Session Program

Nov 4 – 8, 2019

US National Nuclear Data Week 2019 (CSEWG-USNDP-NDAG)

CSEWG

Berkner Hall
Brookhaven National Lab

Mon, November 4

9:00 AM

CSEWG: Welcome

Session | **Location:** Berkner, B | **Conveners:** Brown David, Dr Alejandro Sonzogni

9:00 – 9:10 AM **Welcome**

Speakers
Dr Alejandro Sonzogni, Dr Dave Brown

9:10 AM

9:10 AM

CSEWG: Validation Committee

Session | **Location:** Berkner | **Conveners:** Dr Michael Zerkle, Dr Andrej Trkov

9:10 – 9:25 AM
Status of astrophysical abundances and rates calculation using ENDF/B libraries

Speaker
Dr Boris Pritychenko

9:25 – 9:40 AM
CASL VERA benchmark results with ENDF/B-VII.1 and VIII.0 for Pressurized Water Reactors

Speaker
Kang Seog Kim

9:40 – 9:55 AM **Data validation for fusion neutronics**

Speaker
Tim Bohm

9:55 – 10:10 AM
Energy-dependent Bias between ENDF/B-VII.1 and ENDF/B-VIII.0 for LCT Benchmarks

Speaker
William Marshall

10:10 – 10:25 AM
CSEWG Validation – Contribution from the IAEA (Validation of codes for ACE libraries, LCT Benchmark analysis)

Speaker
Dr Andrej Trkov

10:25 – 10:35 AM **Break**

10:35 – 10:50 AM
Impact of the ENDF/B-VIII.0 Library on Modeling Nuclear Tools for Oil Exploration

Speaker
Marie-Laure Mauborgne

10:50 – 11:05 AM
Validation of H-H O at Elevated Temperatures 2 using Diffusion Experiments

Speaker
Dr Michael Zerkle

11:05 – 11:15 AM **Status of gitlab migration and ADVANCE CI/CD system for ENDF**

Speakers
Brown David, Ramon Arcilla

11:15 – 11:25 AM **Problems with 16O(n,n'a) gammas**

Speaker
Dr Dave Brown

11:25 – 11:40 AM **Beta-effective benchmarks**

Speaker
David Heinrichs

11:40 AM – 12:00 PM
Evolution of the ICSBEP and the Need for Modern Benchmarks and Experiments

Speaker
Catherine Percher

12:00 PM

12:00 PM

CSEWG: Executive Committee

Session | **Location:** TBD | **Convener:** Dr Alejandro Sonzogni

1:00 PM

1:00 PM

CSEWG: Validation Committee (overflow)

Session | **Location:** Berkner, B | **Conveners:** Dr Michael Zerkle, Dr Andrej Trkov

1:00 – 1:15 PM
GNDS implementation update: results of TNSL and heated URRPT testing

Speaker
Dr Marie-Anne Descalle

1:15 PM

1:15 PM

CSEWG: Measurements Committee

Session | **Location:** Berkner, B | **Convener:** Prof. Yaron Danon

1:15 – 1:45 PM
LENZ Measurement of the 16O(n,al) Reaction and a Chi-Nu Status Update

Speaker
Hye Young Lee

1:45 – 1:55 PM **Measurement of the 35Cl(n,p)35S Reaction Cross Section at LANSCE**

Speaker
Sean Kuvin

1:55 – 2:05 PM
Recent Experimental Activities at LANSCE on Pt Capture Cross Sections

Speaker
Cathleen Fry

2:05 – 2:15 PM
The SREFT (Spatially REsolving Fission Tracker) Time Projection Chamber

Speaker
Esther Leal Cidoncha

2:15 – 2:35 PM
ORNL neutron cross section measurements for the US Nuclear Criticality Safety Program

Speaker
Dr Klaus Guber

2:35 – 2:55 PM **Experimental Activities at LBNL**

Speaker
Dr Lee Bernstein

2:55 – 3:10 PM **Break**

3:10 – 3:30 PM **Nuclear data measurements carried at TUNL**

Speaker
Fnu Krishichayan

3:30 – 4:00 PM **Nuclear data measurement and analysis at RPI**

Speaker
Prof. Yaron Danon

4:00 – 4:20 PM **Recent work on neutron standards data**

Speaker
Dr Allan Carlson

4:20 – 4:40 PM **Current status of EXFOR**

Speaker
Dr Boris Pritychenko

4:40 – 5:00 PM **Measurements of branching ratios in U-238**

Speaker
Elizabeth McCutchan

5:15 PM

Tue, November 5

8:25 AM

CSEWG: Covariance Committee

Session | **Location:** Berkner | **Convener:** Dr Denise Neudecker

8:35 – 8:50 AM **Covariance Analysis of Experimental Shape Data**

Speaker
Keegan Kelly

8:50 – 9:10 AM
CSEWG Initiative of Establishing Templates of Expected Measurement Uncertainties

Speaker
Dr Denise Neudecker

9:10 – 9:15 AM **isotope production charged particle templates**

Speaker
Dr Lee Bernstein

9:15 – 9:25 AM **Templates of Expected Measurement Uncertainties and EXFOR**

Speaker
Ms Amanda Lewis

9:25 – 9:30 AM **Discussion Time on Templates**

9:30 – 9:50 AM **Unrecognized Sources of Uncertainties**

Speaker
Roberto Capote

9:50 – 10:10 AM **Summary of SG44 and TSL Covariance Format**

Speaker
Dr Vladimir Sobes

10:10 – 10:25 AM **Current Official GNDS Covariance Format and Format Proposals**

Speaker
Caleb Mattoon

10:25 – 10:35 AM **Break**

10:35 – 10:50 AM **Issues in ENDF/B-VIII.0 GNDS Covariances**

Speaker
Dorothea Wiarda

10:50 – 11:05 AM **Mu-bar covariances, Importance and Issues in ENDF/B-VIII.0**

Speaker
Kent Parsons

11:05 – 11:10 AM **Discussion Time on Formats and Issues**

11:10 – 11:25 AM **Covariances Between Fission Observables Coming from Theory**

Speaker
Ramona Vogt

11:25 – 11:40 AM

Standardizing a Renewed Fission Product Yield Library and Related Covariances

Speaker
Dr Marco Pigni

11:40 – 11:55 AM

Bayesian MC Evaluation Framework for Differential and Integral Data

Speaker
Goran Arbanas

12:00 PM

1:00 PM

CSEWG: Evaluation Committee (neutrons & photonuclear)

Session | **Location:** Berkner | **Conveners:** Dr Mark Chadwick, Patrick Talou

1:00 – 1:15 PM **Be9 photonuclear evaluation**

Speaker
Jason Thompson

1:15 – 1:35 PM **Plutonium isotopes**

Speaker
Patrick Talou

1:35 – 1:50 PM **R-matrix evaluation of actinides**

Speaker
Dr Marco Pigni

1:50 – 2:05 PM **Evaluations at IRSN**

Speaker
Luiz Leal

2:05 – 2:20 PM **Angular and energy distribution evaluations for 62 N,Z reactions**

Speaker
Hye Young Lee

2:20 – 2:35 PM **U isotope evaluations and 208Pb**

Speaker
Ionel Stetcu

2:35 – 2:50 PM **Status of Cr evaluations**

Speaker
Dr Gustavo Nobre

2:50 – 2:55 PM **Summary of RQ Wright nubar evaluations for Cf, U, Pu, Am isotopes**

2:55 – 3:00 PM **7Li and α Production – do we need an LR flag for MT=102?**

Speakers
Dr Andrej Trkov, Dr Skip Kahler

3:00 PM

3:20 PM

CSEWG: Evaluation Committee (FPY & decay)

Session | **Location:** Berkner, B | **Convener:** Toshihiko Kawano

3:20 – 3:50 PM Current status of evaluation for ENDF FPY data sublibrary

Speaker
Toshihiko Kawano

3:50 – 4:10 PM A Method for Generation of Fission Yield Covariance Matrices

Speaker
Eric Matthews

4:10 – 4:30 PM Fission Product Chain Yield Measurements

Speakers
Bruce Pierson, Dr Todd Bredeweg

4:30 – 4:50 PM Update of the compilation effort at BNL

Speaker
Andrea Mattera

4:50 – 5:10 PM A new evaluation of the 147Nd beta-minus decay

Speaker
Balraj Singh

5:10 – 5:30 PM Cumulative fission yield correlations

Speaker
Dr Alejandro Sonzogni

5:30 – 5:45 PM LLNL Efforts on FPY Evaluations

Speaker
Ramona Vogt

5:45 PM

Wed, November 6

9:00 AM

CSEWG: Formats & Processing Committee

Session | **Location:** Berkner | **Conveners:** Dorothea Wiarda, Michael Dunn

9:00 – 9:10 AM

ENDF-102 Clarification for Discrete Gamma Emission (Tracker #1155)

Speaker
Dr Bret Beck

9:10 – 9:25 AM

Proposal to Include a “Background” R-matrix Term in the LRF=7 Format (Tracker #1151)

Speaker
Jesse Brown

9:25 – 9:30 AM

Format proposal: CODATA2018

Speaker
Dr Jeremy Conlin

9:30 – 9:40 AM

Define relativistic flag (KRL) in LRF=7

Speakers
Dr Ian Thompson, Dr Mark Paris

9:40 – 9:55 AM

SAMMY Code Report

Speaker
Dorothea Wiarda

9:55 – 10:00 AM

PREPRO2019 Processing Code Release

Speaker
Michael Dunn

10:00 – 10:10 AM

New MT's to support IRDFF

Speaker
Dr Andrej Trkov

10:10 – 10:30 AM

NJOY Processing Code Report

Speaker
Dr Jeremy Conlin

10:30 – 10:50 AM

AMPX Processing Code Report

Speaker
Dorothea Wiarda

10:50 – 11:10 AM

FUDGE Processing Code Report

Speaker
Caleb Mattoon

11:10 – 11:25 AM **Break**

11:25 – 11:40 AM **EG-GNDS Status Report**

Speaker
Brown David

11:40 – 11:55 AM **SG-43 Status Report**

Speaker
Dr Jeremy Conlin

11:55 AM – 12:00 PM **ENDF Manual Update**

Speaker
Brown David

12:00 PM

1:00 PM

CSEWG: Evaluation Committee (ML, TSL, CP)

Session | **Location:** Berkner, B | **Conveners:** Dr Mark Chadwick, Patrick Talou

1:00 – 1:15 PM **Validating nuclear data by means of machine learning methods**

Speaker
Dr Denise Neudecker

1:15 – 1:30 PM **Los Alamos ARCHIMEDES Project**

Speaker
Robert Little

1:30 – 1:45 PM **New paradigm for nuclear data evaluation**

Speaker
Dr Mike Herman

1:45 – 2:00 PM
ENDF as a Gaussian Process Regression model and the ENDF Belief Network

Speaker
Dr Dave Brown

2:00 – 2:15 PM **TSL Evaluations**

Speaker
Prof. Ayman Hawari

2:15 – 2:30 PM **TSL Evaluations**

Speaker
Chris Chapman

2:30 – 2:45 PM **TN Evaluations**

Speaker
Dr Mark Paris

2:45 – 3:00 PM **Charged particle evaluations**

Speaker
Dr Ian Thompson

3:00 PM

3:20 PM

CSEWG: Evaluation Committee (yet more evaluations!)

Session | **Location:** Berkner, B | **Convener:** Patrick Talou

3:20 – 3:30 PM **Evaluation and Validation of the α+17,18O Cross Sections**

Speaker
Dr Marco Pigni

3:30 PM