



**Oak Ridge National Laboratory**  
**1 Bethel Valley Road**  
**Oak Ridge, TN 37831**

**SUBJECT:** Report on Foreign Travel to Vienna  
**DATE:**  
**TO:** Dr. Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security Administration / NA-ESH-21  
**FROM:**

**MEETING TITLE:**  
IAEA Consultancy Meeting of the International Nuclear Data Evaluation Network on Evaluation of Structural Materials

**MEETING LOCATION:**  
Vienna (Virtually)

**MEETING DATES:**  
December 18 – 21 2023, IAEA, Vienna

**ATTENDEES ON BEHALF OF NCSP: [Only 1 report from the institution for ALL attendees]**  
Jordan McDonnell

**MEETING PURPOSE:**  
The purpose of the meeting is to review experimental data and nuclear data evaluations of structural materials.

**MEETING BENEFITS TO THE NCSP:**  
The recent work on the evaluation of  $^{63,65}\text{Cu}$ , which is an NCSP Appendix B milestone, was discussed in depth during the meeting.

**PURPOSE OF TRAVEL** [Provide a detailed purpose of the travel]:  
To discuss the status of the  $^{63,65}\text{Cu}$  evaluation, especially to identify a path forward for angular distributions that are simultaneously consistent with available differential data and allow accurate calculation of integral benchmark experiments.

**Persons Contacted on your trip** [If applicable, provide a list of everyone you met with during the trip.]:  
See agenda.

**Presentations, Chair Responsibilities, Etc.:**



[Please list all applicable to your trip. If possible, include the agenda and highlight presentations given by attendees, sessions chaired, etc.]

**Distribution:**

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# **Consultants Meeting of INDEN on Structural Materials**

**Monday, December 18, 2023 - Thursday, December 21, 2023**

## **Program**

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# Monday, December 18, 2023

## **Intro, Methodology (10:00 AM - 12:00 PM)**

### **Welcome address (10:00 AM)**

*Presenter: KONING, Arjan (IAEA)*

## **Introduction, Meeting formalities (10:10 AM)**

*Presenters: SCHNABEL, Georg (IAEA), CAPOTE NOY, Roberto Mario (IAEA NAPC-NDS)*

## **The ENDF/B-VIII.1 release and future plans on structural materials (10:30 AM)**

*Presenter: Mr NOBRE, Gustavo (BNL)*

## **Accounting for model uncertainty in Bayesian evaluation of nuclear data (11:15 AM)**

*Presenter: Mr ALHASSAN, Erwin (SCK-CEN)*

## **Methodology (1:30 PM - 5:00 PM)**

### **The nuclear data evaluation pipeline of Uppsala University (NEPU) - addressing model defects and data inconsistencies (1:30 PM)**

*Presenter: Mr GÖÖK, Alf (Uppsala University)*

## **Lowering the ENDF-6 entrance barrier for evaluators (3:00 PM)**

*Presenter: Mr SCHNABEL, Georg (IAEA)*

## **New integral experiments in Rez - focus on PFGS of $^{252}\text{Cf}(s.f)$ and $^{235}\text{U}(n_{th},f)$ (3:45 PM)**

*Presenter: Mr KOSTAL, Michal (Research Center Rez)*

# Tuesday, December 19, 2023

## **Evaluation, Measurements (10:00 AM - 12:00 PM)**

### **JEFF-4T3 status and NEA pipeline developments (10:00 AM)**

*Presenter: Ms FOLIGNO, Daniela (OECD/NEA)*

### **Neutron inelastic cross section derived from gamma-production cross section (n,n'g) reactions and Pygmy dipole resonance (10:45 AM)**

*Presenter: Mr PRONYAEV, Vladimir (independent)*

## **Evaluation, Measurements (1:30 PM - 5:00 PM)**

### **Updates on the study of the Fe isotopes (1:30 PM)**

*Presenter: Ms DIAKAKI, Maria (NTUA)*

### **Measurements and Evaluation of structural materials at RPI (2:15 PM)**

*Presenter: Mr DANON, Yaron (RPI)*

### **Some issues with the INDEN structural material evaluations (3:00 PM)**

*Presenter: Mr TRKOV, Andrej (IJS)*

# Wednesday, December 20, 2023

## **Discussion (1:00 PM - 5:00 PM)**

**Nuclear data feedback on structural, moderating and absorbing materials through the MAESTRO experimental programme in MINERVE (1:00 PM)**

*Presenter: Mr BERNARD, David (CEA)*

## **Half way Monte Carlo for integral adjustment (1:45 PM)**

*Presenter: Mr SUNDÉN, Erik Andersson (Uppsala University)*

## **TBD (2:30 PM)**

*Presenter: CAPOTE NOY, Roberto Mario (IAEA NAPC-NDS)*

# Thursday, December 21, 2023

**Discussion (10:00 AM - 3:00 PM)**