

Warfighter Protection

Exploring Lightweight Options to Safeguard the Warfighter in an Ever Changing Theater

January 11-13, 2011
Sheraton Premiere at Tysons Corner
Vienna, VA

“Advance
body and vehicle armor
strategies to mitigate
blast injuries.”

It is estimated that the US Department of Defense will continue to spend billions to protect our troops with the newest equipment.


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Chairperson

Mike Buchen
CEO and President
SKYDEX Technologies, Inc.

Attending this Premier **marcus evans** Conference will Enable You to:

- **Discuss** with **PEO Soldier** how to lessen the weight of body armor without impacting performance or lethality
Program Coordinating Office
- **Enhance** soldier survivability and lethality with experimentation shared by the **Maneuver Battle Lab, Army Maneuver Center of Excellence**
- **Supply** warfighters with Chemical and Biological protection with the **Joint Program Executive Office for Chemical and Biological Defense**
- **Examine** the future of warfighter protection with the **University of Delaware Center for Composite Materials**

Who Should Attend:

marcus evans invites PEO's, Program / Project Managers, Directors or Commanders with responsibilities in:

- Combat Equipment
- Warfighter Protection
- Armor
- Survivability / Lethality
- Ground Systems / MRAP
- Force Protection

Featured Speakers Include:

Brigadier General Peter Nelson Fuller
Program Executive Officer
PEO Soldier

Lieutenant Colonel Kevin Reilly
Program Manager, Infantry Combat Equipment Combat Equipment & Support Systems
MARCORSYSCOM

Featuring Briefings from Leading Warfighter Protection Experts Including:

Colonel Russell E. Smith
Director, Fires & Maneuver Integration Division
Capability Development Directorate
US Marine Corps

Edwin Davis
Director, Maneuver Battle Lab
US Army Maneuver Center of Excellence

Dr. Karen McGrady
Director of Future Acquisition
Joint Program Executive Office for Chemical and Biological Defense

Dr. Peter Matic
Head, Multifunctional Materials Branch
Naval Research Laboratory

Dr. Graham Hubler
Head, Material and Sensors Branch
Naval Research Laboratory

Regina Kistner
Chief, Soldier Systems Branch
US Army Materiel Systems Analysis Activity

Dr. Bazle A. Gama
Scientist
University of Delaware Center for Composite Materials

Brigadier General Daniel O'Donohue
Director, Capabilities Development Directorate
US Marine Corps

John P. Obusek, Sc. D.
Associate Director
Natick Soldier Research Development and Engineering Center

Dr. Okenwa Okoli
Associate Professor of Industrial and Manufacturing Engineering
Florida State University

Dr. James Q. Zheng
Chief Scientist, PM-SPIE
PEO Soldier

Peter Foley
Chief Technology Officer
SKYDEX Technologies, Inc.

David Kiernan
Managing Director
Global Seating Systems

Greg Schultz
Partner
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Patrick A. Stallings, COL (Ret)
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7:30 Registration and Morning Coffee

8:15 Chairperson's Opening Address
Mike Buchen, CEO and President
SKYDEX Technologies, Inc.

UNDERSTANDING AND ADAPTING WARFIGHTER EQUIPMENT TO MITIGATE BLAST INJURY

8:30 Briefing

Equipping the Warfighter with Expeditionary and Protective Mobility

• Role of the USMC
• Vehicle Challenges
• Keys to Success / Future Themes
Brigadier General Daniel O'Donohue, Director, Capabilities Development Directorate
US Marine Corps

9:15 Briefing

Providing the Warfighter with Comfortable Yet Functional Armor

• Discussing the possibilities of armor flexibility
• Examining armor which covers more of the body and provides joint protection
• Analyzing the mobility of warfighters and discussing how to increase maneuverability
Lieutenant Colonel Kevin Reilly, Program Manager, Infantry Combat Equipment Combat Equipment & Support Systems
MARCORSYSCOM

10:00 Briefing

Updating the Current Testing to Account for Blast Impact

• Existing personal protection equipment requirements do not provide information for armor creation to mitigate blast injury
• Lacking standardization for blast testing leaves no equipment consistency in terms of blast protection across the agencies
• Discussing the right way to test for blast impact
Dr. James Q. Zheng, Chief Scientist, PM-SPIE
PEO Soldier

10:45 Networking Break

11:15 Interactive Workshop

Exploring Lightweight Material Options for Warfighter Protection

Warfighters are put in the field with the best equipment available in order to protect them. However, that equipment can reach upwards of 70 pounds, slowing down the warfighter. Currently, research is being conducted to lighten the equipment without impacting the warfighters protection.
By attending this workshop you will be:
• Sharing ideas to lighten the warfighters load
• Discussing lightweight materials currently in development
• Addressing technologies which will allow for lighter warfighter protection
Dr. Bazle A. Gama, Scientist
University of Delaware Center for Composite Materials

12:45 Luncheon

13:45 Interactive Workshop

Saving Lives and Reducing Injury Levels from IEDs. Rockets and Operational Accidents is About More Than Just Armor

By attending this workshop you will be:
• Examining the weaknesses of mitigation specifications today as they relate to blast and slam down events and where we should go in the future
• Exploring the validity of crash and rollover impact criteria and its benefits to warfighters
• Understanding how an advanced seating systems approach to occupant containment can save lives
• Looking at the effects of ergonomically correct designs and vibration dampening characteristics and their effect on fatigue and warfighter survivability
• Sharing ways a systems approach to the integration of a mounted warfighter earlier in vehicle design process will benefit all
David Kiernan, Managing Director
Global Seating Systems

15:45 Briefing

Developing, Testing and Delivering Individual Protective Equipment for Response Across the Agent Spectrum

• Chemical, Biological and Radiological Individual Protection
• Overview
• Approach to Protection
• Current Portfolio
• Acquisition Strategy
• Warfighter Requirements
• Integrating Capabilities
Dr. Karen McGrady, Director of Future Acquisition
Joint Program Executive Office for Chemical and Biological Defense

16:30 Closing Remarks from the Chair and End of Day One

Day Two | Wednesday, January 12, 2011

8:00 Registration and Morning Coffee

8:20 Chairperson's Opening Address
Mike Buchen, CEO and President
SKYDEX Technologies, Inc.

EXPLORING LIGHTWEIGHT OPTIONS FOR PERSONAL AND VEHICLE ARMOR WHILE ENHANCING SURVIVABILITY AND LETHALITY

8:30 Briefing

Lessening the Weight of Body Armor Without Impacting Performance or Lethality

• Understanding and addressing armor design struggles
• Discussing new and lighter body armor materials
• Sharing ways that armor weight can be reduced
Brigadier General Peter Nelson Fuller, Program Executive Officer
PEO Soldier

9:15 Briefing

Enhancing Soldier Survivability and Lethality with Army Experimentation

• Discussing the Army Expeditionary Warrior Experiment – an industry partnership
• Looking at an integrated approach to small unit soldier survivability
• Receiving soldier feedback throughout the developmental process in protection solutions
Edwin Davis, Director, Maneuver Battle Lab
US Army Maneuver Center of Excellence

10:00 Networking Break

10:30 Briefing

Adapting Warfighter Protection to Include Blast Protection

• Material and equipment design factors for ballistic, blast and impact
• Head, torso and arm surrogate data to compare equipment performance
• Flexibility and thermal management considerations
Dr. Peter Matic, Head, Multifunctional Materials Branch
Naval Research Laboratory

SPONSORSHIP INFO

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Day Two | Continued

11:15 Briefing

Sharing the Army's Integrated Science and Technology Plan for Individual Soldier Ballistic and Blast Protection

- Discussing unclassified lessons from in-theater and how that is shaping the future S&T approach
- Speaking to how the materiel S&T approach is informed and complemented by medical S&T
- Addressing how that approach is integrated with the requirements generation process

John P. Obusek, Sc. D., Associate Director

Natick Soldier Research Development and Engineering Center

12:00 Luncheon

13:00 Briefing

Discussing the Emerging Threats and Solutions to Police and Military Forces

- Exploring current technological capabilities
- Reviewing advanced multi-threat fabrics
- Assessing intelligent armor and uniforms

Greg Schultz, Partner

G Squared Consulting

13:45 Briefing

Improving Soldier Survivability with Advanced Protective Technology

- Understanding advanced protection technology and energy management systems
- Discussing integration of systems to improve soldier survivability
- Looking forward to improved warfighter equipment

Peter Foley, Chief Technology Officer

SKYDEX Technologies, Inc.

14:30 Briefing

Sharing New Approaches to the Way Armor Can be Designed

- Fundamental physical insights into stopping projectiles and deflecting blasts
- Understanding future materials and technologies that could provide more than incremental improvements to body armor
- Lessening blast impact on vehicles

Dr. Graham Hubler, Head, Material and Sensors Branch

Naval Research Laboratory

15:15 Closing Remarks from the Chair and End of Day Two

PRODUCER INFO:

I would like to thank everyone who has assisted with the research and organization of the event, particularly the speakers for their support and commitment.
Sarah Law, sarahl@marcusevansch.com

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Day Three | Thursday, January 13, 2011

8:00 Registration and Morning Coffee

8:20 Chairperson's Opening Address
Mike Buchen, CEO and President
SKYDEX Technologies, Inc.

LOOKING TO THE FUTURE OF WARFIGHTER PROTECTION EQUIPMENT

8:30 Briefing

Bridging the Gap Between Current and Future Products: A Modeling and Simulation Perspective

- Changing current products slightly, in order to test future effectiveness
- Comparing products to determine which would be the better choice for the warfighter
- Discussing current areas of modelling and simulation

Regina Kistner, Chief, Soldier Systems Branch

US Army Materiel Systems Analysis Activity

9:15 Interactive Panel Discussion

Looking at the Next Generation of Body Armor

- Addressing things on the "wish list" including durable, ergonomic, scalable, modular, weight distributed and sizeable armor
- Understanding future materials and technologies which could turn those wishes into reality
- Discussing integrated solutions
- Organizing systems engineering

Facilitator:

Patrick A. Stallings, COL (Ret), Executive Vice President, DoD Business Operations
Point Blank Solutions, Inc.

Panelists

Dr. Okenwa Okoli, Associate Professor of Industrial and Manufacturing Engineering
Florida State University

Dr. Graham Hubler, Head, Material and Sensors Branch
Naval Research Laboratory

Colonel Russell E. Smith, Director, Fires & Maneuver Integration Division
Capability Development Directorate
US Marine Corps

10:30 Briefing

Identifying Future Solutions to Improve Current Protection

- Identifying gaps in current production and creating recommendations for the future
- Turning wishes into reality
- Looking ahead to the warfighters of 2020

Colonel Russell E. Smith, Director, Fires & Maneuver Integration Division
Capability Development Directorate

US Marine Corps

11:15 Closing Remarks from the Chair and End of Conference

WHY YOU MUST ATTEND

Armor is critical to protecting the warfighters while ensuring they can be lethal in any operating environment. However, the constant development and improvement of weapons is testing warfighter protection equipment every day across the globe. With warfighters' lives at stake, the protection equipment is constantly being modified and upgraded in order to meet the new challenges. But new types of injuries are proving a need for different protection than before.

This **marcus evans Warfighter Protection Program** will provide solutions and ideas to address the current equipment concerns, discuss the future of warfighter protection and ultimately protect warfighters around the world.

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EXHIBITORS



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