



**MAD SCIENTIST 2015: HUMAN DIMENSION 2025 AND BEYOND
BUILDING COHESIVE TEAMS TO WIN IN A COMPLEX WORLD**

27-28 October 2015

Frontier Center, Ft. Leavenworth, Kansas

INVITED SPEAKERS

Amy A. Kruse, Ph.D



Dr. Amy Kruse, Vice President and Chief Technology Officer, Cubic Global Defense joined Cubic in March 2014, through the acquisition of Intific, Inc., where she has served as their Vice President of Innovation. She joined Intific in 2010, as an Executive Director and led the creation of entirely new defense business verticals in neuroscience, education and social media. Dr. Kruse has over ten years of experience developing novel neuroscience-based programs and technologies for the Department of Defense. Prior to Intific, Kruse served as a government civilian Program Manager in the Defense Sciences

Office at the Defense Advanced Research Projects Agency (DARPA) in Arlington, VA. She managed a wide-ranging portfolio of learning, training and human performance programs. She was awarded the Office of the Secretary of Defense Medal for Exceptional Public Service. Prior to DARPA, Dr. Kruse served as a technology and program management consultant at Strategic Analysis Inc. in Arlington, VA.

Kruse has served on a number of defense panels and studies, including those for the National Academies and Defense Science Board. She is the author of numerous scientific papers, chapters and articles. Dr. Kruse earned her B.S. in Cell and Structural Biology (1995) and her Ph.D. in Neuroscience (2001) from the University of Illinois at Champaign-Urbana where she was awarded a National Science Foundation Graduate Fellowship in Neuroscience.

ANDREW HERR



Andrew Herr founded and leads Helicase LLC and Mind Plus Matter LLC and is an Adjunct Assistant Professor of Security Studies at Georgetown University. Helicase is a consulting firm with core areas of expertise in emerging and potentially disruptive technologies and human performance. Mind Plus Matter delivers nutrition and lifestyle programs to enhance clients' minds and bodies. At Georgetown, Andrew teaches on unconventional weapons technology with a 'hands-on' bent.

Prior to his current positions, Andrew was the Principal Investigator for Defense & Human Performance at Scitor Corporation, regularly taught courses on optimizing performance to US Government civilians preparing for deployment to Afghanistan, and worked with U.S. government agencies in a variety of capacities, ranging from policy development to prototype design and testing. He has experience in both biology and physics laboratories, where he worked on hepatitis B drug development, nuclear weapons detection, and radiation dosimetry.

Andrew has been selected as a Fellow by the Synthetic Biology Leadership Excellence Accelerator Program, a Leader of Tomorrow by Global Biotech Revolution, a Next Generation Fellow by the Center for a New American Security, a Foreign Language and Area Studies Fellow by the U.S. Department of Education, and a Science & Technology Fellow by the U.S. Department of Homeland Security.

Andrew received Master's Degrees in Microbiology & Immunology, Health Physics, and Security Studies and a Certificate in Eurasian, Russian, and East European Studies from Georgetown University, where he had previously completed his undergraduate work in the School of Foreign Service. In addition to his academic studies in the area, Andrew has lived and traveled extensively in the former Soviet Union and speaks Russian.

PATRICIA LOCKE



Pat Walker Locke was raised in Detroit, Michigan and graduated from Mumford High School in 1973. In the summer of 1974 she enlisted in the Army as a Communication Specialist and was assigned to Fort Polk, Louisiana. In January 1976 she was selected to attend the United States Military Academy Preparatory School (USMAPS), and subsequently attended the United States Military Academy at West Point, NY.

In 1980, Pat graduated with the first class of women from the United States Military Academy. By Order of Merit, she is the first African-American woman to graduate from West Point and was commissioned as a combat arms officer in the Army. She served in many leadership positions worldwide to include as commander of an Air Defense Artillery Battery and Director, Officer Professional Development Division in 32nd Air and Missile Defense Command, Germany; as United States Military Academy account manager for the Army's Human Resource Command, Alexandria VA; as Executive Officer to the US

Air Defense Artillery School, Operations and Executive Officer for a Patriot Battalion; and Promotion Boards Manager for the Army at the Pentagon. Mrs. Locke retired from active service in 1995 and focused on Army Family Readiness through multiple efforts, to include serving as a Master Trainer for Army Family Team Building (AFTB).

Mrs. Locke has a Master's of Science in Education from Loyola College and a Master's of Science in Administration from Central Michigan University. Pat founded and is President of the Seeds of Humanity Foundation, incorporated to assist with training and development of underrepresented students and their influencers, specifically with STEM education, ethics and leadership. She is the former co-chair for the West Point Leadership and Ethics Conference for high school students held at George Mason University, Virginia. She is the coordinator for the West Point Leadership Ethics and Diversity in STEM (LEADS) Workshops, which are conducted across the country. She is a 2013 recipient of the Golden Torch Award from the National Society of Black Engineers; she has been inducted into the Army Women's Foundation Hall of Fame; she has received the Key to the City of Detroit; and is the Co-Author of the book, The Power of Civility. She is the Ethics Chair for Rotary International District 7610, and is President of the Rotary Club of Springfield, VA. She is a Committee Chair for Diversity and Inclusion for the West Point Society of DC and she is the Co-Chair for the West Point Capital Campaign for Diversity.

Pat (aka Priscilla) resides in the National Capitol Region with her husband of 27 years, Michael Locke (Colonel, Retired) and has a daughter, Sarah Locke, who is a senior West Point Cadet and graduated May 23, 2015.

JEAN CASTONGUAY



Jean Castonguay is President and CEO of CogniSens Inc. ("CSi") is a privately-owned Canadian neuro-technology company based in Montreal, Canada that specializes in measuring, identifying and improving neurobiological activity. The company has developed paradigm-shifting products that are expected to establish new standards for neuro-monitoring and neuro-training. Basic research to improve CSi technologies is carried out in partnership with Dr. Jocelyn Faubert's Visual Psychophysics and Perception Laboratory at the Université de Montréal.

BRYCE HOFFMAN



Bryce G. Hoffman is a bestselling author, speaker and consultant. As an award-winning journalist writing for newspapers in California and Michigan, he spent two decades covering major companies in the automotive, technology and biotechnology industries. Bryce was given unparalleled access to startups and major multinationals. He saw what worked and what didn't. His book, American Icon: Alan Mulally and the Fight to Save Ford Motor Company, has become a manual for CEOs and a guide for organizations that want to transform their cultures and build winning teams. Now, Bryce is

sharing the management secrets he learned from some of the top executives in America. He offers principles to lead by through his books, speeches, workshops and consulting. Bryce writes about leaders and about leadership. His book, American Icon, was a Wall Street Journal bestseller that the paper named one of the best business books of 2012. It tells the story of Ford's epic turnaround, which took place against the backdrop of the worst financial crisis since the Great Depression. The New York Times called it "a compelling narrative that reads more like a thriller than a business book." American Icon offers important leadership lessons for organizations large and small. The Society of American Business Editors and Writers said, "Hoffman introduces readers to the human drama at the top of the corporate ladder without losing sight of the bigger picture."

MICHAEL JACKSON



Michael Jackson, is a Founder Member and Chairman of Shaping Tomorrow, a unique web based foresight, strategy and change management portal for corporate innovation and risk management. Dr. Jackson's specific area of research is sustainable business futures, which includes futures and sustainability, but also, customer loyalty and retention, business process re-engineering, change management, building strategic visions and values and people motivation and communications, ethics, alliances, technology, health, foresight, science and corporate governance. Dr. Jackson facilitates workshops in these subjects and offer training in futures, strategy and change management drawing on the resources and tools from Shaping Tomorrow.

Dr. Jackson has over 30 years' experience in Business Management in the UK, North America and Europe, with significant exposure to corporate banking and consumer finance and, latterly, strategic foresight. Dr. Jackson was the Chief Executive of Birmingham Midshires Building Society between 1990 and 1998, then the UK's 4th largest. As Chief Executive of Birmingham Midshires his team achieved a dramatic change for the better in the Society's fortunes moving from near oblivion to a highly profitable, customer led and multiple-award winning business in just eight years.

Dr. Jackson was previously a Senior Vice President with Bank of America (joined in 1986). He has held several positions at the Bank which included Head of Europe, Middle East and Africa operations, based in London, Head of Consumer Loans Services and Chief Financial Officer for consumer markets, based in North America (San Francisco). After spells with Hawker Siddeley, the Electricity Boards and the Post Office he began his financial services career in 1973 with Citibank NA as its first overseas process engineer, based in London. He then then transferred to Italy, with subsidiary Citifin Finanziara as Chief Financial Officer and Vice President, later moving back to the UK with Citibank Savings as Vice President and Customer Services Director, and subsequently Consumer Banking Director.

Dr. Jackson also served as a Non-executive Director of GallifordTry PLC (a top ten UK construction company), as managing director of a legal processing business for Salans, a firm of international lawyers and as a member of the Society of Genealogist's Board.

Dr. Jackson studied at Salford University, Manchester, and hold a Bachelor of Science in Electronics and a U.S. accredited MBA in Operations Research. He was conferred an Honorary Doctorate in Business Administration by the University of Wolverhampton in 1997.