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A Quarterly Newsletter Published by the International Safeguards Project Office

April 1, 2005

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BROOKHAVEN
NATIONAL LABORATORY

managed for the U.S. Department of Energy by Brookhaven Science Associates,
a company founded by Stony Brook University and Battelle

Recruitment for the Department of Safeguards

Donna Occhiogrosso

The following positions are being
advertised by the IAEA
Department of Safeguards:

Section/Unit Head

Section Head (P-5)
Section for SG Programme
and Resources
Vacancy Notice No. 2005/014
Deadline: May 3, 2005
Published Salary: \$108,000

Staff Positions:

Senior SG Inspector (P-5)
Reprocessing Technology
Section OA2
Division of Operations A
Vacancy Notice No. 2005/023
Deadline: May 30, 2005
Published Salary: \$108,000

Surveillance & Monitoring (P-4)
Section for Installed Systems
Division of Technical Support
Vacancy Notice No. 2005/024
Deadline: June 6, 2005
Published Salary: \$89,000

Contract Mgmt Officer (P-4)
Division of SGIT
Vacancy Notice No. 2005/901
Deadline: June 6, 2005
Published Salary: \$89,000

Systems Analyst (P-4)
Section for Software & Hardware
Division of SGIT
Vacancy Notice No. 2005/028
Deadline: June 7, 2005
Published Salary: \$89,000

Cost-Free Expert Positions:

- **04/TIE-003** Unattended and Integrated Monitoring Systems (P5)
- **02/IIS-009** Imagery Analyst (P4)
- **04/PST-001** Quality Management Specialist (P4)

The duration of a Cost-Free Expert (CFE) appointment is at the very least, a two-year assignment. CFE personnel are employed by the US government to work at the IAEA. For further information and details regarding these postings, visit the ISPO website at www.bnl.gov/ispo.

New ISPO Employee – Jacob Blackford

Jacob Blackford

Jacob Blackford is the newest member of the International Safeguards Project Office. Prior to joining ISPO in April 2005, he was a research analyst at the Institute for Science and International Security, a non-profit research institute in Washington, D.C.

At ISIS, he researched and wrote about topics related to nuclear proliferation, especially illicit nuclear-related trafficking, multilateral nuclear export controls, Iran's nuclear program, and the so-called A.Q. Khan illicit nuclear supply network.

Prior to joining ISIS, Blackford was an intern in the IAEA's Department of Safeguards from July 2003 to July 2004, where he worked in the Division of Safeguards Information Technology (SGIT) Information Analysis Unit. There he collected and evaluated open-source information related to the nuclear programs of States Parties to the Nuclear Non-Proliferation Treaty, with a focus on Iran and the A.Q. Khan network. He participated in producing the Department of Safeguards Daily Highlights newsletter, an email-based newsletter that summarizes the day's most important developments relevant to IAEA safeguards. He also produced state files, a comprehensive collection of open-source information on specific states' nuclear programs, which are used in producing State Evaluation Reports.

Blackford received his M.A. in International Policy Studies from the Monterey Institute of International Studies, Monterey, CA, in May 2003, with a Certificate in Nonproliferation Studies. He received his B.A. in History from Gettysburg College, Gettysburg, PA, in May 1994. He also has experience in export sales and as a newspaper reporter and magazine editor.

U.S. Support to the IAEA Internship Program Annual Symposium

**Catherine Osiecki and
Melvyn Morris (BNL Office of Educational
Programs)**

On February 8, 2005, the U.S. Support Program to IAEA Safeguards with assistance from the Vienna Chapter of the Institute for Nuclear Materials Management, and the IAEA Safeguards Department held the Second Annual IAEA Safeguards Intern Symposium in Vienna, Austria.

The Internship Program, which began in 2002, pairs students from colleges around the country with mentors from the IAEA in fields such as

open source information collection, computer science and technical writing. The symposium was coordinated by Catherine Osiecki and Mel Morris from Brookhaven National Laboratory's Office of Educational Programs, and Michael Farnitano from the U.S. Mission. The purpose of the symposium was to highlight the projects that the interns have been involved with as part of their one year internship with the IAEA Safeguards Department.

Prizes were awarded for the best technical paper, the best non-technical paper and the best overall presentation.



Winner of the best technical paper was Jessica Satterfield (pictured above) who will receive an all expense paid trip to present her paper at the 2005 Annual INMM Conference to be held in Phoenix, AZ in July.



Winner of the best non-technical paper was Chris Duncan (pictured above) who received \$100 for his efforts.



Winner of the best overall presentation was Cherie Knickerbocker (pictured above) whose prize was the use of a brand new Mercedes-Benz for a weekend.

The Symposium was well attended by the mentors, Safeguards and other IAEA personnel including the Deputy Director General of Safeguards Department, Pierre Goldschmidt, who gave the opening remarks for the symposium.

The twelve USSP interns were also joined at the symposium by two other IAEA interns, Anna Shuvalova from Russia and Thilo Heckelmann from Germany.

Following the symposium, the interns and their mentors were invited to relax and enjoy themselves at a cocktail reception sponsored by Brookhaven National Laboratory.

The participants in the 2004-2005 Internship Symposium with their assignments are:

- Kathleen Donoghue, Columbia University, mentored by G. Cherif, SGIT/ISH
- Christopher Duncan, University of Missouri, mentored by F. Claude/S. Robb, SGIT/IIS
- Thilo Heckelmann, Germany, mentored by F. Claude/S. Robb, SGIT/IIS
- Andrew Janowczyk, Rensselaer Polytechnic Institute, mentored by P. Titov, SGIT/ISH
- Sinkyung Kim, Monterey Institute, mentored by V. Braguine, SGIT/IIS
- Cherie Knickerbocker, Tennessee Technological University, mentored by S. Johnson, SGOA/JNFL
- Kendra Klump, Georgetown University, mentored by G. Bosler, SGTS/TNS
- Jennifer Olszewski, Purdue University, mentored by J. Halbig, SGTS/TIE

- Francesco Queirolo, Union College, mentored by R. Carchon, SGTS/TNS
- Indhira Ramirez Long Island University, mentored by A. Reynaud, SPR
- Jessica Satterfield, University of Georgia, mentored by J. Lepingwell, SGIT/IIS
- Anna Shuvalova, Russia, mentored by N. Zarimpas, SGIT/IIS
- Maryam Tatavosian, Mercyhurst College, mentored by J. Lepingwell, SGIT/IIS
- Kimberly van Dyke, Rensselaer Polytechnic Institute, mentored by C. Liguori, SGTS/TIE

Member State Support Programme (MSSP) Coordinators' Meeting

Susan Pepper

The MSSP Coordinators' Meeting was held in Vienna, Austria, March 14-17, 2005. The meeting is held every other year so that MSSP Coordinators can learn about technical initiatives and needs of the IAEA. Nineteen MSSPs were represented at the meeting, and two countries, China and Slovakia, sent representatives to observe. The Republic of South Africa Support Program was recognized as the most recently established Support Program. The Australian Support Programme celebrated its 25th anniversary during the meeting.

Mr. Lars Hildingsson, Coordinator of the Swedish Support Program, was elected to chair the meeting. The Coordinators each made opening statements. After the opening statements, the Chairman summarized the common themes in the open statements as follows:

- The Member States all recognize the importance of IAEA Safeguards
- The Member States are all engaged in important work for the Department of Safeguards
- Some of the Member States are facing budget cuts and facility closures
- Collaboration between the Member States is ongoing and apparent
- China and Slovakia are considering establishing Support Programmes.

IAEA staff members made presentations to the Coordinators concerning the Agency's Medium Term Strategy, the IAEA Office of Internal Oversight's evaluation report on the management of MSSP activities, the re-engineering of the Support Program Information

Computer System (SPRICS 2.0), quality management, the ISIS Re-engineering Project, open source information collection, satellite imagery analysis, digital surveillance and remote monitoring, equipment standardization for unattended monitoring systems, spent fuel verification and monitoring, novel equipment and technologies, and safeguards training activities.

During the last day of the meeting, the attendees each chose to participate in one of three working groups that addressed the following topics:

The identification of possible processes to manage R&D for new/novel technologies

The development of a coordinated safeguards training programme

The development of an action plan from the recommendations of the 2004 OIOS Evaluation of MSSP Management

The working groups met to discuss their topics during the morning. Each working group prepared a report, which was presented to the plenary in the afternoon. The complete report of the meeting is available from ISPO.

The MSSP Coordinators' Meeting will be held in 2006 to coincide better with the publication of the IAEA's R&D Programme.

USSP Annual Review Meeting

Susan Pepper

The USSP Annual Review Meeting will be held in Vienna, Austria, June 7-10, 2005. The meeting provides an opportunity for USSP representatives, including ISPO, the SSTS, and USSP contractors, to meet with the IAEA, discuss active USSP tasks, and learn about IAEA technical initiatives and needs. ISPO Liaison Officer, Michael Farnitano, is working with the IAEA's Support Program Administration to develop the agenda for this year's meeting. This year the agenda will focus on the results of and lessons learned from completed USSP tasks. The meeting will also feature a half-day visit to the Safeguards Analytical Laboratory in Seibersdorf.

Contractor representatives are welcome to attend the meeting at their own expense. Abstracts for presentations are not being solicited from contractors this year, but any

contractor who has an idea for a presentation is welcome to share it with ISPO. Relevant contractor presentations will be included in the agenda as time allows. Send abstracts to Susan Pepper at pepper@bnl.gov.

This year's meeting coincides with a large medical conference that will be taking place in Vienna. ISPO has already contacted likely attendees with information concerning hotel availability in Vienna. If you have not already made a reservation through ISPO or the U.S. Embassy, please do so through your own travel organization.

NGSS Kick-off Meeting

Albert Queirolo

The International Atomic Energy Agency (the Agency) initiated the Next Generation Surveillance System (NGSS) Project in July 2003 with the development of the NGSS User Requirements document. The NGSS User Requirements that detail the Agency's surveillance system needs for physical construction, performance characteristics, system security, information management, operations, and life-cycle support were approved in March 2004. The Agency solicited bids from commercial companies with 21 companies replying to the IAEA invitation. From that response, nine companies were invited to bid on the NGSS development task. In the end, the Department of Safeguards selected Aquila Technologies Group, Inc. (ATG) as prime contractor and Dr. Neumann Consultants (DNC) as the subcontractor.

The Agency has decided to issue two separate contracts, one to ATG, the other to DNC to cover the 4 phases of the project; conceptual design (I), detailed design (II), prototype development (III), and prototype construction and testing support (IV). The tripartite contract for NGSS has been signed and purchase orders have been released to Aquila for Phase 1 and to DNC for Phase 1, Part 1.

The Agency hosted a project kickoff meeting in Vienna on March 23, 2005 that included representatives from the Agency, ATG, DNC, Sonalysts, ISPO and the German Support Program. The group discussed project roles and responsibilities, contracting, deliverables,

the NGSS project schedule, communications protocols, and DCM-14 development project lessons learned. The group agreed to meet periodically throughout the project to review progress and to resolve any technical or financial problems that may arise.

The meeting concluded by declaring the official start date of the project (Phase I) as March 23, 2005. The first phase of the project is expected to take until the end of February 2006 with the entire project estimated to take at least 4-5 years.

Personnel Changes

Susan Pepper

Richard Wallace completed his CFE assignment in March. Dr. Wallace was assigned to the Section for Information Support Services where he contributed to State Evaluation Reports. Dr. Wallace returned to Los Alamos, where he will provide support to DOE/NA-241. He will also continue to serve the IAEA as an open source information expert under USSP Task D.137.

Dawn Liles completed her CFE assignment in March. Ms. Liles was assigned to the Section for Safeguards Training where she was responsible for developing and delivering training courses such as Enhanced Observational Skills, Communication Skills and Technical Writing Skills. Ms. Liles returned to Oak Ridge National Laboratories where she will continue to support safeguards training and other safeguards activities.

Section Head for NDA and Seals, Reza Abedin-Zadeh, retired from the IAEA in January. Mr. Abedin-Zadeh had previously served the IAEA as a safeguards inspector and the Head of the JNFL Project Office. Gene Bosler has become the acting Section Head.