

# TOPS in Cyberspace Agenda

AS of 6/3/04

Tuesday, June 15

## Plenary Session

### 8:00 to 08:45 Check in at Hamilton College, Clinton NY

	Welcome to Hamilton College	Dr. David Smallen	Hamilton College, Vice President for Information Technology
	Cyberspace in New York State AFRL and Cyberspace	Honorable Sherwood Boehlert Maj. Gen. Paul Nielsen	Chairman, Science and Technology Committee Air Force Research Laboratory
	Department of Defense R&D Needs in Cyberspace	Dr. Ronald Segal (Invited)	Director of Defense for Research and Engineering
10:30	<b>Break</b>		
	Air Force Cyberspace R&D	Mr. James B. Engle,	Deputy Assistant Secretary of the Air Force for Science, Technology and Engineering
	Cryptologic R&D in Cyberspace	Brig. Gen. Neal T. Robinson	Director Air Force Cryptologic Office and Vice Commander, Air Intelligence Agency
	Mission Photos from Afghanistan	Lt. Col., MD. Chris Black	10 <sup>th</sup> Mountain Division, USA
12:00	<b>Lunch</b>		
	Needs, Relationships and Mapping Between Military and Civilian Cyberspace Applications	Mr. Mike Miravalle	Dolphin Technologies
	Concept of Civilian Operations in Cyberspace	Mr. Tom Constantine	Former Drug Enforcement Agency Director and Superintendent of the NY State Police
	Crime and Terrorism in Civilian Cyberspace	Mr. John Large	US Secret Service. Miami Office
14:30	<b>Break</b>		
	Research for Cyberspace	Mr. George (Tom) Marenic	Homeland Security, Advanced Research Project Agency
	Summary Analysis of Military and Civilian Cyberspace	Mr. Mike Miravalle	Dolphin Technologies
	Sensors and Information Superiority	Dr. Donald W. Hanson	AFRL Sensor Directorate
17:30	<b>Social Hour</b>		
18:30	<b>Dinner</b>		

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## Special Plenary Session

8:30 Network Centric Warfare, Cyber Warfare, & The Future Dr, Northrup Fowler III AFRL/IF

### 3 Parallel Technical Sessions

#### Parallel Session 1 Exploitation and Fusion

Chairman Mr. C. Bruce Parker C. Bruce Parker Consulting  
Co-Chairman Mr. Edward M. Starczewski AFRL/IFEA

9:00

**Session 1-1 Exploitation**  
Multi-Int Fusion Requirements Mr. Michael King AFC2ISRC  
Development of SIGINT Ontologies: Methodologies, Techniques, and Lessons Learned Ms. Mary Armijo Sierra Nevada Corporation  
GMTI Track Association Challenges Mr. Jeff Brandstadt Black River Systems Corp.  
Multisensor Image Fusion: From Analyst Tools to Realtime Fused Night Vision Dr. Allen Waxman Alphatech

10:30

**Break**  
Dynamic Tactical Targeting Mr. Craig Lawrence Alphatech  
WebTAS Data Integration and Information Fusion Mr. Carl Houghton Intelligent Software Solutions  
Information Fusion System Mr. Peter Shea Orincon

12:00

**Lunch**  
**Session 1-2 Fusion 2+**  
**Session 1-2-1 Fusion 2+ Part I**  
Fusion 2+ Overview Dr. J. Salerno and Mr. Mike Hinman AFRL/IFEA  
Data Collection Mr. Doug Boulware AFRL/IFEA  
Text Extraction Dr. Liz Liddy Syracuse University  
Model Analysis Dr. Sherry Marcus 21st Century Technologies, Inc.

14:30

**Break**  
**Session 1-2-2 Fusion 2+ Part II**  
Knowledge Discovery – Relational Pattern Learning Dr. Dave Jensen University of Mass  
Knowledge Discovery –Community Generation Dr. Mark Zhang Binghamton University  
Formal Methods for Situational Awareness Dr. Mitch Kokar Versatile Information Systems, Inc.  
Using Frequency Counts to Provide Alerts Dr. Perakath Benjamin Knowledge Based Systems, Inc.

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## 3 Parallel Technical Sessions

### Parallel Session 2 Information Management and Command & Control in Cyberspace

Chairman Mr. Joseph Antonik AFRL//IFS  
Co-Chairman Mr. Wayne K. Ranne Select Innovation, LLC. Newport News, VA.

9:00

**2-1 Operational Perspective**  
Operation Iraq Freedom Lessons Learned  
ForceNET

Mr. Mike Carpenter  
CDR Eric Exner

MITRE  
Naval Network Warfare Command

10:30

#### BREAK

ConstellationNET

Col Charles "Whitey" Whitehurst

AFC2ISRC/SC

### 2-2 Information Management in Cyberspace

Publish and Subscribe

Mr. Derek Merrill

General Dynamics

12:00

#### LUNCH

Information Management  
DCGS

Dr. Mark Linderman  
Mr. Mark Gilbert

AFRL/IF  
Raytheon

14:30

#### BREAK

### 2-3 Command & Control in Cyberspace

C2 Applications using the JBI  
Distributed, Multi-Organization Collaborative Decision Support  
System for Emergency Preparedness  
Joint Air/Ground operations: Unified Adaptive Replanner  
(JAGUAR)

Mr. Todd Humiston  
Mr. Hillol Kargupta

AFRL/IF  
AGNIK LLC

Mr. Carl DeFranco

AFRL/IF

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## 3 Parallel Technical Sessions

### Parallel Session 3 Defensive Operations in Cyberspace

Chairman Dr. Shiu-Kai Chin Griffiss Institute  
Co-Chairman Mr. James L. Sidoran AFRL/IFGB

9:00 **Session 3-1: Complex Adaptive Systems / Dynamic Defense**  
Analysis of Network Topology  
Compression and Complexity  
Session Chairman: Mr. James Sidoran AFRL/IFG  
Dr. Joe Johnson, University of South Carolina  
Dr. Scott Evans/Mr. Steven Bush General Electric

10:30 **Break**  
MINDS: Data Mining Based Network Intrusion Detection System  
Nonextensive Entropy and Complexity  
Dr. Vipin Kumar University of Minnesota  
Dr. Kendric Nelson SI International

12:00 **Lunch**

**Session 3-2: Situational Awareness**  
ARDA IA Initiatives (e.g., Situational Awareness and Cyber I&W)  
Session Chairman: Mr. Walt Tiernin, AFRL/IFG  
Mr. Richard Brackney, ARDA  
Security Situational Awareness: Technologies for Correlating and Visualizing IA Data  
Dr. Anita D'Amico, Secure Decisions, a Division of Applied Vision Inc.  
Technologies Aimed at the Insider Threat  
Mr. Allen Ott, Lockheed Martin  
Stego Intrusion Detection System (SIDS)  
Mr. Charles Green Assured Information Systems

14:30 **Break**

**Session 3-3: Next Generation Cyberops (Military & Homeland Security) Panel**  
Homeland Security Perspective  
IPv6 and Internet 2 NOC  
Protection of Portable Embedded Systems  
Forensics of Mobile devices  
Session Chairman Mr. Andrew Karam, AFRL/IFG  
Mr. Jay Perry US Secret Service  
Dr Steve Wallace and Mr. Greg Travis Indiana University  
Mr. Tom Goodman, Blue Fire Security Technologies  
Dr Kamal Jabbour Syracuse University

# TOPS in Cyberspace Agenda

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Thursday, June 17

## 2 Parallel Technical Sessions

08:00 top 09:00 Check in at Bulding 106, Rome Site, Griffiss Businesss And Technology Park, Rome, NY

### Session 4 Defensive and Offensive Cyber Operations

#### Classified Session In Building 106 Auditorium

Chairman Mr. William E. Wolf AFRL/IFG  
Co-Chairman Mr. James L. Sidoran AFRL/IFG

9:00 Cyber Operation Overview William E. Wolf AFRL/IFG

**Session 4-1 Defensive Cyber Operations** Session Chairman: Mr. James Sidoran AFRL/IFG  
Dynamic Quarantine Overview Mr. James L. Sidoran AFRL/IFG  
Dr. Tiffany M.Frazier ALPHATECH, Inc  
Mr. Mike Little Telcordia Technologies  
Defending the Wireless Network Mr. Paul Ratazzi AFRL/IFG

10:30 **Break**

**Session 4-2 Offensive Cyber Operations** Session Chairman: Mr. Tom Blake AFRL/IFG  
Information Operations and Supervisory Control and Data Capt Mark Friend AFIWC  
Acquisition Systems  
AF Status in Cyber Ops (CNA) Acquisition Lt Col Zahirniak, ESC

12:00 **Lunch**

**Session 4-3 AFRL/IF Offensive Cyber Operations R&D** Session Chairman: Mr. Tom Blake AFRL/IFG  
Covert Cyber Operations Dr. Len Popyack and Mr.Charles Green  
Multimedia Embedding for Attack Lt. Matt Welderner AFRL/IGB  
Embedded Systems Mr. Andrew Karam AFRL/IFG

14:30 **Break**

**Session 4-4 Offensive Demonstrations** Session Chairman: Mr. Tom Blake AFRL/IFG  
Virtual Machine (VM) Java Beans Mr. Dan Austin and Mr. Brad Leonard Assured Information Security, Inc (AIS)  
Guardian Angel Mr. Jeff Foley CACI

**Visit Authorization to attned this session must be Faxed to Lt. Danile Nerenberg, AFRL/IFS**

**Phone: 315-330-2417 --- Fax 315-330-2315**

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**08:00 top 08:30 Check in at Bulding 3, Rome Site, Griffiss Businesss And Technology Park, Rome, NY**

## Information Institute Workshop In West Wing of Building 3

8:30 Welcome;	Mr. Raymond Urtz	Director, Information Directorate
State of the Information Institute	Mr. John Graniero	Director, Information Institute
Overview of the Information Directorate	Dr. Northrup Fowler	Acting Chief Scientist, AFRL/IF
Research Opportunities with the Office of Scientific Research	TBD	AF Office of Scientific Research

**9:45**

**Break**

### Workshops

Sensor Networks	Dr. Stella Batalama and Dr. James Michaels
Research Needs for Cyber Operations	TBD
Advanced Computing Architectures	Tbd
System Architecture	Dr. Raymond Liuzzi, Dr. Peter Chen
Commander's Predictive Environment	Mr. Joe Carozzoni

11:00 Break-Up into Working Groups Start Parallel Workshops

**12:00**

**Lunch**

13:00 Parallel Workshops (4): Bldg 3 Quad

16:00 Feedback and Wrap-up

**Visit Authorization to attend the Information Institute Workshop must be Faxed to Cindy Cooley, AFRL/IFB,  
Phone: 315-330-1471 ----- Fax: 315-330-1725**

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## Registration Information

### For June 15 & 16

Early Bird (prior 1 June) is \$300

1 June to 12 June is \$375

At the door is \$425

Government and Information Institute Members is \$250

**All attendance for Jun 17 only is \$100**

### For June 15, 16 and 17

Early Bird (prior 1 June) is \$370

1 June to 12 June is \$425

At the door is \$475

Government and Information Institute Members is \$300

Make check payable to; **"AFCEA Erie Canal Chapter"**

**Registration fees** cover: conference handouts including a CD of all unclassified presentations, continental breakfasts, breaks, lunches for either 2 day or 3 day registrants, and a dinner at the end of the first day, Tuesday, 15 June at Hamilton College.

**Cancellation** requests must be received in writing and Faxed to 315-330-7989. Requests received before June 11, 2004 are entitled to a full refund less \$50.00 fee. After June 11, 2004 no refunds can be made