Safeguards Education and Training Workshop Findings and Action Items

WORKING GROUP 4

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SINCE 2008... HOW THE LANDSCAPE HAS CHANGED

- Formation of a dedicated INMM Education and Training Committee
- Initial ANS and ENS engagement on nonproliferation and safeguards issues
- Five export control trainings for the IAEA Department of Safeguards with notable signs of cultural change
- Substantial progress in educational activities in the IAEA Nuclear Security Department
SINCE 2008...
HOW THE LANDSCAPE HAS CHANGED

- Increasing number of university programs/courses in nonproliferation/safeguards focus
- Multiple new nuclear training centers
- Growing recognition of importance of nuclear security and nonproliferation challenges by emerging nuclear countries
- Progress towards quantifying and qualifying needs
Since 2008... How the Landscape Has Changed

- Increasing use of social media and technology to share information
- Three fold increase in number of safeguards internships in the United States (since 2008); stable but limited number in Europe
- Creation of new professional development networks for the next generation in nuclear security and safeguards (NuSaSET, INENS, NGSPN)
ACTION ITEM 1

- Establish INMM-ESARDA minimum standard for safeguards education and training modules
  - Recommendation document based on lessons learned and consensus of key stakeholders
  - Can feed innovative approaches into education and training cycle
  - Can benefit emerging nuclear countries, as well as promoting cultural change
ACTION ITEM 2

- INMM-ESARDA should examine ways to promote making safeguards/ nonproliferation a mandatory element of nuclear engineering curricula
  - Raise awareness in academic circles
  - Proactive outreach to university faculty
  - Tap into student INMM chapters
  - Share materials of success cases
  - Develop alongside security and safety curricula/models
ACTION ITEM 3

- INMM-ESARDA should foster the availability of funding for E&T activities
  - Close interaction with U.S. DOE/NNSA/NGSI and EC, which have these funding capabilities
  - Reach out to additional national and regional sponsors
  - Relevant for both domestic and international applications
ACTION ITEMS 4

- Fostering exchange of students and trainees (geographically, cross-disciplinary)
  - Tapping into existing national internships, courses, fellowships
  - Provide access to sensitive facilities under international safeguards
ACTION ITEM 5

- Essential to guarantee access to relevant nuclear infrastructure for training purposes
  - Dedicated training facilities
  - Access to operational plants

- In addition, need to further develop simulation, virtual reality tools, and e-learning modules
ACTION ITEM 6

- Expand INMM-ESARDA interactions with other networks and stakeholders
  - APSN, ABACC, NGSI, nuclear security training centers
ACTION ITEM 7

Knowledge Management

- Not enough emphasis on “tools for the brain”
- Option of a NuSaSET portal
- Foster exchange and dissemination of course materials
- Build a more collaborative approach to support cultural change
ACTION ITEM 8

- Stimulating further cross-fertilization between export controls and safeguards
  - Content-wise
  - Training methodology (multiple layers of engagement)
  - Risk-based prioritization
  - Outreach to promote compliance
  - Front-line inspector vs. investigator role
ACTION ITEMS 9-11

- Promote training geared towards teamwork, making better use of different experiences in a group dynamic; collaborative analysis

- Address special focus groups, including diplomats, media, or interpreters

- Deepen integration with NGOs, including proactive engagement to build partnerships in E&T
WG 4 AT WORK WITH ITS PROFESSORS...
THANK YOU WORKING GROUP 4!