

**US National Nuclear Data  
Week 2018  
(CSEWG-USNDP-NDAG)**

**Report of Contributions**

Contribution ID: 124

Type: **not specified**

## **Status of ADVANCE and GForge**

*Monday, 5 November 2018 13:20 (20 minutes)*

**Presenter:** DAVID, Brown (NNDC, Brookhaven National Laboratory)

**Session Classification:** CSEWG

Contribution ID: 125

Type: **not specified**

## **Validation of ENDF/B-VIII.0 Neutron Cross-Sections Library for CANDU Applications for criticality and burnup calculations**

*Monday, 5 November 2018 13:40 (20 minutes)*

**Presenter:** ATTIEH, Ibrahim (Candu Energy Inc)

**Session Classification:** CSEWG

Contribution ID: **126**

Type: **not specified**

**TBD**

*Monday, 5 November 2018 14:20 (20 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: 127

Type: **not specified**

## **Validating ENDF/B-VIII.0 with LLNL pulsed spheres spanning materials from light water to plutonium**

*Monday, 5 November 2018 14:40 (20 minutes)*

**Presenter:** Dr NEUDECKER, Denise (Los Alamos National Laboratory, Theoretical Division)

**Session Classification:** CSEWG

Contribution ID: 128

Type: **not specified**

## **Post-ENDF/B-VIII improvements to the $^{56}\text{Fe}$ nuclear data evaluation**

*Monday, 5 November 2018 15:20 (20 minutes)*

**Presenter:** Dr TRKOV, Andrej (International Atomic Energy Agency)

**Session Classification:** CSEWG

Contribution ID: **129**

Type: **not specified**

## **Status of the ICSBEP and IRPhEP 2018 Handbooks**

*Monday, 5 November 2018 15:40 (20 minutes)*

**Presenter:** BESS, John (Idaho National Laboratory)

**Session Classification:** CSEWG

Contribution ID: 130

Type: **not specified**

## **Nuclear Data testing & Evaluating at CNL and CAB**

*Monday, 5 November 2018 14:00 (20 minutes)*

**Presenters:** Dr ROUBTSOV, Danila (Canadian Nuclear Laboratories (CNL)); MARQUEZ DAMIAN, Jose Ignacio (Centro Atomico Bariloche, Argentina)

**Session Classification:** CSEWG



Contribution ID: **131**

Type: **not specified**

## **Format Issues and Proposals**

*Tuesday, 6 November 2018 13:00 (1 hour)*

- Deuteron double differential cross sections, Arjan Koning (IAEA)
- Decay heat and FPY, Luca Fiorito (NEA/DB)
- Converting R-matrix widths to CM frame of reference, Ian Thompson (LLNL) / Marco Pigni (ORNL)

**Session Classification:** CSEWG

Contribution ID: **132**

Type: **not specified**

## **NJOY Status**

*Tuesday, 6 November 2018 14:00 (20 minutes)*

**Presenter:** Dr CONLIN, Jeremy (LANL)

**Session Classification:** CSEWG

Contribution ID: **133**

Type: **not specified**

## **AMPX**

*Tuesday, 6 November 2018 14:20 (20 minutes)*

**Presenter:** WIARDA, Dorothea (ORNL)

**Session Classification:** CSEWG

Contribution ID: **134**

Type: **not specified**

## **FUDGE**

*Tuesday, 6 November 2018 14:40 (20 minutes)*

**Presenters:** Dr BECK, Bret (LLNL); MATTOON, Caleb (Lawrence Livermore National Lab)

**Session Classification:** CSEWG

Contribution ID: 135

Type: **not specified**

## **EG-GNDS Report**

*Tuesday, 6 November 2018 15:20 (15 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: 136

Type: **not specified**

## **SG-43 Report**

*Tuesday, 6 November 2018 15:35 (15 minutes)*

**Presenter:** Dr CONLIN, Jeremy (LANL)

**Session Classification:** CSEWG

Contribution ID: **137**

Type: **not specified**

## **ENDF-102 Update**

*Tuesday, 6 November 2018 15:50 (15 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: 138

Type: **not specified**

## **SAMMY Modernization and Advances in Nuclear Data Evaluation Methods**

*Tuesday, 6 November 2018 16:05 (20 minutes)*

**Presenter:** ARBANAS, Goran (ORNL)

**Session Classification:** CSEWG



Contribution ID: 139

Type: **not specified**

## **Collaborative Nuclear Data Measurements**

*Wednesday, 7 November 2018 13:00 (30 minutes)*

### **Summary**

**Presenter:** PIERSON, Bruce (Pacific Northwest National Laboratory - Battelle)

**Session Classification:** CSEWG

Contribution ID: 140

Type: **not specified**

# Calculation of Independent and Cumulative Fission Product Yields and Fission Spectrum with the Statistical Decay Theory

*Wednesday, 7 November 2018 13:30 (20 minutes)*

## Summary

**Presenter:** KAWANO, Toshihiko (Los Alamos National Laboratory)

**Session Classification:** CSEWG

Contribution ID: **141**

Type: **not specified**

## **Fission Yields CRP**

*Wednesday, 7 November 2018 13:50 (20 minutes)*

**Presenter:** DIMITRIOU, Paraskevi (International Atomic Energy Agency)

**Session Classification:** CSEWG

Contribution ID: **142**

Type: **not specified**

## **Nuclear Data Sheets**

*Wednesday, 7 November 2018 14:10 (20 minutes)*

### **Summary**

**Presenter:** MCCUTCHAN, Elizabeth (BNL)

**Session Classification:** CSEWG

Contribution ID: 143

Type: **not specified**

## **Some of the Latest Developments on Nuclear Reactor Antineutrinos**

*Wednesday, 7 November 2018 14:30 (20 minutes)*

### **Summary**

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

**Session Classification:** CSEWG

Contribution ID: 144

Type: **not specified**

## Versatile Test Reactor Overview

*Wednesday, 7 November 2018 14:50 (40 minutes)*

### Summary

**Presenter:** HILL, Tony (Idaho State University / Idaho National Laboratory)

**Session Classification:** CSEWG

Contribution ID: 145

Type: **not specified**

## **USNDP General Topics**

*Thursday, 8 November 2018 09:00 (30 minutes)*

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

**Session Classification:** USNDP Reporting Session

Contribution ID: **146**

Type: **not specified**

## **NSR+EXFOR**

*Thursday, 8 November 2018 09:30 (20 minutes)*

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

**Session Classification:** USNDP Reporting Session



Contribution ID: **147**

Type: **not specified**

## **XUNDL**

*Thursday, 8 November 2018 09:50 (30 minutes)*

**Presenter:** MCCUTCHAN, Elizabeth (BNL)

**Session Classification:** USNDP Reporting Session

Contribution ID: **148**

Type: **not specified**

## ENSDF

*Thursday, 8 November 2018 10:20 (1 hour)*

**Presenter:** MCCUTCHAN, Elizabeth (BNL)

**Session Classification:** USNDP Reporting Session

Contribution ID: **149**

Type: **not specified**

## **ENDF/B**

*Thursday, 8 November 2018 11:35 (10 minutes)*

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

**Session Classification:** USNDP Reporting Session

Contribution ID: **150**

Type: **not specified**

## **Web**

*Thursday, 8 November 2018 11:45 (10 minutes)*

**Presenter:** Dr JOHNSON, Tim (NNDC)

**Session Classification:** USNDP Reporting Session

Contribution ID: **151**

Type: **not specified**

**ANL**

*Thursday, 8 November 2018 11:55 (15 minutes)*

**Presenter:** Dr KONDEV, Filip (Argonne National Laboratory)

**Session Classification:** USNDP Reporting Session

Contribution ID: **152**

Type: **not specified**

**LANL**

*Thursday, 8 November 2018 12:10 (20 minutes)*

**Presenter:** KAWANO, Toshihiko (Los Alamos National Laboratory)

**Session Classification:** USNDP Reporting Session

Contribution ID: **153**

Type: **not specified**

## **LBNL**

*Thursday, 8 November 2018 13:30 (20 minutes)*

**Presenter:** Dr BERNSTEIN, Lee (LBNL/UCB)

**Session Classification:** USNDP Reporting Session

Contribution ID: **154**

Type: **not specified**

**LLNL**

*Thursday, 8 November 2018 13:50 (10 minutes)*

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

**Session Classification:** USNDP Reporting Session



Contribution ID: **155**

Type: **not specified**

## **MSU**

*Thursday, 8 November 2018 14:00 (20 minutes)*

**Presenter:** Dr CHEN, Jun (NSCL/MSU)

**Session Classification:** USNDP Reporting Session

Contribution ID: **156**

Type: **not specified**

## **McMaster**

*Thursday, 8 November 2018 14:20 (30 minutes)*

**Presenter:** Dr SINGH, Balraj (McMaster University, Hamilton, Ontario, Canada)

**Session Classification:** USNDP Reporting Session

Contribution ID: **157**

Type: **not specified**

## **NIST**

*Thursday, 8 November 2018 14:50 (10 minutes)*

**Presenter:** Dr CARLSON, Allan (NIST)

**Session Classification:** USNDP Reporting Session

Contribution ID: **158**

Type: **not specified**

## **ORNL**

*Thursday, 8 November 2018 15:00 (10 minutes)*

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

**Session Classification:** USNDP Reporting Session

Contribution ID: **159**

Type: **not specified**

## TAMU

*Thursday, 8 November 2018 15:10 (10 minutes)*

**Presenter:** Dr NICA, NINEL (TEXAS A&M UNIVERSITY, CYCLOTRON INSTITUTE)

**Session Classification:** USNDP Reporting Session

Contribution ID: **160**

Type: **not specified**

## TUNL

*Thursday, 8 November 2018 15:20 (10 minutes)*

**Presenter:** Prof. KELLEY, John (NCSU & TUNL)

**Session Classification:** USNDP Reporting Session

Contribution ID: **161**

Type: **not specified**

## **USNDP Whitepaper**

*Thursday, 8 November 2018 15:45 (30 minutes)*

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

**Session Classification:** USNDP Reporting Session

Contribution ID: **162**

Type: **not specified**

## **IAEA**

*Thursday, 8 November 2018 16:15 (30 minutes)*

**Presenter:** DIMITRIOU, Paraskevi (International Atomic Energy Agency)

**Session Classification:** USNDP Reporting Session



Contribution ID: **163**

Type: **not specified**

## **Next NDAC**

*Thursday, 8 November 2018 16:45 (15 minutes)*

**Session Classification:** USNDP Reporting Session

Contribution ID: **164**

Type: **not specified**

## **Feedback from users who could not attend**

*Tuesday, 6 November 2018 09:00 (20 minutes)*

**Presenter:** Dr NEUDECKER, Denise (Los Alamos National Laboratory, Theoretical Division)

**Session Classification:** CSEWG

Contribution ID: 165

Type: **not specified**

## **ENDF/B-VIII.0 covariance testing in ORNL**

*Tuesday, 6 November 2018 09:20 (25 minutes)*

**Presenter:** WIARDA, Dorothea (ORNL)

**Session Classification:** CSEWG

Contribution ID: **166**

Type: **not specified**

## **Augmented ENDF/B-VIII.0 covariance matrix**

*Tuesday, 6 November 2018 09:45 (20 minutes)*

**Presenter:** Dr SOBES, Vladimir (Oak Ridge National Laboratory)

**Session Classification:** CSEWG

Contribution ID: **167**

Type: **not specified**

## **BNL welcome and feedback received on B-VIII.0**

*Monday, 5 November 2018 09:00 (10 minutes)*

**Presenters:** Dr SONZOGNI, Alejandro (NNDC - BNL); Dr BROWN, Dave (BNL)

**Session Classification:** CSEWG

Contribution ID: 168

Type: **not specified**

## **Updating the experimental $^{239}\text{Pu}(n,f)$ cross-section uncertainties in the Neutron Data Standards database**

*Tuesday, 6 November 2018 10:05 (20 minutes)*

**Presenter:** Dr NEUDECKER, Denise (Los Alamos National Laboratory, Theoretical Division)

**Session Classification:** CSEWG

Contribution ID: 169

Type: **not specified**

## **Uncertainty and Covariance Analysis for Fast-Neutron Induced Cross Section Partial Gamma Measurements**

*Tuesday, 6 November 2018 10:40 (20 minutes)*

**Presenter:** Ms LEWIS, Amanda (University of California, Berkeley)

**Session Classification:** CSEWG

Contribution ID: 170

Type: **not specified**

## **Applying machine learning techniques to ICSBEP benchmark validation**

*Tuesday, 6 November 2018 11:00 (20 minutes)*

**Presenters:** GRECHANUK, Pavel (LANL); RISING, Michael (LANL); HERMAN, Mike (LANL)

**Session Classification:** CSEWG



Contribution ID: 171

Type: **not specified**

## **Bayesian Monte Carlo applied to Ni isotopes**

*Tuesday, 6 November 2018 11:20 (20 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: 172

Type: **not specified**

## **Reduction of uncertainty in general purpose libraries without using integral data**

*Tuesday, 6 November 2018 11:40 (20 minutes)*

**Presenters:** Dr TRKOV, Andrej (International Atomic Energy Agency); CAPOTE, Roberto (IAEA NDS)

**Session Classification:** CSEWG

Contribution ID: 173

Type: **not specified**

## Cr, Zr, Pb, Kr

*Monday, 5 November 2018 10:40 (20 minutes)*

**Presenters:** Dr NOBRE, Gustavo (BNL); Dr BROWN, Dave (BNL)

**Session Classification:** CSEWG

Contribution ID: 174

Type: **not specified**

## **U235, U238, Fe, Si, Ni**

*Monday, 5 November 2018 09:20 (20 minutes)*

**Presenters:** Dr TRKOV, Andrej (International Atomic Energy Agency); CAPOTE, Roberto (IAEA NDS)

**Session Classification:** CSEWG

Contribution ID: 175

Type: **not specified**

## **Cl, Ca, Cu, Ce, Gd, Dy, W, V, La, Ta, u233, and alpha reactions**

*Monday, 5 November 2018 10:00 (20 minutes)*

**Presenter:** Dr PIGNI, Marco (ORNL)

**Session Classification:** CSEWG

Contribution ID: 176

Type: **not specified**

## **Pu isotopes, minor U isotopes, Am, Ir, Y, F**

*Monday, 5 November 2018 09:40 (20 minutes)*

**Presenters:** Dr CHADWICK, Mark (Lanl); Dr HERMAN, Mike (BNL)

**Session Classification:** CSEWG

Contribution ID: 177

Type: **not specified**

## **d+4He, p+7Li, and d+7Li + comments on other CP reactions LLNL added in VIII.0**

*Monday, 5 November 2018 11:20 (20 minutes)*

**Presenters:** ORMAND, Erich (LLNL); Dr THOMPSON, Ian (LLNL)

**Session Classification:** CSEWG

Contribution ID: 178

Type: **not specified**

## **O16, Be, Li, N a+6Li, d+d,t,3He, p+6,7Li, t, 3He, t+t,6Li**

*Monday, 5 November 2018 11:00 (20 minutes)*

**Presenter:** Dr PARIS, Mark (LANL T-2)

**Session Classification:** CSEWG



Contribution ID: 179

Type: **not specified**

**TSLs: H(in heavy paraffinic oil), F Li Be (in FLiBe), Al  
O (in Al<sub>2</sub>O<sub>3</sub>), H(UH<sub>3</sub>), and H(PuH<sub>2</sub>).**

*Monday, 5 November 2018 11:40 (20 minutes)*

**Presenters:** Prof. HAWARI, Ayman (North Carolina State University); Dr ZERKLE, Michael (Bettis Atomic Power Laboratory)

**Session Classification:** CSEWG

Contribution ID: **180**

Type: **not specified**

## **Goals of evaluation session and feedback received on B-VIII.0**

*Monday, 5 November 2018 09:10 (10 minutes)*

**Presenter:** Dr CHADWICK, Mark (Lanl)

**Session Classification:** CSEWG

Contribution ID: **181**

Type: **not specified**

## **U-235 and Pu-239 prompt fission neutron spectra measurements from Chi-Nu at LANSCE**

*Wednesday, 7 November 2018 09:00 (15 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: **182**

Type: **not specified**

## **Status update on NZ reaction studies at LANSCE**

*Wednesday, 7 November 2018 09:15 (15 minutes)*

**Presenter:** LEE, Hye Young (LANL)

**Session Classification:** CSEWG

Contribution ID: **183**

Type: **not specified**

## **ORNL neutron cross section measurements for the US Nuclear Criticality Safety Program**

*Wednesday, 7 November 2018 09:30 (15 minutes)*

**Presenter:** Dr GUBER, Klaus (Oak Ridge National Laboratory)

**Session Classification:** CSEWG

Contribution ID: **184**

Type: **not specified**

## **Nuclear Data Measurements and Analysis at RPI**

*Wednesday, 7 November 2018 09:45 (15 minutes)*

**Presenter:** Prof. DANON, Yaron (Rensselaer Polytechnic Institute)

**Session Classification:** CSEWG

Contribution ID: **185**

Type: **not specified**

## **NNL Nuclear Data Measurements and Analysis at RPI**

*Wednesday, 7 November 2018 10:00 (15 minutes)*

**Presenter:** BARRY, Devin (Knolls Atomic Power Laboratory)

**Session Classification:** CSEWG

Contribution ID: **186**

Type: **not specified**

## **Decay Data Measurements for Applications**

*Wednesday, 7 November 2018 10:15 (15 minutes)*

**Presenter:** MCCUTCHAN, Elizabeth (BNL)

**Session Classification:** CSEWG



Contribution ID: **187**

Type: **not specified**

## **Neutron Cross Sections at UKAL: C, Si, Li, F**

*Wednesday, 7 November 2018 10:45 (15 minutes)*

**Presenter:** RAMIREZ, Anthony Paul (University of Kentucky)

**Session Classification:** CSEWG

Contribution ID: **188**

Type: **not specified**

## **Nuclear Data Measurements from LBNL and UC-Berkeley**

*Wednesday, 7 November 2018 11:00 (15 minutes)*

**Presenter:** MORRELL, Jonathan (University of California, Berkeley)

**Session Classification:** CSEWG

Contribution ID: **189**

Type: **not specified**

## **EXFOR status report**

*Wednesday, 7 November 2018 11:15 (15 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: **190**

Type: **not specified**

## **Recent work on neutron cross section standards**

*Wednesday, 7 November 2018 11:30 (15 minutes)*

**Presenter:** Dr CARLSON, Allan (NIST)

**Session Classification:** CSEWG

Contribution ID: **191**

Type: **not specified**

## **Internal Conversion Coefficients Precision Measurements**

*Wednesday, 7 November 2018 11:45 (15 minutes)*

**Presenter:** Dr NICA, NINEL (TEXAS A&M UNIVERSITY, CYCLOTRON INSTITUTE)

**Session Classification:** CSEWG

Contribution ID: **192**

Type: **not specified**

## **Feedback from RPSD-2018**

*Monday, 5 November 2018 16:00 (20 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: 193

Type: **not specified**

## **Assessment of ENDF/B-VIII.0 and TENDL-2015 Evaluated Nuclear Data Libraries Using Stellar Nucleosynthesis Modeling**

*Monday, 5 November 2018 16:20 (15 minutes)*

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

**Session Classification:** CSEWG

Contribution ID: **194**

Type: **not specified**

## **NNL Special-Purpose (alpha,n) Evaluations**

*Monday, 5 November 2018 13:00 (20 minutes)*

**Presenter:** Dr ZERKLE, Michael (Bettis Atomic Power Laboratory)

**Session Classification:** CSEWG



Contribution ID: 195

Type: **not specified**

## **WANDA topic discussions, prioritization and session lead candidate selection**

*Wednesday, 7 November 2018 16:45 (1h 15m)*

**Presenter:** Dr BERNSTEIN, Lee (LBNL/UCB)

**Session Classification:** WANDA

Contribution ID: **196**

Type: **not specified**

## **Review of NDREW and WANDA Goals**

*Wednesday, 7 November 2018 16:00 (45 minutes)*

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

**Session Classification:** WANDA

Contribution ID: **197**

Type: **not specified**

## **Discussion**

**Session Classification:** WANDA

Contribution ID: **198**

Type: **not specified**

## **Just 1 slide**

*Tuesday, 6 November 2018 10:25 (2 minutes)*

**Presenter:** MATTOON, Caleb (Lawrence Livermore National Lab)

**Session Classification:** CSEWG

Contribution ID: **199**

Type: **not specified**

## **Code Development (Java ruler/ensdf consistency)**

**Presenter:** Dr CHEN, Jun (NSCL/MSU)

Contribution ID: **200**

Type: **not specified**

## **Code Development (Java ruler/ensdf consistency)**

*Friday, 9 November 2018 17:30 (30 minutes)*

**Presenter:** Dr CHEN, Jun (NSCL/MSU)

**Session Classification:** USNDP

Contribution ID: **201**

Type: **not specified**

## **Consistency of labeling the configurations**

*Friday, 9 November 2018 18:00 (20 minutes)*

**Presenter:** Dr KONDEV, Filip (Argonne National Laboratory)

**Session Classification:** USNDP

Contribution ID: **202**

Type: **not specified**

## Q Record

*Friday, 9 November 2018 18:20 (15 minutes)*

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

**Session Classification:** USNDP



Contribution ID: **203**

Type: **not specified**

## **Open Discussion**

*Friday, 9 November 2018 18:35 (15 minutes)*

**Session Classification:** USNDP

Contribution ID: **204**

Type: **not specified**

## **SPECTRA Code development**

*Friday, 9 November 2018 19:00 (1 hour)*

**Presenter:** MOUGEOT, Xavier (CEA)

**Session Classification:** USNDP

Contribution ID: 205

Type: **not specified**

## **Incomplete decay data sets**

*Friday, 9 November 2018 20:00 (10 minutes)*

**Presenter:** Dr KONDEV, Filip (Argonne National Laboratory)

**Session Classification:** USNDP

Contribution ID: **206**

Type: **not specified**

## **Open Discussion-2**

*Friday, 9 November 2018 20:10 (40 minutes)*

**Session Classification:** USNDP

Contribution ID: **207**

Type: **not specified**

## **Consisten inclusion of XUNDL into ENSDF**

*Friday, 9 November 2018 21:00 (10 minutes)*

**Presenter:** TULI, Jagdish (NNDC)

**Session Classification:** USNDP

Contribution ID: **208**

Type: **not specified**

## **NSR Ststus**

*Friday, 9 November 2018 21:10 (10 minutes)*

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

**Session Classification:** USNDP

Contribution ID: **209**

Type: **not specified**

## **Venue for followup workshop (needed?/objectives**

*Friday, 9 November 2018 21:20 (5 minutes)*

**Presenter:** Prof. KELLEY, John (NCSU & TUNL)

**Session Classification:** USNDP

Contribution ID: **210**

Type: **not specified**

## **ENSDF and NDS data analysis for future directions**

*Friday, 9 November 2018 21:25 (20 minutes)*

**Presenter:** Dr BASUNIA, Shamsuzzoha (LBNL)

**Session Classification:** USNDP



Contribution ID: **211**

Type: **not specified**

## **Open Discussion-3**

*Friday, 9 November 2018 21:45 (20 minutes)*

**Session Classification:** USNDP