



**NUCLEAR CRITICALITY SAFETY PROGRAM (NCSP)
TECHNICAL PROGRAM REVIEW
February 15-17, 2022
Hosted by: Oak Ridge National Laboratory
Virtual Meeting**

AGENDA

Time (Pacific)	Time (Mountain)	Time (Central)	Time (Eastern)	Time (GMT)	NCSP SITE	TOPIC/PRESENTATION TITLE	PRESENTER	DURATION (Min.)
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Tuesday, February 15, 2022

6:00	7:00	8:00	9:00	14:00	NCSP	Welcome from NCSP	Angela Chambers	0:15
6:15	7:15	8:15	9:15	14:15	NCSP	The DOE/NNSA Nuclear Criticality Safety Program and the Purpose of the Technical Program Review	Doug Bowen	0:10
6:25	7:25	8:25	9:25	14:25	NCSP	The DOE CSSG: 2021 the Year in Review	Mikey Brady	0:10

NCSP MANAGER INVITED SITE REPORTS

6:35	7:35	8:35	9:35	14:35	LANL		Joetta Goda	0:15
6:50	7:50	8:50	9:50	14:50	LLNL		Catherine Percher	0:15
7:05	8:05	9:05	10:05	15:05	MSTS		Sylvia Wright-Reeder	0:15
7:20	8:20	9:20	10:20	15:20	ORNL	TASK MANAGER DISCUSSIONS ON THE FOLLOWING TOPICS: 1. FY21 Budget Summary, 2. FY21 spending data and break down, 3. Provide 8 highlights for FY21, 4. Highlights for the technical talks to be given at this TPR, and 5. COVID-19 impacts to NCSP work	Doug Bowen	0:15
7:35	8:35	9:35	10:35	15:35	RPI		Yaron Danon	0:15
7:50	8:50	9:50	10:50	15:50	SNL		Gary Harms	0:15
8:05	9:05	10:05	11:05	16:05	SRS		David Erickson	0:15
8:20	9:20	10:20	11:20	16:20	Y-12		Kevin Reynolds	0:15
8:35	9:35	10:35	11:35	16:35	BNL		David Brown	0:15

8:50	9:50	10:50	11:50	16:50		Break		0:20
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INTERNATIONAL COLLABORATIONS

9:10	10:10	11:10	12:10	17:10	AWE	NCSP – AWE Collaboration	Matthew Harker	0:20
9:30	10:30	11:30	12:30	17:30	OECD- NEA	Update on activities in the NEA Nuclear Science Committee relevant to the NCSP	Julie-Fiona Martin	0:20
9:50	10:50	11:50	12:50	17:50	JRC/GEEL	Nuclear Data Activities at JRC Geel	Peter Schillebeeckx	0:20
10:10	11:10	12:10	13:10	18:10	CEA	Update of CEA DES Criticality-Safety Activities and Perspectives	Jean-Christophe Trama, Coralie Carmouze	0:20
10:30	11:30	12:30	13:30	18:30	IRSN	IRSN Work in Support of NCSP : FY2021 and Plan for Future	Sophie Pignet	0:20

10:50	11:50	12:50	13:50	18:50		Lunch		1:00
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FY21 ANALYTICAL METHODS TECHNICAL PRESENTATIONS

11:50	12:50	13:50	14:50	19:50	LLNL	TNSL improvements in FUDGE	Caleb Mattoon	0:20
12:10	13:10	14:10	15:10	20:10	LANL	Nuclear Data Activities Supporting MCNP	Jeremy Conlin	0:20



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12:30	13:30	14:30	15:30	20:30	LANL/RPI	Adaptive-in-temperature method for fast on-the-fly sampling of thermal neutron scattering data in MCNP6	Wei Ji (RPI)	0:20
12:50	13:50	14:50	15:50	20:50	LANL	Update on Covariance Data Testing Strategy at LANL	Nathan Gibson	0:20
13:10	14:10	15:10	16:10	21:10	LANL	NJOY Work in FY21	Wim Haeck	0:20
13:30	14:30	15:30	16:30	21:30	LANL	FY21 MCNP Updates for the Nuclear Criticality Safety Program	Mike Rising	0:20
13:50	14:50	15:50	16:50	21:50	Break			0:20
14:10	15:10	16:10	17:10	22:10	ORNL	Radiation Safety Information Computational Center (RSICC)	Tim Valentine	0:30
14:40	15:40	16:40	17:40	22:40	ORNL	AMPX Developments	Andrew Holcomb	0:20
15:00	16:00	17:00	18:00	23:00	ORNL	Expansion of the Verified, Archived, Library of Inputs and Data (VALID)	William B.J. Marshall	0:20
15:20	16:20	17:20	18:20	23:20	ORNL/MIT	Temperature-Dependent Propagation of Resonance Parameter Uncertainty	Isaac Meyer	0:20
15:40	16:40	17:40	18:40	23:40	ORNL	SCALE AM2 Accomplishments in FY21	William Wieselquist	0:20
16:00	17:00	18:00	19:00	0:00	END OF TUESDAY TPR PRESENTATIONS			
Wednesday, February 16, 2022								
FY21 ANALYTICAL METHODS TECHNICAL PRESENTATIONS (Continued)								
6:00	7:00	8:00	9:00	14:00	IRSN	Status of the Slide Rule Update - Phase 4 Plutonium Configurations – Delayed Gamma	Johann Herth	0:20
FY21 INFORMATION PRESERVATION AND DISSEMINATION TECHNICAL PRESENTATIONS								
6:20	7:20	8:20	9:20	14:20	ORNL	FY21 Progress of the Oak Ridge Health Physics Reactor CAAS Benchmark Evaluation	Mathieu Dupont	0:20
6:40	7:40	8:40	9:40	14:40	SRS	CritView Database Expansion	Scott Finrock	0:20
FY21 INTEGRAL EXPERIMENTS TECHNICAL PRESENTATIONS								
7:00	8:00	9:00	10:00	15:00	LANL	EUCLID: Experiments Underpinned by Computational Learning for Improvements in Nuclear Data	Jesson Hutchinson	0:20
7:20	8:20	9:20	10:20	15:20	LANL	IER 557: Godiva IV Reproducibility/Characterization	Joetta Goda	0:20
7:40	8:40	9:40	10:40	15:40	LANL	IER 537: CERBERUS – Copper Critical Experiment Design	Kelsey Amundson	0:20
8:00	9:00	10:00	11:00	16:00	LANL	IER 488: MUSIC Accomplishments and Goals	Rob Weldon	0:20
8:20	9:20	10:20	11:20	16:20	Break			0:20
8:40	9:40	10:40	11:40	16:40	LANL	Chlorine Worth Study in Support of PF-4 Operations	Travis Grove, Theresa Cutler	0:20
9:00	10:00	11:00	12:00	17:00	LANL	IER 517: Molybdenum Critical Experiment Design	Cole Kostelac	0:20
9:20	10:20	11:20	12:20	17:20	LLNL	Critical Configurations for IER 480: Thermal Epithermal eXperiments (TEX) Plutonium Experiments to Test New Thermal Scattering Laws	Catherine Percher	0:20
9:40	10:40	11:40	12:40	17:40	LLNL	IER 501: Pulsed Neutron Die-Away Experiments at LLNL	Daniel Siefman	0:20
10:00	11:00	12:00	13:00	18:00	LLNL	IER-297: TEX-HEU Baseline Assemblies Benchmark and Results	Jesse Norris	0:20
10:20	11:20	12:20	13:20	18:20	Lunch			1:00



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11:20	12:20	13:20	14:20	19:20	ORNL	FY21 ORNL Integral Experiment Work	Justin Clarity	0:20
11:40	12:40	13:40	14:40	19:40	SNL	IER-441: Preparations for 7uPCX Experiments Targeting Epithelial Cross Sections of Tantalum.	David Ames	0:20
12:00	13:00	14:00	15:00	20:00	SNL	NCSP Integral Experiments at Sandia in FY21	Gary Harms	0:20
12:20	13:20	14:20	15:20	20:20	SNL	IER-523: Feasibility of Experiments Focused on Measuring the Effects of UO ₂ -BeO Material on Critical Configurations using 7uPCX	David Ames	0:20
FY21 TRAINING AND EDUCATION TECHNICAL PRESENTATIONS								
12:40	13:40	14:40	15:40	20:40	ORNL	ORNL NCSP Training and Education Support for FY 2021	Doug Bowen	0:20
13:00	14:00	15:00	16:00	21:00	LLNL	NCS Pipeline UC Berkeley Course Overview	Shauntay Coleman	0:20
13:20	14:20	15:20	16:20	21:20	LANL	University Pipeline (with UNM) for Criticality Safety Professionals	Norann Calhoun	0:20
13:40	14:40	15:40	16:40	21:40	Break			0:20
FY21 NUCLEAR DATA TECHNICAL PRESENTATIONS								
14:00	15:00	16:00	17:00	22:00	BNL	Automating neutron resonances classification with Machine-Learning	Gustavo Nobre	0:20
14:20	15:20	16:20	17:20	22:20	LLNL	Parallel-Plate Avalanche Counter (PPAC) Fabrication for 240Pu PFNS Measurement	Ching-Yen Wu	0:20
14:40	15:40	16:40	17:40	22:40	LANL	Modeling and evaluating 239Pu and 235U PFNS and average prompt-neutron multiplicity	Denise Neudecker, Amy Lovell	0:30
15:10	16:10	17:10	18:10	23:10	LANL	²³³ U(n,y) measurements at LANSCE	Esther Leal Cidoncha, Aaron Couture	0:20
15:30	16:30	17:30	18:30	23:30	END OF WEDNESDAY TPR PRESENTATIONS			
Thursday, February 17, 2022								
FY21 NUCLEAR DATA TECHNICAL PRESENTATIONS (Continued)								
6:00	7:00	8:00	9:00	14:00	ORNL	Resolved Resonance Region Evaluation Update of ^{140,142} Ce	Chris Chapman	0:20
6:20	7:20	8:20	9:20	14:20	ORNL	Advances in Nuclear Data Evaluation Theory for NCSP	Goran Arbanas	0:20
6:40	7:40	8:40	9:40	14:40	ORNL	SAMMY Modernization Status	Dorothea Wiarda	0:20
7:00	8:00	9:00	10:00	15:00	ORNL	Bayesian Monte Carlo Evaluation Framework: New Methods for Resonance Parameter Evaluation	Jesse Brown	0:20
7:20	8:20	9:20	10:20	15:20	ORNL	Updates to the n+63,65Cu Angular Distributions for Critical Experiments	Jordan McDonnell	0:20
7:40	8:40	9:40	10:40	15:40	ORNL	ORNL Neutron Cross Section Measurements of 90Zr NCSP ND-1 Task	Klaus Guber	0:20
8:00	9:00	10:00	11:00	16:00	ORNL	Progress on Fissile Actinides Evaluations: 233, 235U and 239Pu	Marco Pigni	0:20
8:20	9:20	10:20	11:20	16:20	ORNL	Thermal Neutron Scattering Research at ORNL	Chris Chapman	0:20
8:40	9:40	10:40	11:40	16:40	ORNL	Ta-181 Evaluation in the Unresolved Resonance Region	Jesse Brown	0:20
9:00	10:00	11:00	12:00	17:00	Break			0:20



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9:20	10:20	11:20	12:20	17:20	RPI	NCSP Related Nuclear Data Research at RPI	Yaron Danon	0:10
9:30	10:30	11:30	12:30	17:30	RPI	Thermal Neutron Cross Section Measurements at the RPI LINAC	Dominik Fritz	0:20
9:50	10:50	11:50	12:50	17:50	RPI	Neutron Capture and Transmission Measurements of ⁵⁴ Fe at the RPI LINAC	Sukhjinder Singh	0:20
10:10	11:10	12:10	13:10	18:10	LANL	Update on ¹⁷ O evaluation and fast neutron evaluation for ¹⁸¹ Ta	Mike Herman, Mark Paris	0:20
10:30	11:30	12:30	13:30	18:30	ORNL	Horizontal Split Table Conceptual Design for Validation of Nuclear Data used in Advanced Reactors	Mathieu Dupont	0:20
10:50	11:50	12:50	13:50	18:50	NCSU	Progress of Thermal Neutron Scattering Research at NCSU	Ayman Hawari	0:20
11:10	12:10	13:10	14:10	19:10		Final Remarks	Angela Chambers	0:05
11:15	12:15	13:15	14:15	19:15	END OF THURSDAY TPR PRESENTATIONS			