



Oak Ridge National Laboratory
1 Bethel Valley Road
Oak Ridge, TN 37830

SUBJECT: Report on Virtual Foreign Travel to WPEC in Paris
DATE:
TO: Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-511
FROM: Dorothea Wiarda

MEETING TITLE: 32nd WPEC (Working Party on International Nuclear Data Evaluation Co-operation) Meeting

MEETING LOCATION: WebEx, hosted by NEA

MEETING DATES: May 11, 2020 – May 15, 2020

ATTENDEES ON BEHALF OF NCSP: [Only 1 report from the institution for ALL attendees]
Dorothea Wiarda, Douglas Bowen, Andrew Holcomb, Jesse Brown, Jordan McDonnell

MEETING PURPOSE:

The Working Party on International Nuclear Data Evaluation Co-operation (WPEC) was established to promote the exchange of information on nuclear data evaluations, measurements, nuclear model calculations, validation, and related topics, and to provide a framework for co-operative activities between the participating projects. The Working Party assesses the needs for nuclear data improvements and addresses those needs by initiating joint evaluation and/or measurement efforts through its different sub-groups.

MEETING BENEFITS TO THE NCSP:

As the meeting coordinates international efforts in nuclear data evaluations, it is important that the NCSP stays engaged and informed in the newest developments. The community is developing and starting to use a new ENDF format and the EG-GNDS was established for the long-time governance of the ENDF/GNDS format. The SG-43 was established to provide an API and physics checks for the new ENDF format. New format proposals will be discussed, and it is important that a sufficient number of US representatives are present to ensure the best possible choices for these formats. It is expected that there will be a lot of fruitful discussions concerning the extension of the format. In addition, it is important to report back developments of the US codes and evaluations efforts to the international community,



PURPOSE OF TRAVEL

Participate in the WPEC meeting and the sub-group meetings for the OECD/NEA Working Party Evaluation Cooperation (WPEC), specifically:

SG-43: Code infrastructure to support a modern general nuclear database (GND) structure
This was the last meeting for this sub-group. All processing codes owners (including AMPX from ORNL) gave a status report of the GNDS implementation. The division of labor for writing the final report for the working group was discussed. Members of the group will continue to give updates of the progress on GNDS in the EG-GNDS meeting. (See https://www.oecd-nea.org/science/wpec/sg43/meetings/2020_may/ for presentations)

EG-GNDS: Recommended Definition of General Nuclear Database Structure
Format proposals were discussed and voted on. Some were tabled as they required additional clarifications. Discussion is continuing on the GNDS website. A mandate extension was also discussed. The specification of GNDS was released as a NEA publication. The merging of SG43 into the export group was also discussed and approved.

SG-44: Investigation of Covariance Data in General Purpose Nuclear Data Libraries
Vladimir Sobes reviewed the progress of the group and writing assignments for the final report were discussed.
(see https://www.oecd-nea.org/science/wpec/sg44/meetings/2020_may/index.html for presentations)

WPEC meeting:

As a member of the WPEC (<https://www.oecd-nea.org/science/wpec/>) attend subgroup meetings. All data projects and all subgroup chairs gave an overview. A new subgroup to automatically readable, comprehensive and curated experimental reaction database was proposed. The overview was especially interesting this year as, due to the WebEx format it was not possible to attend all sub-group meetings. The review of SG-49 (Reproducibility in Nuclear Data Evaluation) prompted the adding of additional ORNL staff members to the sub-group to ensure that the resolved range evaluations are represented in the final format for the group.

For a list of all presentations in the main WPEC meeting, see <https://www.oecd-nea.org/science/wpec/meeting2020/>.

Persons Contacted via WebEx

Since the meeting was given over WebEx, a list of participants is not published on the website and is not easy to reconstruct.

Presentations, Chair Responsibilities, Etc.:

Gave a presentation concerning the status of GNDS support in AMPX in the SG-43 meeting.

Distribution:



Angela Chambers, angela.chambers@nnsa.doe.gov

Doug Bowen, bowendg@ornl.gov

Lori Scott, scottl@ornl.gov

Marsha Henley, henleym@ornl.gov