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**From:** Fredrick T. Martin [mailto:ftmartin@topsecret.net.com]  
**Sent:** Wednesday, April 15, 2009 4:34 PM  
**To:** ICAHST Council Members (icahst@topsecret.net.com)  
**Cc:** Fredrick T. Martin (fredrick.martin@dhs.gov)  
**Subject:** Feedback from 14 April 2009 ICAHST Meeting

**Attachments:**

1. Attendee List 14 April 2009.pdf
2. Agenda 14 April 2009.pdf
3. Martin RAWG Brief 14 April 2009.pdf
4. Chemers Lin NAS Brief 14 April 2009.pdf
5. Doherty C-IED Update Brief 14 April 2009.pdf
6. Toomer RSL Brief 14 April 2009.pdf
7. Barnes NGA In-Q-Tel Brief 14 April 2009.pdf
8. Yakobi TSWG HSCB Brief 14 April 2009.pdf
9. Cohen PM-ISE SAR Brief 14 April 2009.pdf

To all –

On behalf of the ICAHST Chair, Dr. John S. Morgan, I would like to thank all of you who came to the sixth Interagency Council for Applied Homeland Security Technology (ICAHST) Meeting on 14 April hosted by the Office of the Director of Strategic Intelligence and Information of the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) and held at their new Headquarters Complex in Washington, DC. In particular, we would like to thank our hosts for their hospitality and support – including Mr. James E. McDermond, Director; Mr. Kevin O’Keefe, and Maria Kelly.

Thirty nine council members, alternates, or guests were in attendance from the Department of Justice/National Institute of Justice (DOJ/NIJ), Department of Homeland Security (DHS), National Counterterrorism Center (NCTC), National Reconnaissance Office (NRO), National Security Agency (NSA), Bureau of Alcohol, Firearms, Tobacco and Explosives (ATF), the National Geospatial-Intelligence Agency (NGA), the US Forest Service (USFS), Department of Energy (Savannah River National Laboratory), the Technical Support Working Group (TSWG), the “Intelligence Advanced Research Projects Activity” (IARPA) of the Office of the Director of National Intelligence (ODNI) and the *East Valley Gang and Crime Information Fusion Center* (EVGCI), Mesa, AZ Police Department; as well as adjunct representatives from the National Academy of Sciences and the Markle Foundation Task Force on National Security. The meeting was held at the UNCLASSIFIED level. For your convenience, I have attached a listing of the attendees and their contact information.

**Meeting Summary**

Primary discussions at this meeting included:

- Dr. Morgan has continued his State/Local law enforcement visitation program to technology oriented police departments in several major cities. Visits to Los Angeles and Mesa, AZ were reviewed, including a proposal to sponsor a technology pilot with the LAPD *Regional Crime Center*, the Mesa, AZ “*East Valley Gang and Crime Information Fusion Center*” (EVGCI), and other law enforcement partners, using various “best practices” software.
- ATF presented a briefing on the “National Integrated Ballistic Information Network” (NIBIN).
- The ICAHST Research Agenda Working Group (RAWG) discussed the status of the revised and updated ICAHST “Technology Needs” document.

- An update on RAWG activities and sponsorship of technology investigations including special demonstrations was provided.
- The National Academy of Sciences briefed their recent book relating to privacy in the age of terrorism, entitled, "Protecting Individual Privacy in the Struggle Against Terrorists," as well as other related activities.
- Department of Energy (DOE) Remote Sensing Laboratory (RSL) Briefing
- Government C-IED Program Update by DHS/S&T
- Proposal for ICAHST C-IED Working Group
- NGA In-Q-Tel Program Brief
- Discussion of the DHS/S&T funded and ICAHST sponsored Counterterrorism Course to be held 4 – 8 May at ATF Headquarters
- Technical Support Working Group (TSWG) Human Social, Cultural, and Behavior Modeling Program (HSCB) Briefing
- Briefing on the recently released report by the Markle Task Force on National Security
- Program Manager – Information Sharing Environment (PM-ISE) information on their "Suspicious Activity Reporting" effort.

### **Meeting Discussions**

Dr. Morgan and Mr. O'Keefe welcomed the ICAHST members to ATF and this meeting. With the relatively large number of participants, Dr. Morgan asked the attendees to briefly introduce themselves and their organization.

### **ICAHST Activities from the Chair**

Dr. Morgan explained his State/Local law enforcement visitation program to technology oriented police departments in several major cities, including recent ICAHST visits to the Los Angeles Police Department (LAPD) and the Mesa, AZ Police Department. As a result of those visits, ICAHST is planning to sponsor a technology pilot using a set of commercially available software platforms determined to represent "best practices" that demonstrate the concept of "Predictive Policing" within the United States. These platforms, currently including Palantir Technologies and Entity Analytic Solutions, will be benchmarked using counterterrorism and other sensitive law enforcement data from the Los Angeles Police Department (LAPD), the Mesa, AZ Police Department, and other law enforcement partners as part of a national effort to demonstrate the utility of this concept.

"Entity Analytic Solutions" is a software suite developed by the *IBM Corporation* that finds non-obvious relationships and resolves ambiguous identity and attribute information into a single entity across multiple data sets. "Palantir" is a visualization oriented software platform developed by *Palantir Technologies, Inc.* for the Intelligence Community that has received funding from the CIA's venture capital arm, IN-Q-TEL, and combines knowledge management, collaboration, and discovery into a seamless package. Palantir features include data integration, search and discovery, knowledge management, and other collaboration capabilities.

In addition and related to the ICAHST efforts, Dr. Morgan stated that the National Institute of Justice was in the process of issuing a solicitation to State/Local law enforcement entities for demonstration opportunities in the area of "Predictive Policing."

Dr. Morgan also explained that the concept of "Predictive Policing" is growing within the law enforcement community as an accelerator for crime prevention. This effort also received added impetus from a special technology program sponsored by Harvard University as part of their Criminal Justice Policy and Management Program and attended by Dr. Morgan and a number of the top technology oriented chiefs of police from around the nation. He announced that NIJ is planning a Predictive Policing conference or symposium for the Fall of this year – to be co-sponsored by DHS/S&T – and he hoped that ICAHST members would participate. Current plans call for the symposium to consist of two phases:

- Concepts and Definitions

- Implementation and Evaluation

I will forward additional information on this venue to all ICAHST members as soon as it becomes available.

### **ICAHST Support at DHS/S&T**

Mr. Randel L. Zeller, Director, Interagency and First Responder Programs, Science & Technology Directorate, Department of Homeland Security, reiterated support for ICAHST programs and the utility of the coalition across the homeland security, counterterrorism, and intelligence communities. He mentioned some activities of his Division and others within DHS/S&T that he felt would be of interest to ICAHST members including:

- **Formation of First Responder Integrated Product Team (IPT)**  
DHS/S&T is in the process of setting up an IPT dedicated to serving the technology needs of the First Responder Community. Mr. Zeller explained that he would like to see the IPT have a heavy concentration of actual first responder practitioners. The idea is for this group to interact with federal decision makers that will in turn bring federal resources as well as assist in bringing private sector resources to bring commercial off the shelf products to solve first responder problems.
- **Unmanned Aerial Vehicles**  
Efforts with the Naval Postgraduate School in Monterey, CA and Camp Roberts, CA to examine the use of Unmanned Aerial Vehicles (UAVs) in law enforcement and the first responder community: Bringing together members of the police and fire first responders at Camp Roberts is under consideration. Teams would pick desired sensors, load them, and fly them in order to determine the composition of ideal sensor packages, determine problems, and decide upon an ideal communications/control suite. (Camp Roberts is now under the control of the California National Guard and is located between San Francisco and Los Angeles, near San Luis Obispo, CA.)
- **Ambulance Operations**  
Also under consideration are efforts to work with Camp Roberts to examine ambulance operations including real-time data transmission – for example, EKG results.

Mr. Zeller is interested in ICAHST feedback and additional participation in all first responder activities.

### **Civil Liberties Working Group (CLWG) Status:**

This working group is charged with leveraging civil liberties protection efforts underway across government in order to develop an approved set of policy guidelines for research activities undertaken by ICAHST. The goal is to ensure that the comprehensive set of privacy protection rules under development across government would be applied to all ICAHST research activities.

It was announced that the overall strategy is to apply the DHS structured privacy, civil rights/liberties compliance process to the operation of all ICAHST Research Agenda Working Group (RAWG) projects, including all activities in support of the Predictive Policing Technology Pilot under planning with various police departments.

### **Research Agenda Working Group (RAWG) Status:**

It was announced that Dr. James E. Lantzy, formerly the technology Program Manager for Mission Systems Directorate within NCTC, has accepted a new position as head of the CIA IT University and therefore has resigned his position as Chair of the this working group. Dr. Lantzy hopes to continue ICAHST participation in his new position.

ICAHST is indebted to the commendable service of Dr. Lantzy during the past several years of service. In a letter of commendation to Mr. Michael E. Leiter, Director, National Counterterrorism Center (NCTC), Dr. Morgan cited the professionalism of Dr. Lantzy, stating that his “accomplishments represent unprecedented milestones on the part of the homeland security/counterterrorism community,” and that Dr. Lantzy has “effected true collaboration among

intelligence and law enforcement agencies on research, development, and implementation of advanced information technology, helping to ensure that there is no duplication of effort but instead a sharing of technologies across government.”

The departure of Dr. Lantzy means that ICAHST (Dr. Morgan) is looking for someone to serve as Chair of this working group. If you are interested – or know of a candidate – please let me know by email.

On behalf of Dr. Lantzy, the undersigned gave a presentation on the status of this working group. It was stressed that progress is being made in each the various RAWG committees, including:

**1. ICAHST Research Needs; Chair:** Cheryl E. Reid, NIJ

**Purpose:** To revisit and update/revise/prioritize the existing ICAHST Long Term Research Needs document

This document is now in final draft. Entitled “ICAHST Technology Needs” – it is an amalgamation of the comprehensive NIJ Requirements Document, the DHS/S&T High Priority Technology Needs Document, and various other inputs from NCTC and other participating ICAHST members. In a recent meeting with the Office of Science and Technology Policy (OSTP), various areas of concern were expressed and are now being revised and coordinated with OSTP.

**2. Protected Computing Environments; Chair:** Blair Deem (USMS)

**Purpose:** To define the problem set, explore ongoing efforts, and determine feasibility of developing a proof-of-concept pilot for secure and/or protected portable electronic devices to support unclassified, sensitive but unclassified (SBU), and classified voice and data

The Marshals Service and FBI are attempting to move their pilot to a full program and expand the operational capabilities for all USMS Operational Employees. Success with this pilot has included the arrest of a sex offender. A detailed briefing on this pilot will be scheduled for the next ICAHST meeting.

**3. Technology Benchmarking; Chair:** Vacant

**Purpose:** To engage in ICAHST sponsored outreach activities including specific technology exploration visits to industry, academia, and government locations to determine applicability to mutual homeland security and counterterrorism problems. These efforts are a key part of this committee – providing the foundation for enhanced RAWG technology understanding and enabling critical first hand operational and R&D community interface.

The RAWG Technology Investigations will continue and have resulted to date in the ICAHST Technology Pilot now underway with LAPD, Mesa PD, and possibly other law enforcement agencies.

**4. ICAHST Industry Day/Conference; Chair:** Tom Martin, ICAHST

**Purpose:** To explore the concept of an ICAHST “Industry Day,” and/or periodic ICAHST Conference presentations

It was announced that planning is underway for a possible ICAHST sponsored C-IED conference in late Fall 2009 that would serve as a follow-on to the “C-IED International Symposium and Exposition,” which was held at the Gaylord Conference Center, in Washington, DC, on 12-13 November 2008. LTG Metz, Director of the DoD “Joint IED Defeat Organization” (JIEDDO) and Mr. James Slavin, Director, “Joint Training Counter-Improvised Explosive Device Operations Integration Center” (JTCOIC), have expressed interest in a conference with a focus on training. Discussions with JIEDDO are underway and

will be coordinated with ICAHST members including DHS/S&T and the DHS Office for Bombing Prevention (OBP).

It was reiterated once again that additional members are needed and welcome in every RAWG committee and all outreach activities.

I have attached the RAWG progress update slides.

The activities of both ICAHST working groups will continue to be presented at future Council meetings for endorsement and approval.

### **Report: Protecting Individual Privacy in the Struggle Against Terrorists**

As a follow-on to our last quarterly meeting, Ms. Betty Chemers, Senior Program Officer for the Committee on Law and Justice, and Mr. Herb Lin, Chief Scientist, Computer Science and Telecommunications Board within the National Academy of Sciences (NAS), gave a briefing on NAS committee efforts addressing the challenges of technology for countering terrorism – specifically providing the needed tools while continuing to ensure that our privacy is maintained. Their efforts addressed:

- Data mining and information fusion
- Available and emerging surveillance technologies and their IT support
- Behavioral surveillance
- Attendant privacy issues

The core of the committee report provided a framework for evaluating information based systems for both system effectiveness as well as consistency with all applicable laws and values. Conclusions were presented for Privacy, Assessment of CT Programs, Data Mining, Deception Detection and Behavioral Surveillance, and for Statistical Agencies. Their specific conclusions on privacy were:

- Privacy protection can be obtained through the use of a mix of technical and procedural mechanisms.
- Data quality is a major issue in the protection of privacy.
- Inferences about intent and/or state of mind implicate privacy issues to a much greater degree than assessments or determinations of capability.
- Program deployment and use must be based on demanding criteria.

Their recommendations included:

- Government agencies using information-based programs for counter-terrorist purposes should follow a systematic process such as the one described in the committee's framework to evaluate the desirability and feasibility of any given program before such a program is set into motion.
- The U.S. government should periodically review the nation's law, policy, and procedures that protect the private information of individuals in light of changing technologies and circumstances. In particular, the U.S. Congress should re-examine existing law to consider how privacy should be protected in the context of information-based programs (e.g., data mining) for counterterrorist purposes.

I have attached the slides used by Ms. Chemers and Mr. Lin.

### **Government C-IED Program Update**

Dr. Ruth Doherty, who heads the DHS/S&T Program Executive Office for Countering Improvised Explosive Devices (PEO C-IED), gave a briefing on government-wide efforts to manage counter-IED efforts – in response to the direction provided by Homeland Security Presidential Directive 19 (HSPD-19), *Combating Terrorist Use of Explosives in the United States*. Her portfolio includes the following areas: Prevent/Deter, Predict, Detect, Defeat, and Respond/Mitigate.

Dr. Doherty also explained the OSTP National Science and Technology Council (NSTC) Subcommittee on Domestic IEDs, started in April 2008, co-chaired by Dr. Doherty, the Technical Support Working Group (Jeff David), and OSTP (Duane Blackburn), and tasked with the:

- Identification of operational requirements
- Collection of information on funded RDT&E programs in all government agencies that address countering IEDs
- Identification of:
  1. Areas with duplication of effort
  2. Lack of funding for high priority requirements

She cited the December 2008 publication of a report by the subcommittee entitled, "Research Challenges in Combating Terrorist Use of Explosives in the United States." In this report, a number of critical needs were identified, including:

- C-IED Network Attack and Analysis
- Detection of Homemade Explosives
- Standoff Rapid Detection of Person Borne IEDs
- Vehicle-borne IED Detection
- IED Access and Defeat
- Radio Controlled IED Countermeasures
- IED Assessment and Diagnostics
- Waterborne IED Detect and Defeat Systems
- IED Warnings
- IED Threat Characterization and Signatures

Printed copies of the report are available. The report is also available for download at:

<http://www.ostp.gov/galleries/NSTC%20Reports/Domestic%20IED%20Grand%20Challenge.pdf>

I have attached the slides used by Dr. Doherty.

#### **DHS/S&T Counterterrorism Course - ATF**

It was announced again that all ICAHST members are invited to participate in a special week long, *Unclassified* Counterterrorism Course.

The course will be held 4 – 8 May 2009 in the Auditorium of the new Headquarters complex of the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) in Washington, DC. All course fees and tuition have been paid by the Science and Technology Directorate of the Department of Homeland Security. The standalone four hour senior executive summary of this course that was announced earlier is being postponed and may be offered in the future.

#### **Overall Course Objective**

This 40 hour course is designed to provide first responders and those professionals involved in security and Counterterrorism efforts with a 21st century framework for identifying and viewing counterterrorism challenges. To build this framework, the course includes an introduction to terrorism, which examines modern forms of terrorism to include radical and extremist groups. Based on this foundation, the course then provides an overview of prevention, detection, and deterrence approaches. Pre-incident indicators (PII) are discussed, as well as concepts of proactive security and law enforcement, and civilian threat mitigation, providing insight into how terrorist groups prepare an attack. Finally, participants examine indications and processes that support the capability to predict and deter the terrorist threat and attacks. The course is taught by experts in their respective fields, including former Army intelligence and Israeli El Al airlines security professionals.

## **Course Components**

Based on feedback from an earlier version of this course, arrangements have been made to separate the week long course into two discrete components and allow participants to elect to attend either component or both, based on their individual schedules and organizational requirements.

### **Component One**

**Title:** 21<sup>st</sup> Century Terrorism

**Dates:** 4 and 5 May 2009

**Time:** 9:00am to 5:00pm

#### **Overview:**

- Discussion on the specter of the new face of global terrorism
- Brief History from Collins to bin Laden
- Extremist Islam
- 1993 – The New Face of Terror in America
- Recent events from 9/11/01 to present
- What's Next: the impact of US Intervention and the "War on Terror"
- Preparation, Prevention and Deterrence in the Private Sector

### **Component Two**

**Title:** Art of Deterrence™

**Dates:** 6 – 8 May 2009

**Time:** 9:00am to 5:00pm

#### **Overview:**

This course will use a unique workshop approach to problem solving known as "The Art of Deterrence™." It begins from the point of view of the aggressor, whether terrorist or criminal, and then links research and intelligence with past events to translate into current methods of operation. The result is an understanding of how aggressors operate, and the method is applicable in virtually any environment and security framework. This workshop has proven to be an eye opener and is considered to be valuable for members of the first responder community and security professionals.

#### **Registration:**

Limited space is still available. You may register by email to me as soon as possible, but not later than **22 April**. I will need the following information:

- Name
- Position
- Organization
- Email address
- Office telephone number

### **DOE Remote Sensing Laboratory Briefing**

As part of the January 2009 RAWG Technology Investigation Trip to Nevada, Dr. Morgan and several ICAHST members visited the Department of Energy (DOE) Remote Sensing Laboratory (RSL) as well as the DOE Nevada Intelligence Center. Mr. Alan Will, Deputy Director of the RSL agreed to brief ICAHST members on their operations, but a scheduling conflict precluded his attendance at this session.

At the request of Dr. Morgan, Mr. Frank Toomer, the Senior Federal Civil and Homeland Security Coordinator at the National Reconnaissance Office (NRO) Systems Engineering Office, has been serving ICAHST in various liaison activities. Mr. Toomer recently traveled to Nevada to coordinate ICAHST activities with the RSL. As a result, it was agreed that he would give a brief summary of the RSL slides in the interim until Mr. Will can present a more comprehensive brief at a future ICAHST session.

Mr. Toomer explained the overall mission and assets used by the RSL. Radiological Emergency Response mission activities at Nellis AFB included:

- Aerial Measuring System (AMS)
- Nuclear Incident Response
  - Crisis Response
  - Consequence Management
  - Radiological Assistance Program
- Nuclear Instrumentation Design
- Software Technology/Telemetry
- Digital Technologies
- Special Programs
- Advanced Technology Solutions
- Policy and Analysis
- Operations
- Aviation

I have attached the RSL slides used by Mr. Toomer.

#### **NGA In-Q-Tel Program Overview**

Mr. Mark Barnes, InnoVision Industry Outreach, National Geospatial-Intelligence Agency (NGA), gave a presentation on In-Q-Tel activities across the Intelligence Community and specifically within NGA. In-Q-Tel, a charter member of ICAHST, is considered to be the “venture capital” arm of the Central Intelligence Agency (CIA). In-Q-Tel identifies and partners with various commercial companies that are engaged in the development of cutting-edge technologies, and then assists in delivering these technologies to CIA and the broader US Intelligence Community. In-Q-Tel had previously invested in both Palantir and the IBM technology now under consideration in the ICAHST Technology Pilot. Mr. Barnes covered:

- How In-Q-Tel relates to ICAHST
- NGA InnoVision Industry Outreach through In-Q-Tel
- Overview of In-Q-Tel
- NGA and In-Q-Tel
  - Past and Present
  - Where we are going
  - How we can help you
- Product Highlights
- References

For additional information, see the In-Q-Tel website at:

<http://www.iqt.org/>

I have attached the slides used by Mr. Barnes.

#### **TSWG Human Social, Cultural, and Behavior Modeling Program (HSCB)**

Ms. Shana Yakobi, Senior Program Analyst, Combating Terrorism Technical Support Office (CTTSO), Technical Support Working Group (TSWG), gave a broad, high-level presentation on the organization, and mission, as well as the Interagency and International partnerships of the CTTSO. TSWG has been a member of ICAHST for some time, helping in a number of areas including the development of the ICAHST Technology Needs document.

Ms. Yakobi also briefed the organization and objectives of the CTTSO Human Social, Cultural, and Behavioral Modeling Program (HSCB), including the mission and overall goal to “research, develop, and demonstrate general-use capabilities to support

applications in intelligence analysis, operational planning, joint experimentation, and training.” She explained that the program “is rooted in social science theory and centered on the development of computational and training methods / tools, applicable to the full spectrum of conflict, including supporting the doctrine for Major Combat Operations (MCO), Irregular Warfare (IW), and Security, Stability, Transition, and Reconstruction operations (SSTR).”

These activities are of great interest to ICAHST members and additional details will be briefed at a future ICAHST meeting.

I have attached the slides used by Ms. Yakobi.

### **Markle Task Force on National Security**

Mr. Bryan Cunningham, an attorney at Morgan and Cunningham LLC, and a member of the Markle Foundation “Task Force on National Security in the Information Age”, distributed copies of the latest report from the task force, released a few weeks ago on 10 March and entitled, “Nation At Risk: Policy Makers Need Better Information to Protect the Country.” Mr. Cunningham briefed the five recommendations from the Task Force to accelerate the creation of an Information Sharing Environment:

1. Reaffirm Information Sharing as a top priority.
2. Make government information discoverable and accessible to authorized users by increasing the use of commercially available off-the-shelf technology.
3. Enhance security and privacy protections to match the increased power of shared information.
4. Transform the information sharing culture with metrics and incentives.
5. Empower users to drive information sharing by forming “Communities of Interest.”

The report can also be downloaded on the Markle Task Force website at:

<http://www.markletaskforce.org/>

The link for the report itself is:

[http://www.markle.org/downloadable\\_assets/20090304\\_mtf\\_report.pdf](http://www.markle.org/downloadable_assets/20090304_mtf_report.pdf)

### **Suspicious Activity Reporting Initiative**

Mr. John Cohen, Senior Advisor to the “Program Manager – Information Sharing Environment” (PM-ISE) was called away and unable to brief information on their “Suspicious Activity Reporting” information sharing effort. ICAHST members including Mr. Robert Calandra, NCTC, recently met with Mr. Cohen to ensure coordination of PM-ISE information sharing efforts with ICAHST efforts. Mr. Cohen wants to continue coordination with ICAHST activities and will brief PM-ISE efforts at the next ICAHST meeting. In the interim, Mr. David Lewis, Senior Advisor for the DOJ Bureau of Justice Assistance answered questions on this BJA/PM-ISE effort with State/Local law enforcement.

The overall purpose of the SAR effort is to establish a unified approach at all levels of government to gather, document, process, analyze, and share information about terrorism-related suspicious activities. Although he was unable to brief, Mr. Cohen forwarded his slides for review by ICAHST members, and I have attached them to this email.

Additional information on PM-ISE is available at their website:

<http://www.ise.gov/>

### **Next Meeting**

We anticipate that future Council meetings will continue to occur on a quarterly basis, with the various working groups and committees meeting as frequently as required. Council meetings will

be held at the Unclassified level at various locations to be determined. The Council plans to meet next in the late July or August 2009 timeframe. I will be in touch by email with specific details on the next meeting.

The ICAHST constitutes a Council of *Coalition Stakeholders* and is the primary guidance mechanism for this homeland security/counterterrorism activity. It is very important to have your participation and input and your contributions are greatly appreciated.

Warm regards,

Fredrick Thomas Martin  
Executive Agent  
Interagency Council for Applied Homeland Security Technology