

FAS MATTERS

FAS NEWS FROM DC HEADQUARTERS

MISSILE DEFENSE SYSTEM

On June 8, 2011, Dr. Yousaf Butt, FAS scientific consultant, and Dr. Theodore Postol, a professor in the Program in Science, Technology, and Society at the Massachusetts Institute of Technology, briefed congressional staffers on the Phased Adaptive Approach (PAA) missile defense system proposed by NATO and the United States. These experts analyzed whether the Russian Federation had a legitimate concern over the proposed NATO-U.S. missile defense shield. In September 2011, FAS published the analysis as part of a new series of publications called the FAS Special Report. To read the missile defense report, please visit: www.FAS.org/pubs/index.html.

TERRORISM ANALYSIS REPORT No 1: THE PAKISTANI NEO-TALIBAN

FAS published the first volume of a new report series called the Terrorism Analysis Report. Charles Blair, director of the FAS Terrorism Analysis Project, wrote about the Pakistani neo-Taliban and potential threats to Pakistan's nuclear infrastructure. The report was released at a Capitol Hill event on June 29, 2011. Hans Kristensen, director of the Nuclear Information Project, joined Mr. Blair and discussed developments in Pakistan's production of fissile materials and nuclear weapons. To read the Terrorism Analysis Report No. 1 please visit: www.FAS.org/pubs/tar.html. To read the Nuclear Notebook, which reviews Pakistan's nuclear weapons arsenal, please visit: www.FAS.org/blog/ssp/2011/07/pakistannotebook.php.

TAKING BIOSECURITY NETWORKS TO THE NEXT LEVEL

On September 1, 2011, FAS's Virtual Biosecurity Center hosted a daylong conference at the Mayflower Hotel in Washington, DC. Twelve experts participated in the program. To watch the various tracks and talks, please visit: <http://www.fci.tv/webcast/vbc/09-01-11/>.

FAS SPECIAL REPORT No 2: ENHANCED SAFEGUARDS FOR IRAN'S NUCLEAR PROGRAM

On October 6, 2011, Ali Vaez, FAS Fellow for Science and Technology and Director of the FAS Iran Project, and FAS President Charles D. Ferguson co-authored an FAS Special Report on Iran's controversial nuclear program, "Towards Enhanced Safeguards for Iran's Nuclear Program." Persuading Iran to accept more intrusive inspections is not an easy task. This new report analyzed options for establishing an enhanced safeguards system for the Iranian nuclear program and outlined incentives that could create a win-win diplomatic outcome. The report offers a set of recommendations for all the key players to reach a negotiated resolution of the nuclear issue. To read the FAS Special Report No 2, please visit: www.FAS.org/pubs/_docs/specialreport2_iran_nuclear_program.pdf.

IN MEMORIAM: JONATHAN B. TUCKER 1954-2011



On July 31, 2011, Jonathan B. Tucker, an arms control expert who specialized in chemical and biological weapons, died in Washington, DC. He was 56.

For the past four months, Jonathan managed the FAS Biosecurity Education Project. His colleagues remember him as a gentleman, an extraordinary scholar, and a humble soul.

Like his father Leonard Tucker, Jonathan served his country with distinction. In February 1995, he was a biological weapons inspector in Iraq with the United Nations Special Commission. As a staff member of the Presidential Advisory Committee on Gulf War Syndrome, he spoke out courageously at a time when public candor was officially discouraged.

Jonathan was born into a family of engineers. Leonard Tucker

and his brother Al headed Tucker Concrete Form Company in Malden, Massachusetts. Jonathan visited the company offices as a child, and often traveled with his father. In 1967, at the age of 13, he accompanied his father to India, which sparked Jonathan's life-long interest in international affairs.

Jonathan studied at Phillips Academy in Andover, Massachusetts. Then he followed in his father's footsteps by attending Yale University and graduated *cum laude* with a BS in biology.

Jonathan was an editor at *High Technology* and *Scientific American* where he covered military technologies, biotechnology, and biomedical research. He combined the highest standards of science with the best traditions of journalism.

After several years in science journalism and, seeking new challenges, Jonathan decided to go back to school for a Ph.D. in political science (with a concentration in defense and arms control studies) from the Massachusetts Institute of Technology. He also was a visiting fellow at the Hoover Institution at Stanford University, the U.S. Institute of Peace, and the American Academy in Berlin, and a Fulbright Senior Scholar at the German Institute for International and Security Affairs.

After finishing his studies, Jonathan worked for the U.S. government as a AAAS Fellow at the United States Department of State, an arms control specialist and international-security analyst at the congressional Office of Technology Assessment, and a specialist in chemical and biological arms control at the Arms Control and Disarmament Agency (ACDA). From 1993 to 1995, while at ACDA, Jonathan served on the U.S. delegation to the Preparatory Commission for the Chemical Weapons Convention in The Hague.

In March 1996, Jonathan joined the James Martin Center for Nonproliferation Studies (CNS) of the Monterey Institute of International Studies in Monterey, CA. He worked there for nearly 15 years, first as the founding director of the Chemical and Biological Weapons Nonproliferation Program and then, in 2000, as a Senior Fellow in the CNS Washington office

where he specialized in biological and chemical weapons issues.

From May to December 2008, he was a professional staff member for the bipartisan Commission on the Prevention of WMD Proliferation and Terrorism.

A prolific writer, Jonathan authored and edited four books that showed tremendously powerful scholarship and beautifully crafted prose, most recently *War of Nerves: Chemical Warfare from World War I to Al Qaeda* (Pantheon, 2006). Other titles included *Scourge: The Once and Future Threat of Smallpox* (Grove/Atlantic, 2001); and, as editor, *Toxic Terror: Assessing the Terrorist Use of Chemical and Biological Weapons* (MIT Press, 2000).

The Washington Post named Jonathan's book *Scourge* one of the best books of the year. And in a *New York Times* review of *War of Nerves*, a history of chemical warfare and efforts to abolish it, Jonathan was described as a gifted writer who "makes military science readable and wants a world secure from such repellent weapons."

At the time of his death, Jonathan was waiting on a security clearance to serve in the Department of Homeland Security. Family, friends, and colleagues will dearly miss him. He is survived by his mother Deborah and sister Anne. ■

FALL ISSUE OF PIR

- Role of Science and Technology in Keeping U.S. Safe
- Future of Biosafety and Biosecurity Policy
- Handling, Managing, and Storing Biological Agents
- How to Safely Destroy Chemical Weapons
- How Terrorists Develop Chemical and Biological Weapons
- Intersection of Nuclear Safety and Security

The PIR welcomes letters to the editor. Letters should not exceed 300 words and may be edited for length and clarity. The deadline for the fall issue is November 14, 2011. To submit a letter, please email pir@fas.org or fax 202-675-1010.

To learn about advertising opportunities in print and online please call (202) 454-4680 or email advertising@fas.org.



2011 Hans Bethe Award

On Wednesday, February 8, 2012, the Federation of American Scientists will host the FAS Awards Ceremony at the Carnegie Institute of Washington. FAS will present the 2011 Hans Bethe Award to the Honorable Steven Chu, Secretary of the U.S. Department of Energy.

FAS is honoring Dr. Chu for his work in search of new and alternative renewable energies, which goes to the heart of FAS's commitment to improving energy security worldwide. After all, energy security *is* national security.

Learn about sponsor opportunities.

Contact Monica Amarelo at TEL 202-454-4680 or mamarelo@fas.org. Please visit www.FAS.org/about/2011awards.html for more information about the 2011 FAS Awards Ceremony.

The Honorable Steven Chu, Secretary of the Department of Energy

FAS Awards Ceremony

The Carnegie
Institute of
Washington in D.C.

Wednesday,
February 8, 2012

6:30 - 9:00 pm

A photograph of two large, grey, hyperboloid cooling towers of a nuclear power plant. The towers are set against a blue sky with scattered white clouds. The tower on the left has a plume of white steam rising from its top. In the foreground, there are green trees and a clear sky.

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WHAT EVERYONE NEEDS TO KNOW

CHARLES D. FERGUSON