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Initiatives for Proliferation Prevention Program Involved in New Venture

The mission of the Initiatives for Proliferation Prevention Program (IPP) is partnering with Russian and Newly Independent States institutes to develop and commercialize civil technologies, thus creating sustainable and challenging employment for former weapons scientists. Since the program's inception, the Y-12 National Security Complex and Oak Ridge National Laboratory (ORNL) have worked cooperatively to support IPP in a variety of ways. One recent undertaking is with a group of defense-related institutes in Russia. The major task at hand there has been redirecting the work focus toward chemical outsourcing services, such as chemical contract research and development, custom synthesis, and toll manufacturing for interested U.S. companies. Andrei Gakh is the technical lead and principal investigator from ORNL who is handling this new venture.

U.S. investments of approximately \$1.5 million resulted in the creation of a new commercial entity of Russian scientists. With help from IPP, this new entity, Chemical Blocks International, is now commercializing products and technologies developed with IPP's assistance. Cultivating relationships with companies such as Glaxo, Bayer, Novartis, DuPont, Pfizer and BASF, the company has grown significantly since its 1999 inception. Its current revenue stream exceeds \$100,000 per year, with the expectation of substantial growth during the next three to five years. The company plans to continue to work in the areas

of chemical outsourcing services, chemical information, and software development and perhaps later move into financial services in the chemical research and development sector.



High-throughput Screening Robot, capable of testing several hundred compounds per week

IPP will continue to support Chemical Blocks International and the associated defense-related institutes in commercial, nonweapons-related activities to achieve full, sustainable conversion of the underlying defense technologies and employment of the scientists involved.

For general program information, contact Donna Burrell at burrelldk@y12.doe.gov or (865) 241-5362, and for technical information, contact Andrei Gakh at gakhaa@ornl.gov or (202) 586-2642.

Second Line of Defense Expanding

Oak Ridge nuclear threat reduction activities over the last four years have included nuclear export control enforcement cooperation with foreign customs officers and border guards. The Administration's budget request for



the Department of Energy (DOE) for fiscal year 2002 proposes a significant enlargement and expansion the Second Line of Defense program.



Astrakhan Seaport upgrades pedestrian and vehicle monitors

Protection of U.S. national security interests will remain the primary focus of the program, using improved border security for the independent states of the former Soviet Union.



Astrakhan Seaport upgrades rail monitors

The goal is interdiction of unauthorized shipments of special nuclear materials and equipment or other materials listed in national export controls as having nuclear application. Russia currently has an aggressive program for radiation monitoring at customs control zones across its vast territory. DOE has assisted to accelerate the rate of installation of such equipment, make it more effective, and provide for robust accountability systems to address insider concerns. The program also will provide for planning to equip strategic border sites in Kazakhstan and Ukraine in partnership with the host governments. Training of approximately 30,000 customs officers and border guards in the most effective use of radiation monitors and recognition of equipment having nuclear applications is also included in the

2002 program. The program will continue to offer assistance to other former Soviet states and states vulnerable to becoming transit routes for smuggled nuclear materials and equipment.

Contact Larry Satkowiak at satkowiaklj@y12.doe.gov or (865) 576-5650 for more information about Second Line of Defense.

The Institute of Nuclear Materials Management (INMM) announces its 43rd annual meeting

June 23–27, 2002, Renaissance Orlando

Orlando, Florida, U.S.A.

Call for papers deadline: February 1, 2002

<http://www.inmm.org>

Director's Note

In the aftermath of the September 11 attacks and America's new war on terrorism, the Center's work on nonproliferation and threat reduction has taken on an increased and sobering importance. Now, more than ever, the science and engineering capabilities of Oak Ridge need to be harnessed to fight this threat. We have recently undergone internal restructuring to strengthen Oak Ridge's ability to respond to and support these needs. The new posture strengthens CITR's ties to the vital scientific and technical resources of the Oak Ridge National Laboratory while increasing the role of the Y-12 National Security Complex for enriched uranium and nuclear material processing, storage, accountability, and protection. The projects you read about in this edition are part of the Oak Ridge contribution to global stability and winning the war on terrorism. As CITR's new director, I look forward to sharing more of the Center's exciting work in this war.

— Robin White

CENTER FOR INTERNATIONAL THREAT REDUCTION

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