



2019 S1000D User Forum Parent Organization Association Report

Gery Mras
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AIA is the Voice of America's Aerospace and Defense

- Founded in 1919 – Only a few years after the birth of flight
- AIA is the US's premier trade association representing 360+ major aerospace and defense manufacturers and suppliers in the United States.
- AIA's strategic direction is established through direct involvement with CEO-level officers of the country's major Aerospace and Defense companies.
- AIA provides a forum for government and industry representatives to exchange views and resolve problems on non-competitive matters related to the Aerospace and Defense industry. Because of this, the US Department of Defense and other federal govt. agencies seeks consensus recommendations from AIA members helping to shape smart policies and regulations
- AIA represents US companies from every high-technology manufacturing segment... Commercial aviation, avionics, manned and unmanned defense systems, missile systems to space technologies and satellite communications.

Writing the Next Chapter of Our Industry's History



1919 US Aeronautical Chamber of Commerce



50th Anniversary of the Apollo 11 Landing on the Moon



NASA QueSST Supersonic X-Plane

Thanks to our industry, we now have:

- Air transportation and cargo systems linking the far corners of the world
- Defense platforms ensuring the security of our nation and the safety of our men and women in uniform
- Space missions extending our human presence outward in the solar system
- Communications nodes and cyber networks that connect the global economy

AIA Celebrates 100th Centennial



The great grandniece of Orville and Wilbur Wright, Amanda Wright Lane



Susan Eisenhower is the granddaughter of former President Dwight D. Eisenhower

Wings of Liberty Award Recipients



Pilot Beverly Bass, American Airlines first female captain in 1985, and the lead of the first all-female aircrew in 1986



Keynote address by former Secretary of State and retired four-star General Colin Powell

Executive Leadership – AIA’s Board of Governors



William M. Brown

Chairman, Board of Governors, Aerospace Industries Association
Chairman, President and Chief Executive Officer of L3Harris Corporation



Kelly Ortberg

Vice Chairman, Board of Governors, Aerospace Industries Association
Chairman Chief Executive Officer of Collins Aerospace

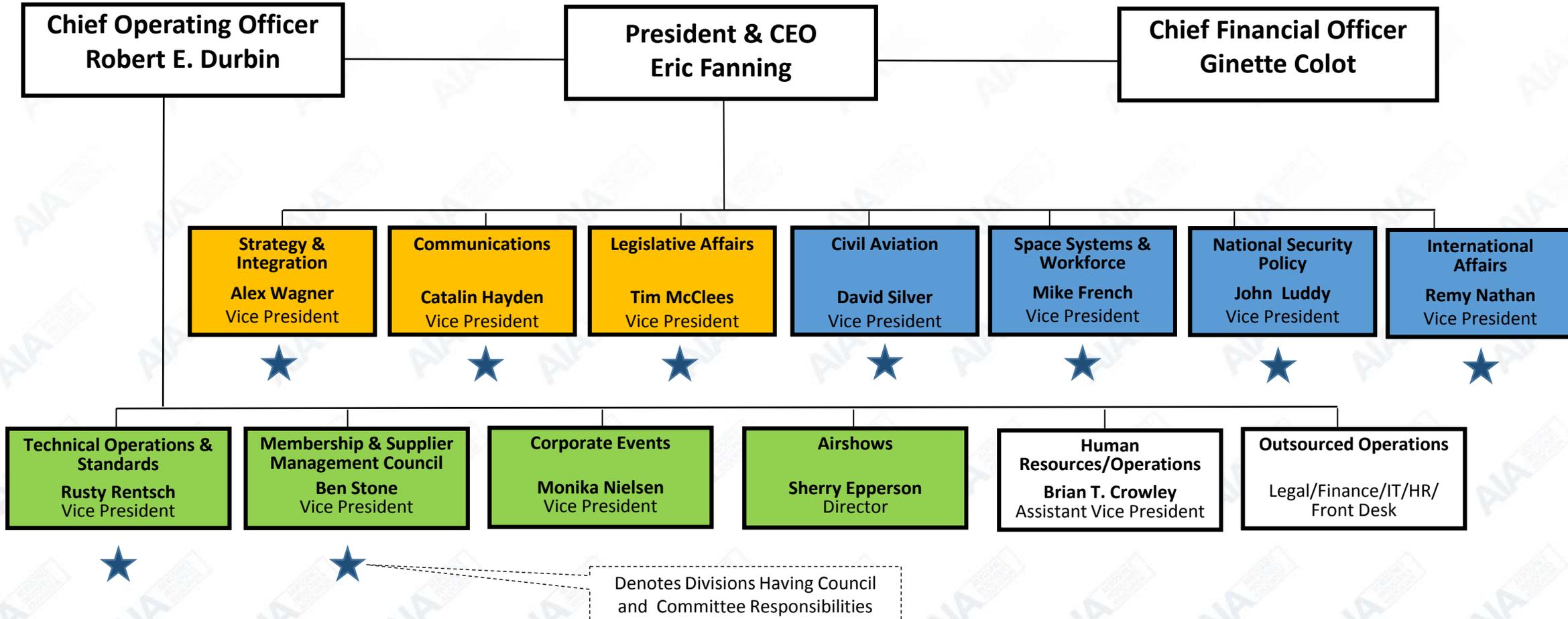


Eric K. Fanning

President & Chief Executive Officer
Aerospace Industries Association



Leadership & Organizational Design



AIA Publishes the 2019 Economic Facts and Figures for the US A&D Industry

Trends from 2017 report

150K ↑

\$64B ↑

38K ↑

70K ↑

2018 A&D ECONOMIC OUTPUT

2.55M
U.S. JOBS

\$929B
IN SALES

881,000
DIRECT JOBS

1.67M
SUPPLY CHAIN JOBS

Aircraft Systems
\$361B

Land & Naval Systems
\$55B

Space Systems
\$39B

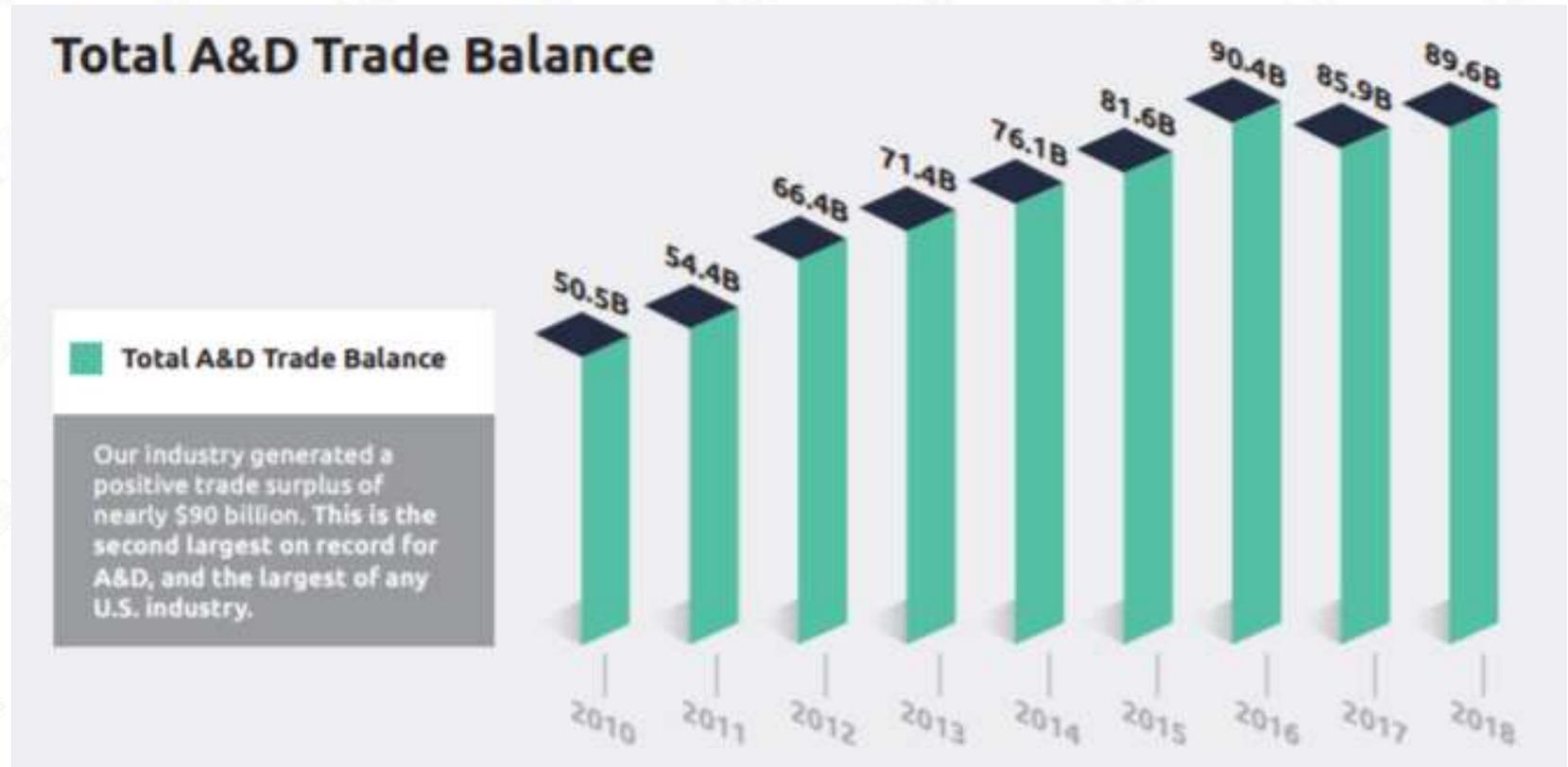
Cyber
\$16B

End Use Manufacturers
51% \$471B

Supply Chain
49% \$459B

2018 A&D Trade Balance

- In 2018 A&D exports amounted to \$151 billion (An increase of 5.81% from 2017)
- The US exported \$131.5 billion civil aerospace products and 19.5 billion in Defense products
- A&D imports into the U.S. amounted to \$61.5 billion, (An increase of 8.08% from 2017)



AIA Helps The A&D Industry Remain Resilient During a Dynamic Political Landscape



James Mattis



Patrick Shanahan



Mark Esper



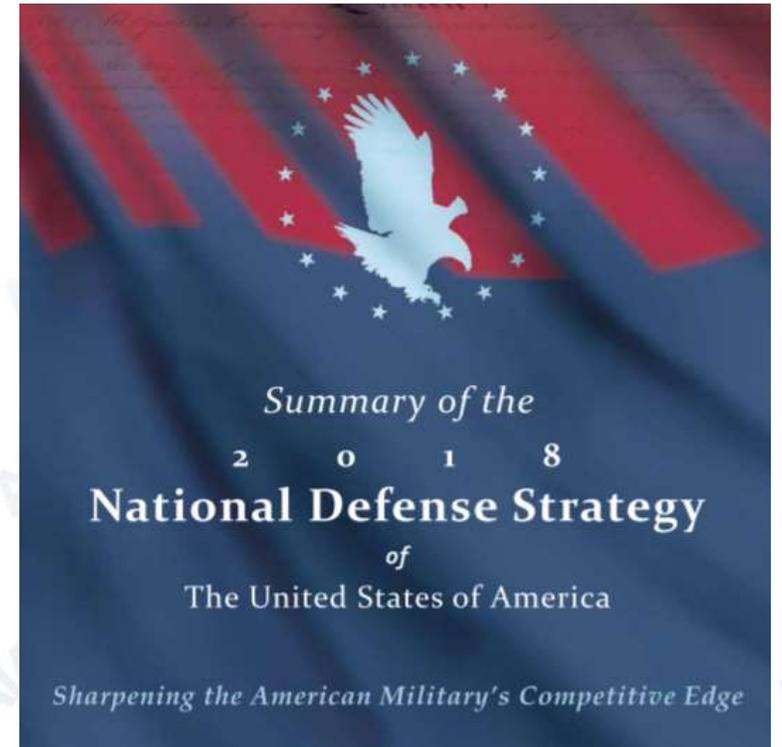
Ellen Lord, USD (A&S)



Michael Griffin, USD (R&E)

Expand the Competitive Space While Pursuing Three Distinct Lines of Effort

- First, ***rebuilding military readiness*** as we build a more lethal Joint Force
- Second, ***strengthening alliances*** as we attract new partners
- Third, ***reforming*** the Department's ***business practices*** for greater performance and affordability



Mattis Orders DoD to achieve 80% Fighter Jet Readiness — In One Year



AIA Product Support Committee (PSC) Charter

- To serve as an effective **two-way communications** vehicle for the exchange of views and information between Government and Industry on Sustainment related issues
- To provide Government with **collective Industry viewpoints** and recommendations on lifecycle product support concepts, business practices, implementation or impact of pending legislation, policy, regulations, and procedures.
- **Foster collaborative relationships between Government and Industry** for the purpose of ensuring effective and reliable Lifecycle Product Support concepts, and business processes meet government requirements.

AIA Product Support Committee

What We Do: Collaboration with Government

Mission focus

- National Priorities
- Warfighter Readiness

Representing 360+ Aerospace & Defense Companies & Suppliers



Product Support Committee

Product Delivery

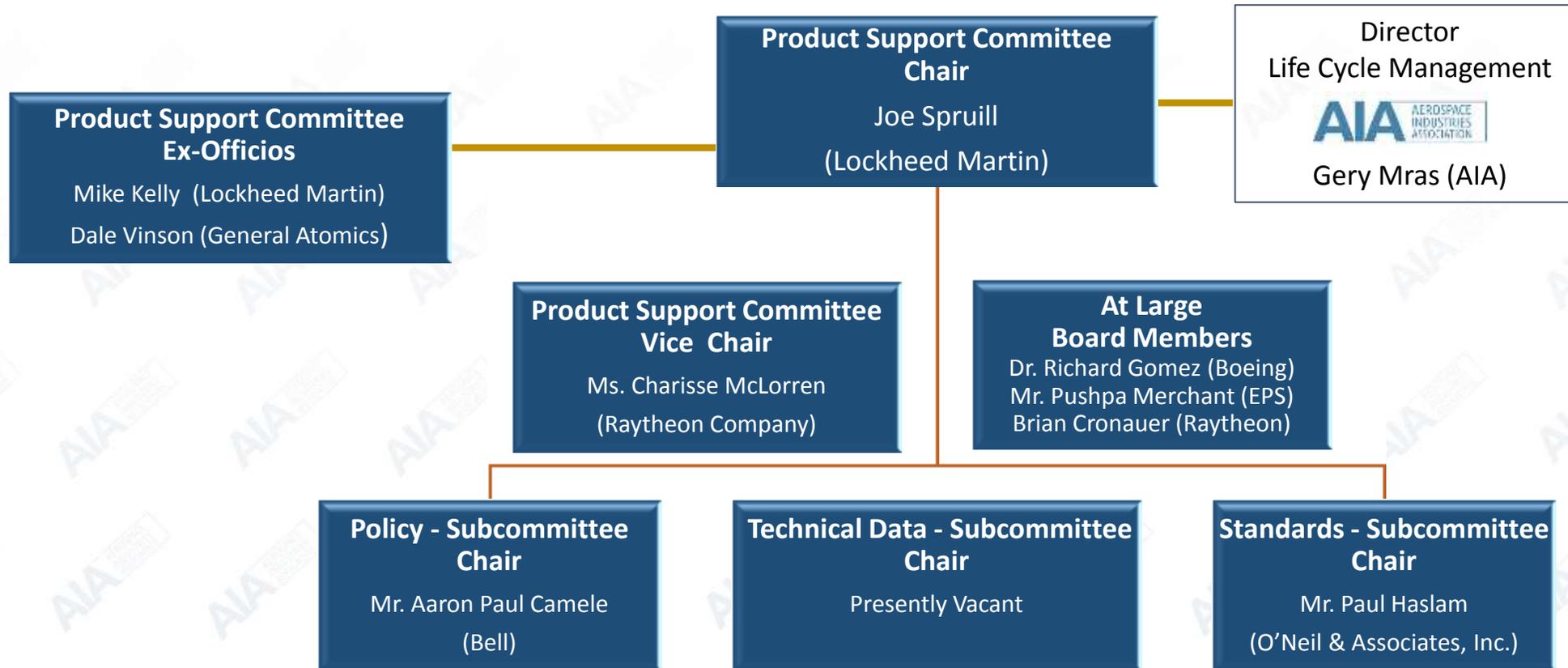
- Workshops
- Industry best practices
- Subject matter experts

Weapon System Readiness
 Sustainment Factors in System Design
 Model Based Engineering – Sustainment
 Intellectual Property
 Core Determination
 Collaborative Business relationships
 Public-Private Partnerships
 OSD PSM Workshop
 DoD Maintenance Symposium
 PBL Best Practices
 SECDEF PBL Award
 Digital Twin/Digital Thread
 Advanced / Additive Manufacturing
 AIA/ASD ILS S-Series Specifications
 US S1000D Management Group
 Joint Services IETM Technology Working Group
 Acquisition Policy/ DoDI 5000xx
 DAU Training & Courses Development
 DoD DMSMS & Parts Management Support
 Counterfeit/Non-Conforming Materials
 Joint Supply Chain Architecture
 & More



DoD
NASA
DHS

Product Support Committee Executive Board



- Readiness levels meeting National Defense Strategy
 - Establishing increased lethality
 - Strengthen coalition by building alliances and partnerships
 - Business reform
- Reducing lifecycle cost by Implementing emerging digital technologies
- Promote acquisition reform that moves sustainment requirement earlier in the acquisition value stream (DoD 5000xx).
- DFAR responses to Reliability and Maintainability in Weapon System Design Efforts/
- Positions on legislative NDAA FY-21 – Sustainment Issues
- International partnerships that mitigate the tyranny of distance during host theater deployment
- Industry positions addressing product support disruptors, perspectives and priorities



AIA – Looking to the Future

THE WAY TO WHAT'S NEXT



The Way to What's Next: As our world evolves, our industry is at the forefront of groundbreaking technologies. AIA works to bring attention to the challenges and opportunities of tomorrow.

The Way To What's Next

**AIA in Partnership with McKinsey &
Company Unveils an Industry
Perspective of Aerospace in 2050**

[Click here to read the full report.](#)



Vision 2050

By 2050, we can see: drones taking on a wide variety of tasks, widespread Urban Air Mobility, supersonic travel, and space becoming increasingly accessible. This will be underpinned by artificial intelligence (AI) and proactive cybersecurity.

This future is possible, but American leadership is not assured. Industry and government must work together to make this future possible.



A Glimpse at A&D in 2050

- Full integration of drones into our economy; performing agricultural tasks and infrastructure repairs
- Alternatives to traveling on congested roads provided by Urban Air Mobility
- A resurgence of supersonic flight makes business travel faster and more efficient than ever before
- Greater accessibility to space creates new markets and business opportunities



A Future Built on Artificial Intelligence



The advancements of the next 30 years will be underpinned by Artificial Intelligence (AI):

- Widespread AI, cloud-based technology, and constantly updated data will make it possible for autonomous aerial vehicles, like drones, air taxis and air ambulances, to navigate the world.
- AI decision-making based on insights from integrated data sources will support military operations, protect our armed forces on the battlefield and ultimately, platform-level autonomy will minimize human involvement in combat.

Building the Workforce of Tomorrow



- As the world continues to evolve, the technologies and solutions that we will need to develop will require a wider array of talent.
- A&D companies must work together, and also with government stakeholders, to build the next generation of skilled and diverse aerospace workers.



AIA

AEROSPACE
INDUSTRIES
ASSOCIATION

Back-up Slides Product Support Team

Chair – AIA Product Support Committee



Mr. Joe Spruill
Logistics & Sustainment
Lockheed Martin Corporation

LOCKHEED MARTIN



Joe Spruill has broad experience in the National Security arena as a career Naval officer, federal civil servant, consultant, and in industry. At Lockheed Martin, he provides support for corporate initiatives and programs in logistics and sustainment, and collaborates with the U.S. Department of Defense, NATO, and industry associations on policy and matters of mutual interest. Joe is currently on assignment at the Eisenhower School as the Bernard M. Baruch Industry Chair, serving as a senior advisor to the Commandant, and managing the Private Sector Fellows program which promotes public-private sector interaction and understanding for the collective defense of our nation.

A graduate of the U.S. Naval Academy and the Naval War College, Joe also holds an MBA from Troy University and a Masters in National Resource Strategy from the National Defense University. He is a Certified Supply Chain Professional.

Joe works with several industry associations; serving in leadership roles for the National Defense Industrial Association, Aerospace Industries Association, and the NATO Industry Advisory Group, approaching logistics and supply chain risk management issues through Government-Industry collaboration.

Vice Chair – AIA Product Support Committee



Mr. Charisse McLorren
Program Manager
Raytheon Company



Charisse McLorren is Program Manager within Raytheon Space and Airborne Systems (SAS) in McKinney, Texas. She manages a Product Support portfolio of multiple EO/IR products for Rotary Wing platforms within Strategic Targeting Systems (STS).

During her 15 year tenure, Charisse was recognized by the Raytheon CEO for successful implementation of a Six Sigma initiation resulting in increased depot capacity; a collaborative effort within a Public Private Partnership at FRC-SE. She was also a patent owner in 2008.

Before joining Raytheon, Charisse was with American Express Company in New York City.

Ex-Officio of the AIA Product Support Committee



Mr. Mike Kelly

Director, Sustainment Innovation & Operations

Lockheed Martin Aeronautics Company

Mike Kelly is the Director of Global Asset Management within the Sustainment Innovation and Operations team at Lockheed Martin Aeronautics. In this role, he leads a portfolio of development activities delivering sustainment capabilities across the Aeronautics portfolio with a focus on Global Asset Management and MRO&U. Mr. Kelly joined Lockheed Martin in 2018 after serving in a variety of senior sustainment roles with Northrop Grumman Aerospace Systems, to include the Director of Analytics and Process Excellence and the Product Support Director for High Altitude Long Endurance (HALE) platforms.

Prior to joining industry, Mr. Kelly served in the U.S. Navy for 28 years as an Aerospace Maintenance Duty Officer, retiring at the rank of Captain. During his Navy career Mike's assignments ranged from managing maintenance in two carrier-based A-7E attack squadrons and two major shore facilities, deploying aboard four aircraft carriers, transforming Naval Aviation's logistics IT systems, and commanding the Navy's largest airframe depot--Fleet Readiness Center Southwest. Mike concluded his uniformed career as the Assistant Chief of Staff/Force Material Officer for Commander Naval Air Forces.

Mike attended Tulane University in New Orleans and graduated with a Bachelor of Science in Chemical Engineering. He also earned a Master of Science in Information Technology Management from the Naval Postgraduate School. Mike is also a designated Navy Professional Aerospace Maintenance Officer, the recipient of the CNO's Captain Virgil Lemmon award for Naval Aviation Maintenance Excellence, and an Aviation Week Laureate Award nominee in 2011 for his work as leader of Team Tomodachi.

AIA Policy Subcommittee Chair



Aaron-Paul Camele
Senior Business Development Manager
for Military Readiness and Sustainment
Bell



Aaron-Paul Camele is the Senior Business Development Manager for Military Readiness and Sustainment for the AH-1Z Viper, UH-1Y Venom and MV-22 Osprey. In this role he is responsible for coordinating with US Government Agencies and Departments such as the Department of Defense, the Department of State, the Department of Commerce the Defense Security Cooperation Agency as well as corporate partners.

Prior to joining Bell Helicopter, Aaron worked for Logistics Management Institute directly supporting the Assistant Secretary of Defense for Maintenance Policy and Programs. In this role, Aaron reviewed and advised the Assistant Secretary on Department of Defense maintenance policy such as Depot Source of Repair, Core Workload, Performance Based Logistics and Life-Cycle Sustainment Plans.

Aaron started his U.S. Marine Corps career as an AH-1W pilot and later qualified in the AH-1Z. His experience also includes the UH-1Y, MV-22 and several other types of helicopter, turbo-prop, and fighter/attack aircraft. He achieved all operational and flight leadership qualifications and was designated a Weapons and Tactics Instructor by Marine Aviation Weapons and Training Squadron One and an Aviation Safety Officer through the Naval Post Graduate School serving in multiple operational and staff billets on multiple deployments. Aaron is also an Aviation Acquisition Professional certified in Program Management and Production, Quality and Manufacturing has served as the Director of Operations at Fleet Readiness Center-East and as the Commanding Officer of both DCMA Japan and DCMA Bell Helicopter.

Aaron earned a Masters Degree in Operational Art and Science from the Air Force Command and Staff College and a Bachelors Degree from the University of South Carolina in Government and International Studies.

AIA Policy Subcommittee Vice Chair



GENERAL DYNAMICS
Mission Systems

Mr. Edward Melendez
Logistics Engineering Lead
General Dynamics Mission Systems

Edward Melendez is a Logistics Analyst on the Tactical Airspace Integration System (TAIS) Performance Based Logistics (PBL) program. Mr. Melendez has over 14 years of experience with the Air Force and 12 years in industry. His expertise includes DoD logistics and is a technical SME on aviation systems. Mr. Melendez led the award winning submittal of the Army Aviation Association of America (Quad-A) 2013 Army Aviation Materiel Readiness Award for a Contribution by a Major Contractor by the TAIS PBL program. Mr. Melendez excels in maximizing efficiencies through planning, coordinating, focusing on details, taking initiative, and resolving problems before problems exist. While working for General Dynamics, Mr. Melendez is still in the active Air Force Reserves supporting the C-130 Hercules at Maxwell AFB. He holds an Associates of Science in Avionic Systems and Technology from the Community College of the Air Force and is actively pursuing his Bachelor of Science in Business Administration at Grantham University. Mr. Melendez is currently in his 7th year with General Dynamics.

Member at Large of the AIA PSC



Mr. Pushpa Merchant
Sr. Vice President & General Manager,
Information Management Solutions
EPS Corporation



Mr. Merchant is an entrepreneur who successfully started and operated a consulting business for 17 years. He has also advised other entrepreneurs with starting their businesses. His expertise in the technical, managerial, and business development functions of a business makes him a unique asset to any company.

Until his company's acquisition in 2013, he was President/CEO of PBM Associates, an information management solutions consulting firm that primarily provided services to the aerospace and defense sectors. In his current position as Sr. Vice President & General Manager of EPS Corporation's Information Management Solutions division, he is responsible for the division's performance and growth.

He has over 29 years of experience in the design and implementation of SGML/XML-based content management and delivery applications. Pushpa is a recognized Subject Matter Expert on Interactive Electronic Technical Manual (IETM) design and implementation, and on information management applications.

He is the current Chair of the United States Specification Management Group (USSMG) and Vice-Chair of the S1000D Steering Committee (SC).

Member at Large of the AIA PSC



Mr. D. Brian Cronauer
Director, for Whole Life Engineering Solutions
Raytheon Company



D. Brian Cronauer is Center Director for Whole Life Engineering at Raytheon Space and Airborne Systems (SAS) in McKinney, Texas. Brian has responsibility for the strategic direction and leadership of Whole Life Engineering, the development and growth of the center and the financial performance to meet the SAS business plan.

Before assuming his current role, Cronauer was the Department Manager for Life Cycle Engineering. He also was a member of the NGJ program capture team and lead the Whole Life Engineering IPT upon award

Prior to joining the Raytheon Company, Brian was with the Boeing Company for more than 11 years. He held multiple leadership roles in Whole Life Engineering and new business capture on the F/A-18, V-22, CH-47, and the Ground-based Midcourse Defense (GMD) Missile Programs.

Cronauer is a United States Marine, serving 13 years in Marine Corps Aviation on the F/A-18, C-130, and Gulfstream III aircraft platforms as a maintainer and Flight Engineer for the Commandant of the Marine Corps, Chief of Naval Operations (CNO) and Secretary of the Navy.

Cronauer has been with Raytheon Company since September 2008, he graduated from Wilmington University, Delaware with a Bachelor's of Science in Aeronautics and a Master of Science in Organizational Leadership.

Chair of the AIA Standards Subcommittee



Mr. Paul Haslam

Principal S1000D & S-Series ILS Specifications Expert

O'NEIL & ASSOCIATES, INC.

Paul has been involved with the production and maintenance of S1000D since 1998 and is currently the Aerospace Industries of America (AIA) industry representative, fulfilling the role of Vice Secretary, on the S1000D Council. He is also Chairman of the S1000D Production and Publishing Working Group (PPWG), which is responsible for the editing and final publishing of S1000D. He is also an active member on various task teams that have been established by the S1000D Steering Committee. Paul is the AIA industry representative on the S-Series ILS Council, currently fulfilling the role of Chairman. He has been involved with the production of the S-Series since 2013, fulfilling the role of Editor-in-Chief and publisher. Paul is a member of the AIA Product Support Executive Board (PSEB), fulfilling the role of Chairman of the Specifications and Standards Sub-Committee, which is focused on ensuring US requirements, practices and processes are taken into account in the maintenance of the S-Series ILS specifications, and gaining acceptance and implementation of the S-Series ILS specifications in the USA at all levels from the Pentagon down.

Vice Chair of the AIA Standards Subcommittee



Mr. James Halpern
C-17 Provisioning/Cataloging/IPB
The Boeing Company



James Halpern is a Boeing Designated Expert for Provisioning and the Manager of the Provisioning & Cataloging group on the C-17 Program based in Long Beach, California. Under the auspice of the Aerospace Industries Association, James is Boeing's representative and Chairman of the S3000L Steering Committee responsible for the development of the international specification for In-Service Logistic Support Analysis.

Staff Director, AIA Product Support Committee



Mr. Gery Mras
Director, Lifecycle Management
Aerospace Industries Association



Gery Mras is the Director of Life Cycle Management at the Aerospace Industries Association. Reporting to AIA's Technical Operations & Standards division, Mr. Mras manages the activities of the AIA Engineering Management Committee, Product Support Committee, Quality Assurance Committee, Counterfeit Parts Policy Working Group, DCMA/ IAQG Joint Strategic Quality Council and is the Secretary of the S1000D International Council. He represents approximately 360 AIA member companies on technical issues to ensure the Aerospace & Defense Industry remains resilient in an ever changing global market economy.

Mr. Mras joined AIA in 2013 after acquiring 25 years of experience working in the aerospace business. Assuming the responsibilities of a Product Development Manager, he's been credited for the life cycle development and deployment of multiple military flight simulators, weapons tactics and electronic warfare training systems. Mr. Mras held several engineering management positions, supported new business pursuits, evaluated and on-boarded enterprise business solutions and contributed to various LEAN blackbelt events.

Mr. Mras received a bachelor's degree in Mechanical Engineering from the Rochester Institute of Technology and completed continuing education courses at George Washington University specializing in the area of optics and optomechanics.



Product Support Executive Board Contact Information

Name	PSEB Member Title	Company	Phone Number	Email Address
Mr. Gery Mras	PSC Staff Director	Aerospace Industries Association	(703) 358-1065	gery.mras@aia-aerospace.org
Mr. James R Rentsch	TOC Staff Director	Aerospace Industries Association	(703) 358-1054	rusty.rentsch@aia-aerospace.org
Mr. Joseph Spruill	Chair	Lockheed Martin Corporation	(703) 251-7256	joseph.spruill@lmco.com
Ms. Charisse McLorren	Vice Chair	Raytheon Company	(972) 344-3878	charisse_a_mclorren@raytheon.com
Dr. Richard Gomez	Member at Large	The Boeing Company	(714) 896-4547	richard.a.gomez@boeing.com
Mr. Jamie Halpern	Vice Chair- ILS Specifications Subcommittee	The Boeing Company	(714) 896-4154	jamie.s.halpern@boeing.com
Mr. Aaron Paul Camele	Chair Policy Subcommittee	Bell	(817) 280-7019	acamele@bellflight.com
Mr. Pushpa Merchant	Member at Large	EPS Corporation	(732) 747-8277	pushpa.merchant@epscorp.com
Mr. Dale Vinson	Ex-Officio	General Atomics Aeronautical Systems, Inc.	(858) 525-6692	dale.vinson@ga-asi.com
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Mr. Paul Haslam	Chair- ILS Specifications Subcommittee	O'Neil & Associates, Inc.	(937) 865-0846 EXT 3633	phaslam@oneil.com
Mr. Brian Cronauer	Member at Large	Raytheon Company	(214) 697-5412	brian.cronauer@raytheon.com