

## Meeting of the Training and Knowledge management WG, 15<sup>th</sup> May 2017, 39<sup>th</sup> ESARDA Annual Meeting – Düsseldorf

S. Grape, 18 May 2017

Participants:

Sophie Grape	Uppsala University
Kamel Abbas	JRC Ispra
Thomas Krieger	Forschungszentrum Jülich
Riccardo Rossa	SCK CEN
Michael Whitaker	ORNL
Christos Koutsoyannopoulos	EC DG ENER

### 1. **S. Grape - Opening of meeting and election of new vice-chair of the WG**

The meeting was opened with a presentation of each present member. Veronique Berthou is stepping off as vice-chair of the WG and Kamel Abbas was elected as new vice-chair.

### 2. **K. Abbas - Course evaluation of the 16<sup>th</sup> ESARDA course**

K. Abbas presented on the 16<sup>th</sup> ESARDA course given in Ispra in April 2017. He presented the course schedule with lectures, JRC laboratories and exercises. He also described the laboratory facilities AS3ML, 3D-laboratory, SILab and PERLA. This year, 63 participants from 20 countries and 28 lecturers were present. The average grader on content was 3,2 and for the speakers there was an average mark of 3,6.

### 3. **K. Abbas - Revision of the ESARDA syllabus**

The ESARDA syllabus is being updated. There is currently no time plan for when the new version of the syllabus will be available. K. Abbas reported that three new chapters were being considered: i) nuclear trade regulation, ii) utility of Open-Sources including commercial satellite imager for IAEA safeguards and non-proliferation and verification applications, and iii) nuclear security. He also reported that three already existing chapters are being updated: i) DA, ii) NDA (not yet started) and iii) international Laws and regulation for safeguards.

There was a discussion on the content of the syllabus, as there seems to exist a confusion on the revision process. S. Grape pointed out that a new chapter of innovative NDA techniques seems to have gone missing since it was written in 2015-2015, and from interaction with the NDA WG she is given the impression that the WG has not been asked to update the chapter. S. Grape also suggested to ask the authors of the chapters for additional material (both on a basic and advanced level) such as publications, text books, exercises, videos etc that could be useful to share. S. Grape will put the link to the existing ESARDA syllabus on the TKM WG homepage.

T. Krieger asked if game theory was still included in the syllabus. In the syllabus from 2008, game theory is included in the Random Sampling in Nuclear Materials Safeguards chapter. He then raised the question if there was an interest to include more statistics in the syllabus.

### 4. **K. Abbas - Planned course activities during 2017/2018**

K. Abbas reported that the ESARDA course is being exported world wide. JRC has received provision of about 10 educational courses on nuclear safeguards and non-proliferation, world-wide in the next 4 years. Contacts have been taken with Algeria and South Africa, and

courses will be organized in the end of 2017/beginning of 2018. It is a challenge to find new speakers in the region. The ESARDA course was recently given in both Thailand and Malaysia.

**5. S. Grape - The NuSaSET portal**

S. Grape reported that the NuSaSET portal has an excellent new tool for facilitating video lectures with online feedback, which was installed for the purpose of the INMM chapters. Since its installation, the tool has never been used. It seems that many people sign up (once) for the portal, but it is in principle only used by the ESARDA course participants who. S. Grape expressed a wish to make better use of the NuSaSET tool by investigating both what requests on knowledge management that the other ESARDA WGs have, and how the NuSaSET portal could meet these requirements. S. Grape proposed to make a survey among the other WG chairs and vice-chairs, and she will shortly send it to the other chairs and vice-chairs. A discussion on possible new uses for the portal resulted in the following suggestions:

- a. A database with ESARDA members and their expertise
- b. A tool that allows for remote participation in WG meetings, annual meetings and symposia by telephone or video
- c. A “work space area” for each WG where they could discuss and share information relevant to that WG
- d. A document repository with version handling (including journals, presentations etc)
- e. Meeting and or symposia registration

**6. S. Grape - Update on the ANNETTE project**

S. Grape presented shortly the ANNETTE project on Training and education in the nuclear disciplines. The expected output of the project is a 60 ECTS master and a summer school for people already working in the industry. Within this master education, a safeguards course will be given. UU, SCK CEN, FZJ and JRC are all members of both ESARDA and ANNETTE and will be jointly involved in the safeguards course.

There was a discussion on what material that will come out of ANNETTE and how ESARDA can use it. Can the ESARDA syllabus be updated within the ANNETTE project? Can the presentations given by the ESARDA course lecturers be shared with ANNETTE? How can material be shared from ESARDA to ANNETTE, and the other way around? It was suggested that the ESARDA members who are also part of ANNETTE should make clear what restrictions that exist from both sides. Depending on what will be covered by the new safeguards course, ESARDA TKM WG should develop a plan on how to make use of this material in training and education within the ESARDA organization.

**7. S. Grape - Next meeting**

It was suggested to investigate if a telephone/videoconferencing tool could be implemented in NuSaSET and if so, we should use it in the next WG meeting. S. Grape will investigate this matter further. The preliminary “date” for next meeting is the second half of October to first half of November of 2017. S. Grape will send out a doodle in advance.