

## BRETT ATTAWAY

*Director, Business Development*  
BRIDG

As our Director of Business Development, Brett Attaway will serve as the lead for industry recruitment responsible for engaging industrial, government, and academic organizations as partners for researching and manufacturing the world's next technologies at the new BRIDG 200mm semiconductor fab.

Prior to joining BRIDG, Attaway was the Director of Design Enablement for the AIM Photonics Institute. In this role, he worked with Electronic-Photonic Design Automation software, IP companies, and industry photonics design teams to enable the industrial integrated electronic-photonics ecosystem to grow and engage with silicon photonics at the State

University of New York Polytechnic College of Nanoscale Science and Engineering 300mm silicon wafer fab. He also worked 12 years at Synopsys, 7 years at ITT-Exelis, now part of Harris, and his first 10 years at Lockheed Martin in many technology and customer focused roles including mil-aero business development, and detailed ASIC, RFIC and SOC design.

## VIJAY BALAKRISHNA

*Senior Director of Research, Infrastructure & Defense Products*  
QORVO

Vijay Balakrishna is the Senior Director of Research for the Infrastructure and Defense Products business at Qorvo, Inc., and is responsible for its strategic planning, direction and oversight. Prior to joining Qorvo, he held senior leadership roles at Cree Inc., leading R&D, engineering, Manufacturing Ops, and Sales and Marketing organizations to rapidly

develop cutting edge technologies and transfer to volume manufacturing. Before that, Dr. Balakrishna was a Distinguished Member of Technical Staff at Bell Labs (Lucent Technologies) and a Senior Scientist at Northrop Grumman/Westinghouse Science & Technology Center. Dr. Balakrishna holds an MS and Ph. D. in Materials Science & Engineering from Carnegie Mellon

University, an ME in Metallurgy from the Indian Institute of Science, India, and BE from the Regional Engineering College, Surathkal, India. He is the author of numerous peer reviewed publications in wide bandgap semiconductor technologies, edited proceedings, and holds several patents in the field of wide bandgap and nonlinear optical materials technologies

## JASON BOEHM

*Director, Program Coordination Office*  
Department of Commerce

Dr. Boehm is Director of the NIST Program Coordination Office with 12 years of budget, policy, and planning experience. In this role Dr. Boehm serves as the primary technical advisor and consultant to the NIST Director and Associate Director for Laboratory Programs carrying out planning and review of NIST R&D programs in areas of strategic importance to the agency and Administration, the development and implementation of strategic programs for the institute, and the representation of NIST's interests on boards, committees and inter-agency policy fora.

Dr. Boehm came to NIST from the Office

of Science and Technology Policy (OSTP), Executive Office of the President, where he was responsible for consultation, analysis, and policy development regarding science and technology related to multiple issues of homeland and national security including the development of medical and non-medical countermeasures against WMD, domestic nuclear defense, engineered threats and emerging infectious diseases, and biological and chemical agent decontamination, nuclear defense and detection, international collaborations on homeland security-related S&T, and a number of other issues. Dr. Boehm originally joined OSTP

as a AAAS/NTI Fellow in Global Security, an award that provided him the opportunity to work anywhere within the U.S. government on issues related to biological terrorism.

Prior to joining the federal government Dr. Boehm was involved in cancer research at Cornell University, where he led a team of researchers studying the role of the cellular protein tissue transglutaminase in cell survival and tumorigenesis. Dr. Boehm received his Ph.D. in 2000 from the University of Nebraska Medical Center, Eppley Institute for Cancer Research, where he studied the role of receptor tyrosine kinase signaling in cell survival.

## BRAD BOTWIN

*Director Industrial Studies, Office of Technology Evaluation, Bureau of Industry and Security*  
U.S. Department of Commerce

Brad Botwin currently serves as the Director of Industrial Studies in the Commerce Department's Office of Technology Evaluation. In this capacity he is responsible for developing surveys and analyses, and implementing programs designed to ensure a technologically superior and competitive defense industrial base capable of meeting U.S. economic and national security requirements.

Mr. Botwin's programmatic responsibilities

include: Assessments of U.S. Industrial Capabilities and Critical Technologies; Section 232 Investigations of the Effect of Imports on National Security; Foreign Availability Assessments; and Short Supply Determinations.

Prior to assuming this position, Mr. Botwin served as Division Director for Industrial Capabilities in Commerce's Strategic Analysis Division, with responsibilities for directing Production Assessments of Critical Sectors

affected by foreign competition; Studies on Offsets in Defense Trade; and Reviews of the Impact of Foreign Investment in the U.S.

Mr. Botwin has a degree in international affairs and economics from the American University and an MBA from the George Washington University with a concentration in international business and finance.

# BIOGRAPHIES

---

## WILLIAM CHAPPELL

---

*Director, Microsystems Technology Office*  
DARPA

Dr. William Chappell is director of the Microsystems Technology Office (MTO). Serving in this position since June 2014, he has focused the office on three key thrusts important to national security. These thrusts include ensuring unfettered use of the electromagnetic spectrum, building an alternative business model for acquiring advanced DoD electronics that feature built-in trust, and developing circuit architectures for next-generation machine learning. Under Dr. Chappell's leadership, MTO is striving to develop the basic underpinnings of computation and sensing needed for an effective, information-driven military. As our daily activities

rely more and more on the digital realm, these technologies will also impact society as a whole.

Before joining DARPA, Dr. Chappell served as a professor in the Electrical and Computer Engineering department of Purdue University, where he led the Integrated Design of Electromagnetically-Applied Systems (IDEAS) Laboratory. Dr. Chappell's research focused on high-frequency components, specifically the unique integration of RF and microwave components based on electromagnetic analysis. This research ranged from advanced RF sensors, including a specific application

in the analytic technique known as RF Ion Trap Mass Spectrometry, to advanced digital-at-every-element RF antenna arrays. Dr. Chappell and his research group also conducted extensive investigations into the development of adaptable RF systems, particularly focusing on tunable preselect filters.

Dr. Chappell is the recipient of numerous research and teaching awards. He received his Bachelor of Science (summa cum laude), Master of Science, and Doctorate of Philosophy degrees in Electrical Engineering, all from the University of Michigan.

## ANTONIO DE LA SERNA

---

*Business Lead, Trusted Microelectronics & Cyber Security*  
Draper

Mr. Antonio de la Serna is the Draper lead for Trusted Microelectronics and serves as Vice Chair of the NDIA Electronics Division, with patents and publications as a Senior Member of the Institute of Electrical & Electronics Engineers (IEEE). Serving on the Steering

Committee for the IEEE International Midwest Symposium on Circuits and Systems, he chaired the 60th anniversary in 2017 and will chair the 2020 symposium in Springfield, Massachusetts. In addition to valued work at Draper, Mr. de la Serna also provides

leadership on university boards and a workforce development board that addresses competency, capacity and diversity in our nation's STEM workforce. Mr. de la Serna is a recipient of the MAES Medalla de Oro and an alum of the United States Naval Academy, Annapolis.

## NORMAN FORTENBERRY

---

*Executive Director*  
American Society for Engineering Education

Dr. Norman Fortenberry, is executive director of the American Society for Engineering Education (ASEE). The Executive Director of ASEE has the direct and full-time responsibility for executive and administrative management of the continuing operations and Headquarters functions of ASEE and serves as secretary to the Board of Directors. Fortenberry was appointed to his post in May 2011. ASEE is a global society of individual, institutional, and corporate members founded in 1893 and committed to advancing innovation, excellence, and access at all levels of education for the engineering profession through instruction, research, public service, professional practice, and societal awareness.

Fortenberry was previously the founding director of the Center for the Advancement of Scholarship on Engineering Education (CASEE) at the National Academy of Engineering (NAE). CASEE was NAE's first operating center, promoted research on teaching and learning and sought to translate research results into improved educational practices in pre-college, collegiate, and work-based settings.

Prior to joining NAE, Fortenberry served senior advisor for policy, analysis, and planning to NSF's assistant director for education and human resources. He concurrently served as director of the Division of Undergraduate Education (DUE) at the National Science Foundation (NSF). DUE is the focal point for the Foundation's efforts to enhance the quality of education for future scientists and engineers, future teachers, future technicians, and educated citizens in an increasingly technological society. While serving as director of DUE, Fortenberry also served for 2 years as director of NSF's division of Human Resource Development (HRD) – making him the first person to simultaneously serve as head of two separate NSF divisions. HRD is the focal point for the Foundation's efforts to enhance access, participation, and success in science, technology, engineering and mathematics research and education at all levels for institutions and populations underrepresented in STEM including minority serving institutions, women, underrepresented minorities, and persons with disabilities.

Before becoming a division director at NSF, Fortenberry served as Executive Director of the National Consortium for Graduate Degrees for Minorities in Engineering and Science, Inc. (The GEM Consortium), a national alliance of employers and universities dedicated to increasing the number and success of graduate degree recipients in engineering and science drawn from underrepresented minority populations.

Fortenberry began his career as a member of the mechanical engineering faculty at the Florida A&M University – Florida State University College of Engineering.

Fortenberry is a fellow of ASEE and of the American Association for the Advancement of Science. Fortenberry is the author or co-author of more than 48 peer-reviewed publications and has written proposals for funded projects exceeding \$16 million.

Fortenberry was awarded bachelor's, master's and doctoral degrees in mechanical engineering by the Massachusetts Institute of Technology.

---

**DENNIS FRITZ**

---

**IPC**

Dennis (Denny) Fritz was named to the IPC Hall of Fame in 2012. Also, Fritz was one of the initial Dieter Bergman IPC Fellows in 2014. Previously, Denny received an IPC President's award in 1997. Denny has received various IPC committee leadership or participation awards over the last 30 years including technology roadmaps, solder mask, microvias, reliability, and component final finishes.

Denny recently retired after 12 years with SAIC, Inc in Crane, Indiana. He participated in the Executive Agent assignment for printed circuits and electronic interconnects at NAVSEA Crane. This effort will result in a Report to Congress

on the status of the Defense Electronics Industry – due in January, 2019. Working for the Executive Agent, he specialized in advanced circuit board technology, environmentally restricted materials, lead-free electronics, and supply chain issues. From 2006 to 2012, he directed the SAIC laboratory in Merrillville, IN where the impact of lead-free assembly and tin whisker formation were investigated.

Previously Denny had been a direct MacDermid/Enthone employee for 20 years, and then served as an ongoing consultant. Previously, his MacDermid/Enthone assignments included printed circuit and semiconductor industry sales

and marketing. He was particularly active with IPC during his years with MacDermid/Enthone. This included IPC technology road-mapping, (editor of the Organic Board Fabrication section of the IPC Roadmaps from 2005 to 2015). He also wrote the Embedded Passives chapter in Coombs' Printed Circuit Handbook, Sixth Edition.

Dennis started in the printed circuit industry in 1972 as a technical service representative with duPont's Riston™ division.

He holds a BS degree in Chemical Engineering from Rose Hulman Institute of Technology and an MBA degree in Marketing from the University of Delaware.

---

**BRENNAN HOGAN GRIGNON**

---

*Director of Industry Outreach*  
MIBP, Department of Defense

Brennan currently serves as the director of industry outreach for the Under Secretary of Defense for Acquisition and Sustainment, within the Office of the Assistant Secretary of Defense for Manufacturing and Industrial Base Policy (MIBP). She is also the director for Executive Order 13806, an interagency effort sponsored by the White House Office of Trade and Manufacturing Policy and led by the Department of Defense to assess the health of the defense industrial base and supply chains in the United States.

In her role as director of industry outreach,

Brennan serves as the channel between the Department of Defense (DoD) and industry to facilitate dialogue and increase collaboration. Leading the Executive Order 13806 effort, Brennan coordinates an interagency team of subject matter experts in assessing the health of the industrial base for current and future operating priorities.

Prior to her role at MIBP, Brennan was the program manager of LMI's Research Institute, managing a multi-million dollar R&D budget and coordinating over 40 internal and external R&D projects on a variety of technologies. Brennan

also supported government clients (civilian and defense) in strategic planning, communications, change management, technology transfer and implementation, competency management, and workforce development efforts. She served as LMI's additive manufacturing lead.

Brennan's early career was in finance, managing large personal estates and retirement plans for individuals, companies, and private equity firms. She earned her master's in history and bachelors in history and biology, both from American University.

---

**DAVID ISAACS**

---

*Vice President, Government Affairs*  
SIA

David Isaacs is vice president of government affairs at SIA, where he is responsible for all aspects of the association's work related to government policy and advocacy before the U.S. Congress, the Executive Branch, and international organizations.

Before joining SIA, David was senior vice president, government relations of Solazyme Inc., a leading renewable energy startup

based in South San Francisco, California. In that capacity he was responsible for securing government support to advance Solazyme's commercialization and research objectives. He previously served as director, government affairs for Hewlett-Packard Company, where he led the D.C. office and directed a global team on HP's technology, environmental, energy policy, and other priority policy matters. He

was an associate at the law firm of Beveridge & Diamond, P.C. in Washington, D.C., and started his career as a law clerk at the U.S. Court of Appeals for the Ninth Circuit in San Francisco.

David is a graduate of Tufts University and received a law degree at Columbia University. He lives with his family in Washington, D.C. He is admitted to the bar in New York and the District of Columbia.

# BIOGRAPHIES

---

## MIKE JOHNSON

---

*Senior Scientist, Threat Intelligence Center*  
Sandia National Laboratory

Michael H Johnson is a Senior Scientist in the Threat Intelligence Center at Sandia National Laboratories in Albuquerque, NM. With a 37-year tenure, Mike leads research and development efforts for advancing vulnerability analysis capabilities for verification and validation of components and embedded systems for multiple Department of Energy (DOE), Department of Defense (DoD), and U.S. Intelligence Community programs and mission domains.

Mike is guiding the development of a corporate Trust Strategy for Sandia, which includes

prioritizing Trust and Assurance research within the National Security Programs area of Sandia's Laboratory Directed Research & Development (LDRD) activity. Mike also serves as the principal Sandia/DOE-NNSA Hardware Assurance liaison to the DoD Joint Federated Assurance Center (JFAC), supporting its intersect with DOE's Nuclear Enterprise Assurance program.

Mike's other responsibilities include technical management of Sandia's contributions to the DoD Trusted and Assured Microelectronics (T&AM) program and advising Sandia

leadership concerning the future direction for the Microsystems and Engineering Sciences Applications (MESA) complex. Mike served as Principal Investigator for a foundational study on Trust in Field Programmable Gate Arrays (FPGAs) for the National Security Agency (NSA) and Defense Microelectronics Activity (DMEA), and regularly contributes to the anti-tamper assessment of FPGA security and the development of an FPGA Assurance Strategy. Mike's engagement with industry plays a key role in these activities.

## KATHLEEN KINGSCOTT

---

*Vice President, Strategic Partnerships*  
IBM Research

Kathleen Kingscott is Vice President, Strategic Partnerships for IBM Research. She is responsible for developing collaborative research partnerships between IBM, industry, academia and government. Ms. Kingscott is a member of the Executive Committee of the Electronics Division of the NDIA, of the

Board of Managers of the American Institute of Physics Publishing, of the National Academy of Sciences Innovation Policy Forum. She serves as IBM's alternate member of the Board of Directors of the Semiconductor Industry Association and chairs the SIA CTO Work Group. She served as a member of the

Secretary of Commerce's Manufacturing Council (2015-16) and held the IBM Industry Chair at the Industrial College of the Armed Forces, National Defense University. Ms. Kingscott has held a number of public policy, Congressional relations, information technology marketing and marketing management positions at IBM.

## JAMES KREN

---

*Deputy Director*  
Defense Security Service

Mr. James J. Kren was appointed as Deputy Director of the Defense Security Service (DSS) in September 2011. He is a member of the Defense Intelligence Senior Executive Service.

The DSS mission is to support national security and the warfighter by securing the nation's technological base, and overseeing the protection of U.S. and foreign classified information in the hands of industry. DSS accomplishes this mission by: Clearing industrial facilities, personnel and associated information systems; collecting, analyzing and providing threat information to industry and government partners; managing foreign ownership, control and influence in cleared industry; providing advice and oversight to

industry; delivering security education and training; and, providing information technology services that support the industrial security mission of DoD and its partner agencies.

As Deputy Director, Mr. Kren serves as the principal advisor and consultant to the Director of DSS. He formulates policy, manages agency resources, and leads operational activities to accomplish DSS's mission. Mr. Kren is responsible for the Agency's innovation efforts, ensuring future program viability and continuity.

Prior to his assignment to DSS, Mr. Kren served in the Intelligence Systems Support Office (ISSO), Office of the Secretary of the Air Force. He was assigned to the North Atlantic Treaty Organization (NATO) in Brussels, Belgium, first

as special advisor to the Assistant Secretary General for Defense Investment and then as General Manager of the Battlefield Information Collection and Exploitation Systems (BICES) Agency. In that capacity, he directed the agency's mission of enabling and enhancing multinational intelligence sharing and exchange.

Mr. Kren holds a Bachelor of Arts degree in geography from the University of Missouri, and a Master of Arts degree in national security and strategic studies from the U.S. Naval War College, Newport, Rhode Island. He previously served as a commissioned officer in the U.S. Naval Reserve. Mr. Kren is the recipient of the Secretary of Defense Meritorious Civilian Service Award.

---

**DIMITRI KUSNEZOV**

*Chief Scientist and Senior Advisor to the Secretary*  
DOE NNSA

Dr. Kusnezov received A.B. degrees in Physics and in Pure Mathematics with highest honors from UC Berkeley. Following a year of research at the Institut fur Kernphysik, KFA-Julich, in Germany, he attended Princeton University earning his MS in Physics and Ph.D. in theoretical physics. At Michigan State University, he conducted postdoctoral research and then

became an Instructor. He joined the faculty of Yale University as an assistant professor in theoretical physics, becoming an associate professor and has served as a visiting professor at numerous universities around the world. Dr. Kusnezov has published over 100 articles and edited 2 books. After more than a decade at Yale, he left academia to pursue federal service

at the National Nuclear Security Administration and is a member of the Senior Executive Service. He has served in multiple positions within the NNSA, was nominated by the President to serve in the National Nuclear Security Administration, and he currently serves as Chief Scientist.

---

**ZACHARY LEMNIOS**

*Vice President, Physical Sciences and Government Programs*  
IBM Research

Mr. Lemnios leads Physical Sciences and Government Programs, globally across IBM Research, to extend fundamental scientific understanding and breakthroughs that enable the future of information technology. 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. Mr. Lemnios received his BSEE from the University of Michigan and his MSEE from Washington University in St. Louis and an honorary degree of Doctor of Humane Letters from Tiffin University. 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 Fellow 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.

---

**TYLER LOVELLY**

*DPA Title III FPGA Lead*  
AFRL Space Electronics Technology

Dr. Tyler Lovelly is a research engineer in the Space Electronics Technology program at the Air Force Research Laboratory (AFRL) at Kirtland Air Force Base, NM. His duties

involve researching advanced computing architectures for defense satellites within the SPACER architecture laboratory and leading AFRL's activities in the DPA Title-III Trusted

FPGA program and the DoD's Joint Federated Assurance Center (JFAC) on FPGA Assurance.

---

**DANIEL MARRUJO**

*Chief Strategy Officer*  
DMEA

Daniel Marrujo, a native of Sacramento, CA, began his career in at Raytheon Missile Systems in Tucson, AZ., developing missile guidance systems for their advanced programs. Mr. Marrujo moved to the Defense Microelectronics Activity (DMEA), Sacramento, CA., working for the Trusted IC program office. In conjunction with working on the Trusted IC program he began working towards development of DMEA's reliability capabilities and was selected as part of the leadership team for the National High Reliability Electronics Virtual Center (HiREV). Daniel has provided his

technical expertise on multiple DARPA, IARPA and National Security Space programs as a subject matter expert. His research is focused on supply chain risk management, CMOS reliability, reverse engineering and radiation effects. From 2015 – 2018, Daniel was responsible for the role of DMEA's Office of Research and Technology Applications. Within this role he maintained the over 100 Cooperative Research and Development Agreements at DMEA.

In 2016 Daniel was selected as DMEA's Chief Strategy Officer directly supporting the DMEA

director. In this position Daniel works with DMEA senior leadership to define and represent the integrated DMEA message and strategic path forward for future engagements.

Daniel holds a Masters Degree in Materials Engineering, a Bachelors Degree in Electrical Engineering and a minor in physics from the California Polytechnic State University, San Luis Obispo, CA. He is SPRDE Systems Engineering level III and SPRDE Science and Technology Management Level III certified.

# BIOGRAPHIES

---

## STEVE MCNEIL

---

*Principal Engineer*  
Xilinx

Steve McNeil is a Principal Engineer at Xilinx with over 25 years of semiconductor experience including wafer manufacturing, circuit design, and customer applications.

Steve is currently the technical lead for Xilinx's Trust and Information Assurance programs and a core member of their Security Center of Excellence based in Albuquerque, NM.

Steve currently manages an Engineering team servicing the security concerns of the Defense, Industrial, and Automotive markets.

## STEVE MENSOR

---

*VP, Marketing*  
Achronix

Steve is the VP of Marketing at Achronix Semiconductor Corporation. Steve has over 25 years in senior management roles in the FPGA industry. Prior to joining Achronix, Steve

was Sr. Director of Marketing at Altera. Over his tenure at Altera, Steve managed many of the departments in Marketing including FPGA Product Marketing, Customer and

Channel Marketing, IP Marketing and Strategic Partnerships, and Corporate Marketing.

## GRANT MEYER

---

*Program Manager*  
Lockheed Martin

Grant Meyer, PhD. Dr. Meyer is a program manager at Lockheed Martin's Advanced Technology Laboratories in Arlington, VA.

He has worked with the NDIA over the last two years to develop new programs that

address mission and community needs in the area of advanced electronics in support of the DoD. Prior to Lockheed, he worked in federal partnership and program management roles at SRI International for 10 years. He conducted

his graduate work in the School of Applied Physics and Biomedical Engineering at Cornell University. He attended the University of New Mexico where he graduated with degrees in physics, chemistry, and mathematics.

## SCOTT ORTON

---

*Vice President & General Manager of Trusted Mission Solutions*  
Mercury Defense Systems

Scott Orton is Vice President and General Manager of Trusted Mission Solutions for Mercury Defense Systems. In this role he oversees Mercury's extensive line of rugged, SWAP-optimized enterprise class and small form factor computing solutions as well as an unmatched breadth of security products for protecting our domestic systems on the battlefield and during export.

He brings in-depth defense industry experience in the acquisition, development, application, and fielding of militarily critical weapon systems. Mr. Orton has an extensive background in Anti-Tamper (AT) and Systems Security Engineering,

including establishing the AT Executive Agent and authoring Department of Defense (DoD) AT guidance. He has provided technical leadership and program management to the development, integration and fielding of DOD secure processors under multiple programs. He has managed Foreign Military Sale (FMS) and Direct Commercial Sale (DCS) export programs and has successfully navigated international offsets and Tri-Service Committee export approval. While working in SAF/AQ, Scott broadly supported the DOD budgeting process for multiple programs.

Prior to joining Mercury Systems, Scott worked for Raytheon where he held positions including

Program Manager, Technical Director, Capture Manager, and Program Director. These positions all revolved around the development of advanced technologies, the implementation of security, and ensuring the successful export of critical weapons systems. Prior to Raytheon, Scott was a Program Manager and Systems Analyst for the Special Programs and the Space & Nuclear Deterrence Directorates of SAF/AQ.

Mr. Orton has a Master's degree in Systems Engineering from Johns Hopkins University, and a Bachelor's degree in Mechanical Engineering from the University of Florida.

## TOM PIERONEK

*Vice President, Chief Technology Officer, Research, Technology and Engineering*  
Northrop Grumman Aerospace Systems

Tom Pieronek serves as vice president and chief technology officer in the Research, Technology and Engineering organization for Northrop Grumman Aerospace Systems, a premier provider of military aircraft, autonomous and space systems, and next-generation solutions to assist our customers worldwide, preserve freedom and advance human discovery.

In this role, Pieronek provides strategic counsel and management, fosters community relationships, and establishes research and development partnerships with customers, university partners, industry and the broader corporation, enabling technology to drive business objectives.

Previously, Pieronek served as vice president, Basic Research, where he was responsible for all aspects of basic research strategy, development

and operations, resulting in fundamental scientific advancements in alignment with Aerospace Systems' core competencies. With a focus on university academia and industry research experts within and beyond the aerospace and defense industries, Pieronek oversaw the expansion of efforts that grew new and deeper collaborations with external researchers.

Pieronek has over 30 years of technical and programmatic experience in the aerospace industry. He has served as the director of Research and Technology for Aerospace Systems where he was responsible for integrating, growing and managing a portfolio of advanced technologies for both air and space applications. For more than half of his career, he has been closely associated with technology development and the United States science and technology community.

His development experience runs from self-contained technologies (thin film amorphous silicon solar cells, flywheels, etc.) through major flight programs (Space Tracking and Surveillance System). His technical background is in electromagnetic environmental effects.

Pieronek holds a master's degree in engineering management from the University of Southern California (USC) and a bachelor's degree in electrical engineering from the University of Notre Dame. His continuing education in systems architecting included a year as a presidential fellow at the USC Leadership Institute. He also serves on the Dean's Council of Advisors for the Jacobs School of Engineering at the University of California San Diego, and is on the Steering Advisory Council with Purdue University's School of Aeronautics and Astronautics.

## PAUL QUINTANA

*Director of Defense & Security Marketing*  
Microchip Corp

Paul Quintana is the Director of Defense & Security Marketing at Microchip Corp, focusing on Trust, Secure Communications, Cryptography, RADAR/EW and Military Computing. Prior to joining Microchip, Mr.

Quintana was a Sr. Strategic Marketing Manager at Altera Corporation, focusing on Intelligence, Cyber Security, Cryptography and High Performance Computing markets. He was also at Lockheed Martin as principal investigator

for internal research and development for advanced computing architectures and as chief engineer for signals intelligence programs.

## ZACH SMITH

*Director of Government Business*  
Ginkgo Bioworks

Zach Smith is the head of Ginkgo Bioworks' Government Business Unit. Over the past 13 years, he has won Federal, state, local, foreign government and commercial contracts

valued at over \$45B. After beginning his career designing and building prototype U.S. Embassies, Zach was introduced to synthetic biology on a soggy bar napkin by friends at

DARPA. Since then he's been fascinated by the promise of engineering biology responsibly.

## GEOFF TATE

*CEO*  
FlexLogix

Mr. Geoff Tate is the CEO of FlexLogix, an eFPGA developer. He is also the lead director on the Board of Everspin, an MRAM company. Prior to

this, Mr. Tate was the founding CEO of Rambus, seeing it from a team of 4 employees in 1990 through its IPO at a \$2B market cap in 2005. Mr.

Tate was also a Senior VP of Microprocessors and Logic for AMD in the 1980s.

# BIOGRAPHIES

---

## JOHN TEIFEL

---

*Technical Project Manager*  
Sandia National Laboratory

Dr. John Teifel is a technical project manager at Sandia National Laboratories for radiation hardened trusted microelectronic products.

He received his BS in EE from Caltech and MS/PHD from Cornell. He has led the development of over 70 integrated circuit

chips, including ASIC, mask-programmable ASIC, and custom FPGA architectures.

## MALCOLM THOMPSON

---

*Executive Director*  
NextFlex Manufacturing Institute

Dr. Thompson brings over 30 years of executive experience in the display, semiconductor, and telecom industries to his current role as Executive Director of NextFlex. He served as the Founder and Chairman of the US Display Consortium and was CTO at Xerox PARC. Dr. Thompson was also CEO of four startups during

his career, raising over \$300M: dpiX, makers of digital x-ray imaging systems; Novalux, providers of high power vertical cavity lasers; Vitex, makers of encapsulants for OLEDs; and RPC, manufacturers of touch systems for mobile products. Recent advisory roles include advisor to the National Academy of

Sciences for flexible electronics, the Pentagon, and White House Economic Advisory Council; he was also appointed Technology Pioneer at the World Economic Forum in 2000 and 2001. Dr. Thompson received a Ph.D. in Applied Physics from the University of Brighton.