

CLASSIFIED PROGRAM

SESSION AND PAPER LOCATOR

AM Sessions:	PM Sessions:
Paper 1: 9:30AM – 9:55AM	Paper 1: 3:00PM – 3:25PM
Paper 2: 9:55AM – 10:20AM	Paper 2: 3:25PM – 3:50PM
Paper 3: 10:20AM – 10:45AM	Paper 3: 3:50PM – 4:15PM
BREAK: AVAILABLE	BREAK: AVAILABLE
Paper 4: 10:45AM – 11:10AM	Paper 4: 4:15PM – 4:40PM
Paper 5: 11:10AM – 11:35AM	Paper 5: 4:40PM – 5:05 PM

CS01 – C4 Network Management

Date: Tuesday, October 18, 2005

Time: 9:30AM – 11:35AM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Richard Lo, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

ISR Communications Requirements

Rosie Bauer & Thomas Rittenbach
US Army CERDEC, Space & Terrestrial Communications Directorate
Daniel Hampel
Booz Allen Hamilton

Opportunistic Airborne Relay for MANET

Joseph Suprenant, Robert Husnay, CPT Mark Saeger & LT Robert Patton
AFRL, Information Directorate

An Anti Tamper Design Method Using a Matrix Approach

Charles Henter
L-3 Communications

Hierarchical Network Management for Tactical Environments

Hesham El-Damhougy, Homayoun Yousefizadeh, David Lofquist, Ronald Sackman & Jerry Crowley
The Boeing Co.

Electronic Key Management System

Edward Kierman
US Army CERDEC, Software Engineering Directorate

CS03 – Wireless Communication

Date: Tuesday, October 18, 2005
Time: 9:30AM – 11:35AM
Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Dominic Satili, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

Performance and Security comparison of SecNet11 and 802.11b Wireless Technologies
David Rohret
Joint Information Operations Center (JIOC) Information Warfare Analysis Division

Improving Network Performance Using Multi-Criteria Routing for Mobile Ad-Hoc Networks
Amit Patel
ITT Industries, Aerospace & Communications Division

Network Modeling of a Multithreaded Information Management System - Information Management, Simulation, Ad Hoc Wireless - Concurrent Processes, Event-Driven Simulation, Middleware

Benjamin Epstein
Op Coast
Dana Carberry & Kawaldeep Chadha
General Dynamics

SRW Implementation for the NLOS-LS Domain
KB Patel
ITT Industries, Aerospace & Communications Division

Tactical Combat Connectivity System (TCCS)
Thomas Seay
DIBRITOM Corporation

CS04 – Electronic Warfare - SIGINT

Date: Tuesday, October 18, 2005
Time: 3:00PM - 5:05PM
Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Adam Bogner, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

Future Technology Challenges

David Potter

US Army CERDEC, Intelligence & Information Warfare Directorate

A wave effect enabling monostatic passive radar, incoherent aperture synthesis, and immunity to jamming and interference

V. Guruprasad

Inspired Research

Performance Analysis and Statistical Tests of a COTS Automated Modulation Classifier for Military Electronic Warfare Systems

Dr. Wei Su

US Army CERDEC, Intelligence & Information Warfare Directorate

New Techniques for Interpreting and Collecting V/UHF Voice Communications

Jerry Stone

Agilent Technologies, Inc.

CS05 – IED Technologies and Countermeasures

Date: Tuesday, October 18, 2005

Time: Time: 3:00PM - 5:05PM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Elham Salari, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

Detection of IEDs/Mines using Forward-Looking Ground Penetrating Radar and Infrared

Kelly Sherbondy

US Army CERDEC, Night Vision & electronic Sensors Directorate

Optimized Jamming Techniques for Common Communication

Eric Lentz

Syracuse Research Corp

Elham Salari

US Army CERDEC, Intelligence & Information Warfare Directorate

Detection Techniques to Support Current Operations

Dr. Robert Pastore, Moses Mingle & Kevin Boyle
US Army CERDEC, Intelligence & Information Warfare Directorate

Neutralization Techniques to Support Current Operations.

Dr. Robert Pastore, Moses Mingle & Kevin Boyle
US Army CERDEC, Intelligence & Information Warfare Directorate

I2WD IED Characterization

Bing Mak & Greg Kubiak
US Army CERDEC, Intelligence & Information Warfare Directorate

CS06 – Information Operations/Electronic Attack

Date: Tuesday, October 18, 2005

Time: 3:00PM - 5:05PM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Giorgio Bertoli, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Networked Sensors for the Future Force (NSFF) Advanced Technology Demonstration – Preliminary Results from Technical Testing and User Evaluation

Mr. Gene Klager
CERDEC Night Vision & Electronic Sensors Directorate

Networked Sensors for the Future Force (NSFF) Advanced Technology Demonstration (ATD) Communications System

Mr. Jay Nemeroff
US Army CERDEC, Space & Terrestrial Communications Directorate

Communications Electronic Warfare Network Analyzer (CEWNA)

Dr. Patrick Honan
Digital Design Solutions

CEC Enabled ARSR-4 Surveillance Network Capability

Robert T. Healy, JR
Raytheon

Multimode Electronic Attach Mission

Mr. Paul Zablocky & Jon Smolensk
Booze Allen Hamilton & US Army CERDEC, Intelligence & Information Warfare Directorate

CS07 – MILSATCOM

Date: Wednesday, October 19, 2005

Time: 9:30AM – 11:35AM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Carl Swenseon, US Army Communications Electronics Research, Development & Engineering Center (CERDEC).

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Downlink Acquisition for COTM Terminals

Navid Yazdani

Raytheon

Uplink Acquisition and Tracking Performance for a Communications On-The-Move (COTM) AEHF Satellite Terminal

Steven DeLisle, Andrea Malo & George Vachula

Raytheon

Warfighter SATCOM Utilization Beyond 2010 (Analysis of SATCOM for Future Forces)

Michael R. Moore

Oak Ridge National labs

Digital RF Linearizer for Improved Broadband Multi-Carrier Power Amplifiers

Richard Hitt & Adam Gerner

Hypress Inc & US Army CERDEC, Space & Terrestrial Communications

Directorate

Multi-Vehicle Blockage Mitigation Techniques for On-The-Move Satellite Communications

Jack Wong, Steven Lescriner, Gerald Michael

US Army CERDEC, Space & Terrestrial Communications Directorate

Thomas Hammel & Mark Rich

Fantastic Data

CS08 – Modeling, Simulation and Connectivity

Date: Wednesday, October 19, 2005

Time: 9:30AM – 11:35AM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Monica Farah-Stapleton, US Army Communications Electronics Research, Development & Engineering Center (CERDEC).

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC).

Representation of Information Dissemination and Implications to Connectivity

Russell Langan

US Army CERDEC

3ID Analyses Observations

Kristen Giammarco
US Army CERDEC

Tactical Data Collection for Network of Network Representations in M&S Analyses

Erica Lindy & Saurabh Date
MITRE & OPNET

Modeling of the SLICE NLOS-LS Radio Network

Y. J. Liu
ITT Aerospace & Communications

Operational/Technical Network Requirements and M&S-Perfect Together

Dilip Kumar
The Boeing Co.

CS09 – Transformation in Communications Systems

Date: Wednesday, October 19, 2005

Time: 9:30AM – 11:35AM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Thomas Rittenbach, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

Uplink Time Tracking for TSAT

Nancy List
Lincoln Labs

Evolutionary Implementation of Transformational Communications for Warfighters

Norman Jones
DISA

Powering the Dismounted Soldier in OIF/OEF

Steve Slane
US Army CERDEC, Command and Control Directorate

Using Ontologies to Formalize Warfighter Data Exchange

Judy Pinsky & Mike McMahon
US Army CE-LCMC, Software Engineering Center & CACI

Above 2GHz Waveform Portability - Architectural Considerations

George Vachula
Raytheon

CS10 – Antennas and Platforms

Date: Wednesday, October 19, 2005

Time: Time: 3:00PM - 5:05PM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Dr. Mahbub Hoque, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

Multi-Rate Signal Processing that enables Smart Antenna, Multi-Channel Communication, Wideband Intelligence Gathering and Data Compression Systems
Rich Crowley & Karl Hinman
Raytheon

Co-site Interference Test for Multiple Antennas Placement on the Aviation Platforms
Brandon Underwood, Anthony Savino, Frank Cansler & Joseph Welch
US Army CERDEC, Space & Terrestrial Communications Directorate

Tunable Antenna Study for Army Airborne Platforms
Anthony Savino & Brandon Underwood
US Army CERDEC, Space & Terrestrial Communications Directorate

Antenna Optimization Analysis for SLAM RAAM Platform
Daniel Duvak & Waliul Mizan
US Army CERDEC, Space & Terrestrial Communications Directorate

Antenna Placement Study for Stryker TACP Platform
Jeff Hoppe & Waliul Mizan
US Army CERDEC, Space & Terrestrial Communications Directorate

CS11 – Data Networks and Protocols

Date: Wednesday, October 19, 2005

Time: Time: 3:00PM - 5:05PM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Bob Both, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

JTRS Mobility in Tactical Military Environments

Eric Fleischman
The Boeing Co.

Bandwidth Centric Engineering

Jeff Keehn, Gerry Michael, Seth Spoenlein & Aristides Staikos
US Army CERDEC, Space and Terrestrial Communications Directorate

Above 2GHz Communications System Modular Architecture Development Methodology

John Pehowich, David Henduy & George Vachula
Raytheon

TCP over AEHF

Navid Yazdani & Johan Kullstan
Raytheon

Radio Service Applications in SWAP Constrained Environment

Annamarie Miller, Byron Tarver and Mike LaMacchia
General Dynamics C4 Systems

CS12 – Communication Propagation

Date: Wednesday, October 19, 2005

Time: 3:00PM - 5:05PM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Walt Lucchesi, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC).

Current Classification: US ONLY

Designing Portable Radio Software

Darryn Johnnie
Raytheon

Wideband Communications On-The-Move: Theory and Practice

David Cooper, George Horihan & Gary Lomp
BAE Systems

Applying Improved Taguchi Optimization to NLOS

Y. J. Liu & Chris Li
ITT, Aerospace and Communications Division

The High-Band Networking Waveform: A Directional Ad Hoc Networking Waveform for Battle-Command-On-The-Move in WIN-T and Other Battle-Space Networks

Keith Olds
Harris Corp.

Compact Millimeter Wave Power Modules for High Data Rate Communications

Carter Armstrong, Richard Vaughan, Tom Schoemehl, Jim Taylor, John Kennedy, Ray Watkins, R. True & D. Whaley

CS13 – Communications Vulnerability

Date: Thursday, October 20, 2005

Time: 9:30AM – 11:35AM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Lou Rodriguez, General Dynamics, C4S

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

Social Engineering the Network Security Analyst: An Advanced Study in Intrusion Detection System Evasion

Dr. Richard A. Raines, David J Chaboya, Rusty O. Baldwin & Barry E Mullins
Air Force Institute of Technology

The Heart of the Black Core and the Vulnerabilities of the GIG/JTRS/TSAT

Erik Mettala
Sparta

A Decision Support System (DSS) Based Methodology to Support the Engineering of a Network Centric Architectural Solution

Walter Lucchesi
US Army CERDEC, Space & Terrestrial Communications Directorate

CS14 – Information Assurance/Information Security

Date: Thursday, October 20, 2005

Time: 9:30AM – 11:35AM

Room: OFF-SITE ROOMS 113, 115 AND 131

Session Chair: Kevin Oakes, US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Sponsored by: US Army Communications Electronics Research, Development & Engineering Center (CERDEC)

Current Classification: US ONLY

GECKA – A Distributed Group Key Agreement Protocol

Steve Lucas & Benjamin Yau
US Army CERDEC, Space & Terrestrial Communications Directorate
Frank Geck, Kathleen McFarland, Robert Serenelli & Mike Straw
Key Way Security

Information Sharing Across Domains with Different Security Levels

George Barrett
JHU-APL
Loring Hosley & Jonathan Santos
US Army CERDEC, Space & Terrestrial Communications Directorate
Kathleen McFarland
Key Way Security

Army Battle Command Systems (ABCS) Security Testing : A Systems - of - Systems Approach
Sam Nitzberg & John Skrletts
NetCentric Technologies, Inc.

Crypto Modernization: Issues and Impact to INFOSEC System Designers
Mike Kleidermacher
L-3 Communications

A Cooperative Intrusion Detection Architecture for MANET
Kashif Brown & Steve Lucas
US Army CERDEC, Space & Terrestrial Communications Directorate
Greg Cirincaione - ARL
Dan Sterne - Sparta
Petros Mouchtaris - Telecordia