AUTONOMOUS GROUND SYSTEMS TECHNICAL SESSION
Thursday, August 14, 2014
8:00 a.m. Welcome
Jerry Lane, Co-Chair, Great Lakes Systems & Technology LLC
Dr. Rob Karlsen, Co-Chair, Robotics Research Scientist, U.S. Army TARDEC

8:05 a.m. TARDEC Ground Vehicle Robotics
Jim Parker, Associate Director, Ground Vehicle Robotics, U.S. Army TARDEC

8:35 a.m. Small Unmanned Ground Systems
LTC Lawrence Dring, Product Manager Small UGS, PM Force Projection PEO CS&CSS

9:05 a.m. Paper: Imitative Robotic Control: The Puppet Master
David Rusbarsky, Senior Software Engineer, RE2
Jeremy Gray, Research Scientist, U.S. Army TARDEC
Jim Grebinoski, Senior Mechanical Engineer, RE2
Andrew Mor, Principal Scientist, RE2

9:35 a.m. Break

10:30 a.m. Paper: Dismounted Soldier Autonomy Tools (DSAT)
Chris Mentzer, Autonomy Team Lead, South West Research Institute
Robert Kania, Program Manager, U.S. Army TARDEC
Philip Frederick, Deputy Program Manager, U.S. Army TARDEC
Bill Protzman, Systems Engineer, DCS Corp.
Bill Pritchett, Systems Engineer, DCS Corp.
Elliot Johnson, Robotics Engineer, South West Research Institute

11:00 a.m. Paper: Enabling Semi-Autonomous Behaviors With a Single Camera
Camille Monnier, Senior Scientist, Charles River Analytics
Andrey Ost, Software Engineer, Charles River Analytics
Stan German, Scientist, Charles River Analytics

11:30 a.m. Paper: Implementing Robotic Control Algorithms in Open Source and Government Virtual Environments
Philip Frederick, Research Electrical Engineer, U.S. Army TARDEC
Mike Del Rose, Research Scientist, U.S. Army TARDEC
Robert Kania, Robotic Technologies Team Lead, U.S. Army TARDEC
Bernard Theisen, Mechanical Engineer, U.S. Army TARDEC
David Pirozzo, Computer Engineer, U.S. Army TARDEC
Stephanie Roth, Computer Engineer, U.S. Army TARDEC

12:00 p.m. Lunch
1:00 p.m. ............ Appliqué and Large Unmanned Ground Systems (ALUGS)
   LTC Aaron Roberson, PM ALUGS, PM Force Projection PEO CS&CSS

1:30 p.m. ............ Paper: Autonomous Mobility Appliqué System (AMAS) Technical Demonstration and Capability Advancement Demonstrations
   David Simon, Program Manager, Lockheed Martin Missiles and Fire Control
   Bernard Theisen, AMAS Joint Capabilities Technical Demonstration (JCTD) Technical Manager, U.S. Army TARDEC

2:00 p.m. ............ Paper: Soft Security Considerations for Autonomous Ground Systems
   Dariusz Mikulski, Research Computer Scientist, U.S. Army TARDEC

2:30 p.m. ............ Break

3:00 p.m. ............ Interoperability for Unmanned Systems
   Mark Mazzara, Interoperability Lead - Robotics, PM Force Projection PEO CS&CSS
   Matthew Skalny, Engineer, U.S. Army TARDEC

3:30 p.m. ............ Paper: Extending the Reach of the Warfighter Through Robotics: Autonomous Execution of a Tactical Resupply and Surveillance Mission
   Myron Mills, Senior Program Manager, Lockheed Martin Missiles and Fire Control
   Mathew Deminico, Program Manager, U.S. Army TARDEC

4:00 p.m. ............ Paper: Measuring the Performance of Active Safety Algorithms and Systems
   Tony Gioutsos, Director of Sales and Marketing, TASS International

4:30 p.m. ............ Close
MODELING & SIMULATION, TESTING & VALIDATION TECHNICAL SESSION
THURSDAY, AUGUST 14, 2014

8:00 a.m. ---------- Welcome (Sapphire & Ruby Combined)

Dr. Bashar AbdulNour, Co-Chair, Manager, Thermal Analysis & Validation, General Dynamics Land Systems

Dr. David Lamb, Co-Chair, Senior Technical Expert for Modeling & Simulation, U.S. Army TARDEC

8:05 a.m. ---------- Speaker: Virtual Simulation and Testing Methodologies as a Competitive Factor in the Global Automotive Industry

Enrico Pisino, Head of Innovation, Fiat-Chrysler Automobiles

8:50 a.m. ---------- Speaker: NASA Advanced Computing Environment for Science and Engineering

Dr. Rupak Biswas, Deputy Director, NASA Ames Research Center

9:35 a.m. ---------- Break

EMERGING MODELING & SIMULATION AND TESTING - SAPPHIRE ROOM

10:30 a.m. ---------- Welcome to Emerging M&S Technical Session

Dr. Alan Hufnagel, Session Co-Chair, Mechanical Engineer, U.S. Army TARDEC

Charlie Nietubicz, Session Co-Chair, Research Leader, Batelle

Paper: Evaluation of Design & Operability in an Immersive 3D Simulator

Russell Navarre, Technical Specialist, Virtual Mock Ups, GDLS

Robert Bauer, Software Engineering Specialist, GDLS

11:00 a.m. ---------- Paper: Fire Suppression Modeling Using Computational Fluid Dynamics

Dr. Vamshi Korivi, Mechanical Engineer, U.S. Army TARDEC

Dr. Brad Williams, Research Physicist, Navy Research Laboratory

Steven McCormick, SME - Fire Suppression, U.S. Army TARDEC

Dr. Kshitij Deshmukh, Senior Technical Specialist / Team Leader, CD-adapco

11:30 a.m. ---------- Paper: Iowa Developed Reliability-Based Design Optimization (I-RBDO) - Technology Transfer

Dr. KK Choi, Roy J. Carver Professor, University of Iowa

Dr. Nicholas Gaul, Research Engineer, RAMDO Solutions, LLC

Dr. Hyeongjin Song, Research Associate, University of Iowa

Dr. Hyunkyo Cho, Postdoctoral Research Scholar, University of Iowa

Dr. David Lamb, Senior Technical Expert for Modeling & Simulation, U.S. Army TARDEC

Dr. David Gorsich, Chief Scientist, U.S. Army TARDEC
12:00 p.m. ........ Lunch

1:00 p.m. ........ Paper: A Multidisciplinary Optimization Framework for Occupant Centric Ground Vehicle System Design
Dr. Jianping Sheng, Program Manager, U.S. Army TARDEC
Dave Mechergui, Mechanical Engineer, U.S. Army TARDEC
Dr. Ching-Chieh Hsieh, Research Engineer, Altair Engineering
Madan Vunnam, Team Leader, U.S. Army TARDEC
Sudhakar Arepally, Associate Director, U.S. Army TARDEC
Dr. David Bednarz, Research Engineer, U.S. Army TARDEC

1:30 p.m. ........ Paper: Development and Validation of EPH Material Model for Engineered Roadway Soil
Dr. Ching-Chieh Hsieh, Research Engineer, Altair Engineering
Dr. Jianping Sheng, Program Manager, U.S. Army TARDEC
Dr. Stephen Akers, Research Civil Engineer, Army Research and Development Center
Jaisankar Ramalingam, Mechanical Engineer, U.S. Army TARDEC
Chantelle Korson, Lead System Integrator, U.S. Army TARDEC

2:00 p.m. ........ Paper: Simulation of Microgrid and Mobile Power Transfer System Interaction Using Distributed Multiobjective Evolutionary Algorithms
Andrew Dunn, Computer Scientist, U.S. Army TARDEC
Dr. Jeremy Mange, Computer Scientist, U.S. Army TARDEC
Annette G. Skowronska, Research Scientist, U.S. Army TARDEC
Dr. David Gorsich, Chief Scientist, U.S. Army TARDEC
Dr. Zissimos Mourelatos, Professor and Chair, Department of Mechanical Engineering, Oakland University
Dr. Vijitashwa Pandey, Assistant Professor, Oakland University

2:30 p.m. ........ Break

3:00 p.m. ........ Welcome to Testing & Validation Technical Session
Julie Kern, Session Co-Chair, Test Engineer, U.S. Army TARDEC
Terry Ledwidge, Session Co-Chair, Director, Business Development, Link Engineering Company

Paper: Blast Mitigation Seat Analysis - Drop Tower Data Review
Kelly Bosch, PE, Engineer, Booz Allen Hamilton
Katrina Harris, Lead Engineer, U.S. Army TARDEC
David Clark, PE, Technology Lead, U.S. Army TARDEC
Joseph Melotik, Branch Manager, NAVAIR
Risa Scherer, Team Lead, U.S. Army TARDEC
3:30 p.m.  


Scott Gruenberg, Senior Research Engineer, Keweenaw Research Center, Michigan Technological University
Scott Bradley, Program Manager, Keweenaw Research Center, Michigan Technological University
Stephen Gentner, Mechanical Engineer, U.S. Army TARDEC
David Ostberg, Mechanical Engineer, U.S. Army TARDEC

4:00 p.m.  

Paper: Laboratory Explosive Testing at Small Scale

Leslie Taylor, Faculty Research Assistant, University of Maryland
Dr. William Fourney, Keystone Professor and Associate Dean, University of Maryland
Dr. H. Ulrich Leiste, Associate Professor, University of Maryland

4:30 p.m.  

Close

VEHICLE DYNAMICS & MOBILITY AND STRUCTURES - RUBY ROOM

10:30 a.m.  

Welcome to Vehicle Dynamics and Mobility Technical Session

Dr. Amandeep Singh, Session Co-Chair, Senior Research Scientist, U.S. Army TARDEC
Dr. Gary Heydinger, Session Co-Chair, P.E., Director Vehicle Dynamics Division, SEA Ltd.

Paper: Semi Active Suspension Control Using Modern Methodology - A Comprehensive Comparison Study

Omid Ghasemalizadeh, Ph.D. Candidate, Virginia Polytechnic Institute & State University
Dr. Saied Taheri, Associate Professor, Virginia Polytechnic Institute & State University
Dr. Amandeep Singh, Senior Research Scientist, U.S. Army TARDEC
Jill Goryca, Mechanical Engineer, U.S. Army TARDEC

11:00 a.m.  

Paper: Implementation of Continuum-Based Plasticity Formulation for Vehicle/Soil Interaction in Multibody System Algorithms

Ulysses Contreras, Research & Development Engineer, Computational Dynamics, Inc.
Dr. Antonio Recuero, Postdoctoral Research Associate, University of Illinois, Chicago
Ashraf Hamed, Ph.D. Student, University of Illinois, Chicago
Dr. Cheng Wei, Assistant Professor, Harbin Institute of Technology
Dr. Craig Foster, Assistant Professor, University of Illinois, Chicago
Dr. Paramsothy Jayakumar, Senior Research Scientist, U.S. Army TARDEC
11:30 a.m.  

*Paper: Modeling Off-Road Rollover Using Terramechanics for Real Time Driving Simulator*

Dr. Amandeep Singh, Senior Research Scientist, U.S. Army TARDEC  
Dr. Dale Holtz, Consultant, Realtime Technologies, Inc.  
Michael Megiveron, Mechanical Engineer, U.S. Army TARDEC  
Victor Paul, Mechanical Engineer, U.S. Army TARDEC

12:00 p.m.  

*Lunch*

1:00 p.m.  

*Welcome to Structures Technical Session*

Venkatesh Babu, Session Co-Chair, Senior Research Scientist, U.S. Army TARDEC  
Dr. Dhiren Verma, Session Co-Chair, Vice President, Altair Engineering

*Paper: Reducing Structural Weight and Increasing Protection in Simple Structures Subjected to Blast Loads*

Dr. Nickolas Vlahpoulos, Professor, University of Michigan  
Weiran Jiang, Graduate Student, University of Michigan  
Dr. Ravi Thyagarajan, Deputy Chief Scientist, U.S. Army TARDEC  
Dr. Syed Mohammad, Department of the Army Systems Coordinator for Force Projection, PEO CS&CSS  
Dr. Matt Castanier, Research Mechanical Engineer, U.S. Army TARDEC

1:30 p.m.  

*Paper: The Discrete Particle Approach to Modeling Air, Soil and HE for Blast Simulations*

Dr. Wayne Mindle, Director of Sales & Marketing, CertaSIM, LLC  
Michelle D. Gasbarro, President, MDG SOLUTIONS, Inc.  
Dr. Lars Olovsson, CTO, IMPETUS Afea AB

2:00 p.m.  

*Paper: Monocque Aluminum Structure Design for Light Tactial Vehicle with Emphasis on Defeating Under Body Blast Event and Improving Crew Survivability*

Dr. Chu-Hwa Lee, Mechanical Engineer, U.S. Army TARDEC  
Demetrio Lacap, Mechanical Engineer, U.S. Army TARDEC  
Shawn Keller, Mechanical Engineer, U.S. Army TARDEC

2:30 p.m.  

*Break*

3:00 p.m.  

*Paper: Digital Proxy Simulation for Robotic Hardware*

Dr. Xi Chen, Senior Robotic Engineer, Energid Technologies  
Dr. Doug Barker, Senior Robotic Engineer, Energid Technologies  
James Bacon, CFO, Energid Technologies  
Dr. James English, CTO, Energid Technologies
3:30 p.m. .......... Paper: A Comparison of Structural Approaches for Combat Vehicles
Scott Hodges, Engineer, U.S. Army TARDEC
Donald Ostberg, Materials Engineer, U.S. Army TARDEC

4:00 p.m. .......... Paper: Military Vehicle Underbody Armor Plate Attachment Study
Dr. Jian Kang, Mechanical Engineer, U.S. Army TARDEC
Mark Liedke, Mechanical Engineer, U.S. Army TARDEC
James Mason, Mechanical Engineer, U.S. Army TARDEC

4:30 p.m. .......... Close

ADDITIONAL AUTHORS & PRESENTERS:

Paper & Poster: Multi-Resolution Rapid Prototyping of Vehicle Cooling Systems: Approach and Test Results
Dr. Maciej Pindera, Staff Scientist, Computational Sciences, LLC
Dr. Yuzhi Sun, Staff Scientist, Computational Sciences, LLC
Dr. Jean Jacques Malosse, Staff Scientist, Computational Sciences, LLC
Dr. Steven Vosen, Staff Scientist, Computational Sciences, LLC
Mary Goryca, Team Leader, U.S. Army TARDEC

Paper & Poster: The Vehicle Inertia Parameter Evaluation Rig II, a Device for Measuring Inertia Parameters of all Sizes of Military Vehicles
Dale Andreatta, Mechanical Engineer, SEA Ltd.
Dr. Gary Heydinger, P.E., Director Vehicle Dynamics Division, SEA Ltd.
Ronald Bixel, Engineer, SEA Ltd.
Anmol Sidhul, Mechanical Engineer, SEA Ltd.
Aleksander Kurec, Executive R&D Lab Advisor, U.S. Army TARDEC
Igor Baseski, Mechanical Engineer, U.S. Army TARDEC
Thomas Skorupa, Mechanical Engineer, U.S. Army TARDEC

Paper: Simulation Based Reliability Growth Planning Model for the Army
Daniel Kosinski, Reliability Engineer, U.S. Army TARDEC

Paper: Reduced Order Modeling for Rapid Simulation of Blast Events of a Military Ground Vehicle and its Occupants
Sherri Chandra Project Engineer, TASS International
Jaisankar Ramalingam, Mechanical Engineer, U.S. Army TARDEC
Dr. Ravi Thyagarajan, Deputy Chief Scientist, U.S. Army TARDEC
POWER & MOBILITY TECHNICAL SESSION
THURSDAY, AUGUST 14, 2014

8:00 a.m.  Welcome
Al Grein, Associate Director, Ground Vehicle Power and Mobility (GVPM), U.S. Army TARDEC

8:10 a.m.  Paper: Modeling, Validation and Analysis of HMMWV XM1124 Hybrid Powertrain
Jeffrey Naber, Dr., Michigan Technological University
Antonio Gauchia, Dr. University Carlos III of Madrid
Jeremy Worm, Michigan Technological University
Chris Davis, Michigan Technological University

8:40 a.m.  Paper: Integrated Power Generation for Directed Energy Applications
Kurt Pesch, Sr. Engineering Specialist, General Dynamics Land Systems
Kevin Boice, Project Lead, GVPM, U.S. Army TARDEC

9:05 a.m.  Paper: Value Proposition of Lithium Ion versus Pb-Acid for Military Vehicles
Jeff Helm, Defense Sales Manager, Saft America

9:35 a.m.  Break

10:30 a.m.  Paper: LITHIUM-ION 6T Battery Technology - Field Testing in Commercial Trucks
Dr. Jasna Tomic, Research Director, CALSTART
Dr. Laurence Toomey, Acting Team Leader - Energy Storage Team, U.S. Army TARDEC

11:00 a.m.  Future Customer Perspective
Ted Maciuba, Deputy Director - Mounted Requirements, Army Maneuver Center of Excellence

12:00 p.m.  Lunch

1:00 p.m.  Combat Vehicle Prototype (CVP) Move Briefing
Nancy Saxon, CVP Move Lead, GVPM, U.S. Army TARDEC

1:30 p.m.  Paper: In-Line Fuel Sulfur Analyzer for Improved Management of Desulfurizers for Fuel Cell Auxiliary Power
Andrew Wagner, Chemical Engineer, Mainstream Engineering Corporation
Paul Yelvington, Energy Conversion Technology Leader, Mainstream Engineering Corporation

2:00 p.m.  Paper: Cooling Concepts for a Family of Small, Heavy-Fuel Rotary Engines for use in Auxiliary Power Units
Dale Oehlerking, Engine Senior Specialist Engineer, L-3 Combat Propulsion Systems
Kevin Lee, Senior Engineer, L-3 Combat Propulsion Systems
Levi Roodvoets, Project Engineer, L-3 Combat Propulsion Systems

2:30 p.m.  Break
3:00 p.m.  . . . . . . . . . Paper: Super Efficient Powershift and High Ratio Spread Automatic Transmission for the Future Wheel Military Vehicles
Iñigo Garcia-Eizaga, Deputy Director General Industrial, Sapa Operaciones

3:30 p.m.  . . . . . . . . . Paper: Common Bore Engine Philosophy for Future Power-Pack Configurations
Kenneth Kacynski, Engineering Fellow, L-3 Combat Propulsion Systems
Andreas Baumann, Systems Engineering Department Manager, L-3 Combat Propulsion Systems
S. Arnie Johnson, Vice President-Engineering, L-3 Combat Propulsion Systems

4:00 p.m.  . . . . . . . . . Paper: Active Exhaust Silencing System for the Management of Auxiliary Power Unit Sound Signatures
Steve Mattson, President, Great Lakes Sound and Vibration
Kevin Nelson, Project Engineer, Great Lakes Sound and Vibration
Darin Kowalski, Project Manager, US Army - TARDEC - GVPM

4:30 p.m.  . . . . . . . . . Close

ADDITIONAL AUTHORS & PRESENTERS:

Solid Oxide Fuel Cells for Man-Transportable Unmanned Vehicles
Thomas Westrich, Research Scientist, Ultra Electronics AMI

The Business Case for Model-Based Software Development
Rob Stawarz, Business Development Manager, LHP Software
Ron Lannan, Technology Advisor, LHP Software

Mild Hybrid & Electrification Systems Utilizing Switched Reluctance Motor Technology
Andy Dickinson, Senior Manager, Controlled Power Technologies
John Kelly, Lead Applications Engineer-Speed Start, Controlled Power Technologies
Paul Blackburn, Systems Engineer Cobra, Controlled Power Technologies
Andy Haughto, Applications Engineer, Controlled Power Technologies

Development of a Lightweight, Multi Fuel-Capable, 75-hp Engine for Multiple Applications
David Sykes, Senior Mechanical Engineer, Mainstream Engineering Corporation
Dr. Paul Yelvington, Energy Conversion Technology Group Leader, Mainstream Engineering Corporation
Andrew Carpenter, Mechanical Engineer, Mainstream Engineering Corporation
Jerry Wagner, Senior Mechanical Engineer, Mainstream Engineering Corporation

Consistent Performance with Fuel Found in Theater: Real-Time Fuel Adaptation With Cylinder Pressure Based Combustion Control
Gus Johnson, Technical Specialist-Engine Development & Controls, AVL Powertrain Engineering, Inc.
Modular Exhaust Design and Manufacturing Techniques for Low Cost Mid Volume Rapid Build to Order Systems

Steve Mattson, President, Great Lakes Sound & Vibration
Kevin Nelson, Project Engineer, Great Lakes Sounds & Vibration
Ryan Helminen, Project Engineer, Great Lakes Sound & Vibration
Alan Hufnagel, Project Manager, Ground Vehicle Power and Mobility, U.S. Army TARDEC
SYSTEMS ENGINEERING TECHNICAL SESSION
Welcome

Mike Vinarcik, Senior Lead Systems Engineer, Booz Allen Hamilton
Lisa Graf, Program Manager, RDECOM Integrated Systems Engineering Framework (ISEF), U.S. Army TARDEC

Paper: A Coupled Model Based Systems Engineering (MBSE) and Multi-Criteria Decision Making Approach to Define Affordable Program Requirements

Johanna Ceisel, Senior Product Manager, Dassault Systems Americas Corporation

Paper: MBSE Using Validated Executable Specifications as an Enabler for Cost and Risk Reduction

George Fortney, MBSE Technical Lead, SAIC

Paper: Pattern Based Systems Engineering - Leveraging MBSE for Cyber-Physical Systems

Bill Schnindel, President, ICTT Systems Sciences

Break

Keynote Speaker: Menlo Innovations - Joy Inc.

Richard Sheridan, CEO and Chief Storyteller, Menlo Innovations

Paper: Cost Informed Trade Analysis (CITA) and Requirements Management Process

Steve Schultz, Chief Integration Engineer to the JPO JLTV, U.S. Army TARDEC
Brett Johnson, Chief Engineering, PEO CS&CSS, JLTV Program, PEO CS & CSS

Paper: Whole System Trades Analysis

Shatiel Edwards, Modeling and Simulation Officer, SEIO-Analytics, PEO GCS

Lunch

SE Panel - SE Success Stories

Moderator: Mike Vinarcik, Senior Lead Systems Engineer, Booz Allen Hamilton
Munira Towner, Lead, SE & Capabilities Mgmt Team, PEO CS&CSS
Aaron Hart, System Engineering Team Leader, PEO GCS
Bob Otlowski, Vehicle Architect of the Ground Combat Vehicle Program, GDLS
Mark Willhoft, Bradley Program Engineering Manager, BAE Systems

Paper: Risk Leading Indicators and Risk Estimating Relationships for DoD Acquisition Programs

Gary Witus, Associate Professor, Wayne State University

Break
3:00 p.m. .......... Keynote Speaker
               David Long, President, INCOSE

3:30 p.m. .......... Paper: Proper Use of Open Standards for Commonality and Competition
               David Jedynak, Chief Technology Officer, Curtiss-Wright Defense Solutions

4:00 p.m. .......... Paper: Model-Based Product Line Engineering Enabling Product Families with Variants
               Matthew Hause, Chief Architect, Atego

4:30 p.m. .......... Close
VEHICLE ELECTRONICS & ARCHITECTURE TECHNICAL SESSION
THURSDAY, AUGUST 14, 2014

8:00 a.m. . . . . . . . . Welcome
Jim Riser, Director Army Mission Systems, BAE Systems

8:05 a.m. . . . . . . . . Model-based Product Line Engineering Enabling Product Families with Variants
Keynote Speaker: Matthew Hause, Chief Consulting Engineer, Atego

8:40 a.m. . . . . . . . . Paper: Evolution of 360 Degree Local Situational Awareness (LSA) to Aid the Warfighter
Chris Viscovich, Indirect Visions Systems Lead Engineer, Northrop Grumman

9:10 a.m. . . . . . . . . Paper: Why Some Standards Don’t Guarantee Interoperability
John Pankowski, Principal Software Developer, NetCentric Technology, LLC

9:35 a.m. . . . . . . . . Break

10:30 a.m. . . . . . . . . Paper: The UK’s Approach to Open Systems Architecture for the Land
Antony White, Director of Advanced Technology, Ultra Electronics

11:00 a.m. . . . . . . . . Paper: High Performance Embedded Computing Reference Architecture for Command, Control, Communications Intelligence Surveillance & Reconnaissance (C4ISR)/Electronic Warfare (WR) in Ground Vehicles
David Jedynak, Chief Technology Officer, Curtis-Wright Defense Solution

11:30 a.m. . . . . . . . . Paper: Vehicle Electronic Architecture Featuring Data Management for Real Time SensorDriven Capabilities
Andrew Silveri, Subsystem Thrust Leader, GDLS

12:00 p.m. . . . . . . . . Lunch

1:00 p.m. . . . . . . . . Modular Active Protection System (MAPS)
Keynote Speaker: Scott Rogan, Team Leader - Hit Avoidance Integration Team, MAPS Framework Lead, U.S. Army TARDEC

1:45 p.m. . . . . . . . . Paper: Bringing Paladin into the 21st Century
Bruce Bailey, Sr. Principle SW Engineer, BAE Systems
Mark Miller, Mgr - Engineering II, BAE Systems
Gordon Brinton, Senior Electrical Project Engineer, BAE Systems
Eric Swartz, Electrical Project Engineer, BAE Systems

2:30 p.m. . . . . . . . . Break

3:00 p.m. . . . . . . . . Paper: HDVC Power Distribution and Conversion Components for Next Generation Vehicles
Bruce Pilvelait, Engineer, Creare

3:30 p.m. . . . . . . . . Paper: Securing the Intra-Vehicle Network
Jasmine Little, Software Engineer, Vistronix Intelligence & Technology Solutions, LLC
4:00 p.m. . . . . . . . . Paper: Integrated Combat Radio Remote Control via VICTORY
        Millard Petty, Sr. Systems Engineer, DCS Corporation

4:30 p.m. . . . . . . . . Paper: Software Safety and Security Best Practices: A Case Study from Aerospace
        Paul Skentzos, Technical Business Development, DornerWorks, LTD

5:00 p.m. . . . . . . . . Close

ADDITIONAL AUTHORS & PRESENTERS:

Implementing Unified Communications Via a Single Swap-C Device
        Brett Elms, Director of Army Programs, Cornet Technology, Inc