

# **Workshop for Applied Nuclear Data Activities (WANDA)**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Welcome & Opening Remarks

*Tuesday, 22 January 2019 08:15 (15 minutes)*

**Presenter:** Dr HALLMAN, Timothy (DOE)

Contribution ID: 1

Type: **not specified**

## Meeting structure and Goals

*Tuesday, 22 January 2019 08:30 (15 minutes)*

**Presenter:** Dr BERNSTEIN, Lee (LBNL/University of California - Berkeley)

Contribution ID: 2

Type: **not specified**

## **Background of Collaborative Nuclear Data Activities**

*Tuesday, 22 January 2019 08:45 (15 minutes)*

**Presenter:** Dr ROMANO, Catherine (ORNL)

Contribution ID: 3

Type: **not specified**

## Introduction

**Presenter:** LEWIS, Amanda

Contribution ID: 4

Type: **not specified**

## Modern Nuclear Data Evaluation Methods

*Tuesday, 22 January 2019 09:45 (15 minutes)*

**Presenter:** Prof. KONING, Arjan (IAEA)

Contribution ID: 5

Type: **not specified**

## Isotope Program Needs

*Tuesday, 22 January 2019 09:00 (15 minutes)*

**Presenter:** Dr BALKIN, Ethan (DOE)

Contribution ID: 6

Type: **not specified**

## Nuclear Energy Program Needs

*Tuesday, 22 January 2019 09:15 (15 minutes)*

**Presenter:** Dr CAPONITI, Alice (DOE)



Contribution ID: 7

Type: **not specified**

## NRC Needs

*Tuesday, 22 January 2019 09:30 (15 minutes)*

**Presenter:** Dr CUBBAGE, Amy (NRC)

Contribution ID: 8

Type: **not specified**

## Japanese Collaboration

*Tuesday, 22 January 2019 10:00 (15 minutes)*

**Presenters:** Dr RODRIGUEZ, Douglas (JAEA); Dr KOIZUMI, Mitsuo (JAEA)

Contribution ID: 9

Type: **not specified**

## Criticality Safety Program Needs

*Tuesday, 22 January 2019 12:00 (15 minutes)*

**Presenter:** Dr BOWEN, Doug (ORNL)

Contribution ID: **10**

Type: **not specified**

## NA-221 Overview

*Tuesday, 22 January 2019 11:05 (15 minutes)*

**Presenter:** Dr HORNBACK, Donald (DOE/NNSA)

Contribution ID: **11**

Type: **not specified**

## **DTRA Nuclear Data Needs**

*Tuesday, 22 January 2019 11:40 (10 minutes)*

**Presenter:** Dr MUELLER, Kevin (DTRA)

Contribution ID: **12**

Type: **not specified**

## NA-222

*Tuesday, 22 January 2019 11:20 (10 minutes)*

**Presenter:** Dr ASHENFELTER, Timothy (DOE/NNSA)

Contribution ID: **13**

Type: **not specified**

## **Safeguards Needs**

*Tuesday, 22 January 2019 11:30 (10 minutes)*

**Presenter:** Dr RAMOS, Chris (DOE/NNSA)

Contribution ID: **14**

Type: **not specified**

## **AFTAC Needs**

*Tuesday, 22 January 2019 11:50 (10 minutes)*

**Presenter:** Dr JOHNSON, William (AFTAC)



Contribution ID: 15

Type: **not specified**

## NA-114

*Tuesday, 22 January 2019 10:55 (10 minutes)*

**Presenter:** Dr PELTZ, Jim (DOE/NNSA)

Contribution ID: **16**

Type: **not specified**

## NA-113

*Tuesday, 22 January 2019 10:45 (10 minutes)*

**Presenter:** Dr BAILEY, Teresa (LLNL)

Contribution ID: 17

Type: **not specified**

## **Nuclear Data 101/The Nuclear Data Pipeline**

*Tuesday, 22 January 2019 13:45 (30 minutes)*

**Presenters:** Dr BROWN, David (BNL/NNDC); Dr CONLIN, Jeremy (LANL)

Contribution ID: **18**

Type: **not specified**

## **NDIAWG FOA Overview**

*Tuesday, 22 January 2019 14:15 (15 minutes)*

**Presenter:** Dr HALLMAN, Timothy (DOE/NP)

Contribution ID: 21

Type: **not specified**

## **Improving the Nuclear Data on Fission Products Decays at CARIBU**

*Tuesday, 22 January 2019 14:30 (15 minutes)*

**Presenter:** Dr SAVARD, Guy (ANL)

Contribution ID: 22

Type: **not specified**

## **Novel Approach for Improving Antineutrino Spectral Predicitons for Nonproliferation Applications**

*Tuesday, 22 January 2019 14:45 (15 minutes)*

**Presenter:** Dr KONDEV, Filip (ANL)

Contribution ID: 23

Type: **not specified**

## **$^{238}\text{U}(\text{p},\text{xn})$ and $^{235}\text{U}(\text{d},\text{xn})$ $^{235-237}\text{Np}$ Nuclear Reaction Cross Sections Relevant to the Production of $^{236}\text{gNp}$**

*Tuesday, 22 January 2019 15:00 (15 minutes)*

**Presenter:** Dr FASSBENDER, Michael (LANL)

Contribution ID: 24

Type: **not specified**

## **State-of-the-art Gamma-ray Spectroscopy to Enhance the ENSDF**

*Tuesday, 22 January 2019 15:15 (10 minutes)*

**Presenter:** Dr MCCUTCHAN, Libby (BNL/NNDC)



Contribution ID: 25

Type: **not specified**

## **Beta-strength function, reactor decay heat, and anti-neutrino properties from total absorption spectroscopy of fission fragments**

*Tuesday, 22 January 2019 15:25 (10 minutes)*

**Presenter:** Dr RYKACZEWSKI, Krzysztof (ORNL)

Contribution ID: 26

Type: **not specified**

## **Improving the double-differential $^{238}\text{U}(n,n'\gamma)$ cross section using neutron-gamma coincidences**

*Tuesday, 22 January 2019 15:35 (10 minutes)*

**Presenter:** BERNSTEIN, Lee (LBNL)

Contribution ID: 27

Type: **not specified**

# **Integral Measurements of Independent and Cumulative Fission Product Yields Supporting Nuclear Forensics and Other Applications**

*Tuesday, 22 January 2019 16:15 (10 minutes)*

**Presenter:** Dr BREDEWEG, Todd (LANL)

Contribution ID: 28

Type: **not specified**

## Evaluation of Energy Dependent Fission Product Yields

*Tuesday, 22 January 2019 16:25 (10 minutes)*

**Presenter:** Dr KAWANO, Toshihiko (LANL)

Contribution ID: 29

Type: **not specified**

## Measurement of Independent Fission Product Yields

*Tuesday, 22 January 2019 16:35 (10 minutes)*

**Presenter:** Dr DUKE, Dana (LANL)

Contribution ID: **30**

Type: **not specified**

## **Independent Fission Product Yields from 0.5 to 20 MeV**

*Tuesday, 22 January 2019 16:45 (10 minutes)*

**Presenter:** Dr MOSBY, Shea (LANL)

Contribution ID: **31**

Type: **not specified**

## Energy Dependent Fission Product Yields

*Tuesday, 22 January 2019 16:55 (10 minutes)*

**Presenter:** Dr TONCHEV, Anton (LLNL)

Contribution ID: **32**

Type: **not specified**

## Discussion/Q&A

*Tuesday, 22 January 2019 17:05 (10 minutes)*



Contribution ID: **38**

Type: **not specified**

## Presentation of Key Outcomes

*Thursday, 24 January 2019 13:30 (2h 15m)*

**Presenters:** Dr REARDEN, Brad (ORNL); Dr ROMANO, Catherine (ORNL); Dr PICKETT, Christopher (ORNL); Dr BROWN, David (BNL/NNDC); Dr VERMEULEN, Etienne (LANL); Dr DESCALLE, Marie-Anne (LLNL); Dr DEVLIN, Matthew (LANL); Dr CASPERSON, Robert (LLNL)

Contribution ID: 39

Type: **not specified**

## **Radioactive targets for Nuclear Astrophysics experiments at LANL.**

*Wednesday, 23 January 2019 09:25 (15 minutes)*

**Presenter:** Dr PERDIKAKIS, Georgios (Central Michigan University)

**Session Classification:** Roadmapping Session 1B

Contribution ID: 40

Type: **not specified**

## Welcome to GWU

*Tuesday, 22 January 2019 08:10 (5 minutes)*

**Presenter:** Prof. MACFARLANE, Allison (GWU)

Contribution ID: 41

Type: **not specified**

## **Nuclear Data for Isotope Production: A Program Manager's Perspective**

*Wednesday, 23 January 2019 08:30 (20 minutes)*

**Presenter:** Dr BALKIN, Ethan (DoE)

**Session Classification:** Roadmapping Session 1B

Contribution ID: 42

Type: **not specified**

## **Current status of infrastructure and capabilities for nuclear data measurements at BLIP**

*Wednesday, 23 January 2019 08:50 (20 minutes)*

**Presenter:** Dr MEDVEDEV, Dmitri (BNL)

**Session Classification:** Roadmapping Session 1B

Contribution ID: 43

Type: **not specified**

## **Capabilities for Isotope Production Nuclear Data Measurements at LBNL**

*Wednesday, 23 January 2019 09:10 (15 minutes)*

**Presenter:** Dr VOYLES, Andrew (UCB / LBNL)

**Session Classification:** Roadmapping Session 1B

Contribution ID: 44

Type: **not specified**

## **Argonne capabilities and needs for nuclear and atomic data related to the isotope program**

*Wednesday, 23 January 2019 09:40 (20 minutes)*

**Presenter:** Dr NOLEN, Jerry (ANL)

**Session Classification:** Roadmapping Session 1B

Contribution ID: 45

Type: **not specified**

## **Activation measurements of therapeutic radionuclide excitation functions using Quasi-Monoenergetic Neutron Beams**

*Wednesday, 23 January 2019 10:20 (20 minutes)*

**Presenter:** Dr ENGLE, Jonathan (University of Wisconsin - Madison)

**Session Classification:** Roadmapping Session 1B (continued)



Contribution ID: 46

Type: **not specified**

## **University of Washington Medical Cyclotron Facility (UWMCF)**

*Wednesday, 23 January 2019 10:40 (20 minutes)*

**Presenter:** Dr MOFFITT, Gregory (University of Washington)

**Session Classification:** Roadmapping Session 1B (continued)

Contribution ID: 47

Type: **not specified**

## Atomic and Nuclear Data for Auger emitters

*Wednesday, 23 January 2019 11:00 (20 minutes)*

**Presenter:** Dr HOWELL, Roger (Rutgers University)

**Session Classification:** Roadmapping Session 1B (continued)

Contribution ID: 48

Type: **not specified**

## **Growth and Potential Isotope Needs in Medicine**

*Wednesday, 23 January 2019 11:20 (20 minutes)*

**Presenter:** Dr ROBERT, Hobbs (Johns Hopkins Medicine)

**Session Classification:** Roadmapping Session 1B (continued)

Contribution ID: 49

Type: **not specified**

## Wrap-Up Discussion

*Wednesday, 23 January 2019 11:40 (20 minutes)*

**Session Classification:** Roadmapping Session 1B (continued)

Contribution ID: 50

Type: **not specified**

## **General overview of ENDF atomic data libraries**

*Thursday, 24 January 2019 08:30 (10 minutes)*

**Presenter:** Dr BROWN, David (BNL)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 51

Type: **not specified**

## IAEA support of atomic data

*Thursday, 24 January 2019 08:40 (10 minutes)*

**Presenter:** Dr KONING, Arjan (IAEA)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 52

Type: **not specified**

## **NIST atomic data capabilities**

*Thursday, 24 January 2019 08:50 (10 minutes)*

**Presenter:** Dr RALCHENKO, Yuri (NIST)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 53

Type: **not specified**

## Atomic data support in EXFOR

*Thursday, 24 January 2019 09:00 (10 minutes)*

**Presenter:** Dr PRITYCHENKO, Boris (BNL)

**Session Classification:** Roadmapping Session 3B



Contribution ID: 54

Type: **not specified**

## **GNDS implementation of atomic data**

*Thursday, 24 January 2019 09:10 (10 minutes)*

**Presenter:** Dr DESCALLE, Marie-Anne (LLNL)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 55

Type: **not specified**

## **Atomic data in Monte Carlo transport codes and their validation**

*Thursday, 24 January 2019 09:20 (10 minutes)*

**Presenter:** Dr PIA, Maria Grazia (INFN)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 56

Type: **not specified**

## **SNL electron and photon scattering data use at Sandia**

*Thursday, 24 January 2019 09:30 (10 minutes)*

**Presenters:** Dr FRANKE, Brian (SNL); Dr DRUMM, Clif (SNL)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 57

Type: **not specified**

## LLNL capabilities and needs

*Thursday, 24 January 2019 09:40 (10 minutes)*

**Presenters:** Dr JURGENSON, Eric (LLNL); Dr THOMPSON, Ian (LLNL); Dr KRUSE, Michael (LLNL); Dr LIBBY, Steve (LLNL)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 58

Type: **not specified**

## Atomic data needs for ENSDF & decay data

*Thursday, 24 January 2019 09:50 (10 minutes)*

**Presenter:** Dr SONZOGNI, Alejandro (BNL)

**Session Classification:** Roadmapping Session 3B

Contribution ID: 59

Type: **not specified**

## Atomic data needs for safeguards

*Thursday, 24 January 2019 10:20 (10 minutes)*

**Presenter:** Dr CROFT, Steven (ORNL)

**Session Classification:** Roadmapping Session 3B (continued)

Contribution ID: 60

Type: **not specified**

## **PyXRF and related XRF analysis codes at light sources**

*Thursday, 24 January 2019 10:30 (10 minutes)*

**Presenters:** Dr KISS, Andrew (BNL); Dr CAMPBELL, Stewart (BNL)

**Session Classification:** Roadmapping Session 3B (continued)

Contribution ID: **61**

Type: **not specified**

## Discussion

*Thursday, 24 January 2019 10:40 (1 hour)*

**Session Classification:** Roadmapping Session 3B (continued)



Contribution ID: **62**

Type: **not specified**

## Drafting of Close-out Talk

*Thursday, 24 January 2019 11:40 (20 minutes)*

**Session Classification:** Roadmapping Session 3B (continued)

Contribution ID: 63

Type: **not specified**

## **Introduction: Nuclear Data Needs for Nuclear Energy Applications**

*Wednesday, 23 January 2019 08:30 (20 minutes)*

**Presenter:** Dr REARDEN, Bradley (ORNL)

**Session Classification:** Roadmapping Session 1A

Contribution ID: 64

Type: **not specified**

## **Nuclear Data Needs for Spent Fuel Dry Storage and Radioactive Materials Transportation**

*Wednesday, 23 January 2019 08:50 (15 minutes)*

**Presenter:** Dr BARTO, Drew (NRC)

**Session Classification:** Roadmapping Session 1A

Contribution ID: 65

Type: **not specified**

## **Recent LWR Systems Analysis Research Projects at the USNRC**

*Wednesday, 23 January 2019 09:05 (20 minutes)*

**Presenter:** Dr YARSKY, Pete (NRC)

**Session Classification:** Roadmapping Session 1A

Contribution ID: **66**

Type: **not specified**

## **Fission and Nuclear Data**

*Thursday, 24 January 2019 16:15 (30 minutes)*

**Presenter:** Dr SONZOGNI, Alejandro (BNL/NNDC)

**Session Classification:** Q&A and Closeout

Contribution ID: 67

Type: **not specified**

## Final Discussions

*Thursday, 24 January 2019 16:45 (15 minutes)*

**Presenters:** Dr HORNBACK, Donald (DOE/NNSA); Dr HALLMAN, Timothy (DOE/NP)

**Session Classification:** Q&A and Closeout

Contribution ID: 68

Type: **not specified**

## Introduction and Guidelines

*Wednesday, 23 January 2019 13:15 (10 minutes)*

**Presenter:** Dr ROMANO, Catherine (ORNL)

**Session Classification:** Roadmapping Session 2A - Materials Damage

Contribution ID: 69

Type: **not specified**

## **Nuclear Data Needs for High Temperature Gas-cooled Reactors**

*Wednesday, 23 January 2019 09:40 (15 minutes)*

**Presenter:** Dr MULDER, Eben (X-energy)

**Session Classification:** Roadmapping Session 1A



Contribution ID: 70

Type: **not specified**

## **Nuclear Data Needs Assessment for Advanced Nuclear System: History and Update**

**Presenter:** Dr PALMIOTTI, Giuseppe (INL)

Contribution ID: 71

Type: **not specified**

## **Materials Issues for Non-light Water Reactors**

*Wednesday, 23 January 2019 13:25 (15 minutes)*

**Presenter:** Dr IYENGAR, Raj (NRC)

**Session Classification:** Roadmapping Session 2A - Materials Damage

Contribution ID: 72

Type: **not specified**

## Materials Issues for Fusion Systems

*Wednesday, 23 January 2019 13:40 (15 minutes)*

**Presenter:** Dr CLARK, Daniel (Office of Science, Fusion)

**Session Classification:** Roadmapping Session 2A - Materials Damage

Contribution ID: 73

Type: **not specified**

## **IAEA work on primary radiation damage cross sections**

*Wednesday, 23 January 2019 13:55 (15 minutes)*

**Presenter:** Prof. KONING, Arjan (IAEA)

**Session Classification:** Roadmapping Session 2A - Materials Damage

Contribution ID: 74

Type: **not specified**

## **IAEA CRP on Primary Radiation Damage and SPECTER**

*Wednesday, 23 January 2019 14:40 (15 minutes)*

**Presenter:** Dr GREENWOOD, Larry (PNNL)

**Session Classification:** Roadmapping Session 2A - Materials Damage

Contribution ID: 75

Type: **not specified**

## **Damage Correlation: Exposure vs. Material Damage**

**Presenter:** Dr STOLLER, Roger (ORNL)

Contribution ID: 76

Type: **not specified**

## **Activation and Damage Cross Sections in Use for EUROFusion Fusion Nuclear Technology**

*Wednesday, 23 January 2019 16:00 (15 minutes)*

**Presenter:** Dr GROVE, Robert (ORNL)

**Session Classification:** Roadmapping Session 2A (continued)

Contribution ID: 77

Type: **not specified**

## **Neutron Dosimetry with STAYSL for Materials Irradiations and the IAEA CRP on IRDFF**

*Wednesday, 23 January 2019 15:45 (15 minutes)*

**Presenter:** Dr GREENWOOD, Larry (PNNL)

**Session Classification:** Roadmapping Session 2A (continued)



Contribution ID: 78

Type: **not specified**

## **Materials irradiations in HFIR**

**Presenter:** Dr ROMANO, Catherine (ORNL)

Contribution ID: 79

Type: **not specified**

## Materials Damage Characterization

*Wednesday, 23 January 2019 15:30 (15 minutes)*

**Presenter:** Dr HOSEMANN, Peter (UC Berkeley)

**Session Classification:** Roadmapping Session 2A (continued)

Contribution ID: **80**

Type: **not specified**

## **The Impact of ENDF/B-VIII.0 and FENDL-3.1d on Fusion Neutronics Calculations**

*Wednesday, 23 January 2019 14:10 (15 minutes)*

**Presenter:** Dr BOHM, Tim (Univ. Wisc.-Madison)

**Session Classification:** Roadmapping Session 2A - Materials Damage

Contribution ID: **81**

Type: **not specified**

## **Damage Correlation: Exposure Vs. Material Damage**

*Wednesday, 23 January 2019 15:15 (15 minutes)*

**Presenter:** Dr STOLLER, Roger (ORNL)

**Session Classification:** Roadmapping Session 2A (continued)

Contribution ID: 82

Type: **not specified**

## **Fusion Nuclear Science Facility**

*Wednesday, 23 January 2019 14:25 (15 minutes)*

**Presenter:** Dr KESSEL, Charles (ORNL)

**Session Classification:** Roadmapping Session 2A - Materials Damage

Contribution ID: 83

Type: **not specified**

## **Using Heavy Ion Beams to Study Radiation Damage in Fuel Elements and Structural Materials for Reactors**

*Wednesday, 23 January 2019 16:15 (15 minutes)*

**Presenter:** Dr NOLEN, Jerry (ANL)

**Session Classification:** Roadmapping Session 2A (continued)

Contribution ID: **84**

Type: **not specified**

## **Advanced Reactor Design and Analysis**

*Wednesday, 23 January 2019 10:20 (15 minutes)*

**Presenter:** Dr TOURAN, Nicholas (TerraPower)

**Session Classification:** Roadmapping Session 1A (continued)

Contribution ID: 85

Type: **not specified**

## **Nuclear Data Needs for Current and Future Nuclear Energy Systems**

*Wednesday, 23 January 2019 10:35 (15 minutes)*

**Presenter:** Dr LEVINSKY, Alex (Westinghouse)

**Session Classification:** Roadmapping Session 1A (continued)



Contribution ID: 86

Type: **not specified**

## **Impact of Nuclear Data on the Design of Fluoride Cooled Reactors**

*Wednesday, 23 January 2019 10:50 (15 minutes)*

**Presenter:** Dr FRATONI, Massimiliano (UC Berkeley/Kairos Power)

**Session Classification:** Roadmapping Session 1A (continued)

Contribution ID: 87

Type: **not specified**

## **The Status of Nuclear Data Uncertainty Libraries and the Problem of Too Small Uncertainties on Differential Data and Too Large Uncertainties on Integral Data**

*Wednesday, 23 January 2019 11:25 (15 minutes)*

**Presenter:** Dr SOBES, Vladimir (ORNL)

**Session Classification:** Roadmapping Session 1A (continued)

Contribution ID: **88**

Type: **not specified**

# Thermal Scattering Law Data for Advanced Reactor Applications

*Wednesday, 23 January 2019 11:40 (15 minutes)*

**Presenter:** Dr HAWARI, Ayman (NCSU)

**Session Classification:** Roadmapping Session 1A (continued)

Contribution ID: **89**

Type: **not specified**

## Discussion

*Wednesday, 23 January 2019 11:55 (5 minutes)*

**Presenters:** Dr REARDEN, Bradley (ORNL); MATTHEWS, Eric

**Session Classification:** Roadmapping Session 1A (continued)

Contribution ID: **90**

Type: **not specified**

## **Applied Sensitivity Studies**

*Thursday, 24 January 2019 08:30 (10 minutes)*

**Presenter:** Dr CASPERSON, Robert (LLNL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: **91**

Type: **not specified**

## LLNL Nuclear Data Survey

*Thursday, 24 January 2019 08:40 (5 minutes)*

**Presenter:** Dr BAILEY, Teresa (LLNL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: 92

Type: **not specified**

## **Covariance availability for neutron reaction data**

*Thursday, 24 January 2019 08:45 (5 minutes)*

**Presenter:** Dr THOMPSON, Ian (LLNL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: 93

Type: **not specified**

# Integral Criticality Benchmarks and Nuclear Data

*Thursday, 24 January 2019 08:50 (5 minutes)*

**Presenter:** Dr PERCHER, Catherine (LLNL)

**Session Classification:** Roadmapping Session 3A



Contribution ID: 94

Type: **not specified**

## LANL Light Element Evaluations

*Thursday, 24 January 2019 08:55 (5 minutes)*

**Presenter:** Dr PARIS, Mark (Los Alamos National Laboratory)

**Session Classification:** Roadmapping Session 3A

Contribution ID: 95

Type: **not specified**

## Evaluation Discussion

*Thursday, 24 January 2019 09:00 (20 minutes)*

**Session Classification:** Roadmapping Session 3A

Contribution ID: 96

Type: **not specified**

## GENESIS for Low-z

*Thursday, 24 January 2019 09:20 (5 minutes)*

**Presenter:** Dr BLEUEL, Darren (LLNL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: 97

Type: **not specified**

## **Inelastic Scattering with a Segmented Neutron/Gamma Calorimeter**

*Thursday, 24 January 2019 09:25 (5 minutes)*

**Presenter:** Dr CASPERSON, Robert (LLNL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: 98

Type: **not specified**

## **A 4-pi array for the inelastic scattering study**

*Thursday, 24 January 2019 09:30 (5 minutes)*

**Presenter:** Dr WU, Ching-Yen (LLNL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: 99

Type: **not specified**

## Uncertainties in Neutron Scattering Cross Sections

*Thursday, 24 January 2019 09:35 (5 minutes)*

**Presenter:** Dr DEVLIN, Matthew (LANL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: **100**

Type: **not specified**

## UMass Lowell Capabilities

*Thursday, 24 January 2019 09:40 (5 minutes)*

**Presenter:** Dr DEVLIN, Matthew (LANL)

**Session Classification:** Roadmapping Session 3A

Contribution ID: **101**

Type: **not specified**

## Matt Devlin



Contribution ID: **102**

Type: **not specified**

## Yaron Danon

Contribution ID: **103**

Type: **not specified**

## Scattering Discussion

*Thursday, 24 January 2019 10:20 (30 minutes)*

**Session Classification:** Roadmapping Session 3A (continued)

Contribution ID: **104**

Type: **not specified**

## **Advancing Neutron Capture at LANSCE**

*Thursday, 24 January 2019 10:50 (10 minutes)*

**Presenter:** Dr COUTURE, Aaron (LANL)

**Session Classification:** Roadmapping Session 3A (continued)

Contribution ID: **105**

Type: **not specified**

## Surrogate Cross Section Experiments

*Thursday, 24 January 2019 11:10 (5 minutes)*

**Presenter:** Dr BURKE, Jason (LLNL)

**Session Classification:** Roadmapping Session 3A (continued)

Contribution ID: **106**

Type: **not specified**

## **Capabilities to address cross section needs for reactions on unstable nuclei**

*Thursday, 24 January 2019 11:00 (10 minutes)*

**Presenter:** Dr ESCHER, Jutta (LLNL)

**Session Classification:** Roadmapping Session 3A (continued)

Contribution ID: **107**

Type: **not specified**

## **Measuring (n,f) and (n,z) Reactions with the fissionTPC**

*Thursday, 24 January 2019 11:15 (5 minutes)*

**Presenter:** Dr SNYDER, Luke (LLNL)

**Session Classification:** Roadmapping Session 3A (continued)

Contribution ID: **108**

Type: **not specified**

## **High quality (n,p) and (n,a) data using LENZ at LANSCE Microscopic E,J, $\pi$ -dependent level densities for applications and basic science.**

*Thursday, 24 January 2019 11:20 (5 minutes)*

**Presenter:** Dr PERDIKAKIS, Georgios (Central Michigan University)

**Session Classification:** Roadmapping Session 3A (continued)

Contribution ID: **109**

Type: **not specified**

## **An Intense Neutron Source at FRIB**

*Thursday, 24 January 2019 11:25 (5 minutes)*

**Presenter:** Dr SMITH, Michael (ORNL)

**Session Classification:** Roadmapping Session 3A (continued)



Contribution ID: **110**

Type: **not specified**

## **Capture, (n,2n), (n,z) Discussion**

*Thursday, 24 January 2019 11:30 (30 minutes)*

**Session Classification:** Roadmapping Session 3A (continued)

Contribution ID: 111

Type: **not specified**

## **The Gaerttner LINAC Center 1 Overview Of Experimental Nuclear Data Capabilities at RPI**

*Thursday, 24 January 2019 09:45 (10 minutes)*

**Presenter:** Dr DANON, Yaron (RPI)

**Session Classification:** Roadmapping Session 3A

Contribution ID: **112**

Type: **not specified**

## Defining the Need

*Wednesday, 23 January 2019 13:15 (20 minutes)*

**Presenter:** Dr PICKETT, Christopher (NNSA)

**Session Classification:** Roadmapping Session 2B - Safeguards

Contribution ID: 113

Type: **not specified**

## **Destructive Analyses Methods & Nuclear Data Needs**

*Wednesday, 23 January 2019 13:35 (20 minutes)*

**Presenter:** Dr TICKNOR, Brian

**Session Classification:** Roadmapping Session 2B - Safeguards

Contribution ID: 114

Type: **not specified**

## **Nondestructive Analysis Methods & Nuclear Data Needs**

*Wednesday, 23 January 2019 13:55 (20 minutes)*

**Presenters:** Dr FAVALLI, Andrea (LANL); Dr CROFT, Stephen (ORNL)

**Session Classification:** Roadmapping Session 2B - Safeguards

Contribution ID: 115

Type: **not specified**

## Brainstorming, Prioritizing, and Summarizing

*Wednesday, 23 January 2019 14:15 (40 minutes)*

**Presenter:** MATTHEWS, Eric

**Session Classification:** Roadmapping Session 2B - Safeguards

Contribution ID: **116**

Type: **not specified**

## **Brainstorming, Prioritizing, and Summarizing**

*Wednesday, 23 January 2019 15:15 (1h 45m)*

**Presenter:** MATTHEWS, Eric

**Session Classification:** Roadmapping Session 2B - Safeguards

Contribution ID: 117

Type: **not specified**

## **Nuclear Data Needs Assessment for Advanced Nuclear System: History and Update**

*Wednesday, 23 January 2019 11:05 (20 minutes)*

**Presenter:** Dr PALMIOTTI, Giuseppe (INL)

**Session Classification:** Roadmapping Session 1A (continued)



Contribution ID: **118**

Type: **not specified**

## **Data Challenges for Advanced Reactor Licensing**

*Wednesday, 23 January 2019 09:25 (15 minutes)*

**Presenter:** Dr DRZEWIECKI, Timothy (NRC)

**Session Classification:** Roadmapping Session 1A

Contribution ID: **119**

Type: **not specified**

## Discussion

*Wednesday, 23 January 2019 09:55 (5 minutes)*

**Presenter:** MATTHEWS, Eric (UC Berkeley)

**Session Classification:** Roadmapping Session 1A

Contribution ID: 120

Type: **not specified**

## **Neutron Experiments at Edwards Accelerator Laboratory at Ohio State**

*Thursday, 24 January 2019 09:55 (5 minutes)*

**Presenter:** VOINOV, Alexander (Ohio U)

**Session Classification:** Roadmapping Session 3A

Contribution ID: **121**

Type: **not specified**

## Opening