



**Naval Nuclear Laboratory
PO Box 79, West Mifflin, PA 15122**

SUBJECT: Report on Foreign Travel to 2021 WPEC Meeting
DATE:
TO: Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-511
FROM: M. L. Zerkle, NDAG Chair, Naval Nuclear Laboratory

MEETING TITLE:

2021 Working Party for International Nuclear Data Evaluation Co-operation (WPEC)

MEETING LOCATION:

The meeting was held virtually due to the COVID-19 pandemic and was hosted by the OECD/NEA in Paris, France.

MEETING DATES:

May 10-14, 2021

ATTENDEES ON BEHALF OF NCSP:

M. L. Zerkle

MEETING PURPOSE:

The purpose of the meeting is to coordinate international co-operation on nuclear data related topics. Dr. Zerkle attended the SG47 (ND validation using SINBAD), EG HPRL (ND high priority request list), and SG48 (thermal neutron scattering) subgroup meetings. Dr. Zerkle's planned participation in the 33rd WPEC meeting on May 13-14 as the CSEWG Validation Chair was cancelled due to a death in the family.

MEETING BENEFITS TO THE NCSP:

Participation in the annual WPEC meeting at OECD/NEA provides the NCSP the opportunity to remain current on topics related to nuclear data measurement, evaluation, and validation. It also provides the NCSP the opportunity to arrange technical collaborations with international experts that support NCSP interest related to nuclear data.

PURPOSE OF TRAVEL

N/A – The meeting was held virtually due to the COVID-19 pandemic.

Persons Contacted at Paris, France

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Presentations, Chair Responsibilities, Etc.:

Dr. Zerkle gave two presentations in SG48:

1. M. L. Zerkle, "Update on ENDF-6 Mixed Elastic Scattering Format," WPEC SG48, May 12, 2021.
2. M. L. Zerkle, J. C. Holmes, J. L. Wormald, "Update on NNL TSL Evaluations and Validation," WPEC SG48, May 12, 2021.

The first presentation summarized the new ENDF-6 mixed (thermal) elastic scattering format that was recently conditionally adopted by CSEWG and provided an update on its support in the major nuclear data processing codes. The second presentation summarized the 12 TSL evaluation that have recently been developed by NNL and submitted to NNDC for inclusion in ENDF/B-VIII.1 as part of the NR/NCSP TSL collaboration. NNL work to validate H-H₂O TSLs at room and elevated temperatures using historical published pulsed-neutron die-away and diffusion length measurements was also discussed.

Distribution:

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