



New STC Support for Future Combat Systems through TACOM Contract

The Future Combat System (FCS) program was officially formed in 2002 to consolidate multiple combat systems development and facilitate inter-system communications. The program has become the Army's largest acquisition effort and considered key to the Army transformation. STC joined the Jacobs (then Jacob-Sverdrup) Corporation as a subcontractor in an omnibus support contract to the Tank-Automotive Command (TACOM). The FCS

Modeling and Simulation Office (MSO) is funded through TACOM.



MSO IV&V Team, Left to right: Jeff Pierson, Joseph Olah, Francis Cline, and Walter Bahrke.

For FCS, A System of Systems (SoS) phased integration approach uses an iterative development based on SoS Integration and Verification. This approach

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STC Blue-Ribbon Panel Reviews ECBC Agent Spectroscopy and Algorithm Development Program

A Blue-Ribbon Panel, consisting of seven experts in different aspects of multi-wavelength remote sensing, spectroscopy and algorithm development of aerosols and gases, with special relevance to Chemical-Biological (CB) agents, was assembled by STC's CEO **Dr. Adarsh Deepak**, to conduct an external Peer Review of the CB Standoff Detection Program at Edgewood Chemical Biological Center (ECBC). Mr. William Loerop, Team Leader,

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Honors and Awards

STC Employees Receive NASA Group Achievement Award(s)

Leon Council, Tom Feigh, Eric May, Christopher Parr, and Matthew Stearman were recognized at NASA Langley Research Center's 2007 Center Team Awards Ceremony on May 17, 2007.

Tom Feigh was recognized for his support to the Synthetic Vision Operations Considerations experiment conducted in the Integration Flight Deck simulator. This

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ATC Awards

The U.S. Army Aberdeen Test Center recognized 56 government, contractor (including STC teams), and military personnel during their Annual Awards Ceremony on November 17, 2006 at the Aberdeen Proving Ground, Maryland. A total of 249 employees were nominated for the various awards. "For every person nominated, there were probably a dozen other people that could have been nominated," said Colonel John Rooney, ATC Commander. "We have an outstanding workforce."

During the ceremony, ATC's mission support contracts, Aberdeen Test Support Services (ATSS), where STC is a subcontractor, and Aberdeen Data Services Team (ADST), where STC is the prime contractor, also recognized some of their employees with awards.

The ATSS Excellence in Test Execution Award for a Group was awarded to the Commercial Aircraft Hardening Test

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Edgewood Region Office (ERO) Recognizes Staff

Dick Gilligan, Sr. VP Edgewood Region, presented commemorative pen sets to **Glenda Lissimore** and **Althea James**. Glenda, who has been with STC since March 1999, is the Facility Security Officer and supervises the front office. Althea, who has been with STC since November 2000, supports the Millimeter Wave Project, is the region Quality Specialist, and functions as local LAN support for ERO. □



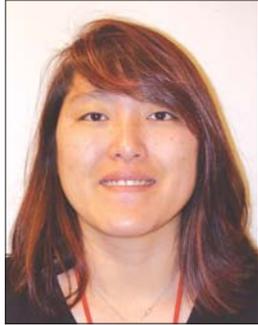
Left to right: Dick Gilligan, Althea James, and Glenda Lissimore

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requires an initial heavy dependence on computerized models and simulations to fill in for platforms that have not yet been built, and to create a realistic environment for the SoS testing. Having models and simulations that meet the requirements of the particular phase is critical to the follow-on development decisions that must be made. Verification and Validation (V&V) of the required models and simulations assures these models and simulations will provide data that will aid in acquisition decisions. The FCS MSO is responsible, along with the support of Lead System Integrators (LSI), Boeing and SAIC, to ensure appropriate modeling and simulation through the application of V&V. As part of that government responsibility, the MSO maintains an Independent V&V (IV&V), provided by a separate corporation outside the LSI. That IV&V role is being provided by STC from the Edgewood Region office in Maryland, and satellite individual locations in



Mia Nance, MSO SPO

Huntsville, Alabama, and Huntington Beach, California. These individual locations are near FCS project centers.

The STC IV&V team consists of **Jeff Pierson**, Team Leader in Edgewood, recently retired manager from the U.S. Army Developmental Test Command; **Joseph Olah**, also in Edgewood, strong previous experience with V&V of weapons system simulations; **G. Francis Cline**, in Alabama, another experienced IV&V analyst who was already working the FCS

MSO IV&V project under the previous contractor; and **Walter Bahrke**, in California, with 30-years M&S experience who joined the team this year. The IV&V task was originally awarded to STC in August 2006, with current contract processing for follow-on through the end of 2008.

STC also provides additional support directly to the MSO Director by staffing the Simulation Project Officer (SPO), an Executive Officer role in Rosslyn, Virginia, at the primary location of the

FCS MSO. **Mia Nance**, Program Management Analyst on the PAIS Program (Chemical Demilitarization), had recently provided temporary MSO support in Rosslyn and was requested by the MSO Director to remain full time as SPO. Mia was promoted to the role of MSO SPO/Sr. Program Analyst in July.

STC continues to explore other opportunities with Jacobs in the TACOM and related arenas, and anticipates future work for the FCS through 2012. Commenting on our progress with this project, Darren Kraabel, Division Vice President and Program Manager, Jacobs TACOM Support stated, "Jacobs specifically selected STC to perform the FCS IV&V work based upon outstanding past performance in M&S IV&V as well as our long-term relationship with STC supporting our Army clients. For this particular effort, STC was able to execute a very difficult task transition with no disruption to ongoing services while retaining existing and/or providing new critical technical expertise needed by the FCS program at a very critical juncture in their M&S IV&V program. Absolutely outstanding!" □

STC BRP (Continued from page 1)

Passive Standoff Detection (SD) at ECBC sponsored this effort.

The Panel members were: Drs. A. Deepak (STC), Chair; W. P. Chu (formerly of NASA LaRC); P. R. Griffiths (University of Idaho); T. Johnson (Pacific Northwest National Lab.); D. K. Killinger (University of South Florida); J. Margolis (formerly of Jet Propulsion Lab.); and, C. R. Philbrick (Pennsylvania State University).

The Panel met on 13 and 14 December 2006 at Aberdeen, Maryland, to receive briefings of the SD programs from the Laser (viz., Active) and Passive Standoff Detection Teams. ECBC Director, Mr. James Zarzycki, gave a short overview of his vision of the SD pro-

gram, and explained what propelled him to seek this independent external program review. Ms. Cynthia Swim, SD Team Leader, and Mr. Loerop also attended the briefings.

The general task for the Panel was to conduct a peer review of agent spectroscopy and algorithm development, a core program within the active and passive standoff detection exploratory and advanced programs for CB Defense at ECBC, to include assessment of past performance, identification of technology gaps, comparison of the ECBC program with other similar programs in the United States, and to recommend future courses of action, including the resources and skill-mix of personnel needed to accomplish the program objectives and goals. The panel members were drawn from universities, non-profits and industry. Their expertise covered a wide range of active and passive remote sensing techniques in the various regions of electromagnetic spectra, from ultra-violet (UV) through infrared (IR) to microwave.

The Panel's secondary objective was to produce a report containing their deliberations, conclusions and recommendations. Following the initial deliberations at Aberdeen, the panel members worked on several iterations of the report to ensure consensus about the conclusions and recommendations to be included. The detailed report, submitted to the government, addressed the conclusions of the current program, highlighting the quality of work being performed in the laser and passive standoff programs, technical areas in which more work should be done and where additional funds should be allocated; and a recommendation that ECBC should take the lead in becoming the Center of Excellence for developing a signature database library for agent and interferent specie data. □

The STC NEWSLETTER is published by the Science and Technology Corporation, 10 Basil Sawyer Drive, Hampton, VA 23666.

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Layout: AnnaMaria Clack
(757) 766-5800/Fax (757) 865-1294
Web site address: www.stcnet.com

FALL 2007 ISSUE

DUE DATE FOR ARTICLES: OCTOBER 5, 2007
ADVANCE COMMITMENT: SEPTEMBER, 28 2007

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Program Support Team which included **Cesar Lopez** of STC. This Team's efforts have ensured the success of critical test programs determining vulnerability of commercial aircraft to terrorist explosive attacks. Their efforts also assisted the Department of Homeland Security in the development and evaluation of methods and technologies designed to mitigate damage and loss of life from such attacks.



Left to Right, John Wallace, ATC Technical Director, Col John Rooney, ATC Commander, Cesar Lopez, Ralph Rather, ATSS Deputy Program Manager.

The ADST Excellence in Test Support Award, presented to an employee for providing exceptional contributions and a high level of dedication which has led to outstanding productivity, quality and safety, was awarded to Julie Atkinson of Jacobs Engineering, an STC subcontractor. The award cited that she has gone above and beyond her responsibilities in ensuring all support is given with the highest standards and provided a superior level of team support with co-workers, ATC and ATC's customers.

The ADST Excellence in Data Collection Award, presented to a group of data collectors who exhibit exceptional support, dedication, professionalism, and outstanding levels of technical skills, was awarded to the Mobile Gun System Data

Collection team of Julie Atkinson, **Marquita Boyer** (STC employee), **Christine Buchanan** (STC employee), Natalie Hampshire, Wendy Jones, Courtney Keithley, Susan Knopp, Kimberley Schillforth and Allison Shirk. This group's support to ATC and ADST is an indication of their professionalism and the pride they take in performing their mission.



Left to Right, John Wallace, ATC Technical director, Col John Rooney, ATC Commander, Julie Atkinson (Jacobs Engineering), Harry Kramer ADST Program Manager.

The ADST Administrative Support Excellence Award, presented to **Reid Hopper** (STC employee), was awarded for providing exceptional administrative services to ATC's Directorates and Divisions during the period of July 2005 through August 2006. Hopper's high dedication has led to outstanding productivity, quality



Left to Right, John Wallace, ATC Technical director, Col John Rooney, ATC Commander, Mobile Gun System Data Collection Team, Harry Kramer ADST Program Manager.



Left to Right, John Wallace, ATC Technical director, Col John Rooney, ATC Commander, Reid Hooper, Harry Kramer ADST Program Manager.

and safety. He is a role model for integrity and dedication while showing a positive attitude and excellent communication skills. Rooney concluded the ceremony by once again congratulating all of the winners and nominees for a job well done. □

NASA (Continued from page 1)



Tom Feigh

effort evaluated advanced flight visual interface concepts and the data collected will help develop safer weather related aircraft landing capabilities.



Front row left to right (kneeling): Eric May and Matthew Stearman. Back row left to right: Leon Council and Christopher Parr.

Leon Council, Eric May, Christopher Parr, and Matthew Stearman were recognized for their support in establishing a state-of-the-art fabrication facility at Langley. This state-of-the-art facility will support advanced exploration development efforts and Constellation Program projects. □

AMS/STC Scholarship Award



Left to right: Don Frank, STC VP for Earth and Space Sciences, Josh Weiss, Dr. Franco Einaudi, AMS President.

The American Meteorological Society named Joshua D. Weiss as the recipient of the AMS/STC Undergraduate Scholarship for 2005/

2006. He is currently a junior at the University of Massachusetts Lowell and works part time in the Meteorological Operations Division at Weather Services International (WSI) in Andover, MA. He was awarded a 2006 NOAA Hollings Scholarship, and as part of the award has accepted an internship with the National Weather Service in San Antonio, TX, this summer. Joshua will graduate with a bachelor's degree in the Spring of 2008 and plans to work towards a master's degree immediately afterwards. His goal is to become an operational forecaster with the National Weather Service.

The AMS/Industry scholarships, which are based on merit, are awarded for the junior and senior years and are designed to encourage outstanding undergraduates to pursue careers in the fields covered by the awards. STC has funded its annual Scholarship since 1991. Scholarship students, usually in their senior year, are invited to attend the AMS Annual Meeting. Josh was awarded his scholarship at the January 2007 AMS Annual Meeting in San Antonio by Dr. Franco Einaudi, AMS President and Director Earth-Sun Exploration Division, NASA Goddard Space Flight Center. □

STC Recognizes Staff With 15 Years Service



Jim St. John
March 1991



Merel D. Meyer
March 1992



Mulugeta Petros
March 1992



Wes Ercanbrack
June 1992



Joseph A. Traino III
July 1992



James P. Gilbert
September 1992



Richard M. Gilligan, Jr.
September 1992



Harry C. Kramer
November 1992

STC Part of Team Winning CAMDS Support Contract

STC, working with Mellor Engineering (MEC) of Lehi, Utah as the prime contractor, has been awarded the new support contract for the Chemical Agent Destruction System (CAMDS). This new 5-year effort is successor to the previous laboratory support contract that STC held with Mellor since 2001. STC's lead on the proposal was **Steve Freudenberger**, who has been the CAMDS Laboratory



Steve Freudenberger

Manager for five years under the previous contract, with assistance from Wes Ercanbrack who is now the senior STC scientist on the Range and Laboratory Services contract at Dugway Proving Ground, and **Craig Gurling**, the

Diana McQuestion Retires



Diana McQuestion

Diana McQuestion, STC's Publications and Meetings Manager, retired on February 28, 2007 after 25 1/2 years of dedicated service. She will continue to work as an Associate Employee on occasional projects as needed. STC held a well-attended farewell luncheon for her. STC employees can see the luncheon photos by visiting the STC Intranet. □

Program Manager of the STC Dugway Data Services contract. The overall proposal was headed by Brad Thacker of Mellor Engineering, a previous STC employee while STC was the prime contractor on a prior Laboratory Services contract at CAMDS, before MEC. This proposal was a real team effort of both companies

New Contracts

The PAISC IV subcontract, the fourth consecutive contract for work we started over 15 years ago, was awarded to STC by SAIC through 2011. The Mellor Engineering Corporation and STC Team received the follow-on to the CAMDS contract at the Tooele Army Depot in Utah extending our more than 17 years of support. Our 16 years of continuous support to the GEWEX Project Office was extended for another 3 years with the award of a new contract. STC's Polar Technology Office also signed an agreement with Shell Offshore and is currently working on one task under this agreement. The Polar Technology Office has also received several new task orders from ConocoPhillips involving new state-of-the-art ice capable oil tankers.

STC received a large delivery order under our NOAA EASC Blanket Purchase Agreement (BPA) with the NOAA Office of Law Enforcement for National Vessel Monitoring System and Enhancement of Fisheries Management Plan. We were also awarded a new BPA with NOAA's National Environmental Satellite, Data, and Information Service (NESDIS) under our GSA Professional Engineering Services (PES) contract. Under these contracts STC is developing MIS systems, improving communication systems, and performing Systems Engineering, Test, and Analysis (SETA) support.

Recently, STC has been awarded new contracts and subcontracts valued at over \$25M from our Government and Commercial/prime customers, with aggregate orders totaling over \$17M under our GSA IT and PES contracts. □

and solidifies a long-standing relationship for future opportunities.

This new contract will be under the general direction of the STC Edgewood Regional Office headed by the Edgewood regional Senior Vice President **Dick Gilligan**, who also made major contributions the proposal. Congratulations are due to Steve Freudenberger and the whole team for this great win. □