

Agenda

Final

2026 MCNP® User Symposium

August 24-27, 2026

Monday, August 24, 2026

Los Alamos National Laboratory

JRO Center

TA-03, Building 0207, Jemez/Cochiti

0900 Check in

0915 Introduction & Announcements

0920 MCNP6 Developments: A Year in Review

Michael Rising

1020 Break (15 Minutes)

ACCELERATORS & EXPERIMENTAL DESIGN

1035 MCNP Simulations for ESS Linac Commissioning
Up to the Tuning Beam Dump

Elena Donegani

1055 Shielding the PSI High-Intensity Muon Beams

Eremey Valetov

1115 Boosting Ultracold Neutron Production with Low Enriched
Uranium

Marie Blatnik

1140 Benchmarking an MCNP-Native Method for Fission-Product Delayed-Gamma
Heating in ACRR Targets

Elijah Boland

SECURITY NOTICE: The following articles are prohibited on Laboratory property: firearms, explosives, and dangerous weapons, including knives with blades longer than 2.5 inches; alcoholic beverages; controlled substances; and other items prohibited by law.

The following privately owned devices are prohibited in Limited Areas and above: cell phones; smart watches; laptop or tablet computers; two-way pagers; memory devices such as thumb drives; and devices with Bluetooth or wireless connectivity, including medical devices. (Inform your host of any Bluetooth/wireless medical devices).

Photographic activity of any kind is prohibited on Laboratory property.

All vehicles and individuals on Laboratory property are subject to random inspections by the Protective Force at any time.

Purpose: 2026 MCNP® User Symposium

Institutional Host: Joel Kulesza, XCP-3, 505-487-0659

Dress: Business Casual

Technical Host: Fred Jones, XCP-3, 505-927-5322

Revised: 8/20/2026 4:15 PM

LANL Point of Contact: Shawna Laity, CEA-PRO, 903-272-0478 / Avery Cole, CEA-PRO, 505-623-1802

Accessible Meeting: If you need an accommodation for a meeting, please let the meeting organizer know.

LANL Update: 505-667-6622 or 1-877-723-4101; provides information about changes in the Laboratory schedule (i.e., closings or delays).

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1200 Lunch Break

REACTORS & CRITICALITY

- | | | |
|------|---|-----------------|
| 1330 | Updating the BURN Card for Version 6.4 of the MCNP Code | Colin Josey |
| 1400 | Impact on Whisper USL from Modern Ta Benchmark Inclusion | Elijah Bow |
| 1415 | Finding Minimum Critical Values with MCNP6 | Michael Rising |
| 1445 | Adjustment of New Thermal Fission Product Yield Evaluation to a Decay Heat Standard | Maximino Guzman |
| 1500 | Break (15 minutes) | |

DATA & PHYSICS I

- | | | |
|------|--|-----------------|
| 1515 | How to Use Errata and Non-Default Nuclear Data Files with MCNP | Noah Kleedtke |
| 1545 | Generation of Coupled Neutron-Photon Multigroup ACE Libraries | Amanda Lewis |
| 1600 | Correlated Gamma and Neutron Emission in MCNP6 | Matthew Lazaric |
| 1615 | Adjourn | |

Tuesday, August 25, 2026

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DATA & PHYSICS II

- | | | |
|------|---|------------------|
| 0900 | Continuing the NJOY Modernisation | Wim Haeck |
| 0930 | MIXMAT: Mixing Thermal Scattering Kernels in MCNP 6.3.0 | Kyle Grammer |
| 0950 | PARADIGM's Nuclear Data Improvements and Its Ties to MCNP | Denise Neudecker |
| 1015 | Break (15 min) | |

UNSTRUCTURED MESH, CAD & METHODS

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|------|--|------------------|
| 1030 | Attila4MC – Tamarack and Attila4MC/Cottonwood Latest Updates | Andy Cooper |
| 1100 | Verification of MCNP Unstructured Mesh for Uncollided Flux at Penetration Exits in Fusion Design | Avery Grieve |
| 1130 | Smoothing GSM Coalescence-Radius Transitions for Stable Tritium Activation Predictions | Vitaly Pronskikh |
| 1200 | Lunch Break | |

UNSTRUCTURED MESH & TOOLS

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|------|---|-------------------|
| 1330 | Two Recent Enhancements to MCNP Unstructured Mesh | Jerawan Armstrong |
| 1355 | Converting Abaqus Input Files into MCNP6 HDF5 Unstructured Mesh Files | Pablo Vaquer |
| 1405 | A New MCTAL Python Package in π mcnp | Michael Lively |
| 1420 | Verification and Validation of Installations of Modified Versions of MCNP | Kyle Grammer |
| 1440 | CAMEL: Conversational Agent for MCNP Exploration at Lujan | Martin Krivos |
| 1500 | Break (15 min) | |

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TRANSPORT METHODS & IMPROVEMENTS

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|------|---|---------------------|
| 1515 | Source and Tally Plugin Capability Coming in MCNP6.4 | Fred Jones |
| 1540 | Benchmarking MCNP and MCATK Implementations of Automatic Weight Window Generators | Aaron Tumalak |
| 1600 | Initialization Improvements in MCNP 6.4 | Sriram Swaminarayan |
| 1615 | Adjourn | |

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Wednesday, August 26, 2026

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SOFTWARE QUALITY, SENSITIVITY & METHODS

0900	MCNP Software Quality Assurance	Michael Rising
0920	Lessons Learned from the Help Line and the Forum	Fred Jones
0955	Source Material Density First-Order Sensitivities in Monte Carlo Codes	Jeff Favorite
1015	Insights into Machine Learning Predictions of Time-of-Flight Benchmarks	Antonio Huerta
1030	Break (15 min)	

METHODS, DETECTION & GEOMETRY

1045	Revisiting MCNP Surface-Source Write & Read Primers	Joel Kulesza
1115	MCNP6.4 New Feature Preview: Electron Current Density Tally	Jeff Bull
1145	Native STL Faceted-Surface Tracking in MCNP6 and an Automated STEP-to-MCNP Converter	Jeremy Sweezy
1215	Lunch	

COMMUNITY SESSIONS

1330	Orchestrating Resilient MCNP Workflows for Nuclear Criticality Safety	Victor Kuhns
1400	Lightning Round	MCNP User Community
1415	General Q&A with the Nuclear Data and MCNP Development Teams	Wim Haeck, Michael Rising, and Teams
1515	Closing Remarks & Adjourn	

Bradbury Science Museum

1450 Central Avenue, Los Alamos

1700	Symposium Dinner	
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Thursday, August 27, 2026

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TOURS (REGISTRATION REQUIRED)

TA-18, MANHATTAN PROJECT PARK		TA-03, BUILDING 1420, CENTER FOR INTEGRATED NANOTECHNOLOGIES TOUR (CINT)	
0830	Check in	0930	Check in
0845	Depart for MAPR Tour	0945	Depart to TA-03, Building 1420
0900	MAPR Tour	1000	Tour CINT
1100	Depart to JRO Center	1100	Depart to JRO Center
JRO Center TA-03, Building 0207		JRO Center TA-03, Building 0207	
1115	External attendees return badges; tour attendees depart	1115	External attendees return badges; tour attendees depart