GEORGE W. SOLHAN

NAC Director of Customer Affairs

Strategic Planning Consultant

Science & Technology, Innovation, and Application; Operational Modernization Needs, Opportunities and Imperatives; Doing Business With the Federal Government

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Mr. George Solhan serves as the Director of Customer Affairs of the National Armaments Consortium (NAC). Solhan recently retired from the Senior Executive Service, culminating a Federal Civil Service career of 23 years. For the last 9 years at the Office of Naval Research (ONR), he was the Deputy Chief of Naval Research for Expeditionary Maneuver Warfare and Combating Terrorism Science and Technology; the Department Head (ONR 30); and the Director of Marine Corps Science and Technology. He was responsible for leading, managing, directing, and integrating an extensive Science and Technology program ($300+M annually) which consists of basic research, applied research and advanced technology development in a wide range of technical disciplines and warfare areas (including Littoral, Urban, Cyber, and Irregular Warfare) in support of operational requirements of the Navy and Marine Corps.

Solhan's previous assignments include Deputy Director of Technology, Marine Corps Systems Command; Senior Research Scientist, Battelle Memorial Institute; and as a member of the Physics faculty at the Naval Academy and its Preparatory School. While at Battelle, Solhan authored and published a number of studies in the armaments arena. While at the Marine Corps Systems Command, he was also Chairman of the Science and Technology Working Group of the Joint Services Small Arms Program.

Solhan is a retired U.S. Marine Corps Officer with combat experience in the Republic of Vietnam and Infantry and Special Operations experience through the Regimental level.

He earned a B.S. in Mechanical Engineering at the University of Maryland; a M.S. in National Resource Strategy at the National defense University/Industrial College of the Armed Forces; and is a graduate of the Senior Acquisition Course of the Defense Acquisition University. He is a certified Level III Acquisition Professional. He is a National Security Decision-Making Fellow of the Maxwell School of Syracuse University, and a graduate of the Marine Corps Command and Staff College in Quantico, VA. In addition, Solhan is a graduate of Executive Courses at the Elliot School of the George Washington University and the Wharton School of the University of Pennsylvania. Solhan is a recipient of the 2008 Presidential Rank Award and the Department of the Navy Distinguished Civilian Service Award.

ONR 30's Government customers include the following: U.S. Marine Corps (MCSC, PEO Land Systems, MCCDC, HQMC, MARFORs), U.S. Navy (OPNAV, NIWO, NECC), U.S. SOCOM, MARSOC, NavSpecWarCom, JSOC, USASOC. Primary U.S. Government strategic collaborations are with U.S. Army (ASALT, RDECOM, ARL, TRADOC/ ARCIC); DARPA, DHS, JIEDDO, ASD R&E, USCyberCom, and, of course, the Naval Research Enterprise consisting of ONR, the Naval Research Laboratory, and the Naval Warfare Centers. In the

private sector, ONR 30 collaborates with numerous innovative corporations and companies-large, mid, and small cap. ONR 30 also has over 100 significant collaborations with academia.

Solhan envisioned many innovation opportunities -disruptive as well as evolutionary. He formed and led teams to conduct strategic planning, obtain investment resources, build coalitions, and successfully develop and deliver technology breakthroughs in a number of areas (below). These innovations will enable Sailors, Soldiers, and Marines to prevail in their mission and survive in battle.

C4:
• Network Centric Warfare/Interoperability
• Over the horizon, on the move (OTH/OTM) Communications/Gateways
• Small Unit Technologies

Fires:
• Targeting and Engagement
• Advanced Weapons
• Advanced Ammunition
• Fires as a Commodity

Force Protection:
• Explosive Hazard Defeat
• Counter Surveillance & Targeting
• Air Defense/Counter Rockets, Artillery & Mortars
• Personal Survivability

Counter IED:
• Attack the Network
• Anticipate and Affect
• Defeat the Device
• Detection
• Neutralization
• Mitigation

Human Performance, Training & Education (HPT&E):
• Decision Making & Expertise Development
• Physical, Cognitive Optimization
• Warrior Resilience

Human Social Cultural Behavioral Sciences (HSCB):
• Understand Human Networks
• Forecast Trends and Environments
• Mitigate/Shape Outcomes

Intelligence, Surveillance, and Reconnaissance (ISR):
• Persistent/Pervasive/Multi-modal/Multi-spectral
• Knowledge Generation
• ISR/C2 integration for Mission Command
• Ops/Intel Fusion

Logistics:
• Logistics Information
• Packaging/ Handling, Shipping and Transport
• Power/Energy,Water Sustainability and Efficiency
• Infrastructure and Connecting the Connectors

Maneuver:
• Ground Autonomy
• Tactical Mobility
• Survivability

Special Operations Forces/General Purpose Forces (SOF/GPF) Integration:
• Preparation of the Environment/Advance Force Ops.

Joint Non-Lethal Weapons

Lightening the Combat Load

Cyber at the Tactical Edge