Monday September 18

Start time	*End time*	*Ttitle*	*Speaker*	*Length*
9:00	9:30	Check in		0:30
9:30	9:40	Introduction and announcements		0:10
9:40	9:55	Opening remarks	Jess Gehin	0:15
9:55	10:35	MCNP6 Developments: A 2022-23 Year in Review	Michael Rising	0:40
10:35	10:50	***Break***		0:15
MCNP History and Fusion Applications				
10:50	11:20	The History of MCNP and around 20 Related Codes	Colin Josey	0:30
11:20	11:40	Challenges of Increasingly Large and Complex Fusion Neutronics Models	Kara Godsey	0:20
11:40	12:00	Forward Modelling of Gas Cherenkov Detectors for Inertial Confinement Fusion Using MCNP	Robert Dwyer	0:20
12:00	13:30	***Lunch***		1:30
Plotting and Tools				
13:30	13:50	ViMMCNP	Daniel Jabaay	0:20
13:50	14:10	New Graphical Plotter Available with MCNP6.3	Cole Frederick	0:20
14:10	14:35	easy_pert: A python tool for using the PERT card to compute fixed-source sensitivities to nuclear data	Alexander Clark	0:25
14:35	14:50	***Break***		0:15
Unstructured Mesh and CAD I				
14:50	15:15	Preliminary Investigation of Utilizing Hierarchical Void Cells in MCNP Simulations	Moataz Harb	0:25
15:15	15:35	Creating and Using HDF5 Unstructured Mesh Inputs in MCNP	Matthew Earl	0:20
15:35	16:00	Oktavian Modeling with MCNP6.3	Micky Dzur	0:25

No-Host Welcome Reception at Bathtub Row Brewing (4:30-6pm)

Tuesday September 19

Start time	*End time*	*Ttitle*	*Speaker*	*Length*
9:00	9:10	Announcements		0:10
Transport Methods and Statistics				
9:10	9:30	Correlated Sampling for Fixed-Source Problems Using MCNP's Tally Fluctuation Chart	Jeffrey Favorite	0:20
9:30	9:55	Reassessing the MCNP Random Number Generator	Colin Josey	0:25
9:55	10:25	Monte Carlo or Monty Karlow?	Joel Kulesza	0:30
10:25	10:40	Computational scheme for propagating the stochastic uncertainty in coupled MC radiation transport simulations	Javier Alguacil	0:15
10:40	10:55	***Break***		0:15
Tools				
10:55	11:15	DRiFT: An MCNP Post-Processing Tool for High-Fidelity Modeling	Austin Mullen	0:20
11:15	11:35	Preliminary Implementation of HPGe Response into DRiFT	Corey Ahl	0:20
11:35	12:00	Cyclone: Tools and Features for Monte Carlo Analysis	Daniel Cork	0:25
12:00	13:30	***Lunch***		1:30
Data and Physics				
13:30	13:50	Generating multigroup cross section libraries for MCNP	Olaf Schumann	0:20
13:50	14:20	Validation of the single-event method and EPRDATA14 library for low-energy electron transport via stopping power calculations	Michael Lively	0:30
14:20	14:40	Distribution and Use of ACE Nuclear Data Files in MCNP	Noah Kleedtke	0:20
14:40	14:55	***Break***		0:15
14:55	15:25	What is nuclear data evaluation?	Denise Neudecker	0:30
15:25	15:45	Processing MCNP libraries with NJOY and the road to a modern data processing system	Wim Haeck	0:20
15:45	16:15	Processing MCNP libraries with NJOY and the road to a modern data processing system	Bobbi Riedel	0:30

Wednesday September 20

Start time	*End time*	*Ttitle*	*Speaker*	*Length*
9:00	9:10	Announcements		0:10
Unstructured Mesh and CAD II				
9:10	9:25	Underground Nuclear Explosions and Activation Analysis	Esteban Gonzalez	0:15
9:25	9:50	Athena-I Modelling with MCNP6.3	Bradley Gladden	0:25
9:50	10:10	CottonwoodTM: The New Attila4MC® Deterministic Solver for CADIS and FW-CADIS Variance Reduction supporting the MCNP® Unstructured Mesh (MCNP-UM)	Andrew Cooper	0:20
10:10	10:25	***Break***		0:15
Performance				
10:25	10:55	Observing MCNP Calculation and Runtime Performance on Edge Supercomputing	Victor Kuhns	0:30
10:55	11:25	MCNP6.3 Executions in Parallel on Snow	Jerawan Armstrong	0:30
11:25	12:00	MCNP6.2 and MCNP6.3 Performance Comparison	Jeffrey Bull	0:35
12:00	13:30	***Lunch***		1:30
Criticality				
13:30	13:55	Computing upper subcritical limits via Whisper using ENDF/B-VIII.0 nuclear data	Alexander Clark	0:25
13:55	14:25	Validation of New MCNP6.3 Features for Critical and Subcritical Benchmark Simulations	Michael Rising	0:30
14:25	14:45	Verifying LNK3DNT Feature in MCNP6	Anthony Kitamura	0:20
14:45	15:00	***Break***		0:15
15:00	16:00	Q&A Session with the MCNP team and Nuclear Data team		1:00

Dinner (5-7pm)

Thursday September 21

Start time	*End time*	*Ttitle*	*Speaker*	*Length*
8:15	8:25	Announcements		0:10
Applications and Experimental Design				
8:25	8:55	Code patches and workflow for cold and thermal neutron beam simulations	Kyle Grammer	0:30
8:55	9:15	Activation calculations with the UM model of the ORNL's Second Target Station and the RNUCS patch to MCNP6.2	Lukas Zavorka	0:20
9:15	9:30	Bridging a Gap in MCNP for Contraband and WMD Detection	Mark Derzon	0:15
9:30	9:45	***Break***		0:15
9:45	10:05	Design and performance of the shielded and compact beam-dump for the ESS DTL4 commissioning	Elena Donegani	0:20
10:05	10:20	Potential Medical Applications of Monte Carlo Code MCNP6.2 using the Adult Mesh-Type Reference Computational Phantoms from ICRP Publication 145	Sandra Oliver	0:15
10:20	10:40	Simulations of runaway electron scattering and attenuation by solid particulates for disruption mitigation in fusion reactors	Michael Lively	0:20
10:40	11:00	Closing remarks		0:20
11:00	12:00	***Lunch***		1:00
12:30	16:30	**LANSCE Tour**		4:00