for email exchange: the rest being history).

He presided over information technology policy working groups at the OECD, and participated on the Board of Regents of the National Library of Medicine. He organized and co-chaired the White House National Performance Review Working Group for

Reinventing Government through Information Technology, and was the Executive Director of the National Science Board Special Committee on the Future of NSF.

Brownstein's federal service is recognized with both Meritorious and Distinguished Presidential Rank Senior Executive Service awards and NSF's Distinguished Service Award.

He was a founding Trustee of the Internet Society (ISOC), and worked to institutionalize the Internet Engineering Task Force (IETF). He is a past chair of USACM.. Before joining NSF, Brownstein taught at Lehigh University, and was Principal Investigator on NSF and industry-supported research awards dealing with telecommunications policy, cable industry innovation, two-way cable field experimentation, and interactive learning technologies. His PhD is from Florida State University, 1971.