

7-9-2015

From the Editor

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Recommended Citation

(2015) "From the Editor," *International Journal of Nuclear Security*. Vol. 1: No. 1, Article 3.

<https://doi.org/10.7290/v7qj7f7f>

Available at: <https://trace.tennessee.edu/ijns/vol1/iss1/3>

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International Journal of Nuclear Security

Volume 1 | Number 1

7-9-2015

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From the Editor's Desk

Welcome to the inaugural issue of the *International Journal of Nuclear Security*—IJNS. My editorial staff and I are delighted to be part of this new publication, designed to connect and energize conversations among educators and professionals working in the multidimensional fields of nuclear security—as well as among laypeople interested in understanding issues of vital importance to their countries and societies. Although we all rely upon the brave men and women in the armed forces, and upon dedicated experts in science, technology, and industry, to guard the world against nuclear terrorists and to promote peaceful uses of nuclear power, these efforts must have the support of informed citizens worldwide. IJNS is an open, international forum where experts, educators, and laypeople can gather to share their knowledge, to learn, and to strengthen the network of colleagues and allies working in all aspects of nuclear security. This is truly an international and interdisciplinary forum. I myself, a professor of English, am not an expert in the science, technology, or policy connected to nuclear security. But like all of you, I want a world safe from nuclear terror and enriched by peaceful uses of nuclear science and technology—so I have joined the forum.

This issue offers a stimulating array of international contributions on a wide selection of issues, and the voices you will hear are those of global leaders in their fields. We lead off with an article by Huban Gowadia, director of the Domestic Nuclear Detection Office within the Department of Homeland Security (USA), and her colleague Brigitte Mardigras. In this article, you'll hear about the multilayered, global approach used to detect and interdict nuclear terrorism. The following article, by the IAEA's International Nuclear Security Education Network chair Christopher Hobbs, co-director of the Centre for Science and Security Studies at King's College London, and his colleague Elisabeth Young, argues for “a new holistic framework of punitive actions, incentives and new normative standards (PIN) for industry engagement in non-proliferation efforts.”

Next come two descriptions of alarming scenarios being played out on the world stage. Three scholars at the University of Tennessee Institute for Nuclear Security (INS)—Natalie Manayeva, also a Fellow at the Independent Institute of Socio-Economic and Political Studies (IISEPS), Dean Rice, a Global Security Fellow with INS, and Howard Hall, director of INS—examine the situation in Ukraine, Putin's resistance to cooperative efforts to safeguard nuclear materials, and the “threatening ramifications” of the entire situation. The following article, by Vice Admiral (ret'd., Indian Navy) Vijay Shankar, reviews the nightmarish nuclear situation in the subcontinent, where Pakistan's chaotic conditions pose a constant danger not only to India but to the entire world.

The following two articles offer descriptions of social and educational institutions devoted to international cooperation and education in nuclear security. The first of these—by Kwan Kyoo Choe, Director General of the International Nuclear Nonproliferation and Security Academy in the Korea Institute of Nuclear Nonproliferation and Control—describes the human resource development activities that he and his institution have been spearheading. The second describes the structure, curriculum, activities, and worldwide impact of a model educational program in nuclear security: the Nuclear Security Science and Policy Institute (NSSPI) at Texas A&M University, USA. Authors are Claudio Gariazzo, an associate research engineer with NSSPI, and his NSSPI colleagues Kelley Ragusa, communications coordinator; David Boyle, Deputy Director; Sunil Chirayath, interim director; Paul Nelson, associate director for international programs—as well as William Charlton, research director for the National Security Research Institute at the University of Nebraska at Omaha, and Craig Marianno, a researcher in nuclear

counterterrorism, nuclear instrumentation development, radiological consequence management, and environmental health physics.

Next we hear the voices of a PhD student, who is also an experienced nuclear engineer and former NNSA Nonproliferation Graduate Program Fellow, and of his professor in nuclear studies, INS director Howard Hall, as they describe US nuclear economic and nonproliferation policies as “a system out of balance”—and then suggest methods for balancing the system. Finally, we turn to two articles that describe innovations in nuclear forensic science, two possible methods for dating pre-detonation nuclear materials—both by Major Edward Peskie, an instructor in the Department of Physics and Nuclear Engineering at the United States Military Academy, and Howard Hall.

These are the voices opening conversations with us on such vital subjects in this first issue of IJNS. Please come in and join the discussions. We want to hear your voice as well. In this issue you will find an invitation to submit your ideas and insights to the next issue—and all future issues—of IJNS. And, students in nuclear science, technology, policy, and security: we value and invite you into the forum as well; please see our announcement of a writing competition designed to draw you into these conversations and recognize you for your contributions.

We must all work and learn together, and be vigilant together, if we are to keep the world safe from nuclear terror and accident, and prosper the world with nuclear technologies. This journal provides one more place—quite a needed and valuable one, we think—where we, the global community in nuclear security, may converse and cooperate.

Welcome to the conversation.

Russel Hirst
Managing Editor, *International Journal of Nuclear Security*