



WANDA 2026

Todd Bredeweg (LANL) NDWG chair
Jo Ressler (LLNL) NDWG vice-chair
Ellen O'Brien (LANL) WANDA 2026 Program Chair
Stephanie Lyons (PNNL) WANDA 2026 Program Chair

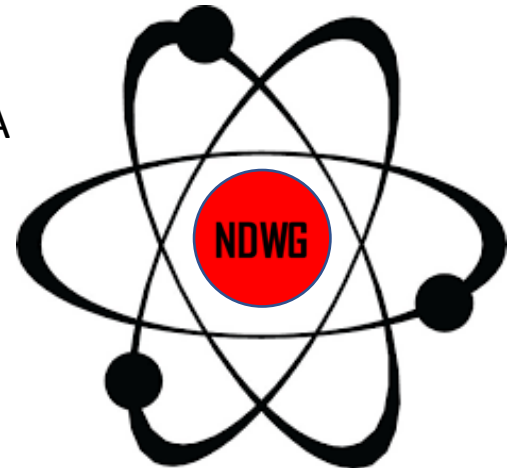
February 9-12, 2026

The Nuclear Data Working group (NDWG)

Mission Statement

The goal of the Nuclear Data Working Group (NDWG) is to facilitate communication, collaboration, coordination, and prioritization of nuclear data efforts across multiple program offices, the national laboratories, universities, and industry.

- Established in 2015.
- Primarily responsible for organizing the annual WANDA workshops and submitting the reports to the NDIAWG.
- Current leadership:
 - Todd Bredeweg (chair)
 - Jo Ressler (vice-chair)



NDWG website: <https://www.nndc.bnl.gov/ndwg/>

Nuclear Data Interagency Working Group (NDIAWG)

- Established in 2016.
- Consists of federal program managers from across the US government that invest in or require nuclear data to achieve mission objectives.
- Funds nuclear data efforts through an annual collaborative NDIAWG Notice Of Funding Opportunity announcement (NOFO), or via other mechanisms.
- Meets biannually for information exchange, identification of mutual nuclear data needs and coordination of nuclear data efforts.
- Most recent invite list included 60 federal program managers across a variety of federal agencies covering basic science, energy, national security, defense, space applications, and isotope production.

NDWG Composition

- Each programmatic NDWG member is nominated by a federal program (manager) that relies on or has an interest in funding at least some part of the nuclear data pipeline in support of their mission objectives.
- We later added national laboratory specific members, nominated by leadership from each laboratory.
- We also have a few non-voting “at large” members. Individuals who made significant contributions to the beginnings of the NDWG.
- Each NDWG member is expected to speak for the federal program or laboratory that they represent. This requires communication between the NDWG member and the program or laboratory they represent.
- WANDA topics are selected based on NDWG member input, direct input from federal programs, and feedback from past WANDA participants.

PARTNERS	NDWG Member	Organization
DOE/SC/Nuclear Physics	Lee Bernstein	LBNL
	Catherine Romano	Aerospace Corp
NNSA/DNN R&D/NA-22 Proliferation Detection	Fredrik Tovesson	ANL
NNSA/DNN R&D/NA-22 Nuclear Forensics	Todd Bredeweg	LANL
	Jason Harke	LLNL
NNSA/DNN R&D/NA-22 SNDD	Ron Soltz	LLNL
	David Gerts	LANL
NNSA/NA-511/NCSP	Mike Zerke	NNL
	Marco Pigni	ORNL
NNSA/NA-30/Naval Reactors	Mike Zerke	NNL
	Tim Trumbell	NNL
NNSA/DP/NA-113	Jo Ressler	LLNL
	Hye Young Lee	LANL
NNSA/DP/NA-114	Nathan Gibson	LANL
	Robert Casperson	LLNL
DOE/Nuclear Energy	Matthew Jesse	ORNL
	Javier Ortensi	INL
NRC	Will Wieselquist	ORNL
	Jesse Brown	ORNL
NNSA/Office of Nuclear Forensics/NA-83	Corey Keith	LANL
	Barbara Alan	LLNL
NNSA/Emergency Response/NA-82	John Koglin	LLNL
	Tyler Remedés	LANL
DOE/SC/Fusion Energy Science	Michael Loughlin	ORNL
	Paul Romano	ANL
DOE/SC/Isotope Office	Etienne Vermeulen	LANL
NIST	Brian Zimmerman	NIST
US Nuclear Data Program	Dave Brown	BNL
NNSA/Nuclear Safeguards and Security/NA-24	Ramkumar Venkataraman	ORNL
Missile Defense Agency/Rad Hardness	Courtney Matzkind	MDA

NDWG Roster as of January 2026

49 total Members

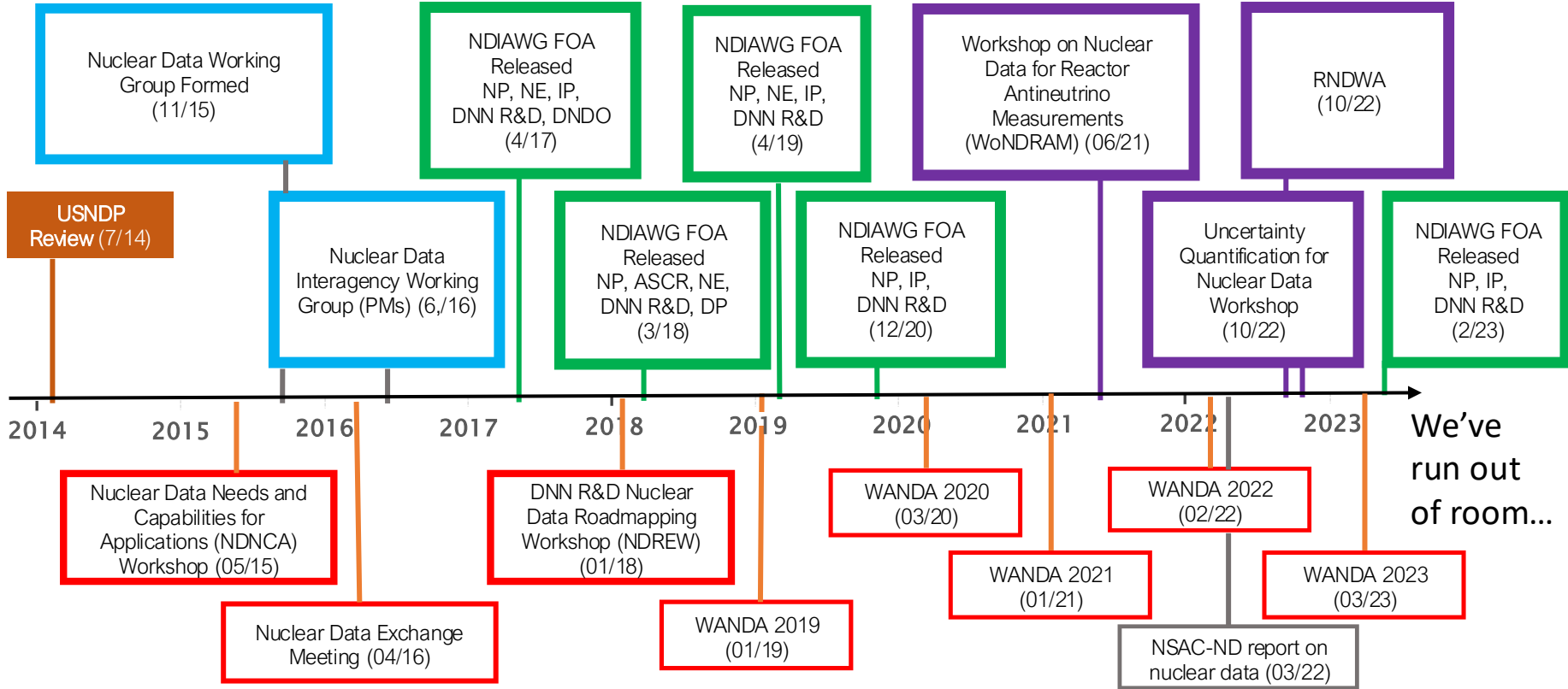
LAB	NDWG Member
ANL	Filip Kondev
	Guy Savard
BNL	Alejandro Sonzogni
INL	TBD
JLAB	Mike Dion
LANL	Mark Chadwick
	Robert Little
LBNL	Bethany Goldblum
	David Matters
LLNL	Michael Buchoff
	Kay Kolos McCubbin
ORNL	TBD
PNNL	Stephanie Lyons
	Bruce Pierson
SNL	Pat Griffin
	Phil Dreike
SRNL	TBD

AT LARGE MEMBERS*	
LANL	Patrick Talou
Univ. WISC	John Engle
LLNL	Teresa Bailey
LANL	Morgan White

*Non-voting members

NDWG/NDIAWG Timeline

NDIAWG FOA 1/24
 WANDA 2024 2/24
 NDIAWG FOA 12/24
 WANDA 2025 2/25



We've run out of room...

Funded Wanda Topics

NDNCA (2015) Cross-cutting recommendations		WANDA 2019 Topics		WANDA 2022 Topics	
Dosimetry Standards		Nuclear Data for Isotope Production	x	Reactions on Unstable Nuclei	
Fission	x	Safeguards	x	High Energy Ion Interactions and Secondary Particles	
Decay Data and g-Branching Ratios	x	Materials Damage		Neutrons as Secondary Particles and Interactions	x
Neutron Transport Covariance Reduction		Nuclear Data for Nuclear Energy	x	Photon Reactions and Transport	
Expanded Integral Validation		(n,x) Reactions	x	Stopping Powers, Energy Deposition and Dose	
Antineutrinos from Reactors	x	Atomic Data, NRF Data		Nuclear Data Adjustments and Impact on Applications	x
NDEM (2016) Cross-cutting recommendations		WANDA 2020 Topics		WANDA 2023 Topics	
Improving the Pipeline Infrastructure	x	Covariance/Uncertainty/Sensitivity/Validation		Fission Yields/Theory, Evaluation, Experiments,	x
Improved Covariance Data		Nuclear Data for Isotope Production and Targetry	x	Isotope Programs	
Inelastic Scattering on actinides	x	Machine Learning/AI		Gamma-Ray Strength Functions and Level Densities	x
Capture gamma spectra	x	Detector Models, Atomic Data and Stopping Powers		Nuclear Data Processing & Preservation	
Improved Fission yields	x	Scattering, Transport and Shielding	x		
Target Production to Support Nuclear Data	x	Neutron induced gammas and gamma decay	x		
NDREW (2018) Topics		WANDA 2021 Topics		WANDA 2024 Topics	
Uncertainty, Sensitivity, and Covariance		Advanced Computing for Nuclear Data		FES: Fusion Neutronics	x
Neutron Capture and Associated Spectra	x	Predictive Codes for Isotope Production		FES: Tritium Production	
Fission I, Independent and Cumulative Yields	x	Expanded Benchmarks and Validation for Nuclear Data	x	FES: Material Damage	x
Gamma-Induced Reactions	x	Nuclear Data for Space Applications	x	Isotopes & Targetry for Nuclear Data	
Inelastic Neutron Scattering and Associated Spectra	x	Nuclear Data for Advanced Reactors and Security	x	Uncertainty Quantification	
Fission II, Prompt Gammas and Neutrons	x	The Human Pipeline for Nuclear Data	x		
(α ,n) Reactions	x	WoNDRAM Topics		WANDA 2025 Topics	
Targets, Facilities and Detector Systems	x	Reactor Antineutrino Source Term	x	Nuclear Data and Deterrence	
Fission III, Decay Data	x	Antineutrino Spectrum Calculations	x	Nuclear Data Prioritization for Fusion	x
Development of Benchmark Exercises		Detector Response		Challenges in Deployment of HALEU and Novel	
Data Processing & Transport Code Needs				Moderators for Advanced Reactors	
Actinide Cross Sections	x			Data Preservation & Data Workflows	

Enjoy

WANDA 2026

The Future

WANDA 2027

Stay Tuned