IDGA has assembled an unparalleled speaker faculty that includes:

Colonel Steven MacLaird, USAF
Joint Program Director
JOINT TACTICAL RADIO SYSTEM (JTRS)

Badri Younes
DoD Director, Spectrum Management
OSD

Tony Crowder
Deputy Director, Command, Control & Communications, Intelligence, Surveillance, Reconnaissance
OFFICE OF AIR AND MARINE OPERATIONS

Frank Criste
Director, Communications Programs
Networks and Information Integration
OASD

Preston Marshall
Program Manager
XP Program
DARPA

Captain Eddie L. Reyes
Alexandria Police Department

At this conference, you will learn how to:

- Optimize interoperability of your radio communications system
- Increase interoperability with the new Software Communications Architecture
- Utilize the latest SDR research
- Assess new information on the JTRS Program and its Clusters
- Prepare for use of Software Radio for first responders
- Design an updated Software Radio Architecture
- Analyze emerging SDR trends, including satellite technology
- Discuss spectrum plans and policy

Don't Miss Our Interactive Conference Workshops!

A. An Overview of the Latest Research in Software Radio
B. Advances in Wideband Wireless Networking
C. Managing Size, Weight, Power, and Cost of the Black-Side Processing of a Software Defined Radio
D. Software Defined Radio Architectures
E. The Software Radio Challenge; Latest Concepts in Testing JTRS and Software Radios

Register Now! Call 1.800.882.8684 or 973.256.0211 or Visit www.idga.org
Dear Colleague:

Communication is of the utmost importance for our military and first responders. The ability to send and receive information among different units and departments is vital to safety, and therefore, it is important for us to optimize our radio systems.

**IDGA’s Software Radio Summit** provides you with the latest information on the JTRS program and all of its clusters, homeland security software radio requirements, spectrum policies, research into antenna and satellite technologies, and future visions for SDR for military, and first responder use.

You will walk away from this summit with:
- New information on SDR research
- A thorough understanding of the new Software Communications Architecture
- An overview of applications of Software Radio for Homeland Security and Public Safety
- Ideas for future functions of Software Radio technologies

In addition to an unparalleled speaker faculty, the Software Radio Summit will also feature various networking opportunities. Do not miss this opportunity to ask questions and discuss the conference topics with the speaker faculty in an informal setting!

Reserve your place among the top experts in developing and utilizing software radio. Register yourself and a team of key people today by calling 800.882.8684 or 973.256.0211, by faxing the order form on the back of the brochure to 973.256.0205, or online at www.idga.org.

I look forward to meeting you in February!

Sincerely,

Michelle Guglielmo
Program Director
michelle.guglielmo@idga.org

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**WHO YOU WILL MEET**

At Software Radio, you will have the unique opportunity to interact and network with representatives from all branches of the military, Federal government agencies, police, fire and other first responders, manufacturers/contractors, and technology service providers. Attendees will include Directors or Deputy/Vice Directors with the following responsibilities:

- Engineering
- Research & Development
- C4ISR
- Electronic Warfare
- Program Management

---

**ARE YOU ALREADY REGISTERED FOR ANOTHER EVENT**

But Now Would Rather Attend Software Radio Summit? DON'T WORRY! If you have already registered for an alternative event but would rather attend Software Radio Summit, IDGA will reimburse the cost of your cancellation fee (up to $200).
CONFERENCE AT A GLANCE

Pre-Conference Interactive Workshops: Tuesday, February 22, 2005

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<th>Time</th>
<th>Workshop</th>
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<tbody>
<tr>
<td>8:00 am - 11:00 am</td>
<td>A  An Overview of the Latest Research in Software Radio</td>
</tr>
<tr>
<td>11:15 am - 2:15 pm</td>
<td>B  Advances in Wideband Wireless Networking</td>
</tr>
<tr>
<td>2:30 pm - 5:30 pm</td>
<td>C  Managing Size, Weight, Power, and Cost of the Black-Side Processing of a Software Defined Radio</td>
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<tr>
<td>5:45 pm - 8:45 pm</td>
<td>D  Software Defined Radio Architectures</td>
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Main Conference: Wednesday, February 23, 2005

<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
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<td>Continental Breakfast &amp; Registration</td>
</tr>
<tr>
<td>8:00</td>
<td>Welcome &amp; Opening Remarks</td>
</tr>
<tr>
<td>8:10</td>
<td>An OASD Perspective on Software Radio</td>
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<tr>
<td>8:50</td>
<td>JTRS - Transformational Communications for the Warfighter</td>
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<tr>
<td>10:20</td>
<td>Morning Refreshment Break</td>
</tr>
<tr>
<td>10:50</td>
<td>An Overview of Cluster 1</td>
</tr>
<tr>
<td>11:30</td>
<td>Office of Air and Marine Operations Communications</td>
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<tr>
<td>12:10</td>
<td>Luncheon for Speakers and Attendees</td>
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<tr>
<td>1:25</td>
<td>TRACK A: SCA Compliance Strategies for FPGA and DSP Hardware Platforms</td>
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<td>2:05</td>
<td>TRACK B: HOMELAND SECURITY: Communications Lessons Learned During the Response to the Pentagon</td>
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<td>3:05</td>
<td>TRACK B: HOMELAND SECURITY: SDR and Open Architectures for Homeland Security</td>
</tr>
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<td>3:25</td>
<td>AFTERNOON BREAK</td>
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<tr>
<td>3:55</td>
<td>TRACK A: Accommodating the Spectrum Management and Electromagnetic Environmental Effects Areas</td>
</tr>
<tr>
<td>4:35</td>
<td>TRACK B: HOMELAND SECURITY: Public Safety Communications Interoperability</td>
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<tr>
<td>5:15</td>
<td>TRACK A: Spectrum Management in the Coming Era of Cognitive Systems</td>
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<tr>
<td>5:15</td>
<td>TRACK B: HOMELAND SECURITY: Mixed Community Communications via Software Controlled Radios</td>
</tr>
<tr>
<td>6:15</td>
<td>VENDOR PANEL: A Vendor View of Software Radio for Homeland Security</td>
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<tr>
<td>6:15</td>
<td>CONCLUSION OF DAY ONE</td>
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Mid-Conference Interactive Workshop: Wednesday, February 23, 2005

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<th>Time</th>
<th>Workshop</th>
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<tbody>
<tr>
<td>6:15 pm - 9:15 pm</td>
<td>E  The Software Radio Challenge; Latest Concepts in Testing JTRS and Software Radios</td>
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Main Conference: Thursday, February 24, 2005

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30</td>
<td>Continental Breakfast &amp; Registration</td>
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<tr>
<td>8:00</td>
<td>Low Cost, High Performance Imaging System for Police and Fire</td>
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<tr>
<td>8:40</td>
<td>Spectrum Transformation</td>
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<tr>
<td>9:20</td>
<td>Reviewing Cluster 2</td>
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<tr>
<td>10:00</td>
<td>Morning Refreshment Break</td>
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<tr>
<td>10:30</td>
<td>An Update on AMF JTRS Status</td>
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<tr>
<td>11:10</td>
<td>The MIDS Program</td>
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<tr>
<td>11:50</td>
<td>A Look at Cluster 5</td>
</tr>
<tr>
<td>12:30</td>
<td>Luncheon for Speakers and Attendees</td>
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<tr>
<td>1:45</td>
<td>TRACK C: ARCHITECTURES: SCA Compliance Strategies for FPGA and DSP Hardware Platforms</td>
</tr>
<tr>
<td>2:25</td>
<td>TRACK D: EMERGING TRENDS: Implementation of Software Radio on Mars</td>
</tr>
<tr>
<td>3:05</td>
<td>TRACK C: ARCHITECTURES: Evolutionary Design of an X-Band Antenna for NASA’s Space Technology 5 Mission</td>
</tr>
<tr>
<td>3:45</td>
<td>TRACK D: EMERGING TRENDS: The Open Source SCA Implementation and its Usage</td>
</tr>
<tr>
<td>4:25</td>
<td>CONCLUSION OF DAY TWO</td>
</tr>
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INTERACTIVE PRE-CONFERENCE WORKSHOPS: TUESDAY, FEBRUARY 22, 2005

A  An Overview of the Latest Research in Software Radio  8:00 am - 11:00 am
This presentation describes the latest results and future research directions in the development of software radio hardware, software, and systems from Virginia Tech. Topics include:
• Smart antennas realization
• Reconfigurable computing
• New open source SCA core framework developed and supported at Virginia Tech
• Power optimizing software radio framework
• Smart antenna API efforts
• Development of game theory to analyze cognitive radio networks
• Cooperative radios
• Quantifying networking performance of smart antennas implemented with software radio
Workshop Leader:
Dr. Jeffrey Reed
Deputy Director
MPRG

B  Advances in Wideband Wireless Networking  11:15 am - 2:15 pm
The objective of this workshop is to talk about the advances in wideband wireless networking in order to form ad hoc high capacity, secure, and potentially covert mobile networks. This tutorial workshop will discuss real time and non-real time networking elements, functions of a radio frequency media to enable autonomously managed RF media to support battle space mobile networking. Talks will also focus on control plane and date plane and forming and controlling high capacity mobile networks. We will also analyze:
• Discovery management
• Topology management
• Hierarchical management
• Traffic flow management
• Link management
• Policy management
• Results obtained in networking exercises over the last year will be presented
Workshop Leader:
Dan Watt
Manager
Advanced Networking Development Group
L-3 Communications Systems West

C  Managing Size, Weight, Power, and Cost of the Black-Side Processing of a Software Defined Radio  2:30 pm - 5:30 pm
This workshop will discuss some key considerations in the development of a Software Defined Radio, including:
• Waveform requirements driving size, weight, and power constraints
• Processing models: shared versus dedicated resources
• Trade-offs in device selection: Cost and Power vs. Performance and Development Cycle
• Trade-offs in platform definition: Cost vs. Modularity, Cost vs. Reliability
• The business case for COTS processing in Military Software Radio Programs
Workshop Leader:
Lee Pucker
Chief Technology Officer
Spectrum Signal Processing, Inc.
This workshop will discuss a variety of important topics in software radio.

- **SCA Integrated Operating Environment.** This will cover the Core Framework integrated with an ORB and RTOS and the benefits of such an integrated OE COTS offering.
- **Modeling and Simulation.** This will cover the advantages of doing M&S and using Hardware in the Loop in the simulations as well as the latest trends in Modeling and Simulation.
- **Above 2Ghz.** This will cover the latest activities involving the Above 2Ghz efforts and some of the challenges and successes seen to date.
- **Integration and Validation.** This will cover the processes of integrating the various waveforms and software packages required to port onto software defined radio hardware platforms and the validation processes involved in getting systems validated to the specification.

**Workshop Leaders:**
- Dominick Paniscotti
  Senior Member of the Technical Staff
  BAE Systems
- Dr. Ralph Martinez
  Director of Advanced Networks
  BAE Systems
- Dr. David Cooper
  Director of Engineering
  BAE Systems
- Ron Buell
  Senior Member of the Technical Staff
  BAE Systems

---

**The Software Radio Challenge; Latest Concepts in Testing JTRS and Software Radios**

The revolution in software radios, with the first major military thrust being the Joint Tactical Radio System (JTRS), offers significant advantages over traditional legacy military radios. This radio revolution presents unique testing challenges throughout the program lifecycle, including the initial R&D, design validation, prototyping, limited and full production, compliance and interoperability testing, and field and logistical support. There are upwards of 33 legacy radio waveforms that need to be developed, tested, validated, and maintained, plus various operational modes for each of these waveforms. In addition, the new Wideband Networking Waveform (WNW) (currently four unique waveforms) brings sophisticated modulations and protocol layers into the mix. The workshop examines these testing challenges along with test solutions, and will include:

- A detailed examination of some of the key waveforms, radio and protocols for JTRS
- A review of test instruments commonly used for radio testing, including RF parametric testing, waveform signal testing and bit level testing
- New and emerging test instrumentation and algorithms for software radio and JTRS testing, including digital signal generators, broadband signal analyzers and radio-centric generation and measurement techniques
- A look at the role and applicability of universal test waveforms, with their potential to greatly streamline and accelerate production-level testing

**Workshop Leader:**
- Jack Anderson
  Chief Engineer, Systems
  Aeroflex Test Solutions
7:15 Continental Breakfast & Registration

8:00 Welcome & Opening Remarks

8:10 An OASD Perspective on Software Radio
- Review of current JTRS organization
- Review of current JTRS requirements process
- Identify a joint fielding strategy for transformation communications systems
- Joint Tactical Radio System (JTRS), MOUS, Transformational Communications Architecture (TCA)
- Synchronize programs with other DOD transformation and legacy programs to achieve improved joint operations
Frank Criste
Director Communications Programs
Networks and Information Integration
OASD

8:50 JTRS - Transformational Communications for the Warfighter
- JTRS program update and status
- JTRS the backbone of the GIG
- SCA 3.0 opens up Above 2 GHz realm to software radio
Colonel Steven MacLaird, USAF
Joint Program Director
Joint Tactical Radio System, Joint Program Office

10:20 Morning Refreshment Break

10:50 An Overview of Cluster 1
- Program overview & how JTRS Cluster 1 is breaking new ground in the radio world
- Program status & entering its early operational assessment
- Technical challenges & pushing technology envelope in several areas
- Technology development strategy
LTC William Mason, USA
Program Manager
JTRS Cluster One

11:30 Office Of Air And Marine Operations Communications
- Introduction to the Office of Air and Marine Operations (AMO), Department of Homeland Security
- Missions of AMO
- Structure and Assets of AMO
- C3ISR Infrastructure

12:10 Luncheon for Speakers and Attendees

Choose A or B

1:25 A SPECTRUM: DARPA Programs in Opportunistic Spectrum, Low Energy, and Disruption Tolerant Networks
- Opportunistic spectrum to increase spectrum access
- Policy defined and controlled radios through machine reasoning
- Low energy physical and networking layers
- Network storage and persistence to operate through connectivity disruptions
Preston Marshall
Program Manager, XP Program
DARPA

1:25 B Homeland Security: Communications Lessons Learned During the Response to the Pentagon
- Role of radio communications within the incident command system
- Radio interoperability during the Pentagon response
- Roles and functionality of other methods of communication, including cellular, wireless internet and others
John J. White
Assistant Fire Chief, Support Services
Arlington County Fire Department

- The presentation will address actions that the FCC has recently taken to promote and implement “software radio” in the U.S., and then relate those actions to the international arena
- Explain how commercial enterprise can globally benefit from application of SDR
- Assess the degree of acceptance of SDR both nationally and internationally
William A. Luther
Chief, International Radiocommunication Branch
Federal Communications Commission
2:05  B  HOMELAND SECURITY: An Overview of Virginia Task Force One: Fairfax County's Urban Search and Rescue Task Force

- One of only two urban search and rescue task forces certified for overseas deployment in the United States
- Utilization of planning in all four phases of operational capacity; Readiness, Response, Operations, and Recovery
- Improved methods for coordinating multi-agency urban search and rescue resources during major incidents

Captain Keith Morrison
Fairfax County Fire and Rescue Department


- Global challenges to spectrum access for U.S. and coalition operations
- Military vs. civil needs for spectrum
- Modern battlefield systems and increased demand for spectrum; mitigating techniques and technologies, e.g., software radio
- Spectrum aspects of network centric warfare safeguarding U.S. military spectrum interests at national and international forums
- DoD role in developing U.S. positions
- Influencing international processes and policy

Ralph Puckett
International Team Leader
Defense Spectrum Office

2:45  B  HOMELAND SECURITY: Mixed Community Communications via Software Controlled Radios

- Interoperability conflicts at the City, County, State, Regional, Federal & DoD COIs
- Achieving interoperability through Software Radio

John P. Caruso
Chief, Executive Agent Theater Joint Tactical Networks
CECOM, Software Engineering Center

3:25  AFTERNOON BREAK

3:55  B  HOMELAND SECURITY: SDR and Open Architectures for Homeland Security

- Goal and objectives
- System requirements
- Interoperability and portability

Al Emondi
Chief Scientist
Communications Department, Code 50E-AE
Space and Naval Warfare Systems Center

4:35  A  SPECTRUM: Spectrum Management in the Coming Era of Cognitive Systems

- Who is NTIA, and what is its role in facilitating implementation of cognitive systems?
- What is the environment into which cognitive systems will deploy?
- What domestic or international regulatory changes are needed to open the door to cognitive systems?
- What will developers of cognitive systems have to prove?

Karl B. Nebbia
Deputy Associate Administrator
IRAC Chairman
National Telecommunication & Information Administration

4:35  B  HOMELAND SECURITY: Public Safety Communications Interoperability

- The Alexandria Police Department partnered with the National Institute of Justice to research, test and develop interoperability solutions for public safety
- Capability of establishing instantaneous interoperability communications with up to nineteen different public safety and transportation agencies across multiple levels of government
- Successful implementation to serve the interoperability communications needs of the region during major events, including the last Presidential inauguration and the sniper incident
- Currently developing voice over internet protocol (VOIP) interoperability

Captain Eddie L. Reyes
Alexandria Police Department

Charles Stephenson
Senior Communications Technician
National Law Enforcement and Corrections Technology Center
5:15  VENDOR PANEL: A Vendor View of Software Radio for Homeland Security

Greg Churchill, Executive Vice President and Chief Operating Officer, Government Systems, Rockwell Collins Government Systems
John Hanrahan, Technical Director, JTRS Cluster 1 Program, Boeing Associate Tech Fellow
Lewis Johnston, Vice President, Advanced Programs, Thales Communications, Inc.

6:15 END OF DAY ONE

6:15 Workshop E  Please see page 5 for details!

DayTWO  THURSDAY, FEBRUARY 24, 2005

7:30 Continental Breakfast & Registration

8:00 Low Cost, High Performance Imaging System for Police and Fire
- Electro-optical and infrared gimbaled sensor
- 45 mega-bit digital datalink
- Using off the shelf hardware

Loyd Davis
Director of Marketing Communications
L-3 Communications

8:40 Spectrum Transformation
- Future directions and overview of progress
- Outline of priorities for spectrum management
- How military/commercial spectrum sharing can work
- The future shape of allocation decisions
Badri Younes
DoD Director, Spectrum Management
OSD

9:20 Reviewing Cluster 2
- Evolutionary development of the current MBITR handheld radio
- Adaptation for JTRS Software Communication Architecture (SCA) compliance
- Implementation of waveforms in the 30-512 MHz range, including SINCgars ESIP, VHF FM, UHF AM/FM, Have Quick I/II, Cobra, APCO-25 (VHF/UHF FM LMR)

Hugh Stallworth
Program Manager
JTRS Cluster 2

10:00 Morning Refreshment Break

10:30 An Update on AMF JTRS Status
- Overview of Government strategy for competitive initial design (Pre-SDD)

LTC Maryann Watson, USAF
Program Manager
AMF JTRS Program

11:00 The MIDS Program
- Affecting almost every airborne platform in the U.S.
- Driving force behind the U.S. Military Airborne Communication Systems
- Datalink technology providing jam-resistant, secure, digital voice and data communications to the warfighter

CAPT Michael Huff, USN
Program Manager
MIDS

11:50 A Look at Cluster 5
- Background
- Current developments
- Road ahead

LTC Richard Housewright, USA
Program Manager
JTRS Cluster 5

12:30 Luncheon for Speakers and Attendees

Choose C or D

1:45 ARCHITECTURES: SCA Compliance Strategies for FPGA and DSP Hardware Platforms
- Successful software radio hardware architectures
- Strategies for achieving SCA compliance for FPGAs, ASICs and DSPs
- Design issues for Hardware Abstraction Layer (HAL) interfaces

Sponsored by: BAE SYSTEMS
• Maintaining performance in SCA-compliant hardware platforms
• Techniques for embedding custom IP and algorithms in FPGAs
Rodger Hosking
Vice President & Co-Founder
Pentek

1:45 EMERGING TRENDS: Implementation of Software Radio on Mars
• NASA’s experience using programmable radios in space (what’s flying now / has flown)
• Current NASA initiatives in developing future software radio technology
• The role of software radios in NASA’s future space communication architecture
John Rush
Navigation & Communication Systems Architecture Manager
NASA
Office of Space Flight

2:25 ARCHITECTURES: Evolutionary Design of an X-Band Antenna for NASA’s Space Technology 5 Mission
• Evolved X-band antenna design and flight prototype currently on schedule to be deployed on NASA’s Space Technology 5 (ST5) spacecraft
• Evolutionary algorithm techniques employed
• Meeting challenging set of mission requirements, most notably the combination of wide beamwidth for a circularly-polarized wave and wide bandwidth
• Highest performance antennas found
• First evolved hardware in space, and the first deployed evolved antenna
Jason D. Lohn
Group Leader, Evolvable Systems
NASA Ames Research Center

2:25 EMERGING TRENDS: The Open Source SCA Implementation and its Usage
• SCA Implementation
• SCA Certification process
• Radio design using the SCA reference implementation
Claude Belisle
Research Manager
Communications Research Centre Canada

3:05 ARCHITECTURES: Automated Demodulation Techniques
• Principles of modulation discovery
• Techniques to process unknown signals, extract modulation features, and classify features automatically
Dr. Wei Su
Electronics Engineer
Intelligence and Information Warfare Directorate
U.S. Army RDECOM
AFRL’s Vision for the Future of SDR

3:05 EMERGING TRENDS: AFRL’s Vision for the Future of SDR
• Background - AFRL’s SDR history & expertise
• Current SDR Activities - JTRS & other SDR developments
• Planned SDR Activities - SDR testbed enhancements, sense & adapt capabilities
Wayne Bonser
Technical Advisor
AFRL/IFGC

3:45 ARCHITECTURES: Advanced Antenna Technologies and Defense Technology Objectives
• Increased bandwidth for multimission communications
• Increased gain for greater connectivity and range extension
• Increased mobility to sustain high-data-rate on-the-move communications
• Undetectable visual signatures for low probability of mission detection and increased survivability
• Current and future programs to develop advanced antenna technologies to support the highly mobile, mission tailored and combat ready Future Force
Steve Goodall
Team Leader
Antenna Technology Team
Antennas & Ancillaries Branch
Wireless & JTRS Program Directorate, S&TCD, CERDEC

3:45 EMERGING TRENDS: Networking in Extreme Environments (Netex)
• Creating a wireless networking technology for the military user, enabling robust connectivity in harsh environments and supporting integration into new and emerging sensor and communication systems
• Developing an improved physical layer for networked communications based on a family of new ultra wideband (UWB) devices
• Enabling reliable and efficient operations in harsh environments by exploiting the unique properties of ultra wideband systems
Steven Griggs
Program Manager
DARPA

4:25 CONCLUSION OF DAY TWO
L-3 Communications, Communication Systems – West, Salt Lake City Utah, has built high capacity, wideband data link radios since 1957. Beginning with the Sergeant Missile data link, continuing through the BQM-34 reconnaissance drone, OV-10 Mohawk, the RC-12, the U-2, P-3, F/A-18, and F-16 platforms, the company today produces UAV data links for the Pioneer, the Fire Scout, the Shadow 200, the Predator, and the Global Hawk. Network Centric Warfare has shifted our focus to technologies required to assure network interoperability. Thus our emphasis is common protocols, wideband mobile routers and software defined modems – the key technology enablers of network interoperability. For more information, please visit us on the web at www.L-3Com.com.
The National Spectrum Managers Association (www.nsma.org) is North America’s premiere organization for professionals in spectrum management, frequency coordination, and related fields. NSMA offers a unique forum for providing regulatory input and for developing, by industry consensus, operational guidelines that encourage efficient use and management of the radio spectrum.

The SDR Forum (www.sdrforum.org) is an international industry association dedicated to supporting the development and deployment of software defined radio systems that enable flexible, adaptable architectures in advanced wireless systems. Membership spans commercial, defense, and civil government organizations, and includes service providers, operators, component manufacturers, hardware and software developers, regulatory agencies, and academia.

Payment Policy: Payment is due in full at the time of registration and includes lunches, refreshments and detailed conference materials. Your registration will not be confirmed until payment is received and may be subject to cancellation.

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lodging Information: Sessions for the Conference & Workshops will be held at:

Sheraton National Hotel
900 South Orme Street, Arlington, VA 22204
Phone: 703-521-1900 Fax: 703-271-6626

To secure reduced rates, please call the hotel at least 4 weeks prior to the conference and be sure to mention our conference name. Note: call hotel for directions or transportation suggestions.

If you have a dietary restriction, please contact Customer Service at 1-800-882-8684 to discuss your specific needs.

Making Travel Plans: For discounted Flight reservations on most major carriers, make sure you contact your Corporate Travel Department contacts IDGA’s official Travel Planner, Candy Eardley of Travel Forum, toll-free at 1-877-852-4135 or locally at 973-942-0100. Candy can also be reached via email at candy@travelforuminc.com.

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☐ Conference plus 3 Workshops
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☐ Conference plus 5 Workshops

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* For pricing information see page 11

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99 BP

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