29th Annual Collaboration on Quality in the Space and Defense Industries Forum

ADAPTIVE QUALITY IN A DYNAMIC WORLD

cqsdi

Addressing Challenges with Managing New Risks, Technologies, and Culture

Cape Canaveral, FL March 15 to 17, 2022



Aviation, Space & Defense Division Excellence Through Quality[™]

29th Annual Collaboration on Quality in the Space and Defense Industries Forum



March 15 - 17, 2022 - Radisson at the Port 8701 Astronaut Boulevard, Cape Canaveral, FL 800-333-3333 or 321-784-0000

Sponsored by the ASQ Aviation, Space & Defense Division

Supported by the National Aeronautics and Space Administration (NASA), the Department of Defense (DoD), the Missile Defense Agency (MDA), and the Defense Contract Management Agency (DCMA)

This forum will be your most important and rewarding professional experience for 2022! It includes keynote and featured speakers, panel presentations, in-depth concurrent breakouts, and workshops. Government and industry leaders will discuss the latest policies and practices that will directly affect your organization.

Format for 2022 includes different training/workshops in parallel with the panels. All participants will be able to attend the keynote and featured speakers, but for the workshops, attendees would need to select either a panel discussion/breakout or the parallel training session, as they are concurrent sessions.

Re-certification Credits from ASQ will be issued for this event. Please save a copy of your attendee badge as proof of attendance.





Committee

Phil Montag, KBR (ASD/CQSDI Chair) Arnold Baldwin, NASA Johnson Space Center Bob Bodemuller, Lockheed Martin Don Brandl, NASA Safety Center Chris Brust, DCMA Tripp Camden, Northrop Grumman Olga Ceritelli, SMQC Belinda Chavez, KBR Pete Checklick, NASA Kennedy Space Center Paul Chiodo, Universal Technical Resource Services Jeff Church, DCMA John Conner, DRT Aerospace Dan DiMase, Aerocyonics John Fordyce, RTX Lisa Fenton, Northrop Grumman **Bill Harris**, MDA Debra Harrison, ASD/CQSDI Past Chair Ron Howlier, Boeing Jerri Ji, Sterling Quality Management (ASQ-ASD Chair) Ed Jopson, CQSDI Past Chair Michael Kelly, NASA Safety Center Russ Kirkham, Space Dynamics Lab. - Utah State University Fred Martin, Lockheed Martin (ASD Past Div. Chair, ASQE Board of Directors) Edmond S. Mitchell, Johns Hopkins Applied Physics Lab. Gerard Pearce, SQA Services Amy Peters, Northrop Grumman Mike Phelan, DCMA Jeannette Plante, NASA HQ (NASA Co-Chair) Rob Pollard, Ball Aerospace Rick Roelecke, Ball Aerospace Amber Rowson, SMQC Regina Senegal, NASA Johnson Space Center Michael Shields, DCMA (Gov. Co-Chair) Mike Swenson, ASD/CQSDI Past Chair Brian J. Tenney, Lockheed Martin Aeronautics Robert Vermillion, RMV Technology Group James Wade, Raytheon (Industry Co-Chair) Nicole Wendt, CACI

Welcome to the 2022 CQSDI



Message from the Chair

Phil Montag VP, Mission Support Division KBR (ASD/CQSDI Chair)

Hello everyone and welcome to the 2022 CQSDI, "Adaptive Quality in a dynamic world: Addressing Challenges with Managing new risks, technologies, and culture". It has certainly been an interesting and challenging two years since our last faceto-face event. As a memory jogger, our last in person event was held in March 2020, and, as we all lived through, that was a month before the United States went into quarantine. We were able to hold our 2020 event, but we lost about half our participants. Even with the reduced attendance, the overall feedback from attendees was favorable.

Adapting to a new operational paradigm, in 2021 we held a 2-day virtual event in March that was very well attended. I want to extend my personal thanks to Amber Rowson, Lisa Fenton, Jerri Ji, Ed Jopson, and Dave Auda for their exceptional support in navigating this event. Even though it was a smaller venue, it required more prep-time than our in-person events. The committee adapted well, and I continue to be impressed with the level of support we get from committee members.

So, its 2022 and we are back together again. I sincerely appreciate all of you who are able to participate in person and hope our new 2 ½ day program provides valuable information for you and your colleagues. This year is the 29th CQSDI event, and, as always, our intention is to provide a forum for leaders and professionals across our dynamic work environments to collaborate and experience how your colleagues are adapting to the challenges we are all facing. We are very fortunate to have senior leaders as keynote and featured

speakers from NASA, Boeing, KBR, MDA, U.S. Army ARD, Lockheed Martin, and DCMA. This represents a nice cross section of government and industry leaders that will be speaking.

Also, consistent with our theme, this year's program includes panels on Supply Chain Analytics, maintaining your Supply Chain in our new environments, Mentoring the next generation of our workforce, Software IV&V tools and strategies, and Managing risks and compliance in Cyberspace. These are all topics that continue to impact our organizations and we trust that the solutions and lessons-learned presented here will prove to be important to our mutual success. In addition to our six panels, we have three very relevant and interactive workshops that will provide insights into Additive Manufacturing, Small Satellite Mission Assurance requirements, and Virtual Inspection and auditing.

Please take a moment to familiarize yourself with this program, including the keynote and featured speakers and the concurrent panels and training/ workshop venues. We have a few new members on the planning committee, and they continue with great support to prepare this event. Please take a look at the inside front cover for their names, and if you have any questions over the next two days, feel free to ask them or provide direct feedback on your experience. We continue to incorporate your feedback into this event and look forward to receiving your feedback over the next 2 ½ days.

Thank you all for your participation.



4	March 15	Day 1 - Tuesday	
7:00 - 8:00 am	Registration/Continental Breakfast		
8:00 - 8:15 am	Welcome and Opening Remarks Jerri Ji, Sterling Quality Management, (ASQ-ASD Chair) Phil Montag, VP Mission Support Division, KBR, (ASD/CQSDI Chair)		
8:15 - 8:45 am	Keynote Speaker: Russ DeLoach, Chief of SMA, NASA HQ		
8:45 - 9:15 am	Featured Speaker: David Logan, VP, Q&MS, Lockheed Martin Aeronautics		
9:15 - 9:30 am	Break		
9:30 - 11:45 am	Session 1 (Attend Panel or Training/Workshop)	
•	Session 1 Panel Getting the Upper Hand on Your Supply Chain through Analytics	Session 1 Training/Workshop Supplier Qualification in the Additive Manufacturing World - Where are We Today?	
	Jose Gutierrez, SQM Operations Engineering Manager, Lockheed Martin Jessica Beatus, Global Data Product Manager, Bloomberg Shannon Marsh, Deputy Program Manager, Supply Chain Management Sr. Consultant, Show Me Quality Consulting, LLC (SMQC)	Shane Collins, Sr. Associate Consultant, Wohlers Associates Keith Horbatuck, QE Sr. Manager, Lockheed Martin Leah Hull, Additive Manufacturing Technology Director, Raytheon Missiles & Defense	
11:45 - 1:00 pm	Lunch		
1:00 - 1:30 pm	Luncheon Keynote Speaker: Cliff Arnold, Program Executive, NASA Pressure Systems		
1:30 - 1:45 pm	Transition to General Session		
1:45 - 2:15 pm	Keynote Speaker: Carole Murray, VP, Boeing Commercial Airplanes		
2:15 - 2:30 pm	Break		
2:30 - 4:45 pm	Session 2 (Attend Panel or Training/Workshop)	
•	Session 2 Panel Adapting to the New Norm of Maintaining a Healthy Supply Chain Ensuring Quality Assurance	 Session 2 Training/Workshop Low-Cost Small SAT Mission Assurance Requirements Execution, Industry and Government Challenges Balancing Mission Success to Streamlined Requirements 	
	Imtiaz Uddin, VP Quality, Electronic Systems, BAE Systems April Tidwell, Sr. Director of Quality, L3Harris Technologies Space & Airborne Systems Kris Ecker, Supplier Quality Director, Aeronautics Sector, Northrop Grumman	Rick Roelecke, Sr. Mission Assurance Mgr., Ball Aerospace Steven Pereira, Space Exploration Sector Chief of Safety & Mission Assurance, Johns Hopkins University APL Nicole Wendt, Sr. Quality & Mission Assurance Manager Photonic Labs, CACI Danny Secrest, Supplier Mission Assurance Manager, Ball Aerospace	

5:00 - 7:00 pm Networking Reception Sponsored by: Northrop Grumman and ASQ Aviation Space & Defense Division



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	7:00 - 8:00 am	Registration/Continental Breakfast			
	8:00 - 8:15 am	Welcome and Opening Remarks: Phil Montag,	VP Mission Support Division, KBR, (ASD/CQSDI Chair)		
	8:15 - 8:45 am	Keynote Speaker: Pete Green, Sr. VP, Governm	ent Solutions U.S., Defense & Intel Business Unit, KBR		
	8:45 - 9:15 am	Featured Speaker: Greg Robinson, Program Dire	ector, NASA James Webb Space Telescope		
	9:15 - 9:30 am	Break			
	9:30 - 11:45 am	Session 3 (Attend Panel or Training/Workshop)			
	٩	Session 3 Panel Software IV&V Tools and Implementation Strategies	 Session 3 Training/Workshop Virtual Inspection/Virtual Audits Success and Failures 		
		Dr. Lance Fiondella, Associate Professor, UMass Dartmouth Wes Deadrick, Director, IV&V Prog., NASA Shawn Mathew, Q/R/S Engineering Competency Dean, Combat Capabilities DEVCOM, U.S. Army	Julee Powers, Aerospace Engineer, NASA Marshall Space Flight Center Dr. Laurel Hacche, Field Engineering Director SQA Services, Inc. Jim Lewis, Sr. Program Manager, PRI		
	11:45 - 1:00 pm Lunch				
	1:00 - 1:30 pm	Luncheon Keynote Speaker: David Castellano, Executive Director, Munitions Engineering and Technology Center, U.S. Army Combat Capabilities DEVCOM, Armament Center			
	1:30 - 1:45 pm	Transition to General Session			
1:45 - 2:15 pm Featured Speaker: Mi		Featured Speaker: Mike Wadzinski, Director, Sa	Mike Wadzinski, Director, Safety, Quality & Mission Assurance, MDA		
	2:15 - 2:30 pm	Break			
	2:30 - 4:00 pm	Session 4 Special Topics (Attend Panel)			
	•	Session 4 Panel 1 New/Young Quality Professionals: The Mentees	 Session 4 Panel 2 Mentorship Programs: The Mentors 		
		Stephen Cassman, QA Specialist, KBR Arda H. Rajguru, Hardware QA Lead, JPL Lindsey Shaw, Sr. Strategic Quality Transformation Manager, Raytheon Missiles & Defense	Paul Moreno, Sr. Director of Quality & Mission Assurance, Raytheon Missiles & Defense Rick Paynter, Hardware QA Principal Engineer, JPL Brian J. Tenney, Quality Director, Advanced Development Programs, Lockheed Martin Aeronautics		
	4:00 - 4:15 pm	Wrap-Up			

March 17 Day 3 - Thursday

7:00 - 8:00 am	Registration/Continental Breakfast
8:00 - 8:15 am	Welcome and Opening Remarks: Phil Montag, VP Mission Support Division, KBR, (ASD/CQSDI Chair)
8:15 - 8:45 am	Featured Speaker: Michael Shields, Executive Director, QA, DCMA
8:45 - 9:00 am	Break
9:00 - 11:15 am	Session 5 Special Topics (Attend Panel)
•	Session 5 Panel Managing Risk and Compliance in Cyberspace - Standardizing and Implementing New Controls in Aerospace and Defense
	Ron A. Davis, Chief Information Security Officer, Huntington Ingalls Industries Robert L. Duchesne III, Sr. Manager, Cybersecurity & Compliance, Consolidated Aerospace Mfg.

Shane Hammett, VP, IT & Cybersecurity, ITSC John Ellis, Director of the Software Division, DCMA

11:15 - 11:30 am Wrap-Up / Closing Remarks: Phil Montag, VP Mission Support Division, KBR (ASD/CQSDI Chair)



8:00 - 8:15 am Welcome & Opening Remarks

Jerri Ji, Sterling Quality Management (ASQ-ASD Chair) Phil Montag, VP, Mission Support Division KBR, (ASD/CQSDI Chair)

8:15 - 8:45 am Keynote Speaker



Russ DeLoach Chief of Safety and Mission Assurance (SMA) NASA HQ

Mr. William Russ DeLoach was appointed as NASA's Chief of SMA in 2021. He is responsible for the development, implementation, and oversight of SMA policies and procedures for all NASA programs.

In 2019, Mr. DeLoach served as the SMA Director at NASA's Johnson Space Center (JSC). He led a dedicated team of experts in assuring workforce safety and collaborating on smart solutions to human spaceflight risks. His team worked to identify, characterize, mitigate, and communicate risks to accomplish safe and successful human space exploration.

Mr. DeLoach became the Deputy Director of SMA in 2012 and then SMA Director in 2014 at NASA's Kennedy Space Center (KSC). He developed transformative SMA approaches to enable the success of NASA KSC as the world's premier multiuse spaceport.

In 2006, Mr. DeLoach stood up the SMA Support Office for the emerging Constellation Program and later oversaw the transition of Constellation efforts to support Orion and the Space Launch System. After the retirement of the space shuttle in 2011, he was instrumental in the transformation of NASA KSC to a thriving multiuser spaceport, developing an approach to enable public-private partnerships in a manner that maintains an acceptable risk posture for NASA, while allowing flexibility and innovation for commercial interests.

Mr. DeLoach holds a bachelor's degree in Mechanical Engineering from the University of Florida.

8:45 - 9:15 am Featured Speaker



David Logan

VP of Quality and Mission Success (Q&MS) Lockheed Martin Aeronautics

Mr. David Logan is the Vice President of Q&MS for the Aeronautics sector of Lockheed Martin. He is responsible for ensuring adherence to the quality management system, process compliance, and product conformance in accordance with exceeding customer expectations.

Prior to his current role, Mr. Logan was responsible for all of Operations with Special Operations Forces Global Logistics Support Services (SOF GLSS). In this role, he was responsible for leading Production Operations, Quality, Global Supply Chain, and other support functions across the SOF GLSS enterprise. He was also responsible for driving positive customer relations, process innovation and culture enhancement across the enterprise.

Mr. Logan has also led various aspects of the Operations, Affordability Initiatives and Continuous Improvement across multiple locations. He has held a wide range of operational leadership positions across multiple business areas within Lockheed Martin.

Other highlights of Mr. Logan's experience include transforming Internal Supply Chain distribution processes while driving an effective common enterprise solution and applying LEAN principles to ensure a successful reduction of inventory levels, while enabling PULL processes.

Mr. Logan graduated with a bachelor's degree and a master's degree in Business Management from Dallas Baptist University.



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9:30 - 11:45 am SESSION 1 PANEL Getting the Upper Hand on Your Supply Chain through Analytics

Abstract: Supply chain challenges come in different forms – some are expected, others are surprises. How can organizations use analytics to gain the upper hand in their supply chain and reduce surprises? Companies capture various forms of data to measure the health of their supply chain. This panel will explore the data set challenges, data collection approaches, and the use of analytics as predictive indicators of supply chain health.

Session Manager/Panel Moderator Olga Ceritelli

VP, Show Me Quality Consulting, LLC (SMQC)

Ms. Olga Ceritelli is a Safety and Mission Assurance (SMA) professional with extensive experience in high-risk/high-consequence environments. She has more than 20 years supporting aerospace, NASA, and SMA. She is Vice President at SMQC where she oversees program management. She continues to support NASA in numerous capacities including serving as a task team leader for the Office of Safety and Mission Assurance (OSMA) Supply Chain Risk Management (SCRM) program and NASA Supply Chain Insight Central information services initiative. She also serves as task team leader for Supplier Research and Analysis in support of the OSMA SCRM program and supports GSFC SMA directorate as a Supplier Research Analyst and Assessment Coordinator for Supply Chain Quality Assessments.

Ms. Ceritelli previously served as the Honeywell Program Manager for the NASA Audits, Assessments, and Assurance (A3) Contract and supported the predecessor's contract, NASA Contract Assurance Services (NCAS). She has also supported SMA Agency-wide initiatives, provided training in several SMA subjects, and has performed assessments, audits, reviews and risk assessments for the NASA Safety Center, NASA Headquarters, and the Jet Propulsion Laboratory, where she started her SMA career. She served in the U.S. Marine Corps Reserve in Supply Administration and later as an Intelligence Analyst. She holds a Master of Information Systems, and a BA in Psychology.

Session 1 Panelist - 1 Leveraging the Predictive Power of Data Analytics

Abstract (Jose Gutierrez): The

Lockheed Martin Supplier Quality Management (SQM) organizations is leveraging the power of data analytics to shift from being a primarily reactive to a predictive and preventive organization. Over the last two years SQM has implemented data driven technologies that provide great value to our organization and our customer. We will discuss some of the successes we have achieved as well as the challenges we face on the path to becoming truly predictive and preventive.

Jose Gutierrez

SQM Operations Engineering Manager Lockheed Martin Aeronautics

Mr. Jose L. Gutierrez is a SQM Operations Leader at Lockheed Martin Aeronautics. He is focused on transforming the SQM organization to a predictive and preventive quality organization.

Mr. Gutierrez graduated with an Industrial Engineering degree from the University of Texas El Paso and is currently working to obtaining his Masters in Applied Data Science from Syracuse University.

Mr. Gutierrez has worked in the aerospace industry for more than 12 years. He started his career working for Boeing Defense Systems and later Lockheed Martin Aeronautics. He began his engineering career as a process quality engineer and later transitioned to supplier quality engineering. He then accepted a leadership role overseeing and supporting the PAC-3 supplier quality organization at Missiles and Fire Control. He then took the opportunity to lead the Aero Command Center and the Strategic Engagement Team with Lockheed Martin Aeronautics.

As the leader for the Aero Command Center and the Strategic Engagement team, Mr. Gutierrez has focused on building data analytics capabilities within the team with the intent to transforming the SQM organization into a leading entity within the digital transformation initiative. His team have been successful in implementing new tools and technologies such as Machine Learning, Automation, Natural Language Processing, and data analytics.

Session 1 Panelist - 2 Data Driven Supply Chain Risk Analysis

Abstract (Jessica Beatus): Bloomberg's Supply Chain data is a unique dataset which displays a visual road map of a company's key customers, suppliers, and competitors in addition to facility locations. This information helps users with investment idea generation and risk analysis by helping them anticipate changes triggered by intercompany relationships within the supply chain. The features of transparency into relationship sources, and proprietary estimates are unique to Bloomberg.

Supply chains are far reaching networks that link companies, industries, products, and countries together. The complex links make analyzing supply chain risk a daunting task. The Bloomberg Terminal, with over 1 million supply chain relationships and over 200,000 facility locations, helps risk analysts make sense of global supply chains. Leveraging data as one example allows the ability to measure the overall geopolitical risk of companies according to where they have facilities located globally via a Bloomberg proprietary scoring model. This will allow users to know about concentrations of geopolitical risks based beyond the country of domicile, by considering where a company's facilities are located globally.

Jessica Beatus

Global Data Product Manager Bloomberg

Ms. Jessica Beatus is a Global Data Product Manager at Bloomberg for the Dividend Forecasting and Supply Chain teams. She is responsible for managing relationships and engagements with business, infrastructure and technology stakeholders plus coordinating with her counterparts globally.

Before joining Bloomberg LP, Ms. Beatus spent 10 years as an income driven research analyst at a boutique investment firm investing in credit and equities.

Ms. Beatus received her MSF from Johns Hopkins Carey School of Business, and a BA in Economics and Spanish from Towson University in Baltimore, Maryland.



Session 1 Panelist - 3 Data-Driven Risk Management: Data Collection, Analytics and Information Sharing

Abstract (Shannon Marsh): Show Me Quality Consulting (SMQC) provides support to NASA in numerous capacities to include Supply Chain Risk Management, Supply Chain Risk Analysis, and Supply Chain Quality Program and Assessments. SMQC works with NASA on the development of the Office of Safety and Mission Assurance (OSMA) Supply Chain Risk Management (SCRM) program initiatives and NASA Supply Chain Insight Central information services initiative as well as Goddard Space Flight Center Supplier Research and Analysis. Support to these initiatives includes innovative data collection efforts, analysis and information sharing prioritization.

Shannon Marsh

Deputy Program Manager Supply Chain Management Senior Consultant Show Me Quality Consulting, LLC (SMQC)

Ms. Shannon Marsh is a Safety and Mission Assurance (SMA) professional with extensive experience in high-risk/high-consequence environments. She has more than 25 years of experience in threat and risk analysis with the majority of her career supporting aerospace, NASA, and SMA. She serves as Deputy Program Manager for SCRM programs at SMQC where she manages Supply Chain Quality and Supply Chain Data Analytics program support to NASA. Additionally, she provides task support for the OSMA SCRM program and NASA Supply Chain Insight Central information services initiative. She also serves as Project Lead and Lead Analyst for the Goddard Space Flight Center Supplier Research and Analysis initiative and as an assessor for Supply Chain Quality Assessments.

Ms. Marsh previously served as a SCRM Analyst, Cyber-Threat Analyst, and Critical Infrastructure Analyst supporting a portfolio of government agencies. Prior to her tenure as a consultant, she served in the United States Air Force as an Intelligence Analyst. She is nearing completion of a Masters in Global Security Studies from Johns Hopkins University where her final research project is focused on Impacts of the Buy-American Act and Executive Orders on Aerospace Supply Chains, U.S. Manufacturing & International Relations.



9:30 - 11:45 am SESSION 1 TRAINING/WORKSHOP Supplier Qualification in the Additive Manufacturing World -Where are We Today?

Abstract: Let's face it, Additive Manufacturing (AM) applications in the space and defense industries are off to the races! The safety and mission assurance community is still trying to wrap our arms around how we need to provide oversight and control for these types of products, especially as their application is ending up in more and more critical hardware. This is particularly concerning as it relates to the aerospace, defense, and commercial supply chains. The government and their associated prime organizations are going to need to rely on suppliers throughout the supply chain to provide AM parts at some point, if not already. This workshop is intended to provide valuable insight into what control requirements are being applied to the supply chain for AM and what is being done today to both qualify and oversee suppliers of AM components.

Shane Collins Sr. Associate Consultant Wohlers Associates

Mr. Shane Collins is a Senior Associate Consultant for the ASTM International wholly owned Wohlers Associates. He is responsible in leading best-in-class advisory services for the additive manufacturing and advanced manufacturing industries. The services include, but are not limited to, custom training, standards education, support of certification needs, and beyond.

Prior to joining ASTM, Mr. Collins was the Vice President of Additive Industries of North America and the General Manager of the Process and Application Development Center in Camarillo, CA.

Mr. Collins is a 20-year veteran of the additive manufacturing industry holding various positions in product management, business development and operations for both 3D printing machine manufacturers and tier-1 part suppliers in both polymers and metals.

In previous roles, Mr. Collins' teams produced production quality level aerospace parts for many of the Primes and while working at CalRAM was instrumental in their Nadcap accreditation for laser and electron beam powder bed fusion operations. He's led many metal powder bed fusion standards and holds the position of Chair of the ASTM F42.07 on additive manufacturing Applications and was formerly Chair of F42.05 on Materials and Process.

Mr. Collins was presented the ASTM Robert F. Painter Memorial Award in 2017, the ASTM Award of Merit in 2018 and has the honorary title of Fellow, the highest ASTM recognition. He is co-author on publications in the powder bed fusion of 17-4 stainless steel, nickel alloy 625 and nickel alloy 718.

Mr. Collins has a Bachelor of Science in Management from Purdue University.



Keith Horbatuck QE Sr. Manager Lockheed Martin

Mr. Keith Horbatuck has been with Lockheed Martin for over 17 years and is currently a Senior Manager within the Quality Engineering organization focusing on Supply Chain Management and Supplier Improvement.

Mr. Horbatuck's prior roles include Program Quality Engineering Management where he led a team in the development of hypersonic missile capabilities. His current research is in systems and infrastructure optimization and management. He has previously presented at national and international conferences, including with the American Society for Engineering Management and the International Society for the Systems Sciences.

Mr. Horbatuck has a Bachelor of Science in Computer Engineering from The College of New Jersey and a Master of Science in Electrical Engineering from the University of North Florida.



Leah Hull

Additive Manufacturing Technology Director Raytheon Missiles and Defense

Ms. Leah Battle Hull is lead of Raytheon's Additive Manufacturing Enterprise Initiative. She is responsible for the implementation of Additive Manufacturing technology in Raytheon Missiles and Defense. She is based in Dallas, Texas at Raytheon Precision Manufacturing.

Prior to her current role, Ms. Hull led additive manufacturing operations at Raytheon Precision Manufacturing. She was responsible for implementing new capital equipment, design for manufacturability, and manufacturing execution for laser powder bed fusion systems and laser powder fed directed energy systems.

Prior to this role, Ms. Hull worked as a Value Stream Manager in various divisions of operations, including finish operations such as plating and chemical finish, and precision machining.

Before this role, Ms. Hull was a participant in Raytheon's cross functional rotation program, serving three one-year rotations in hardware design, human resources, and business development. She also served as a metallurgical process engineer, supporting manufacturing operations and design across the enterprise.

Ms. Hull is a graduate of Raytheon's Leadership Development Program. She holds a bachelor's degree in Metallurgical Engineering from the University of Missouri-Rolla and a master's degree in Business Administration from the University of Texas at Dallas.



1:00 - 1:30 pm Luncheon Keynote Speaker



Cliff Arnold Program Executive NASA Pressure Systems

Mr. Clifton Arnold serves as the Program Executive for Pressure Systems, Lifting Devices and Equipment, and Propellants and Pressurants in NASA's Office of Safety and Mission Assurance. He has 35 years of experience in mechanical engineering and project management with the NASA and the Department of Defense.

Mr. Arnold served in the Human Exploration and Operations Mission Directorate Rocket Propulsion Test Program Office and was responsible for Rocket Propulsion Test (RPT) strategic planning for chemical propulsion systems and components at several NASA facilities. He served as the test and evaluation lead for the Joint Army-Navy-NASA-Air Force Programmatic Industrial Base. He is a certified Contracting Officer's Representative. He serves on multiple inter- and intra-agency teams for RPT commonality and standardization efforts.

Mr. Arnold served as lead and acting manager of the Safety and Mission Assurance Office at NASA Stennis Space Center (SSC). Prior to coming to NASA SSC, he served in the Payloads Directorate Launch Site Support Management Office at NASA Kennedy Space Center (KSC) as the Lead Operations Engineer for Shuttle and Expendable Launch Vehicle payload programs. He also served in the Shuttle Management Directorate Ground Engineering Division at NASA KSC as Project Manager for facility modification and refurbishment of shuttle infrastructure.

Prior to coming to NASA, Mr. Arnold served in the Naval Air Systems Command Armament Systems Division at the Pacific Missile Test Center as a Mechanical Engineer, responsible for airborne weapons development, test, manufacturing, and foreign military sales.

Mr. Arnold received a bachelor's degree in Mechanical Engineering from Southern University, a Master's of Divinity from the New Orleans Baptist Theological Seminary (NOBTS) and is a doctoral candidate at NOBTS.

1:45 - 2:15 pm Keynote Speaker



Carole Murray

Vice President Total Quality Boeing Commercial Airplanes

Ms. Carole Murray is the Vice President of Total Quality for Boeing Commercial Airplanes, and Chair of the Enterprise Quality Operations Council. She leads the focus on driving quality excellence and adopting standardized best practices across the global organization. She drives efforts to ensure first-pass quality throughout the value stream. She works to continuously achieve key objectives as Boeing implements its Safety Management System. She also leads and promotes culture initiatives that improve quality and compliance in every aspect of the business.

Ms. Murray previously was Sr. Director of Quality for the 787 Program, responsible for the program's QMS. She enhanced customer relationships and executed program strategies, including implementing principles of the One Boeing Production System to foster a culture of first-pass quality, compliance, standards, and continuous improvement.

Prior to that role, Ms. Murray was the 787 Production Engineering Chief Engineer. She led the development and implementation of the 787 build plans. She led the oversight of tooling, liaison, manufacturing engineers, programmers, customer engineers, and weights analysts for the Composite Fabrication Center, Mid/Aft body Assembly and Integration, Final Assembly, and Delivery. She helped lead the enterprise Fall Hazard Elimination Team. She was also Sr. Manager in Manufacturing Engineering, Skill Team Leader, an Operations Sr. Manager and Midbody Business Operation Program Leader.

Ms. Murray first joined Boeing in 2004 as an intern in Flight Controls for commercial aircraft, then returned for a second internship with the C-17 Globemaster in Charleston.

Ms. Murray holds a Bachelor of Science degree in Aerospace Engineering from North Carolina State University and a Master of Science degree in Organizational Management from Charleston Southern University.



2:30 - 4:45 pm SESSION 2 PANEL Adapting to the New Norm of Maintaining a Healthy Supply Chain

Abstract: Aerospace companies face everincreasing demands regarding supply chain performance. Those who monitor Supply Chain KPI (Key Performance Indicators) minimize risk, predict performance, and improve poor performing suppliers. This panel will share information on maintaining a healthy supply chain and the path to restore a poor performing supplier back to health. We will review strategies and tools that can be used to ensure that the supply chain is healthy and robust and that defects are minimized.

Session Manager/Panel Moderator Fred Martin

ASD Past Div. Chair, ASQE Board of Directors Supplier Quality Manager Lockheed Martin Aeronautics

Mr. Fred Martin is a Supplier Quality Manager at Lockheed Martin Aeronautics. He has worked in multiple Business Areas for Lockheed Martin since joining the company in 2004. He has extensive Quality Management experience in various manufacturing settings. His expertise includes auditing, production management, process improvement implementation, quality management, and personnel development.

Mr. Martin is a Certified Six Sigma Black Belt, Certified Six Sigma Green Belt, Certified Quality Engineer and Certified IAQG OP Assessor. He is Past Chair of the ASQ Aviation, Space & Defense Division, Past Chair of the Dallas ASQ Section, and current member ASQE Board of Directors.

Mr. Martin earned his bachelor's degree in Chemistry from the University of Texas and master's degree in Business from Amberton University. He is a member of the National Society of Black Engineers SAE International and Project Management Institute.



Session 2 Panelist - 1 Maintaining a Healthy Supply Chain

Abstract (Imfiaz Uddin): To transform its supply chain in the face of growing global challenges, BAE Systems leveraged data analytics, Partner 2 Win, risk-based KPIs, and advanced planning tools throughout its LCM programs, including digital transformation, to drive down cost and protect their customers. This stepfunction transformation, from lagging to dynamic, iterative indicators, enabled them to predict challenges and opportunities in the value stream. This strategic framework of customer and supplier engagement, coaching, and tools deployment has delivered leading predictive failure indicators, allowing them to work risk mitigation through proactive engagement, rather than reactive response. Leveraging this strategy has improved quality, delivery, and mitigated supply chain risk, enabling capital tooling investment opportunities. The utilization of quality science tools has enhanced BAE Systems' ability to effectively and efficiently identify root cause and mistake-proof processes. The maturation of their transformation is leading to stabilization of the operating system and enhanced customer satisfaction.

Imtiaz Uddin VP of Quality

BAE Systems

Mr. Imtiaz Uddin is the Vice President of Quality, BAE Systems, Electronic Systems sector. He is responsible for the company's Global Quality & Operational Excellence.

Mr. Uddin has an exceptional record of growing and transforming commercial and defense businesses with aerospace and electronics portfolios. He leverages his international, crossindustry experience and expertise to drive operational excellence, deliver top and bottomline growth, maintain compliance, and improve customer satisfaction with OEM prime and regulators.

Mr. Uddin has a background in automotive and aerospace design engineering. He has developed and led cross-functional teams focused on implementing design for reliability, quality management systems, digital factory automation, supplier development programs, and improving customer satisfaction in design and manufacturing.

Prior to joining BAE Systems, Mr. Uddin held quality leadership roles at Boeing/Spirit, Honeywell Aerospace, and General Motors.

Mr. Uddin holds a master's degree in Business from Indiana University, a master's degree in Technology from Carnegie Mellon University, and a bachelor's degree in Engineering from the University of Oklahoma. He is also a Certified Manager of Quality/Operational Excellence and a Lean Six Sigma Black Belt.

Session 2 Panelist - 2 Maintaining a Healthy Supply Chain

Abstract (April Tidwell): L3Harris is shifting its focus from a reactive approach of managing the supply base to a proactive approach. Instead of just reporting past results we are using predictive analytic tools to allow us to uncover risks, predict future outcomes and guide decision making and doing this all earlier in the design lifecycle. I will discuss three activities that showcase our shift from reactive to proactive management of our supply chain ending with a case study highlighting the effectiveness of proactive supplier development. Our shift to proactive supplier management also comes at a time the industry is seeing record order lead time highs due to electronic component shortages. I will briefly discuss strategies developed to proactively mitigate supplier lead time risks to ensure we can deliver on time to our customers.

April Tidwell

Sr. Director of Quality, L3Harris Technologies Space and Airborne Systems Segment

Ms. April Tidwell is the Senior Director of Quality for the L3Harris Technologies Space and Airborne Systems Segment. She is responsible for leading the segment's quality strategy and execution throughout the product development lifecycle. This includes implementation of a Zero-Defect Strategy for parts designed, bought, built, and shipped to drive improvements in cost of poor quality, supplier performance and customer escapes. She is also responsible for ensuring the continuing suitability and effectiveness in satisfying the AS9100/ISO9001 Quality System Standards across the segment.

Previously, Ms. Tidwell served as the Director of Operations for the L3Harris Imaging Systems business. In this position, she provided functional support of program execution while leading the deployment of site-specific continuous improvement activities.

Ms. Tidwell held previous roles at L3Harris, including the Quality Engineering Manager within the Environmental Solutions division, as well as the Program Quality Engineer for the Advanced Baseline Imager program.

Before joining L3Harris, Ms. Tidwell was Manufacturing Engineering Leader for Delphi Electronics and Safety, responsible for manufacturing process standardization and waste reduction for high-volume automotive electronics manufacturing.

Ms. Tidwell has a Bachelor of Science in electrical engineering from the University of Dayton and a Master of Science in manufacturing management from Kettering University.



Session 2 Panelist - 3 Maintaining a Healthy Supply Chain

Abstract (Kris Ecker): Northrop Grumman utilizes a multi-faceted supplier rating process to objectively measure supply chain health. By factoring 8 primary evaluation components (with 22 subcomponents), Northrop Grumman supply chain, in partnership with supplier quality is able to provide a wholistic view of supplier performance and share areas of concern as well as areas where the supplier is doing well. In addition to providing Blue/Green/Yellow/Red rating scores both overall and in each category, the supplier rating process serves as a foundation for key conversations with suppliers in order to understand challenges and improve performance. Another key tool that Supplier Quality uses is its Supplier Management Plan (SMP). The SMP documents an individualized approach for ensuring first time quality at select suppliers. The plan is created by the assigned supplier's Quality Field Engineer in partnership with Supplier Quality leads and are designed to mentor, coach, enable and empower the suppliers' success while ensuring quality products are being delivered to programs and customers. SMPs are also designed to coincide with a supplier's Zero-Defect Plan or Quality Improvement Plan, which would be supplier initiated. Finally, the secret ingredient is communication. By ensuring the suppliers know what our expectations are and what we are measuring, we can have open dialogues on performance that drives more and better business opportunities. After all, we can't be successful in the long run if our supply chain isn't also successful.

Kris Ecker

Supplier Quality Director Northrop Grumman Aeronautics Sector

Mr. Kris Ecker is the Northrop Grumman Aeronautics Sector Supplier Quality Director. He has the overall responsibility for engaging the sector's supply base to ensure components and systems are provided to programs with firsttime quality in support of customer and mission requirements. He leads a geographically dispersed team of quality engineers and auditors, in tight coordination with Northrop Grumman Global Supply Chain, in the management and oversight of over 1,300 suppliers.

Mr. Ecker has over 25 years of program management experience in the defense and

aerospace industry, with experience across all phases of the product life cycle. He has served as the government customer (Defense Meteorological Satellite Program, Distributed Mission Operations Center, Eastern Spacelift Range and SAF/AQ), a third party logistics supplier, mid-tier defense program manager (EO/IR products for Apache and Phalanx, Ground Combat Vehicle and Mounted Family of Computing Systems, and prime with roles at Northrop Grumman as the E-2D Production and Delivery Program Manager and Manned Airborne Surveillance Programs Mission Assurance Program Director.

Mr. Ecker attended the U.S. Air Force Academy and graduated with a bachelor's degree in Management and earned a Master of Science/ Aeronautical Studies from Embry Riddle Aeronautical University. He also holds a Program Management Level III and Test & Evaluation Level II from Defense Acquisition University.



2:30 - 4:45 pm SESSION 2 TRAINING/WORKSHOP Low-Cost Small SAT Mission Assurance Requirements Execution, Industry and Government Challenges Balancing Mission Success to Streamlined Requirements

Abstract: National Defense and Civil Space programs are facing the challenge of executing missions to streamlined requirements for lowcost Small SAT projects. These challenges include balancing streamlined customer requirements while assuring mission success. Join us as we explore these challenges and experiences at the satellite integration and supply chain levels. This panel will also be interactive to assure participants have the opportunity to share their experiences and lessons learned in executing low-cost Small SAT programs.

Rick Roelecke

Sr. Manager of Supplier Assurance Ball Aerospace

Mr. Rick Roelecke is the Senior Manager of Supplier Assurance at Ball Aerospace. In this role, he manages a department of supplier mission assurance managers and supplier quality engineers supporting space and military programs. He is also the Vice Chair on the Aerospace Industry Association Quality Assurance Council. Ball Aerospace provides instruments, payloads, and bus infrastructures for national defense and civil space programs. They also support numerous warfighter programs with antenna, sensor, and infrared technology solutions.

Mr. Roelecke has presented at various ASQ, NASA and Industry conferences including CQSDI, Goddard Supply Chain, NASA Quality Leadership Forum, and CALCE on a variety mission assurance and quality topics. He holds a Bachelor of Science Degree in Electronic Engineering Technology from DeVry University in Columbus Ohio and a Master of Business Administration from Xavier University.

Steven Pereira Principal Professional Staff APL

Mr. Steven Pereira is the Space Exploration Sector Chief of Safety and Mission Assurance at the Johns Hopkins University Applied Physics Laboratory. In this role, he establishes and maintains SMA programs for Space Exploration Sector projects. APL develops space systems across a wide range of risk classifications (Class A – Experimental). He manages the Laboratory's AS9100-certified Quality Management System and implements the continuous improvement process within the Space Exploration Sector.

Mr. Pereira holds a faculty appointment to The Johns Hopkins University Whiting School of Engineering where he is the instructor of "Assuring Success of Aerospace Programs" in the Space Systems Engineering Program. His previous experience includes supporting the Missile Defense Agency, Naval Surface Warfare Center, and Space and Missile Systems Center in a variety of SMArelated roles. He completed his undergraduate studies at the University of Southern California and holds master's degrees from the University of Massachusetts and Johns Hopkins University.

Danny Secrest

Supplier Mission Assurance Manager Ball Aerospace

Mr. Danny Secrest is a Supplier Mission Assurance Manager at Ball Aerospace. In this role, he works with major subcontractors to Ball's many space programs to reduce risk and ensure program success. His primary mission assurance technical focus is working with suppliers of computer and data handling flight avionics systems and suppliers of small sat busses on missions ranging from LEO to deep space.

Before joining Ball Aerospace, Mr. Secrest worked for Teledyne Defense Electronics as Product Line Manager for RF MMIC Space Products.

Mr. Secrest has over 30 years of experience in the semiconductor industry in roles from product engineering to strategic marketing with the past 12 years focused on the space industry. He has worked with space agencies and space primes around the globe in support of numerous programs. He holds a Bachelor of Electronics Engineering from Oklahoma State University.

Nicole Wendt

Sr. Quality and Mission Assurance Manager Photonic Labs, CACI

Ms. Nicole Wendt is the Senior Quality and Mission Assurance Manager for the Photonic Labs at CACI. In this role, she manages a team of quality engineers supporting aerospace and defense programs. She also manages the AS9100certified Quality Management System, implements continuous improvement initiatives, and works as the QMA lead on various space programs to ensure their success. CACI's Photonic Labs provides next generation all domain/all platform optical payload solutions to solve our toughest customer mission challenges in optical communications, optical sensing, SIGINT, and radar applications.

Ms. Wendt has over 13 years of experience in the Aerospace, Defense and Commercial industries with roles ranging from materials and process engineering to Operations and Program Management. She is an ASQ Certified Quality Engineer, a CQSDI committee member and has mentored various QMA staff members. She holds a Bachelor of Biomedical Engineering from Stevens Institute of Technology.

8:00 - 8:15 am Opening Remarks

Phil Montag VP, Mission Support Division KBR (ASD/CQSDI Chair)

8:15 - 8:45 am Keynote Speaker



Pete Green Sr. VP, Government Solutions U.S., Defense & Intel Business Unit, KBR

Mr. Pete Green serves as KBR's Senior Vice President, Government Solutions U.S. – Defense & Intel Solutions. He assumed this role in 2017 and is responsible for the business line providing full spectrum scientific, engineering, and technical solutions across the lifecycle of U.S. Department of Defense and Intelligence Community systems on land, at sea, in the air, and in space. He provides cutting-edge expertise in military aviation modernization, missile defense, space domain awareness, and cyber security.

Drawing upon over 35 years of experience with KBR and its heritage companies, Mr. Green has senior leadership expertise across operations, strategic planning, and business development. Throughout his career, he has served in a broad array of roles including chief pilot, systems engineer, and program manager. For more than 15 years, he served as a contract test pilot supporting the Naval Air Warfare Center Aircraft Division.

Mr. Green is a graduate of the United States Naval Academy and holds a Bachelor of Science degree in Physics. He also earned a Master of Science degree in Systems Management from the University of Southern California and holds an executive management certification from the Darden School of Business at the University of Virginia. He serves on the board of directors of the National Defense Industrial Association.



8:45 - 9:15 am Featured Speaker



Greg Robinson

Program Director James Webb Space Telescope NASA Science Mission Directorate

Mr. Gregory Robinson is the Program Director of the James Webb Space Telescope. His focus is development efficiency, management processes, contractor performance, and mission success.

Mr. Robinson was formerly the Deputy Associate Administrator for Programs for the NASA Science Mission Directorate. He was responsible for ensuring high performance during development and operations of science flight projects.

Mr. Robinson held the position of Deputy Director of NASA's John Glenn Research Center where the scope spans research and technology, aeronautics, science spaceflight, and human spaceflight. He served as NASA's Deputy Chief Engineer for several years where he led engineering and program and project management strategy, policy, implementation rigor, and performance management. He was intricately engaged with the last 21 shuttle launches post Columbia Shuttle accident, as well as numerous satellite developments and launches.

Mr. Robinson also served as Deputy Assistant Administrator for Systems at NOAA's National Environmental Satellite, Data, and Information Service, leading the acquisition and management of all satellite systems.

Mr. Robinson serves as faculty at the Columbia University, School of Professional Studies, Information & Knowledge Strategy program.

Mr. Robinson received the Presidential Distinguished Executive Rank Award in 2013, and the Presidential Meritorious Executive Rank Award in 2007.

Mr. Robinson has a master's degree in Business Administration from the Averett University, a bachelor's degree in Electrical Engineering from the Howard University, a bachelor's degree in Mathematics from the Virginia Union University, and a Harvard Senior Executive Fellows Program from the Harvard University.



9:30 - 11:45 am SESSION 3 PANEL Software IV&V Tools and Implementation Strategies

Abstract: In this complex world, we have become more reliant on technology in virtually every aspect of our lives. That technology is driven by complex software algorithms which must be of the highest quality and reliability to assure consistent performance over time. The assurances the Quality community must provide are dependent on the robustness and fidelity of the processes we employ, assuring the software is developed correctly, with world class best practices. Key questions are always at the fore-- are we building it in accordance with the requirements and are we validating that it meets the exact needs of the customer?

Acceptance of software is already difficult and complex. Introduction of Artificial Intelligence and Machine Learning into the process has shown that traditional Verification and Validation (V&V) methods and techniques will not provide the necessary robustness to assure product conformance. Added to that, software is expected to perform in many harsh environments in both space and DOD scenarios. Traditional V&V practices will be replaced by more sophisticated and innovative methods to assure the software development and product delivery are meeting and or exceeding customer needs and requirements. The Independent V&V (IV&V) rigor becomes the imperative to provide customers the confidence that the software has the quality and reliability to perform repeatedly without fail.

This panel will examine innovative V&V practices, methods, and techniques that are being developed, implemented, and practiced by the Software Quality community to address the critical quality challenges unique to the aerospace and DOD environments that mandate the highest standards of Safety, Quality and Reliability.

Session Manager/Panel Moderator Paul Chiodo VP, Quality and Engineering UTRS, Inc.

Mr. Paul Chiodo is the Vice President of Quality and Engineering for UTRS, Inc. He has over 30 years of experience in quality assurance with the U.S. Army and private industry. He currently is responsible for Quality Engineering Core Competencies, including quality, safety and reliability, as well as Lean Six Sigma initiatives. He is presently engaged in developing the architecture for design for Lean Six Sigma in the R&D environment for RDECOM, infusing probabilistic technology and predictive engineering, leading root cause teams, and working with NASA in future robust design initiatives using advanced techniques in probabilistic technology, axiomatic designs, and design for Lean Six Sigma.

Previously, as Director, Quality Engineering and System Assurance for ARDEC, Mr. Chiodo was responsible for managing, planning, and executing the overall life-cycle quality, reliability, and system safety mission for RDECOM-ARDEC. He provided leadership for home base core competency for quality, reliability, and system safety for both hardware and software. In addition, he served as Deployment Director (Certified Master Black Belt) for the Picatinny site (ARDEC, PEOs, and PMs) for Lean Six Sigma deployment and program direction. He served as an internal government expert in Lean Six Sigma to AMC Headquarters and DA, ARDEC Standardization Executive. He chaired most seniorlevel independent review boards, including Material Release Review Boards, Test Readiness Review Board, and Red Team Investigations.

While serving as Director, Quality Engineering and System Assurance, Mr. Chiodo was selected for and served on the ten-person NASA Columbia Accident Independent Assessment Team and worked directly for NASA operations on the Return to Flight, Space Shuttle Program. He developed risk mitigation and performed assessments on the external tank and thermal protection system, as well as Space Shuttle flight certification and reprocessing. He worked with other team members to redefine the overall quality program and to redefine processes for acceptance, certification, manufacturing, etc., of all Space Shuttle components. He also co-authored a report of the team's assessment and recommendations, and briefed NASA administrators and associate administrators. Most of the recommendations were implemented for a successful return to flight by the Space Shuttle.

Session 3 Panelist - 1 A Metrics-based Software Tool to Guide Test Activity Allocation

Abstract (Dr. Lance Fiondella):

Existing software reliability growth models are limited to parametric models that characterize the number of defects detected as a function of testing time or the number of vulnerabilities discovered with security testing. However, the amount and types of testing effort applied are rarely considered. This lack of detail regarding specific testing activities limits the application of software reliability growth models to general inferences such as the additional amount of testing required to achieve a desired failure intensity, mean time to failure, or reliability (period of failure free operation). This presentation will provide an overview of a free and open-source software reliability tool implementing covariate software reliability models to aid U.S. Government organizations and their contractors who desire to quantitatively measure and predict the reliability and security improvement of software.

Dr. Lance Fiondella Associate Professor UMass Dartmouth

Dr. Lance Fiondella joined the Department of Electrical & Computer Engineering at the University of Massachusetts Dartmouth as an Assistant Professor in 2013. He conducts research in the areas of system and software reliability engineering and has published over 100 peerreviewed journal articles and conference papers on these topics.

In 2014, Dr. Fiondella was a Visiting Researcher at the U.S. Army Research Laboratory (ARL) in Aberdeen Proving Ground, Maryland. In 2016, he was an Office of Naval Research Summer Faculty Fellow in the Reliability and Maintainability Division at the Naval Air Systems Command (NAVAIR) in Patuxent River, Maryland.

Dr. Fiondella's research has been funded by the National Science Foundation, NASA, Department of Homeland Security, ARL, and NAVAIR.





Session 3 Panelist - 2 Adaptive IV&V for Increasingly Complex Software Systems

Abstract (Wes Deadrick): As software systems used for NASA missions continue to become more complex, the need for the NASA IV&V Program to become systemically adaptive to ensure mission success is paramount. To ensure adaptability within resource constraints, the NASA IV&V Program has developed an agile, risk-based approach to identify, characterize, scope, focus, and prioritize its goals and objectives. This risk-based approach is informed by trends across the software systems covered by the NASA IV&V Program such as increased reliance on data driven algorithms for safety and mission critical software behavior, use of MBSE in system design, and application of agile principles to embedded software development. The adaptability of the NASA IV&V Program's technical framework is enabled by continuous innovation such as integration of software only test beds, application of assurance design tools, and augmentation of IV&V processes with artificial intelligence and machine learning techniques. This presentation will highlight the trends the NASA IV&V Program is seeing, the innovative steps it is taking to address those challenges, and how it is postured to address evolving risk, and constantly changing and new technologies.

Wes Deadrick

Director, Independent Verification and Validation (IV&V) Program, NASA

Mr. Wes Deadrick is the Director of NASA's IV&V Program, located at the Katherine Johnson IV&V Facility. He is responsible for the leadership and technical direction of the IV&V Program and agency-wide strategy to provide the highest achievable levels of safety, reliability, and costeffectiveness for NASA's most critical mission software.

Mr. Deadrick began his NASA career in 2002 in the NASA IV&V Program as a Research Engineer within the Office of Safety and Mission Assurance (OSMA) Software Assurance Research Program (SARP). After spending five years managing and performing software research and software tool development, he accepted a position as an IV&V Project Manager. Over the period of six years, he was responsible for leading the implementation of IV&V services on a number of NASA missions and programs including Juno, Kepler, MSL, JWST, JPSS, MAVEN, OSIRIS-REx, and Constellation. In 2010, he served on detail at the NASA JPL as the software lead for a component of NASA's Constellation Program. Subsequent to his role as a IV&V Project Manager, he served as the Lead for the IV&V Program S&MA Support Office (SSO) where he was responsible for providing software assurance reach-back support to OSMA and the NASA Commercial Crew Program. As the SSO Lead, he was also responsible for overseeing the initiation of the IV&V Program's cybersecurity assurance capability. Prior to becoming the Director of the NASA IV&V Program, he led the Program's IV&V Office, which is responsible for providing IV&V services to a broad portfolio of NASA's most critical, and highest profile, science and human spaceflight missions.

Mr. Deadrick serves as a senior staff member for the Goddard Space Flight Center and the OSMA at NASA Headquarters. He has earned several prestigious awards throughout his NASA career, including the NASA Outstanding Leadership Medal, a Space Flight Awareness award, numerous Project Achievement awards, and the inaugural Terrence W. Wilcutt Award for excellence in advancing safety and mission assurance.





Session 3 Panelist - 3 Software IV&V Innovation for a Transformational Army

Abstract (Shawn Mathew): The goal of the Army Futures Command (AFC) is to lead the transformational modernization of the U.S. Army by making sure our soldiers have what they need before they need it. This requires the development of new technology and techniques in quickly changing, fast-paced software development environments. The Independent Verification & Validation (IV&V) capabilities at the Combat Capabilities Development Command (DEVCOM) Armaments Center are making the necessary changes to support these new fast-paced projects while still providing software quality expertise to existing legacy systems. The Software Quality synergistic utilizes high maturity processes with flexibility to implement insertion of novel technology areas in the Artificial Intelligence (AI), Cybersecurity, and Test automation space. Tagging of AI requirements, Safety Critical functions, proof of coding safeguards, AI training model accuracy, and additional level of rigor activities are some examples of how DEVCOM AC is evaluating software systems to inform fidelity in fielding decisions. Our nexus of robust processes, innovative tools & techniques, and collaborative environment ensure the holistic systems delivered to our Warfighters are safe, reliable and perform as intended.

Shawn Mathew

Software Quality, Reliability, and Safety (Q/R/S) Engineering Competency Dean Combat Capabilities DEVCOM, U.S. Army

Mr. Mathew currently serves as the Software Quality, Reliability, and Safety (Q/R/S) Engineering Competency Dean, responsible as the independent assessor of Armament software systems, propelling V&V research, and training advocate for critical technology areas on behalf of Combat Capabilities Development Command (DEVCOM) within Army Futures Command (AFC).

Mr. Mathew previously served as the software test authority on multiple armament, munitions, and trainer equipment projects. He led the Armament Software Engineering Center for the CMMI Appraisal and received a successful Level 5 maturity. He is also the Data Architecture Lead in Armaments Center and recognized authority in data visualization, master data management, and software engineering lifecycle.

Mr. Mathew is responsible for ensuring risk mitigation activities are executed to give confidence that mission critical software functionality will perform as intended. Complexity within AI/ML and cybersecurity framework are evaluated by the Software Subgroup (SSG) Chairperson to assure that the software is safe, reliable and maintainable before it is fielded to the troops.

Prior to his work with the Army, Mr. Mathew graduated from Manhattan College with a BS in Computer Science. Soon after, he continued his studies at Pace University where he earned an MBA with a concentration in Innovation, Technology, and Quality Management.



9:30 - 11:45 am SESSION 3 TRAINING/WORKSHOP Virtual Inspection/Virtual Audits Success and Failures

Abstract: Join us to learn and share about effective solutions for virtual inspections, assessments, and audits, as well as associated successes and lessons learned from pharmaceuticals and medical devices auditing/inspections, Nadcap and NASA. After presentations, a group discussion will be facilitated to enable sharing within the workshop participant group.

Dr. Laurel Hacche

Field Engineering Director SQA Services, Inc.

Dr. Laurel Hacche is a Field Engineering Director with over 30 years of experience in the pharmaceutical, device, and biologics industries. Dr. Hacche provides technical support to SQA Services, Inc. via a review of compliance and regulatory requirements, routine scoping of client projects, and analysis/preparation of Quality System documents and records, based on client requirements. She also conducts on-site and remote audits for cosmetic, drug, device, and biologics manufacturers.

Prior to her role with SQA Services, Inc., Dr. Hacche was the Senior Director of Third-Party Manufacturing in the Global Sourcing and Procurement department at Allergan, Inc. During her tenure with Allergan, she also served as the Director of Worldwide Quality Assurance with oversight for the corporate CAPA system, Annual Product Reviews, government agency communication records, third party manufacturers, the global audit and stability programs, complaint management, and R&D technology transfer. She also has served as the lead corporate QA liaison for the FDA and alternate regulatory agencies.

Prior to Dr. Hacche's employment at Allergan, Inc., she served as a Postdoctoral Researcher in the Department of Biological Chemistry at the California College of Medicine at U.C. Irvine. She has also held an Associate Faculty position at Saddleback College and served as an Assistant Professor at the Joint Science Department for the Claremont Colleges. She holds a Ph.D. in Physical Polymer Chemistry from U.C. Irvine and an A.B. in Chemistry from Occidental College.

James T. Lewis Sr. Program Manager Performance Review Institute (PRI)

Mr. Jim Lewis manages and oversees the staff engineers and auditors responsible for the Nadcap Aero Structure Assembly, Coatings, Elastomer Seals, Fluid Distribution Systems, Measurement and Inspection, NonDestructive Testing, and Sealants Task Groups, as well as overseeing PRI's Counterfeit Avoidance Accreditation Program (CAAP), a program that he started in 2014 and has continued to develop, and the PRI Qualified Product Listing (QPL) programs.

Mr. Lewis joined PRI in 2002 as an Associate Staff Engineer for Coatings and Chemical Processing and was promoted to Staff Engineer and Sr. Staff Engineer, while leading the Coatings and Materials Testing Task Groups. He assumed the role of Program Manager in 2011 prior to his current role as Sr. Program Manager. As part of his current duties, he works closely with the Management Councils of the Nadcap, CAAP, and QPL programs. He is a qualified auditor for the Nadcap Coatings and Aerospace Quality Systems and CAAP EEE Parts and Distributors Task Groups.

Mr. Lewis holds bachelor's and master's degrees in Chemical Engineering from the University of Pittsburgh.

Julee Powers

Aerospace Engineer NASA Marshall Space Flight Center

Ms. Julee Powers is an Aerospace Engineer for the NASA Safety & Mission Assurance Independent Assessment Team at the Marshall Space Flight Center (MSFC). The MSFC Independent Assessment Team has been leading the effort to implement a virtual surveillance/remote inspection process at NASA.

Ms. Powers previously worked for Bastion Technologies as the lead Quality Engineer for the Core Stage Thrust Vector Control System on NASA's Space Launch System. Before joining NASA, she held prior roles working for the Army, Boeing, and TenCate in various Quality, Sales, and Product Development positions. She obtained her B.S. in Chemical Engineering from the University of Alabama and went on to study in Spanish in Spain. She is passionate about experiencing new cultures and encouraging younger generations to pursue STEM careers.

1:00 - 1:30 pm Luncheon Keynote Speaker



David Castellano

Executive Director, Munitions Engineering and Technology Center (METC), U.S. Army Combat Capabilities DEVCOM Armament Center

Mr. David Castellano is the Executive Director of the METC at the U.S. Army Combat Capabilities **Development Command Armaments Center** (DEVCOM AC), Picatinny Arsenal, NJ. Appointed by the Secretary of the Army in 2016, he assumed his new role leading a world-class research and engineering organization responsible for the development, systems integration, and rapid fielding of munition-based armament systems for the Army, Marine Corps, and Special Forces. With a competency team of subject matter experts of products and services that span a wide spectrum of advanced, lethal/non-lethal small, medium, and large caliber munitions, as well as advanced component technologies including warheads, fuzing, sensors, energetics, and nontraditional nano structures, he is responsible for the safety, environmental and technical efficacy of dozens of unique, hi-tech laboratories, small pilot operations, indoor/outdoor experimentation ranges, rapid prototyping and additive manufacturing capabilities, and other specialty laboratories.

In 2008, Mr. Castellano was selected by the Deputy Under Secretary of the Army to lead the Weapons and Software Engineering Center at the U.S. Army Armament Research, Development and Engineering Center, Picatinny Arsenal, NJ. During his tenure as Executive Director, he was responsible for leading a large research, development, and engineering center with a competency team of over government and contractor employees. With more than 37 years of experience providing technical leadership, engineering excellence, & project/organizational management, he directed his core efforts toward systems integration and rapid development/ fielding of systems in direct support to the warfighter, as well as fielding advanced and future weapon systems to the Army, Navy and Marine Corps. His organizational credentials include three Department of Defense Top 5 Program awards, several Army's Greatest Inventions, ISO 9001 certification, and Capability Maturity Model Integration (CMMI DEV), Level 5 (2006-present).

1:45 - 2:15 pm Featured Speaker



Mike Wadzinski

Director Safety, Quality and Mission Assurance (SQMA) MDA

Mr. Mike Wadzinski is the QS Director, responsible for ensuring SQMA for the Ballistic Missile Defense System (BMDS) and for all MDA programs throughout their life cycles. This includes development of SQMA policy; system, component, and piece part requirements for design, test and manufacturing; flight and ground testing; and deployment. He was previously the Director (Acting) from 2012 to 2014.

Mr. Wadzinski served as the QS Deputy Director for the BMDS and the Chief Engineer from 2010 to 2013. He provided independent assessments for SQMA for the BMDS program, for developing SQMA policy and requirements, and SQMA for BMDS level tests.

Mr. Wadzinski served as the QS Functional Manager for SQMA for the Ground Missile Defense (GMD) Program from 2007-2010. He provided independent assessments for SQMA for the GMD program.

Mr. Wadzinski served as the first MDA Deputy Director for Safety from 2003- 2007, responsible for ensuring the safety of MDA personnel and resources at all locations. He led the development of MDA safety requirements and policies, ensured residual safety risks were accepted at the proper level of management, and provided independent safety assessments and oversight of the BMDS and each of the MDA programs.

From 1985 until 2003, Mr. Wadzinski worked for the 45th Space Wing Range Safety Office at Cape Canaveral Air Force Station/Patrick Air Force Base (the Eastern Range) in various positions.

From 2000 to 2003, Mr. Wadzinski was the Chief of Systems Safety for New and Navy Programs overseeing programs such as NASA's X-33 and X-34, the Air Force Evolved Expendable Launch Vehicle programs, Navy's C-4 and D- 5 Fleet Ballistic Missiles and the commercial Beale BA-1, Space-X Falcon, the Orbital Sciences Pegasus and Taurus. Mr. Wadzinski earned a Master of Science degree in Management (Sloan Fellow) from the Leland Stanford Junior University in 1999. He attended the Air Command and Staff College - Air University (In Residence) in 1996. He earned a Master of Science degree in Systems Management from the Florida Institute of Technology in 1990. He earned a Bachelor of Science degree in Chemical Engineering from the Ohio State University in 1984. He is a member of the Defense Acquisition Corps.

2:30 - 4:30 pm SESSION 4 SPECIAL TOPIC New/Young Quality Professionals – Perspectives from the Mentees and Mentors

Abstract: This back-to-back two-panel session will explore the mentorship relationships between New/Young Quality Professionals (the mentees) and their mentors and the Mentorship Programs. The first group of new and young quality professional panelists will discuss the pros and cons of their mentorship experiences. The second group of mentor and leader panelists will discuss their mentorship relationships and programs, including the strains and struggles of starting a mentorship program and the best practices of creating successful mentorship relationships. Attendees will learn valuable lessons on what to avoid that doesn't work and best practices to implement immediately within their organizations and personal careers.

Session Manager/Panel Moderator Belinda Chavez Operations Manager Space and Missions Solutions, KBR

Ms. Belinda Chavez is an Operations Manager for KBR, Space & Missions Solutions, in support of the NASA Safety Center Audits and Assessment Office and the Safety & Mission Assurance Manager for the SWFO Ground Segment Antenna Network contract. She has over 25 years of safety and quality experience with NASA and Department of Defense contractors.

Ms. Chavez earned a Bachelor of Science degree in industrial technology at the Southern Illinois University, and a Master in Business Administration at the Louisiana Technical

University. She has been an active ASQ volunteer member leader for nearly 20 years holding various member leader positions including ASQ Board of Directors, Region Director, and officer/committee chair for multiple technical and geographic member communities. She is an ASQ Fellow and ASQ Certified Manager of Quality/Organizational Excellence, ASQ Certified Six Sigma Black Belt, an IPCM Certified Manager, and George Group Certified Lean Six Sigma Black Belt.

Ms. Chavez received various company and NASA awards including a United Space Alliance Safety Quest Award, a NASA Space Flight Awareness Award, the NASA Astronaut Silver Snoopy Award, and multiple NASA Group Achievement Awards.

Session 4 Panel 1 New/Young Quality Professionals: The Mentees

Abstract: The new/young quality professionals will share their insights and experiences on some very important aspects of their mentorship relationships. They will relay the successes and growing pains related to their personal mentee/ mentor relationships and they maneuvered through their careers as new/young quality professionals.

Stephen Cassman Quality Assurance Specialist, KBR

Mr. Stephen Cassman is a Quality Assurance Specialist at KBR. He enlisted in the Marine Corps as an Aviation Ground Support Equipment Mechanic and served in a logistical role that supported fixed-wing aircraft. After his service, he received a B.S. in Supply Chain & Logistics Technology from the University of Houston in 2021. During his undergraduate studies, he held internships with a freight forwarding company in a distribution role and with an Engineering, Procurement, and Construction company in a project procurement role. He was a member of the ASQ Greater Houston Section 1405 Student Branch and was a recipient of an ASQ Student Scholarship in 2019.



Arda H. Rajguru

Hardware Quality Assurance Lead NASA Jet Propulsion Laboratory (JPL)

Ms. Arda Rajguru graduated from U.C. Davis with a BS in Mechanical and Aeronautical Engineering in 2006. Upon graduation, she began work at an Aircraft Engine Forging company where she learned the manufacturing and inspection disciplines.

While obtaining a master's degree in Astronautical Engineering, Ms. Rajguru began working at SpaceX, building and inspecting the Dragon Capsule. Five years later she successfully pursued her dream of working at NASA JPL where she had the opportunity to work on the James Webb Space Telescope and many other exciting projects. She is currently the Hardware Quality Assurance Lead for the MAIA Project. She is also a member of the MaST (Mentoring and Supplemental Training) Program.

Lindsey Shaw

Sr. Strategic Quality Transformation Manager Raytheon Missiles and Defense

Ms. Lindsey Shaw is a Senior Manager at Raytheon Missiles and Defense, a business of Raytheon Technologies. Her responsibilities include management and improvement of the Corrective Action system, assessing the corrective action process for maturity and detection of trends warranting systemic project deployment.

Ms. Shaw brings more than 15 years of experience in aerospace and defense. She joined Raytheon Technologies as a Materials and Process Engineer, eventually holding various positions of increasing responsibility within Quality and Mission Assurance.

Ms. Shaw has served as the Raytheon Nadcap Management Council representative and Metrics Committee Chair and currently sits on the Board of Directors of the Southwest Alliance for Excellence. She is an ASQ Certified Manager of Quality and Organizational Excellence and has previously held qualifications of ASQ Certified Quality Auditor and Aerospace Experience Auditor (AEA). She holds bachelor's and master's degrees in Chemistry from Northern Arizona University. She is a graduate of the Raytheon Engineering Leadership Development Program and the Raytheon Leadership Excellence Program.



Session 4 Panel 2 Mentorship Programs: The Mentors

Abstract: Panelists will provide their

perspectives on their organization's mentorship programs. The panelists will present an overview of their organization's structured leadership programs, mentorships, and the benefits for both the organization and mentee on how they recruit and retain new talent. They will provide tips on how you can apply these processes in your organization.

Paul Moreno

Sr. Director of Quality and Mission Assurance Raytheon Missiles and Defense

Mr. Paul Moreno is the Senior Director of Quality and Mission Assurance at Raytheon Missiles and Defense, a business of Raytheon Technologies. His responsibilities include assessing risk and ensuring resiliency of products including missile defense systems, precision weapons, radars, command and control systems and advanced defense technologies.

Mr. Moreno brings more than 25 years of experience in aerospace and defense. Most recently, he served as Quality Excellence Director at Raytheon Missile Systems, prior to Raytheon Company's merger with United Technologies Corporation in 2020. Before that, he held several leadership roles including Quality Director for the Land Warfare Systems product line.

Before joining Raytheon, Mr. Moreno worked for Honeywell Aerospace where he developed strategic improvement plans including systemic site and customer-specific improvement initiatives.

Mr. Moreno is a U.S. Air Force veteran, holds a master's degree in business administration as well as bachelor's degrees in cyber operations and business.

Richard Paynter Quality Assurance Engineer

NASA Jet Propulsion Laboratory (JPL)

Mr. Rick Paynter is a Principal Engineer in the Discipline of Hardware Quality Assurance (HQA) at NASA JPL. He has been a hardware quality assurance professional in the Aerospace Industry for 44 years.

Mr. Paynter led the HQA teams in the successful delivery of both the Mars Perseverance and Curiosity Rovers.

Last year, Mr. Paynter was selected as the first ever HQA Chief Engineer at NASA JPL. In this role, he developed a mentoring program for young quality professionals at NASA JPL called MaST (Mentoring and Supplemental Training) Program. A key element of the MaST program is to pass-on the experiences, practices, and knowledge he has acquired over his successful career to the next generation of HQA Leaders.

Brian Tenney

Quality Director Advanced Development Programs Lockheed Martin Aeronautics Company

Mr. Brian J. Tenney is the Quality Director for Advanced Development Programs for the Lockheed Martin Aeronautics Company. He also served as the Director of Quality Assurance for the Lockheed Martin Aeronautics Company, the Mission Assurance Director for the Integrated Fighter Group, Mission Assurance Director for the F-35 Program, Director of Production Engineering on the F-22 program, and structural design engineer for various aerospace industry projects.

In addition to his work in the aerospace industry, Mr. Tenney served for 32 years in the Army National Guard and Army Reserve, retiring in the rank of colonel. He received a bachelor's degree in Space Science from the Florida Institute of Technology, a master's degree in Quality Assurance from Southern Polytechnic State University and a master's degree in Strategic Studies from the U.S. Army War College. He is a patent holder and a certified Black Belt.



March 17 Day 3 - Thursday

8:15 - 8:45 am Featured Speaker



Mike Shields

Executive Director of Quality Assurance DCMA

In his current position, Mr. Michael Shields manages the agency's Quality Assurance Directorate, which is composed of a community of functionally aligned Quality Assurance Engineers and Specialists in performance of their contract management responsibilities. He is responsible for leadership in providing quality assurance support throughout the acquisition system, achieving operational excellence which inspires warfighter confidence through the issuance of new policies and management of core quality assurance business processes, developing effective performance management measures which influence industrial base performance, and in revitalizing the agency's quality assurance workforce through development of professional certification and training.

Prior to his assignment at DCMA, Mr. Shields managed the Defense Logistics Agency's Quality Assurance and Product Testing Programs. In that position, he was responsible for developing policies, defining informational functional requirements, performing operational analysis, surveillance oversight, and staff direction to each of the Agency's Defense Supply Center Quality Assurance and Product Verification business units. He also served as the Agency's representative on the Quality Assurance Committee of the DAR Council. He served the Joint Aeronautical Logistics Commanders Council in development of effective controls for the acquisition of critical safety items and audit of both major buying centers and defense distribution depots. He also participated in numerous engineering and quality assurance cross talks and conferences with Military Service customers.

Mr. Shields is an ASQ Certified Quality Engineer, and ASQ Certified Auditor. He started his education at New York State University with a Bachelor of Science degree in business. He completed his formal education with a master's degree in business administration from the Colorado State University. His awards include three Vice President Gore Hammer Awards for making government operate more efficiently.

9:00 - 11:15 am

SESSION 5 SPECIAL TOPIC Managing Risk and Compliance in Cyberspace - Standardizing and Implementing New Controls in Aerospace and Defense

Abstract: Risk management, standards implementation, and best practices are nothing new to the world of quality. Evolving efforts to reinforce the security and resiliency of the Defense Industrial Base and the supply chain of the Department of Defense have seen these themes reemerge in relation to how information is managed within and between industry players. This panel explores different perspectives in cybersecurity risk and compliance, and the potential lessons and impact from and for broader quality assurance responsibilities.

Session Manager/Panel Moderator Gerard Pearce Executive Vice President SQA Services

Mr. Gerard Pearce is a quality and supply chain expert with over 30 years of experience in combining the disciplines of quality, technology, and supply management. His expertise spans a variety of quality-critical industries in a global manufacturing landscape.

Since 2000, Mr. Pearce's focus has been on defining the processes and infrastructure that provides managed supplier quality programs for numerous global leaders in the fields of aerospace, pharmaceuticals, defense, medical devices, oil and gas, electronics, consumer goods, and more. Central to this infrastructure is the technology required for effectively running global supplier quality operations by connecting all stakeholders in the supply chain.

Mr. Pearce is currently the Executive Vice President and Head of Operations of SQA Services. He is a regular industry commentator and contributor, and closely involved in shaping and implementing the global supplier quality strategy for SQA's Fortune 500 clients.

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Session 5 Panelists - 1

Ron Davis

Chief Information Security Officer Huntington Ingalls Industries

Mr. Ron Davis is the Chief Information Security Officer (CISO) at Huntington Ingalls Industries (HII). He is responsible for overseeing the company's information security program in areas such as cybersecurity policy, risk management, governance and, cybersecurity incident response and remediation.

Prior to HII, Mr. Davis was the CISO at Vencore Inc. where he performed similar functions as those in his current role at HII. He served in various roles as an information security leader both in the Defense Industry and Homeland Security.

Previously, Mr. Davis held the position of Director of BAE Systems Inc. Global IT Security Integration and Strategic Collaboration. He was responsible for global strategic collaboration for cybersecurity services.

Mr. Davis was also the BAE Systems Inc. IT Security Policy and Operations liaison to a number of the Defense Industrial Base Cybersecurity and Information Assurance working groups, where he provided insight and expertise on cybersecurity issues encountered by the Base.

Mr. Davis was also the Director of BAE Systems Global IT Security Operations. He was responsible for supporting the BAE Systems global security operations theater and directed a team of cyber analysts and information security engineers in combating cyber threats against the BAE Systems global network.

As a BAE Systems employee under contract to the federal government, Mr. Davis served as Director of IT Security at the Department of Treasury and IT Security Manager at the Department of Commerce. Also in a contracting capacity, he served as a Senior Lead Information Systems Security Engineer at the Department of Defense and the Department of Homeland Security.

Mr. Davis has a Bachelor of Science in Information Systems Management with a minor in Homeland Security. He also holds several industry certifications including the Certified Information Systems Security Professional certification.

Session 5 Panelists - 2

Robert Duchesne

Sr. Manager of Cybersecurity and Compliance Consolidated Aerospace Manufacturing

Mr. Robert L Duchesne III is the Senior Manager of Cybersecurity and Compliance at Consolidated Aerospace Manufacturing. He has been a cybersecurity leader with multiple Fortune 500 companies and small to large sized defense manufacturers for over a decade. He has held roles with the National Institute of Standards and Technology, the Department of Defense, and the State of California in leading the nation's supply chain cybersecurity efforts for the Defense Industrial Base sector. This strong focus on large companies and recognition as a subject matter expert in Cybersecurity Maturity Model Certification has positioned him well to lead all cybersecurity, governance, risk, and compliance efforts for the Stanley Black and Decker group of defense manufacturers.

Mr. Duchesne derives his passion from his origins in the U.S. Air Force as a Satellite Systems Operator providing Intelligence, Surveillance, and Reconnaissance to U.S. warfighters. His oath to protect the U.S. from enemies foreign and domestic is reflected in his efforts to preserve the integrity of the nation's cutting-edge defense systems.



March 17 Day 3 - Thursday

Session 5 Panelists - 3

Shane Hammett

Vice President of IT and Cybersecurity ITSC Secure Solutions, LLC

Mr. Shane Hammett is the Vice President of IT and Cybersecurity at ITSC Secure Solutions, LLC. He is a former U.S. Department of Homeland Security (DHS) Cybersecurity Threat Professional and Senior Policy Advisor with over 20 years of experience in the field.

Mr. Hammett has provided federal, commercial, and state and local government organizations with policy and architecture guidance. He has also provided oversight into technical programs for state fusion centers throughout the southeast. He has worked with governors to better understand risk mitigation technics and provided clarity to homeland security directors on critical infrastructure efforts throughout his career.

Mr. Hammett's previous experiences include Chief Information Security Officer at AUBix, President and CEO at DSH Consulting, Vice President and Chief Information Officer at Straitsys, Senior Director Cybersecurity Threat Programs at Dynetics, NCCIC/US-CERT Program Lead at U.S. DHS, and Senior IT Project Manager at State of Alabama.

Mr. Hammett's specialties include CMMC, HIPAA, NIST, security operations centers, cybersecurity network defense strategies, program management, risk analysis, threat intelligence, executive threat briefings, disaster recovery/COOP planning, SLTT policy development, federal and state IT architecture standards, and technical policy advisor.

Mr. Hammett also held various roles including: Executive Chair at the National Defense Cyber Alliance; Strategic and Tactical Lead for establishing the DHS NCCIC Pensacola facility; Chair of the Cyber Huntsville TTX working group; Member of the Huntsville Cyber Council; Technical Chairman of Southern Shield, Architect of DHS program for Non-State Emerging Threats (NSET); Lead Technical Architect for the National Suspicious Activity Reporting and Information Sharing program; Alabama Cross Agency Technical Program Lead for CIKR and First Responders; Lead for the Virtual Alabama Program.

Mr. Hammett has a Bachelor of Science in Management Information Systems and holds the following certifications: MCSE, MCSA, MCDBA, CEH and CISSP.

Session 5 Panelists - 4

John Ellis

Director of the Software Division DCMA

Mr. John A. Ellis is currently the Director for DCMA's Software Division, responsible for the Policy, Training, and Tools used by the Agency's software professionals in the conduct of their software surveillance activities, including the application of cybersecurity contract requirements and policies. In addition, he is also the Acting Director for DCMA's Defense Industrial Base Cybersecurity Assessment Center, responsible for assessing cybersecurity compliance throughout the Defense Industrial Base.

Mr. Ellis, a retired Army Colonel, served on active duty for more than 30 years. Commissioned a second lieutenant in the Field Artillery in 1985 and becoming a member of the Army Acquisition Corps in 1995, he served in a variety of assignments until his retirement 2015.

Mr. Ellis held assignments both stateside and abroad. His DCMA experience began as the Commander of the Future Combat Systems/Army Modernization Programs contract management office, and he culminated his active-duty career as DCMA's Central Region Commander.

Mr. Ellis is a graduate of Marshall University with a Bachelor of Business Administration in Management and earned a Master of Science (MS) in Information Systems Management from AFIT and a MS in Strategic Studies from the Air War College. He is a graduate of the Advanced Program Management Course. He is a Member of the Defense Acquisition Corps and is Level III certified in 3 disciplines: Information Technology; Program Management; and Engineering. He is also a Certified Information Systems Security Professional.

Mr. Ellis' significant military awards include the Defense Superior Service Medal, the Legion of Merit, the Bronze Star Medal, the Meritorious Service Medal (with 3 oak leaf clusters), the Army Commendation Medal (with 3 oak leaf clusters), and the Army Achievement Medal (with silver oak leaf cluster). As a civilian, he received DCMA's 2019 Leadership Award.





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