





Defense Strategies Institute cordially invites you to an educational and training Summit:

DoD Future Warfighter Symposium

“An Integrated Approach to Improving Warfighter capabilities, performance and survivability”

**April 25- 26, 2017: The Mary M. Gates Learning Center/United Way,
Alexandria, VA**

ONSITE AGENDA & LOGISTICS

<p>LOCATION:</p>	<p>The Summit will take place at the Mary M. Gates Learning Center/ United Way Building: 701 N. Fairfax St. Alexandria, VA , Corner of Madison St, one block west of the Potomac River. http://www.marygateslearningcenter.com (please do not call the Center for logistics, contact DSI)</p> <p>PARKING: There is NO parking at the Center (there is a small lot but this is reserved for our speakers only.) Parking is available on the street (some spots limited to 2 hours) and two walking blocks from the Center, same side of street. at: Crowne Plaza Hotel : 901 North Fairfax Rd. Ground Floor. Up to \$20 per day. Go to the Lobby in the front desk and ask for a day parking ticket for the outdoor lot: there is also an underground parking lot, and an automatic ticket machine.</p> <p><u>METRO:</u> King Street Station. You can then take a free trolley from the metro that will take you eastbound on King Street. When you hit Union street, you can then walk north about 6 blocks to North Fairfax. The Center is another 2 blocks. Link to the trolley: http://alexandriava.gov/Trolley</p> <p>Braddock Road Station: Walk roughly 10 blocks east on Madison until you hit North Fairfax- The Learning Center will be one block away.(about a 10 -15 min walk)</p>
<p>ARRIVAL LOGISTICS:</p>	<p>Upon arrival, you will enter through glass doors. Directly to your right we be another set of glass doors, about 10 feet from the entrance. We are located directly through these glass doors – you will be able to see us upon entering the building.</p> <p>A DSI staff member will be at the registration desk to greet you. Please sign in and pick up your badge and booklet. Badges must be worn at all times</p>
<p>conference room logistics:</p>	<p>**This Event is No Press // Non-Attribution // No Recordings**</p>
<p>ONSITE POCs from DSI:</p>	<p>Your main POC: Ms. Monica Mckenzie, Senior Partner, DSI Cell phone: 1-917-435-1266 Email: mckenzie@dsigroup.org</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Secondary <u>ONSITE</u> POC: Luis Hernandez: Senior Partner, DSI Cell:1-443-904-5491 lhernandez@dsigroup.org</p>
<p>DRESS CODE:</p>	<p>ATTENDEES: Military: Duty Uniform of the Day Civilian: Business casual: jacket requested, tie optional</p>
<p>WIFI</p>	<p>We will provide you with complimentary WIFI. Complimentary access to business center with computers, phones, and printers.</p>

Food and beverage

FOOD AND BEVERAGE:

We will provide fresh coffee, teas, beverages, breakfast, snacks and a full lunch on both days. Breakfast will include a variation of fresh stuffed croissants, fresh fruit salad, yogurt, mid morning cheese and crackers and muffins. Lunches will be served buffet style and include a salad and vegetable side and main dishes of chickens and pastas. Afternoon snacks are a variety of fresh desserts and cakes. **MIL and GOV : your per person price for lunch and beverage falls below general per diem rates set by Military and GSA specifically**

The order of sessions is based solely on speakers' availability: bullet points subject to edits by speakers.

Day 1: April 25, 2017

7:30 – 8:40	Registration and Networking Breakfast
8:40 – 8:55	8:40 – 8:50 - Opening remarks Monica Mckenzie, DSI 8:50 – 8:55 – Opening remarks, Mr. Tom Nelson, volunteer moderator (invited directly by DSI to help moderate the Q&A / discussion portions of the Symposium. His biography is listed on the last page.)
8:55 – 9:35	Research, Development and Technology Priorities in Support of the Future Warfighter: Treating the Warfighter as a System -Current priorities and focus areas within RDECOM for meeting the projected future capability gaps of the individual Warfighter -Viewpoint towards where “leap ahead” technologies can help to transform the capabilities, performance and survivability of tomorrow’s Expeditionary Warfighter, including the evolving role of human- machine collaboration Mr. Douglas Tamilio, SES, Director, Natick Science, Research, Development and Engineering Center (NSRDEC) RDECOM, U.S. Army (confirmed)
9:35 – 10:15	Improving the Performance and Survivability of Tomorrow’s Expeditionary Warfighter at ONR -Current interest in protective systems: what tomorrow’s expeditionary environment will require -Research in material/systems with the capability to protect the warfighter against all kinetic and non-kinetic asymmetric threats with an ultralight-weight protective system -Human Performance: understanding and developing science and technology capabilities to enhance psychological, physical, and social resilience -Perspective towards where “leap ahead” technologies can help to transform the health, performance and survivability of tomorrow’s Warfighter Dr. Paul Zablocky, SES, Division Director, Complex Hybrid Warfare Sciences Division, Expeditionary Maneuver Warfare and Combating Terrorism Science and Technology Department, ONR (confirmed – in lieu of Dr. Pazik)
10:15 – 10:45	Networking Break
10:45- 11:25	PM Soldier Warrior (PM SWAR): Supporting tomorrow’s Soldier through the Acquisition of Integrated Systems - Acquisition perspective and priorities towards filling current and future capability gaps: where ‘leap ahead’ technologies for tomorrow’s fight would be of interest - Update on Nett Warrior activities and interests; including integrating future augmented reality technologies - Soldier Systems and Integration (PD SS&I) : Activities at WINSITE Lab: Looking at the Soldier as a System to create a more integrated and operational system COL Ed Barker, USA, PM Soldier Warrior, PEO Soldier, U.S. Army (confirmed)
11:20 -12:05	Integrating State of the Art Technologies into a Single, Purpose Built Combat Suit -Approach to balancing the true tradeoffs of integrating a new capability: challenges to deciding what’s truly needed and what’s not -Understanding the challenges of accounting for the variability of humans - Status update on acquisition priorities COL James Miller, USA, Director, Joint Acquisition Task Force (JATF) TALOS, USSOCOM (confirmed)
12:05 – 1:00	<i>Networking Lunch</i>
1:00 – 1:40	Impactful Research in Disruptive Robotic Technologies for Augmenting and Restoring Human Performance -Current research in the design, manufacture and control of wearable robotic devices and potential applications for the future Warfighter - Understanding human-machine interaction and where the challenges still lie Dr. Conor Walsh, Founder Havard BioDesign Lab; Core Faculty Wyss Institute, and John L. Loeb Associate Professor of Engineering and Applied Sciences, Harvard University (confirmed)

1:40 – 2:20	<p>ARL: Research in Support of Tomorrow's Warfighter</p> <ul style="list-style-type: none"> -Research in sensors to help mitigate Soldier stressors to improve Soldier Performance: Understanding the complex multidimensional construct of Warfighter performance -Current challenges with interfacing and controlling wearable robotics -Update on continued research activities in exosuits -Advice towards understanding the true tradeoffs of new capabilities and accounting for the variability of humans <p>Dr. Mike LaFiandra, Chief Scientist (A), Human Research and Engineering Directorate, ARL (confirmed)</p>
2:20 – 2:50	Networking Break
2:50 – 3:30	<p>Power: USMC E2O: Meeting the Power demands of the Dismounted Warfighter in Distributed Operations Across the Battlefield.</p> <ul style="list-style-type: none"> - Update on the JIC-P Evaluation and current activities to improve energy efficiency in combat - Determining and meeting the future power requirements for 'Warfighter Self-Sufficiency' <p>Col Brian L. Magnuson, USMC, Director, E2O, HQMC (confirmed: Mr. Brian Kiviat, Deputy Director, E2O, HQMC may present in lieu of Col Magnuson due to travel))</p>
3:30 – 4:10	<p>Augmented Reality for the Dismounted Warfighter</p> <ul style="list-style-type: none"> -Current research activities in bringing a heads-up display augmented reality device to the Warfighter in a tactical environment: Integrating state-of-the-art augmented reality user interface display content and human computer interface technologies with existing ground Soldier communications interfaces -Technical challenges -Current research activities in Augmented Reality Training for Dismounted Soldiers: technical challenges including: eye/head fatigue, determining optimal power-bandwidth tradeoffs and scalability ,developing enhanced virtual content capable of naturally blending into the live lighting environment <p>Dr. Mark Livingston, Head of Virtual Environments and Visualization , NRL (confirmed)</p>
4:10 – 4:50 Closing Highlight	<p>Lessons Learned and Understanding the IED Threat for the Warfighter : Enhancing soldier survivability and performance in hybrid warfare</p> <ul style="list-style-type: none"> - Understanding the current and perceived future operating environment and the impact for the individual Warfighter - IED proliferation in eastern Ukraine - The nature of IED/VBIED employment by ISIL in Mosul <p>CSM Alexander Aguilastratt, Charlie Squadron, Asymmetric Warfare Group, U.S. Army (confirmed)</p>
4:50pm	End of Day 1
DAY 2 : April 26, 2017	
7:30 – 8:30	Registration and Networking Breakfast
8:30 – 8:45	Recap of Day 1
8:45 - 9:25	<p>Rebuilding the Army's Strategic Readiness: A perspective of the Impact on the Future Soldier</p> <ul style="list-style-type: none"> -Brief review of how G-8 matches available resources to the defense strategy and the Army plan while enhancing readiness with integrated capability solutions -Perspective on the impact that the capability and readiness needs of the Army for the future fight will hold for the individual Warfighter: what does industry need to know -Viewpoint towards where "leap -ahead" innovations could help to transform and modernize the Soldier of today <p>BG Brian Mennes, USA, Director, Joint and Integration, G-8, HQDA (confirmed)</p>
9:25 – 10:05	<p>Human-Centered Research to Optimize and Protect Tomorrow's Airman</p> <ul style="list-style-type: none"> - Current research priorities within Warfighter Interface Division: linking Airman functionality to the weaponry, information and environment of war - Future Airman-machine teams: research in development, integration, and evaluation of Airman-centric technology to realize cognitive systems engineering solutions to address Airman data overload, work integration, and improved mission performance -Viewpoint towards the challenges the future Airman will face and where "leap ahead" technologies can help to transform their capabilities, performance and survivability <p>Dr. Rajesh Naik, SES, Chief Scientist, Airman Systems Directorate, 711th Human Performance Wing, Air Force Research Laboratory, Wright-Patterson Air Force (confirmed)</p>
10:05- 10:30	Networking Break

10:30-11:10	<p>Current Research to Aide in Supporting Health, Performance, and Safety of the Aviator, the Airborne Soldier, and the Ground Warrior AARL's current research and expert consultation on biomedical, physiological, and psychological issues affecting our Aviators and Soldiers</p> <ul style="list-style-type: none"> -Acoustics and vision research -High Impact & Retention Testing: study the effects of exposure to physical forces on the health, safety, and performance of the Soldier -Research on Soldier performance in static and dynamic marksmanship <p>COL Richard Malish, USA, Commander, U.S. Army Aeromedical Research Laboratory (confirmed)</p>
11:10 -11:55	<p>Next-Generation Non-Lethal Weapons for the Dismounted Warfighter</p> <ul style="list-style-type: none"> -Employing non-lethal weapons as part of a system of systems methodology, and in an "escalation of force" approach -JNLWP S&T: 'fostering the ideation, maturation, and demonstration' of new NLW technologies for the Joint Force in the 2025 timeframe- <p>Mr. David B. Law, Technology Division Chief & Chief Scientist Joint Non-Lethal Weapons Directorate (JNLWD) (confirmed)</p>
12:00-12:35	<i>Networking Lunch</i>
12:35- 1:15	<p>CTTSO - Rapidly Filling Warfighter Capability Gaps</p> <ul style="list-style-type: none"> - Operational use of PAI - Counter UAS - Counter Tunnel - Lightweight Weapons and Ammunition - Training Technology <p>Mr. Robert Newberry, SES, Executive Director, CTTSO (confirmed)</p>
1:15- 1:50	<p>Meeting the Power Demands of the Dismounted Warfighter</p> <ul style="list-style-type: none"> - Developing a universal energy harvesting pack frame solution: update on the Energy Harvesting Assault Pack - Current research in developing far field wireless capabilities for power transmission - Achieving a net-zero energy solution: viewpoint towards where the biggest challenges still lie toward integrating and delivering a holistic power system to future Dismounted Warfighters <p>Mr. Cory Goetz, Chief, Power and Energy Directorate, CP&ID, CERDEC (confirmed)</p>
1:50 – 2:00	Closing Remarks
2:00pm	End of Summit

The order of sessions is based solely on speakers' availability: bullet points subject to edits by speakers.

OPERATING GUIDANCE FOR MILITARY AND GOVERNMENT ATTENDEES:

DSI's Summit is open and complimentary to all U.S. DoD, Federal and State employees and is considered a compliant education and training forum <http://futurewarfighter.dsigroup.org>

Biographies of moderators on next page...



Mr. Tom Nelson, Volunteer moderator for Q&A / Discussion

DSI invited Mr. Nelson to volunteer his time to help us moderate the Q&A and discussion time of the sessions. Mr. Nelson is on deck to lend his expertise and knowledge and will help us elevate the level of the dialogue throughout the Symposium. While his role is informal, we are truly thankful for his acceptance to help us.

Professional Experience:

Manager and Team Leader US Army 4th Infantry Division Oct 1993 – Jul 1996

Manager and Team Leader US Army 25th Infantry Division Jul 1997 – Jul 2000

Future Operations Planner Multi-National Security Transition Command – Iraq Feb 2005 – Jan 2006

Operations Officer - Army Asymmetric Warfare Office- Department of the Army G3/5/7 Mar 2006 – Mar 2008

Future Operations Planner, Chairman of the Joint Chiefs of Staff 2008 – Sep 2010

Strategic Advisor - Commander's Initiatives Group- NATO Training Mission – Afghanistan Oct 2010 – Nov 2011

Strategic Advisor, Chairman of the Joint Chiefs of Staff Dec 2011 – Jun 2013

Stanford University, National Security Fellow Jul 2013 – Aug 2014

Director, Strategic Initiatives Group / Director Future Operational Plans, US Army Cyber Command Jun 2015 – Dec 2016 / Sep 2014 – May 2015

Director, Washington DC office, BMNT Partners, Feb 2017 – Present

Education:

Stanford University Graduate School of Business, Budapest University of Technology and Economics

Master of Science (MS) Field Of Study Economics; Missouri University of Science and Technology;

Master of Science (M.S.) Field Of Study Engineering Management; United States Military Academy at West Point

Bachelor of Science (BS) Field Of Study Economics

Monica Mckenzie, Senior Partner, Defense Strategies Institute



Senior Partner and founding member, Defense Strategies Institute (Oct 2011- present). Former Head of Government Relations, Global Strategies Group ; former Associate for 2nd Committee, United Nations. Masters Degree in International Politics & Conflict Negotiation, School of International Service, American University, D.C.. Certification in Military Conflict Negotiation, Inter-American Defense College, Ft. McNair, D.C