Nuclear Non-proliferation and Nuclear Security Human Resource Development at Universitas

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Integrated Support Center for Nuclear Nonproliferation and Nuclear Security

Japan Atomic Energy Agency



JAEA International Forum Panel Session

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Discussion Point 1: Nuclear Non-proliferation and Security HRD at University

Models of HRD in University

1. Professional Graduate School Model

- Specialized programs offering degrees in nuclear non-proliferation and/or nuclear security
- e.g. Bulgaria: Master's course in Nuclear Security at University of National and World Economy (1.5 years)

2. Laboratory/Seminar (research group) Model

- Laboratories/Seminars on nuclear non-proliferation and/or nuclear security
- Example: Tokyo University of Science (formerly Tokyo Institute of Technology)

3. Nuclear Energy Related Course Model

Add nuclear non-proliferation and/or nuclear security to existing curriculum as part of nuclear energy major

4. Specialized Lecture Model

- Offering a series of (or an independent) lectures on nuclear non-proliferation and/or nuclear security
- E.g. nuclear non-proliferation and/or nuclear security as a part of nuclear fuel cycle course, or international law

5. General Education Model

 Lectures on nuclear non-proliferation and/or nuclear security in liberal arts courses as literacy, regardless of department or major

6. Summer School Model

- Short-term intensive course
- E.g.. ISCN Summer School



What is the best model for Japan and Asia to solve the current challenges?

Discussion Point 2: University Support by ISCN/JAEA

Support based on cooperation agreement

- ✓ Providing lectures and practical training on nuclear nonproliferation and nuclear security
- ✓ Accreditation course

On-site lecture by ISCN experts

- ✓ Nuclear non-proliferation, nuclear security, nuclear disarmament, etc.
- ✓ Independent class or a series, non-credit

ISCN Summer School

- ✓ Aug-Sep.: Summer School or the student intern at ISCN by JAEA Summer holiday internship program. Offers lectures, technical tour of ISCN training facility (ISCN Exercise Field), group discussion
- ✓ Nov-Dec.: Discussion Session by students on a specific topic
- ✓ Dec.: Student representative joins JAEA International forum as a panel to report the result of Student Discussion Session

Joining International Nuclear Security Education Network (INSEN), May 2024

- ✓ Aiming at strengthening support for university by collaboration with INSEN.
 - Sharing good practices of INSEN members
 - Joint curriculum development for universities







Discussion Point 2: Implementation of a Series of Milestone Events

- Fall 2025: hosting INSEN Annual Meeting in Japan
 - A program for Japanese universities (faculty, students) in addition to the Annual Meeting program
- > 1Q 2026 (TBD): National Symposium with INSEN experts
 - Sharing good practices in other countries
 - Exchange between INSEN experts and domestic students
 - Develop and provide educational materials for the domestic universities based on the knowledge gained through the symposium

2026 (TBD): hosting Marie Sklodowska-Curie Scholarship Program (MSCFP *) School

Focusing on nuclear non-proliferation and nuclear security

^{*}MSCFP: Scholarship program for the young female researchers in nuclear science and technology area in graduate school.

Thank you for your attention.

原子力機構トップページ | サイトマップ | English

ISCNニューズレター

核不拡散動向

「ISCNニューズレター」のページ

「会議・シンポジウム等」のページ



ISCN Website

https://www.jaea.go.jp/04/iscn/

最新のトピックス 2024.05 ISCN=ューズレター No.0329 May, 2024 ISCNニューズレターを更新しました(No.329)。 <1. お知らせ> <2. 核不拡散・核セキュリティに関する動向(解説・ 分析) > <3. 活動報告> <4. コラム> ISCN実習フィールド建屋 (1-1 新ISCN実習フィールドの紹介) 2024.04 お知らせ 2024年2月29日版 保障措置の基本コース(eラーニング)のご案内 2024.04 ISCN=ューズレター 原子力平和利用と核不拡散・核セキュリティに ISCNニューズレターを更新しました(No.328)。 係る国際フォーラム 原子力平和利用と核不拡散・核セキュリティに係る国 際フォーラム2023「原子力の平和的利用によるサステ ナブルな社会と核兵器のない世界の実現に向けて (学生セッション~NPT体制への信頼回復及び再活性 化方策~)