

III. FIGHTING A CYBER WAR

WILLIAM J. LYNN III is Chairman of the Board of Directors and Chief Executive Officer of DRS Technologies, Inc. Prior to joining DRS in 2012, Mr. Lynn served as the 30th United States Deputy Secretary of Defense from 2009 until 2011. Serving under Secretaries Robert Gates and Leon Panetta, he managed three million personnel and oversaw an annual budget of \$700 billion. He also personally led the Department's efforts in cyber security, space strategy and energy policy.

From 2002 to 2009, Mr. Lynn was Senior Vice President of Government Operations and Strategy at the Raytheon Company. Previously, he served as Under Secretary of Defense (Comptroller) from 1997 to 2001 and as Director of Program Analysis and Evaluation in the Office of the Secretary of Defense from 1993 to 1997. Mr. Lynn also worked on the staff of Senator Ted Kennedy as his counsel for the Senate Armed Services Committee.

He has been recognized for numerous professional and service contributions, including four DoD medals for distinguished public service, the Joint Distinguished Civilian Service Award from the Chairman of the Joint Chiefs of Staff, and awards from the U.S. Army, Navy and Air Force.

GEN. JAMES CARTWRIGHT (RET.) hails from Rockford, Illinois. He attended the University of Iowa and was commissioned a second lieutenant in the U.S. Marines in 1971. He was both a naval flight officer and naval aviator who flew the F-4 Phantom, OA-4 Skyhawk, and F/A-18 Hornet. In 1983, he was named Outstanding Carrier Aviator of the Year by the Association of Naval Aviation and went on to command Marine Aviation Logistics Squadron 12, Marine Fighter Attack Squadron 232, Marine Aircraft Group 31, and 1st Marine Aircraft Wing. He also served in a wide range of Marine and joint billets including as assistant program manager for engineering, F/A-18 Naval Air Systems Command; deputy, Aviation Plans, Policy, and Budgets, Headquarters, U.S. Marine Corps; and director, Force Structure, Resources and Assessment, J-8, Joint Staff.

General Cartwright graduated with distinction from the Air Command and Staff College, received an M.A. in national security and strategic studies from the Naval War College, completed a fellowship with the Massachusetts Institute of Technology, and was honored with a Naval War College Distinguished Graduate Leadership Award. Unique among Marines, General Cartwright served as commander, U.S. Strategic Command, before being nominated and appointed as the eighth vice chairman of the Joint Chiefs of Staff, the nation's second-highest military officer. During his four-year tenure as vice chairman, across two presidential administrations and constant military operations against diverse and evolving enemies, General Cartwright became widely recognized for his technical acumen, vision of future national security concepts, and keen ability to integrate systems, organizations, and people in ways that encourage creativity and spark innovation in the areas of strategic deterrence, nuclear proliferation, missile defense, cyber security, and adaptive acquisition processes.

JAMES LEWIS is a senior fellow and Program Director at CSIS where he writes on technology, security, and the international economy. Before joining CSIS, he worked at the Departments of State and Commerce. He was the Rapporteur for the 2010 United Nations Group of Governmental Experts on Information Security. Lewis has authored seventy-five publications since coming to CSIS. His current research examines the political effects of the internet, asymmetric warfare, strategic competition, and technological innovation. Lewis received his Ph.D. from the University of Chicago.

JOHN J. HAMRE (MODERATOR) See page 3 for Dr. Hamre's biography.