



UNITED STATES ARMY SCIENCE BOARD



Biographical Sketch Book

2013





The Army Science Board (ASB) is a federal advisory committee organized under the Federal Advisory Committee Act. It provides the Army with independent advice and recommendations on matters relating to the Army's scientific, technical, manufacturing, acquisition, logistics and business management functions, and other Department of the Army matters as determined by the Secretary of the Army. Army Science Board members and consultants are eminent authorities in science, technology, manufacturing, acquisitions, logistics, business management functions, or other matters of special interest to the Army.

The Army Science Board began in November 1951 when Army Secretary Frank Pace, Jr. appointed twelve outstanding scientists and industrialists as members of a scientific advisory panel to assist him and the Army leadership in creating and effective, economical and progressive fighting force using existing scientific technology and industrial resources. Three years later, this panel was expanded and officially designated the ASAP, with its first formal meeting held on November 16, 1954. The Army Science Board was created in 1971 to replace the ASAP and continues in that function today.

Both members and consultants are appointed under the authority of 5 U.S.C. § 3109 as Special Government Employees, and are subject to federal ethics rules. They serve voluntarily without compensation.

The Board is supported by a full-time government Directorate in the Office of the Deputy Under Secretary of the Army (DUSA).



THE ARMY SCIENCE BOARD

Mr. George T. Singley, III
Chair

Dr. Jim Tegnalia
Vice Chair

COL William McLagan (USA)
Executive Director, Army Science Board Directorate
ASB Designated Federal Officer
(703) 545-8652

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Study Manager
(703) 695-3970
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Study Manager
(703) 695-4656
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Senior Advisor
(703) 697-3001
vivian.m.baylor.civ@mail.mil

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Membership
(703) 545-8654
carolyn.t.german.civ@mail.mil

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Ethics
(703) 693-0451
kimberly.e.sims.civ@mail.mil

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Study Manager
(703) 697-6047
johanna.l.mora.mil@mail.mil

LTC Britt Walker (USA)
Study Manager
(703) 695-5573
brittlan.a.walker.mil@mail.mil

Mr. William Baksi
NARA Database
(703) 545-8651
william.h.baksi.ctr@mail.mil

Mr. Paul Woodward
Security
(703) 695-8344
paul.j.woodward2.civ@mail.mil

Ms. Neia Herbert
Travel
(703) 545-8658
neia.m.herbert.ctr@mail.mil
usarmy.pentagon.hqda-dusa.mbx.asb-
travel@mail.mil (Travel)

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UNITED STATES ARMY SCIENCE BOARD

Members





George T. Singley, III

Chairman, Army Science Board
President, Singley & Associates, LLC

EDUCATION:

M.E., Mechanical Engineering, Old Dominion University	1977
M.B.A., College of William and Mary	1971
B.E.A., Mechanical Engineering, University of Delaware	1968

EXPERTISE:

RDA management
Strategic planning
Systems design and development
Helicopter systems
Weapons systems

EXPERIENCE:

President, Singley & Associates, LLC	2008-present
Vice Chairman, Association of the U.S. Army for Civilian Affairs	2007-present
Group President & Sector VP, Science Applications International Corporation	2001-2007
CEO & President, Hicks and Associates, Inc.	1998-2004
Office of the Secretary of Defense:	
Assistant to the Secretary of Defense for Nuclear, Chemical, and Biological Defense Program (Acting)	1997-1998
Director, Defense Research & Engineering (Acting)	1997-1998
Principal Deputy Director, Defense Research & Engineering	1995-1997
Principal U.S. Representative to the NATO Research and Technology Board and The Technical Cooperation Program (TTCP)	1995-1998
Deputy Assistant Secretary of the Army for Research and Technology	1988-1995
Program Executive Officer for Combat Support Aviation	1987-1988
Assistant Director of Army Research and Technology, Office of the Assistant Secretary of the Army for RDA	1985-1987
Army Aviation Systems Command: Chief, Advanced Concepts Division & Deputy PM, Light Helicopter Experimental	1980-1985
Aerospace Engineer, Aviation Applied Technology Directorate	1970-1980
Army Officer	1968-1970



James A. Tegnella, Ph.D.

Research Professor,
Chemical and Nuclear Engineering Department
University of New Mexico

EDUCATION:

M.S., Engineering Administration, George Washington University	1975
Ph.D., Physics, The Catholic University of America	1968
B.S., Physics, Georgetown University	1964

EXPERTISE:

Physics
Nuclear engineering
Science administration

EXPERIENCE:

University of New Mexico Research Professor, Chemical Nuclear Engineering Department	2009-present
Defense Threat Reduction Agency, Director	2005-2009
Sandia National Laboratories, Vice President	1998-2005
Lockheed Martin Advanced Environmental Systems, Inc., President	1996-1998
Lockheed Martin Corporation, Vice President	1995
Sandia National Laboratories, Executive Vice President and Deputy Director	1993-1995
Martin Marietta Corporation, VP, Business Development, Electronics Group	1987-1993
DARPA, Deputy Director and later Acting Director	1985-1987
Office of the Undersecretary of Defense for Research and Engineering, Assistant Undersecretary of Defense and Acting Deputy Undersecretary of Defense	1982-1985
DARPA, Program Manager and Office Director, Smart Weapons, Radar Sensors, Stealth Technology	1976-1982
United States Army Night Vision Laboratory	1971-1976
United States Army	1968-1971

Department of State International Security Advisory Board
Co-chair, Sandia National Laboratories National Security Advisory Panel
Board of Advisors, George Washington University School of Engineering
Board of Directors, Sandia Science and Technology Park
Board of Directors, Technology Ventures Corporation
Board of Directors, Laguna Industries, Inc.
Chair, Army Science Board
Sigma Xi



Robert G. Atkins, Ph.D.

Assistant Head, Intelligence, Surveillance,
and Reconnaissance and Tactical Systems Division
MIT Lincoln Laboratory

EDUCATION:

Ph.D., Electrical Engineering, Massachusetts Institute of Technology	1993
Electrical Engineer, Massachusetts Institute of Technology	1989
S.M., Electrical Engineering, Massachusetts Institute of Technology	1988
S.B., Electrical Engineering, Massachusetts Institute of Technology	1987

EXPERTISE:

Intelligence, surveillance, and reconnaissance
Air defense
Radar, RF signatures, and electromagnetic modeling
Systems analysis and architecture engineering
Rapid capability development for counterterrorism & counterinsurgency applications

EXPERIENCE:

MIT Lincoln Laboratory	
Assistant Head, Intelligence, Surveillance, and Reconnaissance and Tactical Systems Division	2010-present
Assistant Head, Homeland Protection and Tactical Systems Division	2009-2010
Group Leader, Advanced Capabilities and Systems Group	2006-2009
Associate Group Leader, Systems Analysis Group	2002-2006
Associate Group Leader, Sensor Exploitation Group	2000-2002
Assistant Group Leader, Systems Analysis Group	1999-2000
Technical Staff Member, Air Defense Techniques Group, and Systems and Analysis Group	1993-1999



Yosry Barsoum
Director of Tactical Networks
National Security Engineering Center (NSEC)
The MITRE Corporation

EDUCATION:

M.B.A., Rutgers University	2009
M.E., Electrical Engineering, Stevens Institute of Technology	1995
B.E., Electrical Engineering, Stevens Institute of Technology	1995

EXPERTISE:

System engineering
Communications systems design, analysis and testing
Modeling and simulation
Architecture and design

EXPERIENCE:

The MITRE Corporation	
Director of Tactical Network, National Security Engineering Center	2009-present
Army Division Associate Executive Director	2008-2009
MITRE New Jersey Site Leader	2007-2008
Army Division Chief Engineer	2005-2008
CERDEC Program Manager	2004-2008
Division Sr. Technical Manager for Communications/Networking	2000-2004
Principal Engineer	1998-2000
Lead Engineer	1995-1998
Senior Technical Staff	1990-1995
RCA Global Communications	
MCI Telecommunications	



Joseph J. Beaman, Jr., Sc.D.

Professor, Mechanical Engineering Department
University of Texas at Austin

EDUCATION:

Sc.D., Mechanical Engineering, Massachusetts Institute of Technology	1979
M.S., Mechanical Engineering, The University of Texas at Austin	1975
B.S., Mechanical Engineering, The University of Texas at Austin	1972

EXPERTISE:

Rapid manufacturing
Solid freeform fabrication
Selective laser sintering and 3D printing
Model based control
Manufacturing process control and short run, high value manufacturing

EXPERIENCE:

The University of Texas at Austin	1979-present
Earnest F. Gloyna Chair in Engineering	2002-present
Chair, Department of Mechanical Engineering	2001-2012
Ernest Cockrell, Jr., Memorial Chair in Engineering	2001-2002
Andersen Consulting Endowed Professorship	1991-2001
Temple Foundation Endowed Faculty Fellowship	1990-1991
Associate Professor	1985-1989
Assistant Professor	1979-1985

National Academy of Engineers
Board of Directors, Society of Manufacturing Engineers
Fellow, American Society of Mechanical Engineers
Tau Beta Pi
Phi Kappa Phi



Gisele Bennett, Ph.D.
 Director; Regents' Researcher
 Electro-Optical Systems Laboratory — GTRI

Professor
 School of Electrical and Computer Engineering

EDUCATION:

Ph.D., Electrical Engineering, Georgia Institute of Technology,	1995
Certificate, Management of Technology	1995
M.S.E.E., University of Central Florida	1989
B.S.E., Electrical Engineering, University of Central Florida	1980

EXPERTISE:

Atmospheric Turbulence
 Optical Imaging Systems — Super resolution
 Secure Supply Chain — Cargo Security
 Decision Support Systems

EXPERIENCE:

Georgia Institute of Technology, Atlanta, Georgia	
Georgia Tech Research Institute (GTRI)	1992-present
Regents' Researcher	2011-present
Director, Electro-Optical Systems Laboratory	2005-present
Principal Research Engineer	2005-present
Senior Research Engineer	2000-2005
Founder/Director, Logistics & Maintenance Applied Research Center (LandMARC)	2000-2007
Research Engineer II	1996-2000
Graduate Research Assistant	1992-1995
School of Electrical and Computer Engineering	1990-present
Professor	2005-present
Associate Professor	2004-2005
Adjunct Faculty Member	1996-2003
Graduate Research and Teaching Assistant	1990-1991
University of Central Florida, Orlando, Florida	
Center for Research in Electro-Optics and Lasers (CREOL)	1988-1989



Thomas Bifano, Ph.D.

Director
Boston University Photonics Center

EDUCATION:

Ph.D., Mechanical Engineering, North Carolina State University,	1988
M.S., Mechanical Engineering & Materials Science, Duke University	1983
B.S., Mechanical Engineering & Materials Science, Duke University	1980

EXPERTISE:

Mechanical engineering
Automatic control systems
Microelectromechanical systems
Optics, photonics
Materials engineering

EXPERIENCE:

Boston University	1988-present
Director, Photonics Center	
Professor and Chair, Manufacturing Engineering Dept	1999-2006
Professor, Aerospace and Mechanical Engineering Dept	1999-present
Associate Professor, Aerospace/Mechanical Engineering	1994-1999
Assistant Professor, Aerospace/Mechanical Engineering	1988-1994
Boston Micromachines Corporation, Chief Technical Officer	1999-present
Prism Corporation, President	1995-2000

Board of Directors, American Society of Precision Engineering, 1994-1996

Advisory Board Member, Schott AG, 2009-2011

Associate Editor, Journal of Micro/Nanolithography, MEMS, and MOEMS, 2006-2009

Associate Editor, Manufacturing Science and Production, 2002-2004

Associate Editor, SME J. Manufacturing Processes, 2000-2004



Vanu G. Bose, Ph.D.

President and CEO
Vanu Inc.

EDUCATION:

Ph.D., Electrical Eng & Computer Science, Massachusetts Institute of Technology	1999
M.S., Electrical Eng & Computer Science, Massachusetts Institute of Technology	1994
B.S., Electrical Eng & Computer Science, Massachusetts Institute of Technology	1987
B.S., Mathematics, Massachusetts Institute of Technology	1987

EXPERTISE:

Software radio
Wireless communication
Network architecture
Audio signal processing

EXPERIENCE:

Vanu, Inc., CEO & President	1998-present
Bose Corp, Director of Online Sales and Marketing	
Kalba International, Associate	
Project Orbis, Systems Engineer	



Nancy J. Chesser, Ph.D.

Independent Consultant

EDUCATION:

Ph.D., Physics, State University of New York at Stony Brook	1972
B.A., Physics, Cornell University	1967

EXPERTISE:

Defense systems analysis
Physics
Directed energy
Biometrics
Technology transition

EXPERIENCE:

Independent Consultant	2011-present
Directed Technologies, Inc.	1983-2011
Executive Vice President	2008-2011
Vice President for Technology Analysis	1983-2007
B-K Dynamics, Project Scientist	1977-1983
New York Academy of Sciences	
Sigma Xi	



John-Paul Clarke, Sc.D.

Associate Professor
School of Aerospace Engineering

EDUCATION:

Sc.D., Massachusetts Institute of Technology	1997
S.M., Massachusetts Institute of Technology	1992
S.B., Massachusetts Institute of Technology	1991

EXPERTISE:

Optimization
Control Theory and Applications
Systems Analysis, Architecture and Design
Air Transportation Systems

EXPERIENCE:

Georgia Institute of Technology, Associate Professor	2005-present
Massachusetts Institute of Technology, Associate Professor	2002-2005
Massachusetts Institute of Technology, Assistant Professor	1997-2002
The Boeing Company, Visiting Scholar	1997-1997
Massachusetts Institute of Technology, Graduate Research Assistant	1992-1996
NASA Jet Propulsion Laboratory, Member of Technical Staff	1989-1992



Mary Crannell

President
Idea Sciences, Inc.

EDUCATION:

M.A.T., Education, Colgate University	1981
B.A., International Relations/History, Eisenhower College, Rochester Institute of Technology	1980

EXPERTISE:

Decision-making
Institutional change
Conflict analysis
Social sciences
Education and organizational culture

EXPERIENCE:

Idea Sciences, Inc., Founder and President	2002-present
Science Applications International Corporation Division Manager, Business Development Consultant	1998-2002
Leadership 2000, Senior Vice President	1995-1998
Drake Beam Morin, Inc., Consultant and Senior Vice President	1988-1995
Crannell and Associates, Career Consultant	1987-1988
Drake Beam Morin, Inc., Career Consultant	1986-1987
University of Houston, Senior Advisor	1982-1986

Board Member, The Kogod School of Business, American University



William S. Crowder

Director for Logistics Services and Future Concepts
Logistics Management Institute

EDUCATION:

Industrial College of the Armed Forces	1990
M.B.A., Business/System Design, University of Georgia	1972
B.S., Accounting, University of Alabama	1964
A.A., Business, Marion Military Institute	1964

EXPERTISE:

Strategic concepts on logistics, supply chain, and deployment
Operational logistics
Change management
Systems design and engineering
Program Management of large programs
Contingency contracting
Financial management

EXPERIENCE:

Logistics Management Institute	1993-present
Director, Logistics Services and Future Concepts	2011-present
Director, Future Logistics Concepts	2003-2010
Technology Assessment Program Manager	1997-2002
Research Fellow	1993-1996
United States Army	1967-1993
Chief of Strategic Mobility, HQDA	1990-1993
Commander, Military Traffic Management Command, Port of Yokohama, Japan	1986-1988



Endy M. Daehner, Ph.D.

Policy Analyst/Physical Scientist
RAND Corporation

EDUCATION:

Ph.D., Chemistry, California Institute of Technology	2005
B.A., Human Biology, Stanford University	1997

FIELDS OF EXPERTISE:

Energy
Intelligence, surveillance, reconnaissance
Processing, exploitation, and dissemination
Unmanned air vehicles

EXPERIENCE:

RAND Corporation	2006-present
Full Physical Scientist	2010-present
Associate Physical Scientist	2006-2010
California Institute of Technology, Graduate Researcher	2000-2005
Catalytica, Inc., Research Assistant	1999
San Jose State University	
Chemistry Lecturer	1998
Research Assistant	1997



Siddhartha Dalal, Ph.D.

Adjunct Professor & Executive in Residence
Columbia University

Professor
RAND Corporation

EDUCATION:

Ph.D., Statistics, University of Rochester
MBA, Marketing, University of Rochester

EXPERTISE:

Information Analytics
Information Technology
Machine Learning
Research Management
Network Engineering
Software Engineering
Risk Analysis

EXPERIENCE:

RAND Corporation	2007-present
Adjunct Staff	2012-present
Chief Technology Officer	2007-2012
Professor, Pardee RAND Graduate School of Public Policy	2007-present
Columbia University, Adjunct Professor & Executive in Residence	2012-present
Praedicat, Inc., Board of Directors	2012-present
UCLA School of Engineering, Advisory Board	2011-present
Xerox, Vice President of Research	2003-2007
Bellcore/BellLabs/Telcordia/SAIC, Executive Director & Chief Scientist	1995-2002



MG Joe M. Ernst (USA, Ret)

Principal
Ernst Consulting

EDUCATION:

Harvard University, Program for Senior Executives in National Security	1995
Army War College - Senior Reserve Component Officer Course	1993
Air Force War College	1989
M.S., Horticulture, Texas A&M University	1967
B.S., Agriculture, Texas A&M University	1965

EXPERTISE:

Logistics leadership
Joint operations
Installation security and safety
Production, manufacturing, logistics and distribution
Strategic planning

EXPERIENCE:

Ernst Consulting, Principal	2003-present
Real Estate Enterprises, President and Owner	1969-present
Ernst Enterprises, Partner	1972-present
HEB Grocery Company, Marketing Director	1979-2002
United States Army	1965-2003
Assistant Deputy Commanding General, Army Materiel Command	1999-2003
Commanding General, 377 th Theater Support Command	1997-1999
Commanding General, 125 th Army Reserve Command	1994-1996
Deputy Commanding General, 90 th ARCOM	1992-1994
Deputy Commanding General, 377 th Theater Support Command	1990-1992



Helen Greiner

CEO
CyPhy Works

EDUCATION:

M.S., Electrical Eng. & Computer Science, Massachusetts Institute of Technology 1990
B.S., Mechanical Engineering, Massachusetts Institute of Technology 1989

EXPERTISE:

Robotics
Unmanned systems
Terrain sensing
Autonomy
Mechatronics

EXPERIENCE:

CyPhy Works, CEO	2008-present
iRobot, Chairman and Co-Founder	2004-2008
iRobot, President and Co-Founder	1994-2004
iRobot, VP of Engineering and Co-Founder	1990-1994

MIT Board of Trustees
NDIA Trustee
Robotics Technology Consortium, President
IEEE TEPRA Conference, Chair
Boston Museum of Science, Board of Directors
Army War College Advisory Board



Patricia L. Gruber, Ph.D.

Deputy Director, Applied Research Laboratory
Pennsylvania State University

EDUCATION:

Ph.D., Applied Marine Physics, University of Miami	1987
M.S., Physical Oceanography, University of Miami	1981
B.S., Meteorology, Pennsylvania State University	1978

EXPERTISE:

Applied physics
Surveillance
Information technology
Telecommunications
S&T management

EXPERIENCE:

Pennsylvania State Univ., Deputy Director, Applied Research Laboratory	2009-present
Office of Naval Research, Director of Research	2006-2009
Pennsylvania State Univ., Sr. Research Associate, Applied Research Laboratory	2003-2005
MARCONI, Business Development Director, Communications	2000-2002
AT&T Solutions, Solutions Architect/Systems Engineer	1996-2000
Lucent Technologies, Technical Manager/Systems Engineer	1993-1996
AT&T Bell Laboratories, Program Manager, Federal Systems	1989-1993
Naval Research Laboratory, Research Physicist, Acoustics Division	1984-1989



Richard A. Guida

Managing Director
Guida Technology Associates, Inc.

EDUCATION:

M.B.A., The George Washington University	1981
M.S., Nuclear Engineering, Massachusetts Institute of Technology	1973
B.S., Electrical Eng. & Computer Science, Massachusetts Institute of Technology	1973

EXPERTISE:

Information technology
 Information security
 Nuclear engineering
 Spent nuclear fuel management and transportation

EXPERIENCE:

Guida Technology Associates, Inc., Managing Director	2011-present
Johnson & Johnson	
Vice President, Worldwide Information Security	2008-2011
Director, Information Security	2001-2008
Department of the Treasury, Senior Technical Advisor to the Treasury CIO	1998-2001
Department of the Navy	
Associate Director for Regulatory Affairs	1988-1998
Naval Nuclear Propulsion Program	
Senior Engineer and Program Manager	1977-1988
Naval Officer and Reactor Engineer	1973-1977

Certified Information Systems Security Professional (current)
 Professional Engineer, Commonwealth of Virginia (1978-2001)



Jill Harp, Ph.D.

Professor of Biochemistry, Chair, Department of Life Sciences
Winston Salem State University

EDUCATION:

Ph.D., Organic Chemistry, University of Maryland, College Park 1991
B.S., Chemistry, York College, City University of New York 1985

EXPERTISE:

Bioorganic chemistry
Neuroscience
Accreditation/Assessment of academic programs and policies
High Education Administration

EXPERIENCE:

Winston Salem State University	1997-present
Professor and Chair, Department of Life Sciences	2011-present
Member, SACS Executive Leadership Team	2007-present
Associate Professor, Department of Life Sciences	2003-2011
Assistant Professor, Physical Science Department	1997-2003
Wake Forest University School of Medicine	2003-present
Adjunct Assistant Professor	
North Carolina A&T State University, Assistant Professor	1995
Wake Forest School of Medicine Instructor, HCOP Program	1995
Bennett College, Assistant Professor	1993-1995

National Computational Science Institute (NCSI) Steering Committee Member
Southern Accreditation of Colleges and Schools Consultant 2010-present



Margaret Harrell, Ph.D.

Director, Military, Veterans and Society Program
Center for a New American Security

Senior Social Scientist; Director
Army Health Program, RAND Corporation

EDUCATION:

Ph.D., Cultural Anthropology, University of Virginia	2000
M.S., Systems Analysis, The George Washington University	1991
B.A., Cultural Anthropology, University of Virginia	1986

EXPERTISE:

Military manpower and personnel
Military Health
System dynamics simulation modeling
Veteran services
Qualitative research methods
Military families, quality of life, and effects of deployment on military families

EXPERIENCE:

RAND Corporation, Director, Army Health Program	2011-2012
Center for a New American Security	2011-2012
Senior Fellow; Director, Military, Veterans, and Society Program	
RAND Corporation	1990-2011
Associate Director	2004-2011
Senior Social Scientist, Center for Forces, Resources and Policy	
Senior Social Scientist	2002-2004
Social Scientist	2000-2002
Associate Operations Research Analyst	1990-2000
CACI, Associate	1989-1990
Booz Allen & Hamilton, Management Consultant	1987-1989



Michael Heinz

President, MHH Systems Corporation

EDUCATION:

M.B.A., Business Administration, Washington University, St. Louis	1988
M.S., Aeronautical and Aerospace Engineering, Stanford University	1967
B.S., Aeronautical and Aerospace Engineering, University of Notre Dame	1966
B.A., University of Notre Dame	1965

EXPERTISE:

Program Management
Systems Engineering and Integration
Advanced Systems Development
Strategic Planning and Assessment
Weapons Systems

EXPERIENCE:

MHH Systems Corporation, President	2006-present
Boeing Company	1998-2005
Vice President and General Manager, Integrated Defense Adv. Systems	2004-2005
Vice President and Deputy General Manager, Integrated Defense Advanced Systems	2002-2004
Vice President and General Manager, Aircraft and Missiles Division, Unmanned Systems	2001-2002
Vice President and Deputy Program Manager, Aircraft and Missiles Division, Joint Strike Fighter	1998-2001
McDonnell Douglas	1967-1998
Aircraft Company, F/A-18 A/B/C/D Program Vice President	1996-1998
Phantom Works, System Assessment and Planning, Vice President and General Manager	1994-1996
Astronautics Company, Harpoon/SLAAM Programs, Vice President and Program Manager	1993-1994
Astronautics Company, Mission Planning Systems Division, Vice President and Program Manager	1991-1993
Staff Vice President Strategic Business Development	1989-1991
Missiles Company, Propulsion and Systems Engineering, various management and program management assignments	1967-1989



MG Charles R. Henry (USA, Ret.)

President
CRH Inc.

Consultant
Federal Acquisition Process, Logistics, and the Defense Industry

EDUCATION:

U.S. Army War College	1982
L.L.M., J.D., Woodrow Wilson Law School	1976
B.S., Economics, Middle Tennessee State University	1959

EXPERTISE:

DOD acquisition system
Supply chain logistics
Business operations, including planning, operations, execution, and P&L (profit/loss)

EXPERIENCE:

CRH Inc., President	
Consultant, Federal Acquisition Process, Logistics, and the Defense Industry	2007-present
C.E. Gillman Company, Chief Operating Officer	2006-2007
National Veterans Business Development Corporation, President and CEO	2001-2004
LFR Group, Chairman and CEO	2000-2001
LFR Group, President	1997-2000
Science Applications International Corporation, Senior Consultant	1996-1998
Allied Research Corporation Services, President	1993-1996
United States Army	1959-1993
DCMC, Chief Executive Officer, Commander (First Commander)	1990-1993
Defense Logistics Agency, Deputy Director	1988-1992
U.S. Army Competition Advocate General	1985-1988
Defense Logistics Agency, Chief of Staff,	1984-1985
Cleveland Defense Contract Administration, Chief Operating Officer	1981-1984
Member, The National Research Council, Committee on Manufacturing Trends	2004-2005
Director, Molycorp (NYSE); Audit Committee; Safety	
Director, Gaming Partners (NASDAQ) Vice-Chairman, Audit	
Director, Imperatis Corp, Chairman of Board	
Director, Procurement Round Table	



RADM Grant T. Hollett, Jr.
(US Navy, Ret.)

Senior Advisor, EaglePitcher Technologies

Senior Advisor, The O’Gara Group

EDUCATION:

Harvard University, National Security Course for Senior DOD Executives	1994
M.S. equivalent, Navy Nuclear Power, Naval Postgraduate School	1966
B.S., Mechanical Engineering, Duke University	1964

EXPERTISE:

Joint operations
Nuclear engineering
Manufacturing
Electrochemistry
Robotics

EXPERIENCE:

The O’Gara Group, Senior Advisor	2011-present
EaglePitcher Technologies, CEO/Chairman/Senior Advisor	2001-2011
Siemens Motion Controls Systems, Vice President and General Manager	2000-2001
Vickers Electronic Systems, Group Vice President	1996-1999
Cherry Electrical Products, President and other senior positions	1981-1996
Energy and Pollution Controls, Inc., Vice President	1978-1981
Procter and Gamble, Senior manufacturing management	1969-1978
United States Navy, Rear Admiral	1964-2000
US Navy, Nuclear Power Program	1964-1969

Duke University School of Engineering Board of Visitors
Board positions in US/Japan/Germany/India



Susan Houde-Walter, Ph.D.

CEO
LaserMax Inc.

EDUCATION:

Ph.D., Optics, University of Rochester	1987
M.S., Optics, University of Rochester	1983
B.A., Liberal Arts, Sarah Lawrence College	1976

EXPERTISE:

Laser physics
Optical engineering
Optical materials
Weapons systems (small arms)
Engineering education

EXPERIENCE:

University of Arizona, Adjunct Professor, College of Optical Sciences	2005-present
Minnesota State University, Force Science Research Center, Technical Advisor	2005-present
LaserMax, Inc., CEO	2002-present
LaserMax, Inc., President	2000-2002
University of Rochester, The Institute of Optics, Full Professor	1998-2005
Associate Professor	1993-1998
LaserMax, Inc, Co-Founder and Co-Owner	1989-present

President, Optical Society of America
Board of Directors, Optical Society of America
Fellow, American Ceramic Society
Fellow, Optical Society of America



Jeffrey A. Isaacson, Ph.D.

Vice President
Sandia National Laboratories

EDUCATION:

Ph.D., Theoretical Physics, Massachusetts Institute of Technology	1991
M.S., Chemical Engineering, Princeton University	1984
B.S., Nuclear Engineering, Columbia University	1982

EXPERTISE:

Military space
Ballistic missile defense
Systems engineering

EXPERIENCE:

Sandia National Laboratories	
Vice President, Defense Systems and Assessments	2011-present
Combined Security Transition Command-Afghanistan,	
Chief, Afghan National Army Construction (mobilized reservist)	2009-2010
RAND Corporation	
Vice President and Director, Army Research Division	2007-2011
Lockheed Martin Space Systems Company, Program Management Director	2004-2007
RAND Corporation	
Vice President, National Security Research Division	2000-2004
Director, International Security and Defense Policy Center	1998-2000
Research Staff	1991-1998



Bruce D. Jette, Ph.D.

President & CEO Synovision Solutions LLC

EDUCATION:

Ph.D., Electronic Materials, Massachusetts Institute of Technology	1993
M.S., Electronic Materials, Massachusetts Institute of Technology	1991
B.S., Nuclear Engineering & Chemistry, United States Military Academy	1976

EXPERTISE:

Acquisition
Change management
Leadership
Unmanned Systems
Energy Systems
Army Operations

EXPERIENCE:

Synovision Solutions LLC, President and CEO	2002-present
United States Army	1976-2005
Director, Rapid Equipping Force	2002-2005
Deputy Director, Objective Force Task Force	2001-2002
Project Manager, Soldier Systems	1998-2001
Product Manager, Aerial Common Sensor	1995-1998
Strategic Science Advisor to the Chief of Staff of the Army	1993-1995
Senior Research Officer, Electronic and Power Sources Laboratory	1987-1993
Brigade and Battalion Operations Officer supporting NATO	1985-1987
Marketing Executive, Training with industry, Procter & Gamble	1981-1982



Sung M. Lee, Ph.D.

Senior Operational Staff
Carnegie Mellon University, Software Engineering Institute

EDUCATION:

Ph.D., Physics, The Ohio State University	1965
M.S., Physics, The Ohio State University	1959
B.S., Physics, Yonsei University, Korea	1955

EXPERTISE:

Ground vehicle mobility, vulnerability, survivability
Infrared optics (target signature analysis and countermeasures)
Biometrics
Graduate education
Research program portfolio development and administration

EXPERIENCE:

Carnegie Mellon University, Software Engineering Institute, Senior Operational Staff	2000-present
Michigan Technological University, Vice Provost for Research and Dean of the Graduate School	1991-2000
Dean of the Graduate School	1988-1991
Keweenaw Research Center, Director	1976-1991
Assistant Professor, Associate Professor, Professor of Physics	1965-2000
Denison University, Assistant Professor of Physics	1961-1965

Advisory Committee, Michigan Transportation Research Program
Board of Directors, Korea-US Science Cooperation Center
Board of Directors, Council of Graduate Schools
Chair, Midwestern Association of Graduate Schools
Executive Committee, Council of Research Policy and Graduate Education,
National Association of State Universities and Land Grant Colleges
Antarctica Service Medal of the United States, National Science Foundation (1987), The United States Navy (1987)



MG Lester Martinez-Lopez, M.D. (USA, Ret)

Senior Independent Medical Consultant

EDUCATION:

M.P.H., Johns Hopkins University, School of Hygiene and Public Health	1984
M.D., University of Puerto Rico, School of Medicine	1978
B.S., Pre-Med, University of Puerto Rico	1976

EXPERTISE:

Medical research management
Medical quality and patient safety
Medical research translation
Deployment medical operations and logistics
Disaster management and humanitarian response

EXPERIENCE:

Senior Independent Medical Consultant	Present
Brandon Regional Hospital, Chief Medical Officer	2007-2010
Lyndon B. Johnson General Hospital, Senior Vice-President and Administrator	2006-2007
BIOMED Solutions International, Inc., President & CEO	2006
United States Army	
Commanding General, U.S. Army Medical Research and Material Command & Fort Detrick, MD.	2002-2005
Commanding General, U.S. Army Center for Health Promotion and Preventive Medicine	2000-2002
Command Surgeon, U.S. Army Forces Command	1999-2000
Joint Task Force Aguila Surgeon	1998
Commander, Martin Community Hospital	1998-1999
Commander, Blanchfield Community Hospital	1996-1998
Chief Medical Officer, United Nations Mission to Hati	1995
Commander, 86 th Combat Support Hospital	1994-1996
Army War College	1993-1994
Chief, Department of Family Practice and Community Medicine	1990-1993
Division Surgeon, 4 th ID	1988-1990

Fellow, American Academy of Family Physicians
The United States Surgeon General's Medallion



Allan T. Mense, Ph.D., PE

Principal Engineering Fellow
Raytheon Missile Systems

EDUCATION:

Ph.D., Nuclear Engineering /Plasma Physics, University of Wisconsin	1977
M.S., Industrial Engineering, Arizona State University	1999
M.S., Engineering Physics /Nuclear Engineering, University of Arizona	1970
B.S., Engineering Physics /Nuclear Engineering, University of Arizona	1968

EXPERTISE:

Research and development management
Tactical and strategic missile systems
Directed energy weapons and EO sensors
Reliability and statistical analysis techniques
Advanced energy technologies

EXPERIENCE:

Raytheon Missile Systems, Principal Engineering Fellow	2001-present
Motorola Corporation, SATCOM and Advanced Systems, Lead Systems Engr.	1998-2001
Advanced Technology Management, Inc., President	1990-1998
Florida Institute of Technology, Vice President for Research and Professor of Physics	1986-1990
SDIO, Department of Defense, Chief Scientist	1984-1986
McDonnell Douglas Astronautics Co., Project Manager/Senior Engineer	1981-1984
U.S. House of Representatives, Senior Scientific Staff, Science and Technology Committee	1979-1981
Oak Ridge National Laboratory, Research Scientist	1976-1979

Registered Professional Engineer, State of Arizona
Institute of Electrical and Electronic Engineers, Senior Member
Past Chair, IEEE Energy Policy Committee
American Institute of Aeronautics and Astronautics, Senior Member
Sigma Xi
Alpha Tau Mu Industrial Engineering Honorary



Maria Mouratidis, Psy.D.

Associate Professor and Department Chair
Department of Psychology
Notre Dame of Maryland University

EDUCATION:

Psy.D., Psychology, Argosy University	2002
M.A., Clinical Psychology, Loyola University Maryland	1992
B.A., Psychology, Loyola University Maryland	1991

EXPERTISE:

Psychology
Military Mental Health
Psychotherapy
Neuropsychology and Neuroscience
Strategic planning
Post-traumatic stress disorder, traumatic brain injury
Suicide

EXPERIENCE:

Notre Dame of Maryland University, Department of Psychology, Chair and Associate Professor	2009-present
Psychologist, Independent Practice	2009-present
Loyola University Maryland, Affiliate Faculty	2006-present
National Naval Medical Center, Psychologist and Command Consultant	2005-2009
Yale University School of Medicine, Assistant Professor of Psychiatry	2003-2006
The National Institutes of Health, Guest Scientist Appointment	2000-2003
Johns Hopkins University School of Medicine, Research Program Coordinator	1998-2001
Private Practice	1994-2001

The American Psychological Association
International Neuropsychological Society



Olugbemiga A. Olatidoeye, Ph.D.

Professor/Director
Clark Atlanta University

EDUCATION:

Ph.D., Expert Systems-Intelligent Graphics, Georgia Institute of Technology	1992
M.S.C.E., Engineering Computer Graphics, Georgia Institute of Technology	1990
M. Arch., Architecture-Solar Energy, Virginia Polytechnic Institute and State University	1985
B.S.A.E., Structures, North Carolina A&T State University	1982

EXPERTISE:

Fluid-structure interaction problems using high performance computing
Alternative and renewable energy
Visualization, simulation models
CAD/CAM/GIS/geospatial
Sustainable environment

EXPERIENCE:

Clark Atlanta University Coordinator, Dual Degree Engineering Program	2004-present
Professor of Engineering	1999-present
Director, Center for Alternative, Renewable Energy Technology and Training (CARET ²)	1992-present
Director, AUC Sustainable Campus Community Initiative (ASCCI)	2010-present
Director, Visualization, Simulation and Design Laboratory	1992-present
CEO, Tido Tech International, LLC	1995-present

Board of Directors, Georgia Institute of Technology
Regional Sustainability Advisory Board, DOE-ORNL
Gamma Beta Phi Honor Society
Tau Beta Pi National Engineering Honor Society



Isaac Porche, Ph.D.

Associate Director, Force Development and Technology Program
RAND Corporation

EDUCATION:

Ph.D., Department of Electrical Engineering and Computer Science, Systems Division, University of Michigan	1998
M.S., Electrical Engineering, University of California, Berkeley	1992
B.S., Electrical Engineering, Southern University	1989

EXPERTISE:

Cyber space operations
Big Data
Rapid acquisition
Science of networks
Intelligence Surveillance and Reconnaissance
Electronic warfare

EXPERIENCE:

RAND Corporation, Senior Engineer	1998-present
Environmental Research Institute of Michigan, Transportation Research Engineer	1995-1997
General Motors Electric Vehicles, Project Engineer	1990-1994



James Providakes, Ph.D.

Executive Director, Army Programs Directorate
The MITRE Corporation

EDUCATION:

Ph.D., Electrical Engineering, Cornell University	1990
M.S., Electrical Engineering, Worcester Polytechnic University	1981
B.S., Electrical Engineering, Worcester Polytechnic University	1979

EXPERTISE:

C4ISR architecture analysis
Communication systems analysis
Advanced command and control activities
Intelligence reconnaissance sensor systems analysis/modeling
System engineering of distributed information systems

EXPERIENCE:

The MITRE Corporation	1988-present
Director, Army Programs Division	2006-present
Director, Washington C3 Center	2003-2006
Director, Chief Engineer, Army Systems and Technology Division	1997-2003
Executive Director, Air Force Center for Robust Global Operations	1995-1997
Executive Director, Air Force ESC/EN	1992-1995
Deputy Chief Engineer, Washington C3 Center, Army Battlefield Systems Division	1990-1992
Technical Director, Over the Horizon Radar	1988-1990
Lead Scientist	1988
Army SATCOM Agency, SATCOM Engineer	1985-1988
United States Army, Captain	1981-1985
Army Future Combat Systems Senior Advisory Board	
National Academies / National Research Council Naval Studies Board	2007-2010



Thomas Ramos

Physicist
Lawrence Livermore National Laboratory

EDUCATION:

S.M., Physics, Massachusetts Institute of Technology	1977
B.S., General Engineering, United States Military Academy	1969

EXPERTISE:

Systems engineering of weapons systems
Intelligence analysis
High energy explosives
Lasers and other forms of directed energy
Nuclear weapons design

EXPERIENCE:

Lawrence Livermore National Laboratory, Special Assignment to Principal Associate Director for Weapons and Complex Integration	2012-present
Program Director for Department of Defense Programs	2008-2012
Lawrence Livermore National Laboratory, Program Leader	1994-2008
Department of Defense, Member of the Deutsch Commission	1994
Office of the Assistant to the Secretary of Defense for Atomic Energy, Special Advisor to the Secretary of Defense	1991-1993
Lawrence Livermore National Laboratory, Military Affairs Liaison	1989-1991
Department of Energy, Arms Control Analyst	1989
Lawrence Livermore National Laboratory, Nuclear Weapons Designer	1981-1989
United States Military Academy, Assistant Professor of Physics	1977-1981

Licensed Professional Engineer, State of Virginia



Christopher Rose, Ph.D.

Professor

Rutgers University, the Wireless Information Network Laboratory

EDUCATION:

Ph.D., Electrical Engineering and Computer Science, MIT	1995
S.M., Electrical Engineering and Computer Science, MIT	1981
B.S., Electrical Engineering and Computer Science, MIT	1979

EXPERTISE:

Communication Theory
Information Theory
Wireless Communication

EXPERIENCE:

Rutgers University	1990-present
Professor, Electrical and Computer Engineering	2003-present
Associate Director, WINLAB	1999-2007
Associate Professor, Electrical and Computer Engineering	1996-2003
Assistant Professor, Electrical and Computer Engineering	1990-1996
AT&T Bell Laboratories, Member Technical Staff, Network Systems Research Department	1985-1990



Stephen M. Scalera

Director, Business Development &
Mission Applications, Survivability & Targeting Solutions
BAE SYSTEMS, Electronic Solutions

EDUCATION:

M.S., Electrical Engineering, University of New Hampshire 1995
B.S., Electrical Engineering, University of New Hampshire 1993

EXPERTISE:

Research and development management
Strategic planning
ISR
System design and development

EXPERIENCE:

BAE SYSTEMS, Electronic Solutions 2000-present
Program Director Business Development & Mission Applications, 2011-present
Survivability & Protection Solutions
Program Director, Collection & Exploitation Solutions, 2010-2011
Information, Surveillance, & Reconnaissance
Program Director, Advanced ISR Solutions, 2009-2010
Information, Surveillance, & Reconnaissance
Technical Director, Advanced Sensors & Distributed Processing 2000-2009
Sanders/Lockheed Martin 1994-2000
Technical Development Manager 1997-2000
Electrical Engineer/Team Leader 1994-1997

Tau Beta Pi



Lawrence Schneider

Vice President and Director,
Ground Forces Information Systems
Defense Systems Division
Northrop Grumman Information Systems

EDUCATION:

Army War College	1989
M.A., Political Science, University of Kansas	1980
B.A., Psychology, Park College	1975

EXPERTISE:

Intelligence
Special operations
Mission command
Counterintelligence/HUMINT

EXPERIENCE:

Northrop Grumman Defense Systems Division, Ground Forces Information Systems	1996-present
G2, III Corps	1991-1996
G2, 1 st Cavalry Division	1989-1991
Military Attaché Philippines	1982-1988

Member, MI Hall of Fame, 2005



MG Ronald M. Segal (USAF, Ret), Ph.D.

Vice President and Enterprise Executive for
Energy and the Environment
Colorado State University/The Ohio State University

EDUCATION:

Ph.D., Electrical Engineering, University of Colorado	1982
M.S., Physics, Ohio State University	1975
B.S., Math and Physics, U.S. Air Force Academy	1974

EXPERTISE:

Aerospace technology
Energy technology
Systems engineering
Research and development management

EXPERIENCE:

Colorado State University/The Ohio State University, Vice President and Enterprise Executive for Energy and the Environment	2010-present
Colorado State University, Director, Graduate Studies in Systems Engineering, Woodward Professor of Systems Engineering	2007-present
Under Secretary of the Air Force, The Department of Defense Executive Agent for Space	2005-2007
Office of the Secretary of Defense, Director of Defense Research and Engineering	2001-2005
Major General (U.S. Air Force Reserves), Reserve Assistant to the Chairman of the Joint Chiefs of Staff	2001-2005
University of Colorado, Dean, College of Engineering and Applied Science	1996-2001
Astronaut	1990-1996
University of Colorado at Colorado Springs, Professor	1982-present
Air Force Space Command, Air Force Reserve Officer, Mobilization Assistant to Commander	1987-2001
Air Force Academy, Technical Director, Lasers and Aerospace Mechanics Dir.	1987-1988
Air Force Reserve, Pilot/Chief, Command Post/Operations Plans Officer	1982-1987
United States Air Force Academy, Assistant Professor/Instructor, Physics	1979-1982
Air Force Instructor Pilot	1976-1979



James D. Shields

President & CEO

The Charles Stark Draper Laboratory Inc.

EDUCATION:

M.S., Electrical Engineering, Massachusetts Institute of Technology	1972
B.S., Electrical Engineering, Massachusetts Institute of Technology	1972

EXPERTISE:

Guidance Navigation and Control
Systems Engineering and Analysis
Autonomous Systems
Logistics
Data Fusion

EXPERIENCE:

Charles Stark Draper Laboratory, President and CEO	2006-present
Vice President for Program	2001-2006
TASC	1994-2001
Vice President, Transportation and Strategic Operations	1996-2001
Vice President, Systems Integration Group	1995-1996
Vice President, Information System Sector	1994-1994
Line Management, Vice President	1988-1994



Teresa Smith

Deputy to the Chief Technology Officer
Northrop Grumman Corporation

EDUCATION:

General Manager's Program, Harvard Business School	2001
Harvard Business School First Year, MBA Program	1989
B.S., Electrical Engineering, Johns Hopkins University	1979

EXPERTISE:

Research and development management
Strategic planning
System design and development
Electronics
Command and control

EXPERIENCE:

Northrop Grumman	1995-present
Deputy to the Chief Technology Officer	2010-present
Corporate Lead Executive, IED Defeat Integration Group	2007-2010
Director, Electronic Systems, Systems Development and Technology	2005-2007
Director, Electronic Systems, Strategic Planning	2001-2005
Director, Advanced Technology Center, Microelectronic Technology	1995-2001
Westinghouse Advanced Technology Division	1985-1995
Manager, Linear, Optics and Power Technologies	1990-1995
Program Manager, GaAs Microwave Technology	1989-1990
Manager, Analog and Memory Design	1985-1990
White House Fellow, Special Assistant to the Administrator of NASA	1984-1985
Westinghouse Advanced Technology Division, Associate Engineer	1979-1984

Department of Homeland Security Science and Technology Advisory Committee
University of Texas Center for Electromechanics, Advisory Board
IEEE Senior Member
White House Fellow, Class of 1984-1985



William E. Snowden, Ph.D.

Technical Consultant
System Planning Corporation

EDUCATION:

Ph.D., Materials Science and Engineering, University of California, Berkeley	1976
M.S., Materials Science and Engineering, University of California, Berkeley	1971
B.S., Ceramic Engineering, Alfred University	1969

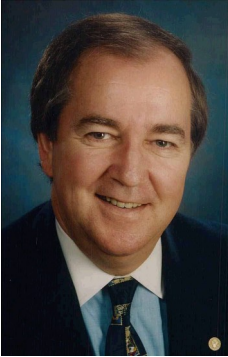
EXPERTISE:

Materials science
Microtechnology and applications
Armor/anti-armor technology
Active protecting systems
Defense technology

EXPERIENCE:

System Planning Corporation, Technical Consultant	1993-present
Science and Technology Associates, Inc. Vice President, Member of the Technical Staff	1992-1993
Failure Analysis Associates, Inc., Director	1989-1992
Office of the Secretary of Defense (OSD) Special Assistant to DUSD (Research and Advanced Technology)	1986-1989
Lawrence Livermore National Laboratory, Program Manager, Advanced Strategic Defense Systems	1985-1986
Defense Advanced Research Projects Agency, Project Manager, Defense Sciences Office	1983-1985
Lawrence Livermore National Laboratory, Materials Scientist, Chemistry and Materials Science Department	1979-1983
Corning Glass Works and General Electric Company, Research Scientist	1975-1979

Member, Keramos national professional honor fraternity



Ivan A. Somers, Ph.D.

President

GTP Associates LLC

EDUCATION:

Public Policy Institute, Kennedy School of Government, Harvard University	1991
Ph.D., Information Systems and Strategic Planning (Dual Degree), University of Southern California	1982
M.S., Financial Information Systems, University of Southern California	1975
M.B.A., Finance, University of California, Los Angeles	1974
B.S., Electrical Engineering, University of California, Los Angeles	1967

EXPERTISE:

Aeronautics
Remote Sensors
Unmanned Aeronautical Systems
Program Management
Satellite Imaging Systems
Systems Engineering and Integration

EXPERIENCE:

GTP Associates, LLC, President	2001-present
Virginia Center for Innovative Technology Industry Director for Aerospace and Transportation Technologies	1997-2001
Hughes Aircraft Company Chief Scientist Director New Business Program Manager	1980-1997
Presidential Executive, Executive Office of the President, Special Assistant	1989-1991
University of Southern California, Adjunct Faculty	1980-1991
Hughes Aircraft Company, Project and Program Manager, Electro-Optical and Data Systems Group	1970-1989
President's Ambassador, University of Southern California Board of the Virginia Aerospace Business Roundtable Advisory Council for the NASA-funded Virginia Space Grants Consortium Fairfax County Transportation Advisory Commission Vice Chair of the Rail to Dulles Task Force Land Use Commission	2004-present



Wesley E. Stites, Ph.D.

Professor of Chemistry and Biochemistry
University of Arkansas

EDUCATION:

Ph.D., Biochemistry, Massachusetts Institute of Technology	1988
B.A., Chemistry, Johns Hopkins University	1983
M.A., Chemistry, Johns Hopkins University	1983

EXPERTISE:

Protein structure-function
Redox regulation of protein function
Post-translational modification of proteins
Blood coagulation
Protein folding and stability

EXPERIENCE:

University of Arkansas, Professor of Chemistry and Biochemistry	1991-present
Johns Hopkins University School of Medicine, Postdoctoral Fellowship	1988-1991
Massachusetts Institute of Technology, Graduate Research	1983-1988
Rohm and Haas Company, Research Staff	1983



David W. Swindle, Jr., P.E.

Executive Vice President, Federal Services
URS Corporation

EDUCATION:

M.B.A., Industrial Management, University of Tennessee	1981
M.S., Nuclear Engineering, Virginia Polytechnic Institute and State University	1977
B.S., Engineering Science - Nuclear, Tennessee Technological University	1976

EXPERTISE:

Logistics, contingency operations, and acquisition management
Intelligence assessments
International business operations
Signals Intelligence (MASINT)
Nuclear safeguards and security

EXPERIENCE:

URS Corporation, Executive Vice President, Federal Services	2009-present
Independent Consultant, Energy, Defense, Advisory Services	2009
IAP Worldwide Services, Inc., President	2005-2009
Kellogg Brown & Root Services, Inc., Vice President	2003-2005
EG&G Technical Services Inc. Vice President, Assistant General Manager, Engineering/ Technology Service	2002
Vice President, Deputy General Manager, Science and Engineering Division	1999-2002
Radian International Vice President, Aerospace and Energy Programs	1998-1999
Sector Manager, Aerospace and Defense Industries	1996-1997
Principal Program Manager, Corporate Operations	1992-1996
Martin Marietta Energy Systems Inc. Director, Technical Integration Programs	1977-1991
Division Director, International Technology Programs	
Manager, Technology and Safeguards Department	
Manager, U.S. Enrichment Safeguards Program	

Phi Kappa Phi

Tau Beta Pi

Omicron Delta Kappa



William J. “Jerry” Tait, Jr.

Director of Intelligence Programs
CGI Federal Defense and Intelligence

EDUCATION:

Master of Strategic Studies, Air War College	2003
M.E., Human Resource Education, Boston University	1991
B.A., Communication, University of Alabama	1980

EXPERTISE:

Intelligence, surveillance, and reconnaissance
Counterintelligence and human intelligence
Joint and combined operations
Combating terrorism
Spiral development

EXPERIENCE:

CGI Federal Defense and Intelligence, Director of Intelligence Programs	2010-present
United States Army	1980-2010
Executive Officer to the Commanding General, III Corps	
Inspector General, III Corps	
Intelligence Advisor, Commander’s Transition Team, Multi-National Force-Iraq	
Director of Intelligence-G2, III Corps/CJ2, Multi-National Corps-Iraq	
Deputy Operations and Plans Officer-G3, III Corps	
Commander, 104 th Military Intelligence Battalion, 4 th Infantry Division	
Director of Intelligence-G2, 4 th Infantry Division	
Intelligence Analyst and Advisor, Commander’s Initiatives Group, U.S. Forces Korea	



Grant M. Warner, Ph.D.

United Technologies Corporation Assistant Professor
Howard University

EDUCATION:

Ph.D., Mechanical Engineering, Columbia University	2003
M.S., Mechanical Engineering, Pennsylvania State University	1996
B.S., Mechanical Engineering, Cornell University	1993

EXPERTISE:

Structural dynamics
Bio-mechanics
Energy harvesting

EXPERIENCE:

Howard University, Department of Mechanical Engineering United Technologies Corporation Assistant Professor	2006-present
Northeastern University, Department of Mechanical, Industrial, and Manufacturing Engineering, Assistant Professor	2003-2006

Member, New England Board of Higher Education



BG Robert Wynn (U.S. Army, Ret.)

Consultant

EDUCATION:

M.S., Electrical Engineering, University of Tennessee	1971
B.S., United States Military Academy at West Point	1964

EXPERTISE:

Battlefield and strategic communications systems
Tactical ISR systems
Electrical engineering, computers and information systems
Combat developments and program management
Army planning, programming and budgeting

EXPERIENCE:

Independent Consultant	2008-present
Harris Corporation, Defense Communications and Electronics, Senior Executive Account Manager and Vice President, Army Customer Segment	1997-2008 2006-2008
Vice President & WIN-T Capture Manager, Government Communications System Division, Army Customer Segment	2002-2006
Vice President, Business Development, Eastern Region Field Office	1997-2002
Electrospace Systems Inc. & Raytheon Company, C4 Systems, Director	1995-1997
United States Army	1964-1995
Commanding General, Information Systems Engineering Command & Program Manager for Army Information Systems	1992-1995
Commanding General, 7th Signal Command	1990-1992
Deputy Chief of Staff, Information Management, TRADOC	1988-1990
Commander, 2nd Signal Brigade, USAEUR	1986-1988
Chief of Staff/Deputy Commander, 5th Signal Command	1984-1986
Division Chief, Force Developments Requirements (FDR), HQDA	1983-1984

Armed Forces Communications Electronics Association
Government Electronics Industry Association



Marc A. Zissman, Ph.D.

Associate Head of the Cyber Security and
Information Sciences Division
MIT Lincoln Laboratory

EDUCATION:

Ph.D., Electrical Engineering, Massachusetts Institute of Technology	1990
S.M., Electrical Engineering, Massachusetts Institute of Technology	1986
S.B., Electrical Engineering, Massachusetts Institute of Technology	1986
S.B., Computer Science, Massachusetts Institute of Technology	1985

EXPERTISE:

Human language technology and speech, speaker and language recognition
Networking and communications
Tactical networking on the move
Cyber security
Quantitative test and evaluation of systems and technology

EXPERIENCE:

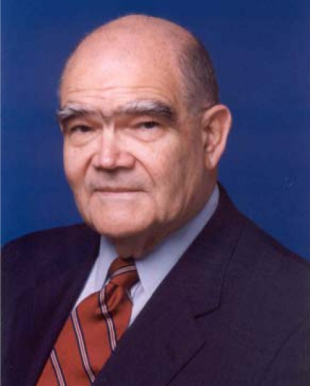
MIT Lincoln Laboratory, Assistant Division Head and Cyber Mission Lead, Communication Systems and Cyber Security Division	2007-2012
Group Leader, Wideband Tactical Networking Group	2004-2007
Assistant and Associate Group Leader Information Systems Technology Group	1997-2004
National Security Agency, Intergovernmental Personnel Act (IPA) Integree, Speech Research Branch, Office of Research and SIGINT Technology	1996-1997
MIT Lincoln Laboratory, Technical Staff, Speech Systems Technology Group	1986-1996
MIT Research Laboratory of Electronics, Research Affiliate	1992-1997



UNITED STATES ARMY SCIENCE BOARD

Consultants





Joseph V. Braddock, Ph.D.

Trustee
The Potomac Foundation

EDUCATION:

Ph.D., Physics, Fordham University	1958
M.S., Physics, Fordham University	1952
B.S., Physics, St. Peters College	1951

EXPERTISE:

- Threat assessment
- Concept development and system concept definition
- System prototyping
- Test and evaluation
- Weapon system vulnerability and hardening

EXPERIENCE:

The Potomac Foundation, Trustee	1988-present
BDM	1959-1998
Founder and Member, Board of Directors	
Various corporate and management positions	
Iona College, Assistant Professor of Physics	1958-1960
Fordham University, Instructor in Physics	1952-1958



Mark N. Glauser, Ph.D.

Associate Dean for Research and Doctoral Programs
Syracuse University, LC Smith College of Engineering and Computer
Science

EDUCATION:

Ph.D., Fluid Dynamics, University of Buffalo, SUNY	1987
B.S., Mechanical Engineering, University of Buffalo, SUNY	1982

EXPERTISE:

Turbulent Flows; Jet Noise; Aero-optics;
Flow Separation; Unsteady Aerodynamics; Open and Closed-Loop Flow Control;
Signal Processing; Principle Component Analysis; Compressive Sensing;
Low Dimensional Modeling; Intelligence Wind Turbines; Research Management

EXPERIENCE:

Syracuse University	2001-present
Associate Dean for Research and Doctoral Programs,	2008-present
LC Smith College of Engineering and Computer Science	
Professor, Mechanical and Aerospace Engineering	2001-present
Professor, Department of Physics	2008-present
Associate Director for Research, “New York State Environmental Quality Systems Center”	2001-present
Clarkson University	1987-2001
Professor, Mechanical and Aeronautical Engineering	1998-2001
and Institute for Nonlinear Studies	
Associate Professor, Mechanical and Aeronautical Engineering	1993-1998
and Institute for Nonlinear Studies	
Assistant Professor, Mechanical and Aeronautical Engineering	1987-1993
and Institute for Nonlinear Studies	
Air Force Office of Scientific Research, Program Manager, “Turbulence and Internal Flows”	1996-1999
Universite de Poitiers, Fulbright Fellow and Visiting Senior Research Scientist	1995
NASA Langley Research Center, Visiting Senior Research Scientist	1994-1995
NASA Graduate Student Researchers Fellowship, NASA/Ames Research Center	1984-1987
University of Buffalo, Research Assistant, Turbulence Research Laboratory	1983-1984



William A. Jeffrey, Ph.D.

HRL Laboratories, LLC
President and Chief Executive Officer

EDUCATION:

Ph.D., Astronomy, Harvard University	1988
M.S., Astronomy, Harvard University	1984
B.Sc., Physics, Massachusetts Institute of Technology	1982

EXPERTISE:

Federal Science Policy
Remote Sensing
Technical Management and Prioritization
Broad exposure to national R&D infrastructure and capabilities
Experience at DARPA, NIST, OSTP, intelligence community

EXPERIENCE:

HRL Laboratories, LLC, President and Chief Executive Officer	2008-present
Institute for Defense Analyses (IDA), Director, Science & Technology Division	2007-2008
National Institute of Standards and Technology (NIST) Director (Presidential Appointee, Senate-Confirmed)	2005-2007
Executive Office of the Presidential Office of Science and Technology Policy Senior Director for Homeland and National Security Assistant Director for Space and Aeronautics	2002-2005
Defense Advanced Research Projects Agency (DARPA) Deputy Director, Advanced Technology Office (ATO)	1999-2002
Chief Scientist, Tactical Technology Office (TTO)	1998-1999
Defense Airborne Reconnaissance Office (DARO) Assistant Deputy Director for Technology	1997-1998
Institute for Defense Analyses (IDA)	1993-1997
Grumman Aerospace, Research Scientist	1992-1993
Institute for Defense Analyses (IDA), Chief Scientist	1988-1992



Gen David M. Maddox (USA, Ret.)

Independent Consultant

EDUCATION:

U.S. Army War College
Armed Forces Staff College
U.S. Army Armor School, Basic and Advanced Courses
M.S., Operations Research, Southern Illinois University
B.S., Mathematics, Virginia Military Institute

EXPERTISE:

Operations research
Simulation and modeling
Logistics
Joint operations/warfighting
Organizational design

EXPERIENCE:

Consultant 1995-Present
National Academy of Sciences Board on Army Science and Technology, Vice Chair
George Mason University's Volgenau School of Engineering Dean's Board of Advisors, Member
GMU's School of Applied Information Technology Advisory Board, Chair
Member of the Commission on Army Acquisition & Program Management
in Expeditionary Operations
Member of the Secretary of the Army's Review of Army Acquisition
U.S. Army 1960-1995
Commander, US Army Europe and Seventh Army, Germany
Commanding General, V Corps, US Army Europe and Seventh Army, Germany
Commanding General, 8th Infantry Division (Mechanized)
Deputy Chief of Staff, Combat Developments, TRADOC
Commanding General, Combined Arms Operations Research Activity
Member, National Academy of Engineering
Member, National Academy of Sciences Board on Army Science and Technology
Member, The Washington Institute of Foreign Affairs
Member Emeritus of the Corporation of the Draper Laboratory



Marcus W. Shute, Ph.D.

Vice President, Research and Sponsored Programs
Clark Atlanta University

EDUCATION:

Ph.D., Mechanical Engineering, Georgia Institute of Technology	1994
M.S., Mechanical Engineering, Georgia Institute of Technology	1991
P.E., Professional Engineer (Mechanical), State of Georgia	1987
M.S., Materials Science, Massachusetts Institute of Technology	1986
B.S., Mechanical Engineering, Tennessee State University	1984

EXPERTISE:

Materials Science
Optical Fiber Technology
Optical Networking
Wireless Networks
Technology Transfer/Commercialization
Technology Innovation and Strategic Planning
Digital Media as a Pedagogical Tool (serious games)

EXPERIENCE:

Clark Atlanta University, Vice President, Research and Sponsored Programs	2008-present
Shute Enterprises, Inc., Consultant	1987-present
Tennessee State University,	2003-2008
Vice President, Research and Sponsored Programs	
Professor, Electrical and Computer Engineering	
Luxcore Networks, Inc.,	2000-2002
Vice President, Advanced Technologies	
Vice President, Engineering	
Bell Laboratories/Lucent Technologies	1998-2000
Distinguished Member of Technical Staff, Wireless Networks Group	
AT&T Bell Laboratories/Lucent Technologies	1986-1998
Member of Technical Staff, Transmission Media Laboratory	
AT&T Bell Laboratories, Senior Technical Associate	1983-1985



Bruce A. Swett, Ph.D.

Principal Scientist & Director of the Advanced Research Group
EOIR Technologies, Inc.

EDUCATION:

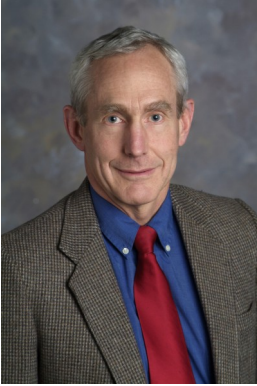
Ph.D., Neurosciences and Cognitive Studies, University of Maryland, College Park	2007
M.S.W., Clinical Social Work, University of Maryland at Baltimore	1993
M.Div., Religious Studies, Texas Christian University	1986
B.A., Psychology and Philosophy/Religion, McDaniel College	1981

EXPERTISE:

Scalable (Massive, "Big" Data) Analysis and Machine Learning
Cloud Video Analytics for Army Intelligence
Scalable Data Models for Data Fusion across Intelligence Sources
Biologically-Inspired Algorithms
Computational and Experimental neuroscience (fMRI, PET, MEG, EEG)

EXPERIENCE:

EOIR Technologies, Inc., Principal Scientist & Director of the Advanced Research Group	2010-present
Decisive Analytics Corporation (DAC), Senior Scientist	2008-2010
National Institute of Deafness and Other Communication Disorders, National Institute of Health, Research Scientist	2008-present
National Institute of Deafness and Other Communication Disorders, National Institute of Health, Post-Doctoral Fellow	2007-2008
Counseling Associates, Inc., CEO	1993-2002



LTC Albert B. Tanner (USA, Ret.), Ph.D.

Program Manager, BAE Systems
Ground Combat Vehicle

EDUCATION:

Ph.D., Mechanical Engineering, Georgia Institute of Technology	1998
M.S., Mechanical Engineering — Robotics, Massachusetts Institute of Technology	1987
B.S., Civil Engineering & Math, United States Military Academy, West Point	1979

EXPERTISE:

Combat Vehicle Development
Electromagnetic Guns
Survivability (armor, signature management)

EXPERIENCE:

BAE Systems	2004-present
Program Manager, Ground Combat Vehicle	2009-present
Director Program I, Manned Ground Systems (Deputy and Common)	2007-2009
Program Manager, Unmanned Ground Systems	2004-2007
United States Army	1973-2004
Chief, Research & Development and Standardization Division, London	2001-2004
Program Manager, Electro-Magnetic Gun Program	1999-2001
Director of Studies, Future Combat Systems & Senior Material Scientist	1998-1999
Combat Vehicle Survivability (Low Observable Technology and Application)	1993-1995
A/PM Survivability Systems	1990-1992
Associate Professor and Executive Officer	1987-1990
M60 Machine Gunner	1973-1974



Alan E. Willner, Ph.D.

Steven and Kathryn Sample Chair in Engineering
University of Southern California

EDUCATION:

Honorary Doctorate, Yeshiva University	2012
Ph.D., Electrical Engineering, Columbia University	1988
M.S., Electrical Engineering, Columbia University	1984
B.A., Physics, Yeshiva University	1982

EXPERTISE:

Optical Communications
Optical and Photonic Technologies

EXPERIENCE:

University of Southern California, Steven and Kathryn Sample Chaired Professor of Engineering, Ming Hsieh Dept. of Electrical Engineering, Viterbi School of Eng.	2010-present
University of Southern California, Professor, Ming Hsieh Dept. of Electrical Engineering	1998-2010
Defense Sciences Research Council, Member	2009-present
University of Southern California, Co-Director, Communications Sciences Institute	2007-2012
University College London, Visiting Professor, Department of Electronic & Electrical Engineering	2007-present
Phaethon Communications, Inc., Founder and CTO	1999-2002
University of Southern California, Associate Professor, Department of Electrical Engineering	1994-1998
Weizmann Institute of Science, Visiting Fulbright Professor, Physics Department	Spring 1998
University of Southern California, Director, Optical Communications Laboratory	1992-present



UNITED STATES ARMY SCIENCE BOARD



Army Science Board Directorate





William Baksi

NARA Database
Army Science Board Office

EDUCATION:

M.A., Security Policy Studies	2011
B.A., Russian, East European, & Eurasian Studies; Government	2006

EXPERTISE:

International Affairs
Security Policy
Intelligence Analysis

EXPERIENCE:

Deloitte, Consultant	2011-present
George Washington University Language Center, Program/Office Assistant	2009-2011
Peace Corps, Ukraine, TEFL Volunteer	2006-2008



Carolyn German

Membership Manager
Army Science Board Office

EXPERTISE:

Federal advisory committee act membership
HQDA policy administration
Defense travel system

EXPERIENCE:

Department of the Army	1978-present
Membership Manager, Army Science Board Directorate	2005-present
Executive Assistant, Director of Policy and Procurement	2001-2005
Executive Assistant	1998-2001
Deputy Undersecretary of the Army (Operations Research)	
Executive Assistant, Deputy for Assessment and Evaluation	1995-1998
Executive Assistant, Deputy for Procurement	1989-1995
Executive Assistant, Comptroller of the Army	1984-1989
Corps of Engineers, Ft. Myer Housing	1980-1984
Veterans Administration, Board of Veterans Appeals	1977-1979
Federal Aviation Administration, Administrative Assistant	1974-1976



Neia Herbert

Travel Coordinator
Army Science Board Office

EXPERTISE:

Defense travel systems
Federal budgeting

EXPERIENCE:

ALSC, Travel Coordinator, Army Science Board Directorate	2009-present
Spry Inc., Travel Coordinator, Department of Navy	2007-2009
TriCare, Travel Coordinator	2005-2007
AAFES, FT. Myer, Office Manager	2000-2005

Past Leadership

Past Army Science Board Chairs

Dr. Frank H. Akers, Jr.
2005-2011

Dr. James A. Tegnalia
2004-2005

Dr. Joseph V. Braddock
2002-2004

Mr. Michael J. Bayer
1998-2002

Dr. Michael Frankel
1996 - 1998

Dr. Wilson K. Talley
1995 - 1996

Dr. Walter B. LaBerge
1992 - 1995

Mr. James Jacobs
1991 - 1992

Dr. Duane A. Adams
1990 - 1991

Dr. Dennis R. Horn
1989 - 1990

Mr. Gilbert F. Decker
1987 - 1989

Dr. Irene C. Peden
1986 - 1987

Dr. Wilson K. Talley
1983 - 1986

Dr. Richard A. Montgomery
1981 - 1983

Dr. J. Ernest Wilkins, Jr.
1978 - 1981

Past Army Scientific Advisory Panel Chairs

Dr. Bruce A. Reese
1976 - 1977

Mr. Lawrence H. O'Neill
1971 - 1976

Dr. Harold M. Agnew
1966 - 1970

Dr. Finn J. Larsen
1965

Dean Morrough P. O'Brien
1961 - 1964

Dr. Clifford C. Furnas
1960 - 1961

Dr. James W. McRae
1960

Mr. Richard S. Morse
1958 - 1959

Dr. Frederick L. Hovde
1956 - 1957

Dr. James R. Killian, Jr.
1951 - 1956

United States Army



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