



Zachary J. Lemnios
Vice President, Research Strategy



Mr. Lemnios is responsible for the formation and execution of the IBM Research strategy across IBM's twelve global laboratories and network of collaboratories. He works across the IBM Research Enterprise and with the Senior Vice President and Director of Research, other IBM senior vice presidents, division vice presidents, and general managers to set and execute the long-term research agenda. This includes selection, and execution of the major IBM research investments including grand challenges, big bets and strategic initiatives.

Mr. Lemnios leads the Global Technology Outlook, the strategic initiative used by IBM's CEO and Senior Vice Presidents on an annual basis to identify and leverage technology disruptions coming over a 3 - 10 year horizon. This Outlook identifies disruptive technology opportunities and compelling investment recommendations by coordinating the work of the worldwide Research team.

Mr. Lemnios works closely with the IBM Venture Capital Group and Corporate Development and is responsible for identifying disruptive technologies and companies being created in the marketplace. Mr. Lemnios represents IBM Research in the cross-IBM Strategy community to ensure that Research's major investments are adopted by the business or transition to the marketplace through strategic partnerships.

Prior to joining IBM, Mr. Lemnios served three terms in high level civilian leadership in the Department of Defense with detailed and extended interactions across the whole of US government and with leaders across US allied nations. Most recently, Mr. Lemnios was confirmed as The Honorable Assistant Secretary of Defense (Research & Engineering) by the United States Senate. In this position, Mr. Lemnios was the Chief Technology Officer for Department of Defense and shaped the Department's technical strategy to support the President's national security objectives and the Secretary's priorities. He launched Department and international initiatives in large data analytics, decision support, engineering education, electronic warfare, cyber, autonomy, advanced propulsion, hypersonics, and rail gun concepts as future capabilities for the nation

Mr. Lemnios served in the Defense Advanced Research Projects Agency and led the Microsystems Technology Office and the Information Processing Technology Office. These offices launched the deeply scaled microelectronics, semiconductor manufacturing, photonics, MEMS and cognitive system revolutions in industry.

Mr. Lemnios was the first Chief Technology Officer of MIT Lincoln Laboratory and Assistant Division Head of the Solid State Division. He held technical positions of increasing responsibility within Hughes Aircraft Company, Westinghouse Electric Corporation and Ford Microelectronics, Inc. and pioneered early GaAs device, integrated circuit and manufacturing concepts.

Mr. Lemnios received his BSEE from the University of Michigan and his MSEE from Washington University in St. Louis. He has served on numerous national security, industry and academic committees. He has authored over 40 papers, holds 4 patents in advanced GaAs device and MMIC technology and is a Senior Member of the IEEE. Mr. Lemnios received special recognition from the Australian Government Department of Defence and was awarded Office of Secretary of Defense Medal for Exceptional Public Service and the Office of Secretary of Defense Medal for Outstanding Public Service.