



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

SUBJECT: Report on Foreign Travel to ICNC-2023 Conference
DATE:
TO: Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-511
FROM: Michael L. Zerkle

MEETING TITLE: 12th International Conference on Nuclear Criticality Safety (ICNC-2023)

MEETING LOCATION: Sendai, Japan

MEETING DATES: October 1-6, 2023

ATTENDEES ON BEHALF OF NCSP: [Only 1 report from the institution for ALL attendees]
Michael L. Zerkle

MEETING PURPOSE:

ICNC-2023 provided a forum for the international nuclear criticality safety community to discuss lessons learned, operational practices, storage, transport, and geological storage of spent nuclear fuel, regulations, and the latest development related to nuclear data, analytical methods, critical experiments, and validation benchmarks. This is the primary international conference on nuclear criticality safety and is held every 4 years.

MEETING BENEFITS TO THE NCSP:

Participation in ICNC-2023 provided an opportunity to network and obtained the latest international developments related to nuclear criticality safety. NCSP is very active in the field and dominated to technical content presented at the conference, demonstrating its continued international technical leadership in the field.

PURPOSE OF TRAVEL

Attend ICNC-2023, present technical paper on the TSLs for $^{235}\text{UBe}_{13}$ and $^{239}\text{PuBe}_{13}$, chair nuclear data session, network with international nuclear criticality safety community to understand the emergent nuclear data and integral experiment validation needs of the community.

Persons Contacted at Sendai, Japan

N/A

Presentations, Chair Responsibilities, Etc.:

Presented technical paper entitled "Thermal Neutron Scattering Law of UBe_{13} AND PuBe_{13} "
Chaired Nuclear Data Session on TSLs

Distribution:

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