2012 Department of Defense Maintenance Symposium & Exhibition

Leadership in Producing Readiness and Shaping the Industrial Base

November 13-16, 2012
DeVos Place Convention Center
Grand Rapids, Michigan, USA

FEATURED SPEAKERS INCLUDE:

- General Janet Wolfenbarger, USAF
  Commander, Air Force Materiel Command
- Lieutenant General William M. Faulkner, USMC
  Deputy Commandant, Installations and Logistics
- Colonel Tom Miller, USAF, Deputy Commander for Maintenance, Ogden ALC
- Mr. Sean O’Keefe, Chairman and CEO, EADS North America

This event has been reviewed and approved by DoD and accordingly meets departmental guidelines for attendance by all Services, Agencies, and Industry.

Preliminary Program

Administered by SAE International for the U.S. Department of Defense
An Invitation from Mr. John Johns, Deputy Assistant Secretary of Defense (Maintenance)

The DoD maintenance community, along with our nation, is in a new era – an era shaped as much by economic realities as by national defense requirements. How we, as a community, respond to the major forces shaping this era – including emergent threats, evolving scenarios and strategies, and economic constraints – is crucial.

The DoD maintenance community has routinely delivered excellence and ensured our nation's warfighters were able to respond effectively to every contingency. In this changing environment, we must recognize that efficiency in our operations is as essential as maintenance capabilities or capacity. As maintainers, we must ensure that our business practices are the very best that government and the commercial industry has to offer. To get there, sharing best practices and lessons learned while fostering public/private partnerships is absolutely critical in the coming years. Each and every attendee at this year's Maintenance Symposium has the ability to affect how our community does business and, therefore, an opportunity to make contributions directly to our national defense. Our agenda is structured to frame the policy, resourcing, process, and technology issues that can make a profound impact, including:

- Maintenance implications for Warfighter readiness
- Resource realities across the maintenance enterprise
- Technology as a maintenance efficiency multiplier
- Multi-dimensional industrial base integration and cooperation.

The Senior Logisticians’ Roundtable will provide attendees the opportunity to absorb invaluable information and viewpoints that shape our enterprise. Keynotes by General Janet C. Wolfenbarger, USAF Commander, Air Force Materiel Command, Mr. Sean O'Keefe, Chairman and CEO of EADS North America, Lieutenant General William M. Faulkner, USMC Deputy Commandant, Installations and Logistics, and Colonel Tom Miller, USAF, Deputy Commander for Maintenance, Ogden ALC will provide senior-level perspectives on current issues and initiatives that warrant our focused attention. Plenary panels of our senior leaders will discuss approaches to accommodate reduced resources and potential efficiency opportunities and as a result, help shape our industrial base for decades to come.

And, as we do each year, we will also recognize the best maintenance units in the Department of Defense with the presentation of the Secretary of Defense Maintenance Awards, the highest award for maintenance within DoD. The awards banquet is our opportunity to honor the award winners for their achievements.

The DoD Maintenance Symposium & Exhibition is the premier annual event for all defense maintainers. I encourage you to take advantage of the perfect opportunity to participate, collaborate, educate, and shape the ideas and actions that will lead our maintenance community into the future.
WHAT TO EXPECT

Session Keynotes:
- General Janet Wolfenbarger, USAF Commander, Air Force Materiel Command
- Lieutenant General William M. Faulkner, USMC Deputy Commandant, Installations and Logistics
- Colonel Tom Miller, USAF, Deputy Commander for Maintenance, Ogden ALC
- Mr. Sean O'Keefe, Chairman and CEO, EADS North America

Plenary Session Panels:
- Perspectives on Depot Maintenance Legislation
- Senior Logisticians' Roundtable
- Developing an Affordable Industrial Base Strategy

Symposium Breakout Topics:
- Depot Activation and the Interaction of Acquisition and Maintenance
- Supply Effectiveness – Evolving Support of Depot Maintenance Requirements
- Next Generation Continuous Process Improvement
- Field Maintenance Efficiencies
- Depot Maintenance Requirements Determination
- Joint Sustainment Planning for Weapon Systems
- Evolving Maintenance Metrics
- Cutting Edge Maintenance Technologies
- Managing Health & Safety in Depot Maintenance
- CBM+: Practitioner's Guide to Implementing a Successful Program
- Understanding the Cost of Corrosion
- Software Maintenance Growth/Opportunities and Challenges
- Maintenance Abroad
- Improving Partnerships Through Collaboration

Special Events:
- 2012 Great Ideas Competition
- Military Service Town Hall Meetings
- Secretary of Defense Maintenance Awards Banquet
- Industrial Tours

The Exhibit Hall:
- Over 110 Exhibitors—see page 18 for a current list
- "Best in Show" Booth Award

WHO SHOULD ATTEND?

- Government and industry maintenance managers of all ranks and levels
- Defense logistics and resource managers
- Military and civilian maintainers, including executives, supervisors, technicians, and international counterparts
- Program managers involved in life-cycle support and product support
- Production, process, and information systems specialists
- Researchers and product development representatives
- Commercial maintainers and product support providers
- Original equipment manufacturers (OEMs)
- Engineers – maintenance, in-service, and process/industrial professionals who contribute to effective DoD maintenance operations

SAE International would like to thank the following supporters:

Neither the Department of Defense nor any of its components endorse the non-federal entities listed above or any products or services of such entities.
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<td>7:00 AM Registration Opens Continental Breakfast</td>
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<td><strong>Morning</strong></td>
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<td>8:00 - 9:30 AM Great Ideas Next Generation CPI</td>
<td>8:00 - 9:30 AM Plenary Session OSD Opening Government Keynote Depot Maintenance Legislation</td>
<td>8:00 - 9:30 AM Plenary Session OSD Opening Government Keynote Senior Log Panel Developing an Affordable Industrial Base Strategy</td>
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<td>9:45 - 11:15 AM Depot Activation &amp; Interaction of Acq and Mx CBM+: Practitioners’ Guide to a Successful Program</td>
<td>10:00 AM Meetings and Tours GE Aviation Grand Rapids, MI Eaton Aerospace Grand Rapids, MI L3 Combat Propulsion Systems Muskegon, MI</td>
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<td><strong>Afternoon</strong></td>
<td>3:00 - 6:00 PM Early Registration</td>
<td>11:15 AM - 12:15 PM Networking Lunch</td>
<td>11:30 AM - 1:45 PM Buffet Lunch in Exhibit Hall 2:00 - 4:00 PM Cutting Edge Maintenance Technologies Understanding the Cost of Corrosion Maintenance Abroad</td>
<td>11:30 AM - 2:15 PM Buffet Lunch in Exhibit Hall 2:30 - 4:00 PM Field Maintenance Efficiencies Supply Effectiveness - Evolving Support of Depot Mx Improving Partnerships through Collaboration</td>
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<td>12:30 - 2:00 PM Software Maintenance Growth Evolving Mx Metrics Maintenance Health &amp; Safety</td>
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<td>2:15 - 3:45 PM Depot Mx Requirements Joint Sustainment Planning for Weapon Systems</td>
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<td>4:00 PM Exhibit Hall Open</td>
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<td><strong>Evening</strong></td>
<td>6:30 - 8:30 PM Exhibitor Only Reception</td>
<td>4:30 - 6:00 PM Reception</td>
<td>4:30 - 6:00 PM Reception</td>
<td>6:00 - 7:00 PM SecDef Maintenance Awards Reception</td>
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<td>7:00 PM Exhibit Hall Closes</td>
<td>7:00 PM Exhibit Hall Closes</td>
<td>7:00 - 9:30 PM SecDef Maintenance Awards Banquet</td>
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**Key:**
- Technical Session
- Breakout Session
- Meeting
- Plenary Session
- Tour/Off-site Event
- Award Event
- Exhibit Hall Open
Perspectives on Depot Maintenance Legislation

Objective: Describe the Title 10 legislative framework underlying DoD depot maintenance policy, clarify these requirements, address common misconceptions, and present perspectives from key stakeholders. Highlight the 2012 NDAA legislative changes that affect depot level maintenance and share DoD’s implementation guidance.

Abstract: DoD depot maintenance policy and, to some extent, depot maintenance operations are underpinned by a legislative framework established in Title 10 of the United States Code.

Understanding this legislation is essential to gaining an appreciation of the Department's depot maintenance policies, management, and use of public and private sector capabilities. This informative session will outline the legislation related to depot maintenance and explore FY 2012 Title 10 changes that affected the framework.

Key stakeholders will share their perspectives on the current legislation and DoD’s implementation guidance, as well as provide insight as to impacts of the revised statutes on their communities. Specific legislation to be addressed will include the definition of depot-level maintenance (10 USC 2460), Core requirements (10 USC 2464) and the maximum level of private sector support, i.e., the 50-50 statute (10 USC 2466). This plenary session will include an opportunity for attendees to engage directly with the panel experts.

Moderator:
Mr. John Johns, Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

Panelists:
Ms. Lisha Adams, Deputy Chief of Staff, G-4 for Logistics Integration, Army Materiel Command
Mr. Dennis West, Deputy Commander, Fleet Readiness Centers
Mr. Peter Levine, General Counsel, Senate Armed Services Committee
Ms. Corey Battistoni, Director of Maintenance Policy, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense
Mr. Lou Kratz, Chairman, Logistics Management Division, National Defense Industrial Association
Ms. Sheila McCready, Defense Consultant, American Federation of Government Employees
Senior Logisticians’ Roundtable

Abstract: This interactive forum features the senior general and flag logistics officers from each of the Military Services, United States Coast Guard, Joint Staff, and the Defense Logistics Agency. It provides an excellent opportunity for the audience to directly pose a wide variety of questions concerning all aspects of Defense Maintenance to the most senior military logisticians. The session is largely Q&A.

Mr. John Johns, Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

MG Michael Lally, USA, Assistant Deputy Chief of Staff, G-4, Operations, U.S. Army

Maj Gen John Cooper, USAF, Director of Logistics, Deputy Chief of Staff for Logistics, Installations and Mission Support, U.S. Air Force

RADM Ronald Rabago, USCG, Assistant Commandant for Engineering and Logistics (CG-4), U.S. Coast Guard

RDML Timothy Matthews, USN, Director, Fleet Readiness, U.S. Navy

BGen John Broadmeadow, USMC, 1st Marines Logistics Group, U.S. Marine Corps

BGen Craig Crenshaw, USMC, Vice Director for Logistics, Joint Staff

COL (P) Francisco Espaillat, USA, Executive Director, Operations & Sustainment, Defense Logistics Agency
Developing an Affordable Industrial Base

Objective: Explore novel industrial base strategies from important perspectives in light of a new era of frugality.

Abstract: The Department of Defense consumes roughly half of our country’s discretionary spending. Pressures on this investment are rising as supplemental appropriations decrease, automatic budget cuts loom, and deficit reduction imperatives drive our national agenda. In this environment, the role and size of government will be questioned, and our maintenance leadership must provide proper stewardship of the DoD industrial base. A key aspect of proper stewardship is affordability – and it will need to be considered much more seriously in today’s setting because potential cutbacks will mean real reductions in what have historically been treated as ordinary “operating costs” of programs and operations. This dynamic presents some difficult challenges for an industrial base approach that has historically valued other qualities, such as stability, responsiveness, and effectiveness.

Key leaders will offer perspectives and viewpoints on what key considerations should drive responsible DoD industrial base management given “clear and present” affordability pressures. A model strategic industrial base framework will guide the interaction and encourage participation and healthy criticism.

Moderator:
Mr. Ross Marshall, USAF, Executive Director, Air Force Sustainment Center, AFMC

Panelists:
MG Michael Terry, USA, Commanding General, U.S. Army TACOM Life Cycle Management Command
Mr. Al Coulter, Deputy for Logistics Plans, Policies and Strategic Mobility Division, Installations and Logistics, Headquarters, U.S. Marine Corps
Mr. Jim O’Neill, Vice President/General Manager, Integrated Logistics, The Boeing Company
Mr. Mike Madsen, President of Defense & Space, Honeywell Aerospace
Depot Activation and the Interaction of Acquisition and Maintenance

Objective: Provide real examples of the interaction of acquisition (program offices) and maintenance (organic depots) during depot activation in support of core decisions; identify actions necessary to improve synchronization of acquisition and maintenance efforts.

Abstract: One of the NDAA 322 study findings was the need for better coordination of acquisition decisions and subsequent maintenance outcomes. For example, an initial Program Office decision to rely on Contractor Logistics Support (CLS) for the life of a major platform can leave organic maintenance depots poorly prepared to accept part or all of that workload if the CLS contract is subsequently modified or cancelled. Delays in the identification of core requirements and sustaining workloads can negatively affect organic depot stand-up and lead to unnecessary costs. The recently revised Title 10 USC 2366a and 2366b direct DoD to make early, public announcements of core maintenance requirements for major weapon system programs. Based on recent examples of interactions between program offices and organic depots engaged in depot activation, this session will explore ways for the two communities to better coordinate future efforts.

Moderator:
Mr. John Johns, Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

Speakers:
Mr. Brian Burks, Chief, Maintenance and Supply Requirements Division, Directorate of Logistics, Air Force Sustainment Center

Mr. Craig Carson, Logistics Director/Product Support Manager for PM Ground Combat Vehicle, PEO Ground Combat Systems

Mr. John Sutton, Director of Industrial Base Planning, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense
Supply Effectiveness – Evolving Support of Depot Maintenance Requirements

Objective: Discuss supply support of depot maintenance requirements, including current supply initiatives and effectiveness metrics, from the perspectives of both the supply and depot maintenance communities.

Abstract: For years, the lament of maintainers has been “If they would just give me the parts, I could fix it.” And supply would say, “If maintenance told me what they need, I would give it to them.” The Base Realignment and Closure actions of 2005 mandated the consolidation of all inventories and supply, storage, and distribution functions at 13 DoD maintenance depot sites. The result was a realignment of responsibility for conducting these functions from Military Service industrial maintenance depots to DLA. This action enables DLA to now forecast requirements across a broader scope of customer needs, consolidating wholesale and retail expected demand rates and leveraging the DLA worldwide inventory to efficiently support the industrial maintenance sites. The supply community’s Strategic Network Optimization (SNO) initiative is focusing on optimizing the global distribution network, optimizing inventory, and consolidating warehouses across DoD. The envisioned outcome of SNO will be improved effectiveness of DoD-wide inventory and transportation nodes. However, managers in the maintenance depots continue to express concerns about out-of-stock conditions that inhibit production. Will implementation of the supply community initiatives alleviate maintenance concerns and provide increased depot maintenance efficiency? This panel will discuss the views of both communities and further examine the appropriate metrics that should be used for optimal supply support of depot maintenance requirements.

Moderator:
Mr. Paul Peters, Deputy Assistant Secretary of Defense for Supply Chain Integration, Office of the Secretary of Defense

Speakers:
Mr. Scott Reynolds, Deputy Assistant Secretary for Logistics Headquarters, U.S. Air Force
Mr. John Goodhart, Vice Commander, Naval Supply Systems Command
Mr. Mike Madden, Executive Director, USMC Logistics Command
COL (P) Francisco Espaillat, USA, Executive Director, Operations & Sustainment, Defense Logistics Agency
Mr. Steven St Johns, Deputy Executive Director, DLA Materiel Policy/Process/Assessment, Defense Logistics Agency
Next Generation Continuous Process Improvement

Objective: Present examples of taking CPI to the next level.

Abstract: Ever since the dawn of man, innovative thinkers have pursued ways to make survival possible, life better, work easier, and warfare more lethal. Inventions and adaptations of machines through history have served as a backdrop for process engineers to then improve the way we apply them. From Henry Ford's first assembly line in Michigan to Sakichi Toyoda's application of lean philosophy in Japan, enormous advances have been made in the application of technologies and processes to most effectively deliver business results. Like the automotive industry of the 20th Century, the US National Industrial Base of the 21st Century can be viewed as a virtual test bench for introduction of new technologies and process innovations to optimize production. Examples abound across this robust and diverse business in both Government and Commercial activities. These presentations will demonstrate how the infusion of technology coupled with the adaptation of industrial and business processes combine to produce "Next Generation Continuous Process Improvements" enhancing the effectiveness of Maintenance Repair and Overhaul (MRO) operations.

Moderator:
Mr. Van Noah, Program Director for the LOGTECH MBA, Institute for Defense and Business

Speakers:
COL Christopher Carlisle, USA, Commander, Corpus Christi Army Depot
Mr. Doug Keene, Vice Director, Warner Robins Air Logistics Complex
Mr. Stu Paul, Deputy, Aviation Fleet Readiness Branch, Chief of Naval Operations
Mr. Mike Denis, Vice President for Customer Engagement, InfoTrust Group

Field Maintenance Efficiencies

Objective: Provide insights into field maintenance enablers, benefits, challenges and lessons learned.

Abstract: Operational readiness is directly affected on a daily basis by the efforts of field maintainers. Product support managers and maintenance leaders are challenged to effectively resource field-level requirements so that maintenance can be executed in an efficient manner and operational readiness is ensured. The panelists, who include 2012 field level maintenance award winners, will discuss maintenance enablers, benefits, and challenges.

Moderator:
Mr. John Stankowski, Director of Maintenance Programs and Resources, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

Speakers:
Speakers will include representatives of the 2012 DoD Field Maintenance Award winners and the U.S. Coast Guard award winner.
Depot Maintenance Requirements Determination

Objective: Gain insight into each of the Military Service’s methods for determining funding required during budget development; identify common challenges and best practices; and discuss a framework for potential improvements.

Abstract: Each Service will present a short description of its processes, key players, models, risk strategies, or other elements of requirements determination used during the budget development to relate future materiel readiness levels demanded by the warfighter to associated depot maintenance requirements. Each Service has its own methods to determine, validate, and present overall depot maintenance requirements. The goal of these methods is to make the valid connection between a required level of performance in specific warfighting capability areas, the level of materiel readiness that will support that performance level, and the depot maintenance funding required. Panelists from each Service will describe the methods used to address these key challenges:

- Demonstrate relationship between required capabilities for war fighting and depot maintenance requirements and funding.
- Demonstrate how the Service determines the amount of risk to be taken, areas of risk, and mitigation strategies for these risks.
- Discuss the relationship between deferred maintenance projected in the budget with what actually occurs in practice.
- Demonstrate an ability to account for major factors influencing the accuracy of future year projections.

Panel discussion will compare and contrast these methods, discuss potential best practices, and highlight opportunities to enhance the argument for these critical resources. The break-out will build upon and leverage the interim results of the cross-cutting study on depot maintenance requirements development jointly sponsored by OSD AT&L and Director of Cost Assessment and Program Evaluation.

Moderator:
Ms. Dee Reardon, Deputy Director of Logistics, Deputy Chief of Staff for Logistics, Installations and Mission Support, Headquarters, U.S. Air Force

Speakers:
RDML Timothy Matthews, USN, Director, Fleet Readiness, Chief of Naval Operations
Mr. Chris Lowman, Director of Maintenance Policy, Programs, and Processes, Headquarters, U.S. Army
Mr. Mike Madden, Executive Director, USMC Logistics Command
Mr. Dennis Cooke, President of Global Fleet Management Solutions, Ryder Systems, Inc.
Joint Sustainment Planning for Weapon Systems

Objective: Discuss new and unique joint sustainment strategies for DoD weapon systems.

Abstract: The future logistics enterprise will have to function in an environment of constrained resources – money, personnel and infrastructure. In order to improve sustainment efficiencies/effectiveness, future approaches to weapon system planning and operations must leverage joint capabilities. During this session, senior leaders will share examples and ideas on how to optimize joint capabilities while maximizing readiness; and discuss how integrating maintenance to support the joint force commander can improve availability and reduce the logistics footprint. Come listen, discuss, and share your own great ideas; creative thinking is encouraged!

Moderator:
BGen Craig Crenshaw, USMC, Vice Director, J-4, Joint Staff

Speakers:
Mr. John Rooney, Joint MRAP Vehicle Program, JPO MRAP Technical Director

Group Captain Pete Grinsted, Deputy Director F-35 Logistics & Sustainment, F-35 Joint Program Office

Evolving Maintenance Metrics

Objective: Present results of various metric development efforts and the synchronization of those metric sets.

Abstract: Sustainment requirements are under increasing scrutiny in an era of declining budgets and shrinking force structure. Current metrics, such as materiel readiness, have proven ineffective in connecting resource requests to capability outcomes. New metric sets under development bridge the gap between resources and readiness requirements, for maintenance as well as companion metrics in related product support areas – moving toward alignment of effort to achieve common outcomes. The session will discuss the linkage between logistics metrics and warfighting capabilities, address how they might be applied, and discuss their impact on maintenance planning, execution, and program advocacy.

Moderator:
RDML Timothy Matthews, USN, Director, Fleet Readiness, Chief of Naval Operations

Speakers:
Mr. Jim Farmer, Reliability, Availability & Maintainability Analyst, Office of the Deputy Assistant Secretary of Defense for Materiel Readiness, Office of the Secretary of Defense

Mr. Paul Blackwell, Associate for Performance Management and Joint Supply Chain Architecture, Office of the Deputy Assistant Secretary of Defense for Supply Chain Integration, Office of the Secretary of Defense

Mr. Steve Morani, Deputy Chief, Maintenance Division, Directorate for Logistics, Joint Staff

Dr. Chien Huo, Senior Program Analyst, Cost Assessment and Program Evaluation Force & Infrastructure Analysis, Office of the Secretary of Defense

Lt Gen Don Wetekam, USAF (Ret), Senior Vice President, Government & Defense Business Development, AAR
Cutting Edge Maintenance Technologies

Objective: Showcase available or soon-to-be-available maintenance technologies that will significantly improve maintenance effectiveness and efficiency if widely adopted.

Abstract: Technology solution providers and DoD early adopters team to provide a quick, demonstrative presentation of the new capability and its potential to improve maintenance. Props and show-n-tell are encouraged. Question and answer time will be provided during each session and networking channels will be established between the audience and the presenters. This will be a high energy, interactive session.

Moderator:
Mr. Greg Kilchenstein, Director of Enterprise Maintenance Technology, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

Speakers:
Mr. Jim Baker, Chair, Army EFAC WIPT, U.S. Army Materiel Command
Mr. Pat Henning, Chief Technology Officer, Spectro
Mr. Sami Mansour, Director, 523 Electronic Maintenance Squadron
Mr. Brett Gardner, Senior Avionics Engineer, Fleet Readiness Center Southwest
Mr. Ken Anderson, Vice President of Sales & Business Development, Universal Synaptics
Mr. Filipe Mesquita, Materials Engineer, Fleet Readiness Center Southwest
Mr. Mike Gibbons, Manager of Control Systems Development, Perfect Point EDM
Dr. Dave Hansen, Director, 309th Maintenance Support Group, Hill AFB
Mr. James Mattern, NSRP Lead Systems Engineer, Naval Surface Warfare Center Carderock
Mr. Gary Shields, Director, Disruptive Technologies Lab, Naval Surface Warfare Center Carderock
Mr. David Huber, Director, Exoskeleton Programs, Lockheed Martin
Mr. Paul Kulowitch, NDI Engineer Team Leader, Naval Air Warfare Center, Patuxent River
Dr. Steven Shepard, Physicist and President, Thermal Wave Imaging
Managing Health & Safety in Depot Maintenance

Objective: Present a way forward for controlling safety and health risks while simultaneously improving depot maintenance performance.

Abstract: DoD maintenance depots have been challenged with demands for increases in efficiency in maintenance operations, while also facing the highest health and safety risks of any maintenance operations in DoD. The health risks include machining parts, applying coatings, and de-painting – all leading to exposures to cadmium, hexavalent chromium, and other hazardous materials. Managing the health risks is complicated by OSHA inspections. This panel session explores a new approach – managing the health and safety risks as a part of the maintenance manager’s overall operations management. Panel members identify high priority health and safety initiatives in the forefront of their operations and provide real-world success stories of maintenance operations that improved health and safety performance – with the discovery that these health and safety improvements also led to improvements in management-labor relations and overall productivity.

Moderator:
Col Tom Trumbull, USAF, Deputy, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

Speakers:
Mr. John Seibert, Assistant for Safety, Health & Fire, Office of the Deputy Under Secretary of Defense (Installations & Environment), Office of the Secretary of Defense
COL Charles Lassiter, USA, Commander, Red River Army Depot
CAPT Bryant Fuller, USN, Shipyard Commander, Portsmouth Naval Shipyard
Mr. David Askew, Safety Office, Corpus Christi Army Depot
Ms Sheila McCready, Defense Consultant, American Federation of Government Employees
Mr. Doug Keene, Vice Director, Warner Robins Air Logistics Complex
CBM+: Practitioner’s Guide to Implementing a Successful Program

Objective: Present the essential tenets, required processes and the programmatic considerations to successfully implement CBM+ into a new or existing sustainment strategy.

Abstract: Condition Based Maintenance Plus is a major initiative in the total life cycle systems management strategy for DoD to improve reliability and reduce sustainment costs. In concert with the other total life cycle system management enablers, such as continuous process improvement, cause and effect predictive modeling, and performance based logistics, CBM+ strives to optimize maintenance performed on weapon systems and improve key sustainment performance measures. Service and industry panelists will share insights on the building block processes, their relationships and the practical programmatic issues that are essential to CBM+ implementation. They will also challenge some traditional thinking on how the building blocks of CBM+, such as FMECA, RCM, and CBM, should be accomplished to develop a robust CBM+ program.

Moderator:
Mr. Greg Kilchenstein, Director of Enterprise Maintenance Technology, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

Speakers:
Mr. Chris Sautter, Associate Director for Reliability, Office for Enterprise Innovation and Sustainability, Reliability and Failure Analysis Lab Research Institute University of Alabama

Mr. J.C. Leverette, Vice President, Reliability, Maintainability, and Supportability Division, Andromeda Systems Inc

Mr. Sean Olin, NAVAIR Reliability Centered Maintenance National Lead, Fleet Readiness Center Southeast

Mr. Douglas Felker, Aviation Branch Chief, RAM Engineering and System Assessment Division, Aviation & Missile Research Development & Engineering Center, Redstone Arsenal

Ms. Kelly Navarra, Senior Systems Integration Engineer, Logistics Directorate, Air Force Materiel Command
Understanding the Cost of Corrosion

**Objective:** Provide an understanding of corrosion basics, the role of the DoD Corrosion Policy and Oversight Directorate, and explore the use of cost of corrosion data in maintenance planning.

**Abstract:** DoD must train and fight in all environments, including some of the most corrosively aggressive on Earth. Consequently, DoD assets are subject to significant degradation due to corrosion, with the cost of corrosion determined to be over $20 billion annually. The Department has been a leader in many areas of research, ranging from understanding the fundamentals of corrosion to applying advanced materials, coatings, inhibitors, and cathodic protection for corrosion control. The DoD Corrosion Policy and Oversight Directorate has developed an integrated program to mitigate the effects of corrosion on cost, availability, and safety of DoD assets. Part of that effort includes quantifying the direct cost of corrosion using maintenance data available from the Services. This panel will provide an overview of corrosion fundamentals, discuss details of the cost of corrosion analysis, and explore potential uses of the resulting data in maintenance planning and decision making.

**Moderator:**
Mr. Rich Hays, Deputy Director, Corrosion Policy and Oversight, Office of the Under Secretary of Defense (Acquisition, Technology & Logistics)

**Speakers:**
- Mr. Dail Thomas, Senior Technical Advisor, SAIC
- Mr. Carl Perazzola, Senior Technical Program Manager, Air Force Corrosion Prevention and Control Office
- Mr. Matt Koch, Program Manager, Marine Corps Systems Command Corrosion Prevention and Control
- Mr. Eric Herzberg, Senior Consultant, Maintenance & Readiness Management, LMI
Software Maintenance Growth: Opportunities and Challenges

Objective: Discuss the increasing role of software maintenance in DoD as a major factor in modern weapon systems sustainment activity, addressing the uncertainty of the requirement and the growing demand.

Abstract: Software is a large and growing element in modern weapon system development and sustainment, but it is fraught with a range of issues that extend from the way it is funded to where it is developed and sustained between the organic and commercial sectors. Software, as the fundamental enabler for many advanced technological capabilities, is growing in both size and importance. Many emerging weapon system capabilities are software-driven, and the proportion of software-enabled functions is nearing 100 percent of the capabilities that make up fully integrated weapon systems. The line between what is considered software acquisition and software maintenance and sustainment is often blurred. Software maintenance is not managed or funded in a similar manner across the Services. Due to the rapid growth of software intensive systems, DoD faces numerous challenges related to the definition, governing policy, organization, and management of software maintenance and sustainment. This panel will provide insight on meeting the challenges of managing software maintenance and sustainment in DoD.

Moderator:
Mr. Scott Reynolds, Deputy Assistant Secretary for Logistics, Headquarters, U.S. Air Force

Speakers:
Mr. Steve Michaluk, Director of Maintenance Support, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

Mr. Verle Johnson, F-22 Chief Avionics Engineer, Air Force Materiel Command

Mr. Ned Keeler, Director, Software Engineering Center, U.S. Army Material Command, Communications Electronics Command

Mr. Michael McLendon, Associate Director, Interagency Acquisition, Software Engineering Institute, Carnegie Mellon University
Maintenance Abroad

Objective: Discuss the benefits, successful strategies, and unique maintenance challenges of doing maintenance abroad. Explain the roles of maintenance abroad versus deployable maintenance and their linkage back to CONUS operations.

Abstract: Maintenance abroad/OCONUS maintenance capabilities can be an economical element of DoD’s industrial base portfolio by avoiding second destination transportation costs and taking advantage of lower repair costs. Other advantages can include more economical manpower costs and logistics cost sharing. By special repair authority, limited depot-level maintenance and refurbishment is being performed in various OCONUS locations. Maintenance abroad can also be a challenge that requires extensive use of contract personnel and facilities that introduce unique challenges. Panel members will include expeditionary maintenance managers and senior managers from OCONUS maintenance facilities, as well as Iraq and Afghanistan.

Moderator:
Mr. Guy Beougher, Deputy G4, U.S. Army Forces Command

Speakers:
Mr. Helmut Haufe, General Manager, Theater Logistics Support Center - Europe
Mr. Gale Winchester, Deputy to the Commander, U.S. Army Materiel Support Center-Korea
MG James Myles, USA (Ret), Vice President, Aviation Group, DynCorp International
Improving Partnerships through Collaboration

**Objective:** Present report on a cross-service / industry PPP workshop.

**Abstract:** The first annual OSD-AIA PPP Workshop took place 21 – 23 August 2012 in Layton, Utah. The purpose of this Workshop was to initiate process improvement projects aimed at enhancing collaborative public-private product support to our warfighters. The Product Support Assessment Team (PSAT) Industrial Integration IPT served as steering committee for this initiative, and OSD (MP&P) facilitated and coordinated with support from a team of black belts from the Military Services and industry. The cadre of functional and technical leaders who supported this workshop will present a review of the proceedings, its objectives, approach and results, and the ongoing activities that were initiated by this event.

**Moderator:**
Mr. John Sutton, Director of Industrial Base Planning, Office of the Deputy Assistant Secretary of Defense for Maintenance, Office of the Secretary of Defense

**Speakers:**
Mr. Greg Dierker, Business Integration Office, USAF Public-Private Partnerships, Air Force Materiel Command
Ms. Kathy Harvey, Director, Contracting Support Office, Army Materiel Command
Mr. Jeb Lynn, Director, PwC
Mr. Gil Diaz, Senior Manager, Business Development, Raytheon Corporate Business Development
Mr. Joe Fengler, Director, Military Sustainment and Industrial Policy, Honeywell International
Mr. Dan Cernoch, Senior Manager, Logistics & Sustainment, Lockheed Martin, Corporate Engineering & Technology
Mr. Jeffrey Heron, Director, PBL Policy, Naval Air Systems Command
The exhibit hall sells out every year, so take the time to visit the show floor and hear about the latest innovations, exchange ideas and solutions, and much more!

Check out the current list of exhibitors as of September 20, 2012, with more added every day.

3M Defense
A2B Tracking Solutions
ACES Dynamic Instruments
ADS Inc
Advanced Torque Products
Aerowing Inc
Almond Products Inc
American Federation of Gov. Employees
American Industries Inc
American Trainco
AMSSA
Andromeda Systems Incorporated
Aniston Army Depot
ARNCO
Av-DEC
Aviall
Aviation Turbines Intl
Avion Solutions Inc
Axon Cable Inc
Boeing
CACI
CDG, A Boeing Company
Chemsol
Cherokee Information Services Inc
Clarus Technologies, LLC
Cleartspan Fabric Structures
Cobham Life Support
CribMaster
Defense Logistics Agency
DG Technologies
Diagnosys
EnerSys
Ericson Manufacturing Co
Flexible Lifeline Systems Inc
Fontaine Military Products
Georgian Aerospace Group Inc
Herndon Products Inc
Huntron Inc
HVF West LLC
Hydratight
ID Integration Inc
Impact Technologies, A Sikorsky Innovations Co
Infor Public Sector
Institute For Defense and Business
Intergraph Government Solutions
Intermec
Joint ALC
Kardex Remstar
Kipper Tool Company
Kolene Corp
Letterkenny Army Depot
LMI
Lockheed Martin
Logis-Tech Inc.
Lowry Computer Products
Mantech International Corp
Marine Corps Logistics Command
MDS Coating Technologies Corp
Midtronics
Military Logistics Forum
National Center for Mfg Sciences
National Standard Parts Associates, Inc.
NAVSEA Division Keyport
New World Technologies Inc
NGRAIN
Northrop Grumman
ONEIL
Optima Batteries
Oracle
Palmer Johnson Power Systems
Partsmaster
PD TMDE
Penn State University
Phillips Screw Co
PM SKOT
Power Test Inc.
Pratt & Whitney
Protex Fasteners Ltd
PulseTech Products Corporation
Radley Corporation
Raytheon EO Innovations
Red River Army Depot
RedViking Engineering
RF System Lab
Robbins Gnia LC
R-O-M Corporation
RUD Chain Inc
Safety-Kleen Systems, Inc.
SAIC
SPX Service Solutions
StandardAero
Stertil-Koni
Tecmotiv (USA) Inc.
Thermal Wave Imaging
Tobyhanna Army Depot
Transhield Inc
Universal Synaptics
USA SHADE & Fabric Structures
VT Miltope
WireMasters, Inc.
Witte America
WW Williams Logistics
Wyle
Zebra Technologies

Visit www.sae.org/dod for a current list as exhibitors are added to the show floor.

Exhibit Hours:

Tuesday, November 13: 4:00 p.m. – 7:00 p.m.
Wednesday, November 14: 11:30 a.m. – 1:45 p.m. & 4:00 p.m. – 7:00 p.m.
Thursday, November 15: 11:30 a.m. – 2:15 p.m.

Exhibitors—sign up for space today!

As an exhibitor, you will interact with approximately 800 attendees from the DoD maintenance community. For full details on exhibit space, corporate packages, and advertising opportunities, please visit www.sae.org/dod.

Secure your position on the exhibit hall floor—reserve your space today!

To exhibit, support, or advertise, please contact Arlene DiSilvio:

Toll-free, US & Canada: 1-888-875-3976
Telephone: 1-724-772-4060
Fax: 724-776-4026
Email: disilvio@sae.org
Great Ideas Competition
Tuesday, November 13 • 8:00 a.m.

The Great Ideas Competition provides a forum for the sharing of new ideas relative to maintenance technologies and processes, and through audience vote, selection of the 2012 Great Ideas winner.

Six finalists will be selected from all eligible Great Idea submissions. These finalists will highlight their promising new technologies, processes, or business practices to the Symposium audience. Each presenter will have 15 minutes to make the case as to why they should be chosen as the best of the Great Ideas participants. Following all Great Ideas presentations, a winner will be selected through audience vote. Plan now to be a part of the final selection process and help determine the 2012 Great Ideas winner.

2012 Great Ideas Competition Finalists:

- Collective Mind: Early Warnings of Systematic Failures of Equipment
  Mr. Arthur Dubrawski, Auton Lab, Carnegie Mellon University
- FRITA: Fastener Removal Improvement Technology Adoption
  Mr. Michael Gibbons, Perfect Point, Inc.
- IFDIS – Expanding Role within the DoD Maintenance Enterprise
  Mr. Ken Anderson, Universal Synaptics Corp.
- Improving the Benefits of Maintenance Effectiveness Reviews
  Messrs. Nick Frankle, Andy Hess, Chris Stecki, Frontier Technology Inc.
- Light Guide Systems by OPS Solutions
  Mr. Paul Ryznar, OPS Solutions
- Miniature Vacuum for Fluid and Debris Removal
  Mr. David Clark, Aging Aircraft Consulting LLC

2011 Great Ideas Competition Winner:
Advanced Tooling Corporation
Secretary of Defense Maintenance Awards Reception and Banquet
Thursday, November 15 • 6:00 p.m.

Annually, the Secretary of Defense Maintenance Awards honor the “best of the best” within the DoD maintenance community. A team of senior maintenance leaders from OSD and across the Military Services selects the top six field-level military maintenance organizations from active and reserve units worldwide.

Of the six winning units, one is selected as the top maintenance unit for the year and receives DoD’s highest field-level maintenance award, the Phoenix Trophy.

Also awarded as the pinnacle of depot maintenance achievement and recognition is the Robert T. Mason Award for Depot Maintenance Excellence.

Military Service Town Hall Meetings
Thursday, November 15 • 4:15 p.m.

Each of the Military Services’ senior logisticians will conduct a Service-specific town hall meeting. This is a very unique opportunity for you to be involved in a dialogue with the most senior logisticians in a small group setting. Attend and bring your specific issues and perspectives for discussion.
Industrial Tours
Friday, November 16 at 10:00 a.m.
These tours are a great way to wrap up the symposium on Friday, and details are coming soon! As information becomes available, it will be posted online at www.sae.org/dod, where you can also register for the tours, so bookmark this page and check back often!

GE Aviation
Grand Rapids, MI

Eaton Aerospace
Grand Rapids, MI

L3 Combat Propulsion Systems
Muskegon, MI
**To Register:**
Pre-registration/Cancellation Deadline: October 26, 2012

**Registration Categories and Fees**

<table>
<thead>
<tr>
<th>Category</th>
<th>By 10/26/12</th>
<th>After 10/26/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry Registrant <em>(includes registration package 1)</em></td>
<td>$895</td>
<td>$995</td>
</tr>
<tr>
<td>Government Employee <em>(includes registration package 1)</em></td>
<td>$595</td>
<td>$695</td>
</tr>
<tr>
<td>Military 0-4 &amp; Above <em>(includes registration package 1)</em></td>
<td>$595</td>
<td>$695</td>
</tr>
<tr>
<td>Mil 0-1 to Mil 0-3 and E-1 to E-9 <em>(includes Registration Package 1)</em></td>
<td>$295</td>
<td>$395</td>
</tr>
<tr>
<td>Academia <em>(includes registration package 1)</em></td>
<td>$695</td>
<td>$795</td>
</tr>
<tr>
<td>Student <em>(student ID required)</em> <em>(Includes registration package 2)</em></td>
<td>$25</td>
<td>$25</td>
</tr>
</tbody>
</table>

**Registration Packages**

- **Package 1:** Secretary of Defense Maintenance Awards Reception and Banquet, AM Breaks, PM Breaks, Lunches, Receptions, Plenary Sessions, Technical Sessions, Exhibit Hall Access
- **Package 2:** AM Breaks, PM Breaks, Lunches, Receptions, Plenary Sessions, Technical Sessions, Exhibit Hall Access

**Government and Academia fees apply only to the active, guard, and reserve military, civil service personnel and employees of academic institutions.**

**For assistance with registration, please contact:**
SAE Customer Service
Telephone: 1-877-606-7323 (USA and Canada) Or 1-724-776-4970 (outside of USA and Canada)
Fax: 1-724-776-0790
E-mail: CustomerService@sae.org

**Register Online Now!**
www.sae.org/events/dod/registration.htm

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**Attire Guidance for the 2012 DoD Maintenance Symposium & Exhibition**

**Civilians:** Business attire is appropriate for both the Maintenance Symposium sessions and Secretary of Defense Maintenance Awards Reception and Banquet.

**Military:** Please refer to the following table for the appropriate military attire.

<table>
<thead>
<tr>
<th>Service</th>
<th>DoD Maintenance Symposium</th>
<th>Maintenance Awards Reception &amp; Banquet</th>
<th>Speakers and Panelists</th>
</tr>
</thead>
<tbody>
<tr>
<td>Army</td>
<td>Class “B”</td>
<td>Class “A”</td>
<td>Class “B”</td>
</tr>
<tr>
<td>Marine Corps</td>
<td>Service “B” <em>(service sweater or tanker jacket optional)</em></td>
<td>Service “A” <em>(ribbons and badges)</em></td>
<td>Service “B” <em>(service sweater or tanker jacket optional)</em></td>
</tr>
<tr>
<td>Air Force</td>
<td>Blue shirt combination</td>
<td>Service Dress</td>
<td>Blue shirt combination <em>(Long Sleeve Shirt with Tie/Tie Tab)</em></td>
</tr>
<tr>
<td>Coast Guard</td>
<td>Tropical Blue Long</td>
<td>Service Dress Blue</td>
<td>Tropical Blue Long</td>
</tr>
</tbody>
</table>
HOTEL INFORMATION

Make your hotel reservations now at www.sae.org/dod.
Deadline is Monday, October 29, 2012

HEADQUARTER HOTEL
Amway Grand Plaza Hotel
187 Monroe NW
Grand Rapids, MI
Check-in: 4:00 p.m./Check-out: 12:00 (Noon)

OVERFLOW HOTEL
JW Marriott Hotel
235 Louis Street NW
Grand Rapids, MI 49503
Check-in: 4:00 p.m./Check-out: 12:00 (Noon)

• Hotel rate for non-government is $120; Government rate is $82.

To Make Reservations:
• All attendees are responsible for their own lodging and travel arrangements.
• A block of sleeping rooms has been reserved at the Amway Grand Plaza Hotel and the JW Marriott Hotel.
• Reservations must be made through Orchid Event Solutions by Monday, October 29, 2012 by calling 800-847-5810 North America or 801-521-9025 International or by visiting www.sae.org/dod and clicking on the “Hotel and Travel Information” link.

For Symposium registration or for more information:
Toll-free, US & Canada: 1-877-606-7323
Telephone: 1-724-776-4970
Fax: 1-724-776-0790
E-mail: CustomerService@sae.org

www.sae.org/dod

The projected DoD costs for this symposium fall within DoD cost guidelines and are not expected to exceed $500K.

Neither the Department of Defense nor any of its components endorse any non-federal entities identified in this publication, or any products or services of such entities.
EVENT OVERVIEW

The mission of the 2012 DoD Maintenance Symposium and Exhibition is to create an environment that enables attendees to share relevant information, identify critical issues, discuss key topics, and increase their awareness of Department of Defense maintenance initiatives. At this event, attendees have the unique opportunity to influence the future of the maintenance community.

Here, your voice will be heard.
Registration Form

*Denotes Required Information

Make sure your SAE member number or your 10-digit customer number: ________________________________

Attendee Information: The address provided below is my: Business (based on your employer’s policy) Home School

*First/Given Name _______________________________________ Nickname for Badge _______________________________

*Last/Family Name _____________________________________________________________________________________

*Job Title _____________________________________________ Div/Dept. ____________________________

*Company/School Name _________________________________________________________________________________

*Mail Stop (if applicable) _________________________________________________________________________________

Address

*City ________________________________________________ *State/Province ___________________________________

*Zip+4/Postal Code ______________________________________ *Country (if not USA) _______________________________

*Phone No. ____________________________________________ Fax No._________________________________________

*E-Mail _____________________________________________________________________________________________

Evening Phone Number _____________________________

YES, I require special assistance. SAE will do what it is reasonably possible to make its events reasonably accessible to attendees. If you have special accommodations needs, please let us know in advance by checking the box below and attaching a brief description of how we can serve you better. Accommodations requested on site will be provided only if possible for us to do so on short notice.

Special Focus: *Please complete these important registration questions.

*My industry is (check ALL that apply):

Aerospace
Military
Regional
Space
Automotive
Heavy Duty
Agricultural
Large Truck
Industrial
Medium Truck
Military
Other (please specify):

*My company is a/an (check ONE):

Academia
Government
OEM/Prime
Parts & Components Supplier
Tier 1 Supplier/Systems Integrator
Other Supplier
Other (please specify):

*My primary job function is (check ONE):

Academia
Corporate Executive
Engineering
Product Design
Quality Control
Research & Development
Management
Maintenance, Repair
Manufacturing
Marketing/Sales
Purchasing
Other (please specify):

Please include my Name, Company, and Title in the SAE World Congress Online Attendee Roster.

Yes
No
Post my title and company name only.

Yes, I would like to receive special announcements and promotions from DOD Exhibitors.

Registration Packages:

Package 1:
Includes access to technical sessions, management program, exhibit, 3 lunches, 3 receptions on the exhibit floor, networking opportunities.

Package 2:
Includes access to technical sessions, management program, exhibit, networking opportunities.

Submitting the Form:

SAE Customer Service:
1-724/776-4970 or 1-877/606-7323
Fax:
1-724/776-0790

Conditions of Sale:

Payment must accompany this form by October 26, 2012 to receive discounted registration. Registrations received after October 26, 2012 will automatically be charged the on-site price. NO CHILDREN UNDER THE AGE OF 16 PERMITTED. All cancellations must be received by SAE prior to October 26, 2012. A $50 processing fee will be assessed for each canceled registration that results in a refund. Refunds for special event tickets will not be processed after October 26, 2012. Refunds will not be issued if cancellation occurs on or after October 26, 2012.

Payment Method:

Check - payable to “SAE”
Mastercard
Visa
Discover
American Express

Card No.  _________________________________________________________
Exp. Date  ________________________________
Cardholder Signature ______________________________________

For more information, visit http://www.sae.org/products/ordinfo.htm#payment
2012 Department of Defense Maintenance Symposium & Exhibition

November 13-16, 2012
DeVos Place Convention Center
Grand Rapids, Michigan, USA

Your unique opportunity to shape the future of DoD Maintenance—make plans now to attend!

Register at
www.sae.org/dod