

# NICP SANI 2026 Host Faculty List

Massachusetts Institute of Technology

Department of Nuclear Science and Engineering

Faculty

|   | Name                              | Research Fields                                                                                                                                                                                                           | Web URL                                                                                                   | Web URL 2 | E-mail address                                         |
|---|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------|
| 1 | <a href="#">Benoit Forget</a>     | Computational Reactor Physics<br>Radiation transport<br>Uncertainty quantification<br>Nuclear data                                                                                                                        | <a href="https://nse.mit.edu/people/benoit-forget/">https://nse.mit.edu/people/benoit-forget/</a>         |           | <a href="mailto:bforget@mit.edu">bforget@mit.edu</a>   |
| 2 | <a href="#">Emilio Baglietto</a>  | Computational Fluid Dynamics<br>Turbulence Modeling<br>Boiling heat transfer<br>Uncertainty quantification<br>Nuclear reactor design and safety analysis                                                                  | <a href="https://nse.mit.edu/people/emilio-baglietto/">https://nse.mit.edu/people/emilio-baglietto/</a>   |           | <a href="mailto:emiliob@mit.edu">emiliob@mit.edu</a>   |
| 3 | <a href="#">Matteo Bucci</a>      | Boiling heat transfer<br>Micro- and Nano-technologies for nuclear reactors<br>Advanced experimental diagnostics<br>Nuclear safety                                                                                         | <a href="https://nse.mit.edu/people/matteo-bucci/">https://nse.mit.edu/people/matteo-bucci/</a>           |           | <a href="mailto:mbucci@mit.edu">mbucci@mit.edu</a>     |
| 4 | <a href="#">Jacopo Buongiorno</a> | Floating nuclear power plants and microreactors<br>Techno-economic analysis of nuclear systems<br>Nuclear safety<br>Nano-technologies for nuclear reactors<br>Advanced experimental diagnostics and boiling heat transfer | <a href="https://nse.mit.edu/people/jacopo-buongiorno/">https://nse.mit.edu/people/jacopo-buongiorno/</a> |           | <a href="mailto:jacopo@mit.edu">jacopo@mit.edu</a>     |
| 5 | <a href="#">Paola Cappellaro</a>  | Control of quantum registers with NV centers in diamond<br>Diamond magnetometer and precision metrology<br>Quantum simulation and transport of quantum information                                                        | <a href="https://nse.mit.edu/people/paola-cappellaro/">https://nse.mit.edu/people/paola-cappellaro/</a>   |           | <a href="mailto:pcappell@mit.edu">pcappell@mit.edu</a> |
| 6 | <a href="#">Areg Danagoulian</a>  | Arms control<br>Nuclear nonproliferation<br>Cargo security<br>Nuclear detection                                                                                                                                           | <a href="https://nse.mit.edu/people/areg-danagoulian/">https://nse.mit.edu/people/areg-danagoulian/</a>   |           | <a href="mailto:aregjan@mit.edu">aregjan@mit.edu</a>   |
| 7 | <a href="#">Zachary Hartwig</a>   | High-field superconducting magnets<br>Radiation damage in fusion materials<br>Accelerated radiation damage testing<br>Particle and radiation detection and data acquisition<br>Fusion device design and engineering       | <a href="https://nse.mit.edu/people/zachary-hartwig/">https://nse.mit.edu/people/zachary-hartwig/</a>     |           | <a href="mailto:hartwig@mit.edu">hartwig@mit.edu</a>   |

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|    |                                   |                                                                                                                                                                                |                                                                                                         |  |                                                                  |
|----|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------|
| 8  | <a href="#">Sophia Henneberg</a>  | Stellarator plasma Design and Optimization<br>Coil Optimization<br>Stellarator-Tokamak Hybrids<br>Magnetohydrodynamics                                                         | <a href="https://nse.mit.edu/people/sophia-henneberg/">https://nse.mit.edu/people/sophia-henneberg/</a> |  | <a href="mailto:sophia_h@mit.edu">sophia_h@mit.edu</a>           |
| 9  | <a href="#">Ericmoore Jossou</a>  | Nuclear materials<br>X-ray diffraction and imaging<br>Radiation effects<br>AI for materials design                                                                             | <a href="https://nse.mit.edu/people/ericmoore-jossou/">https://nse.mit.edu/people/ericmoore-jossou/</a> |  | <a href="mailto:ejossou@mit.edu">ejossou@mit.edu</a>             |
| 10 | <a href="#">R. Scott Kemp</a>     | Strategic consequences of advanced conventional weapons<br>Critical infrastructure<br>Detection of clandestine nuclear activities<br>Energy policy for decarbonization         | <a href="https://nse.mit.edu/people/r-scott-kemp/">https://nse.mit.edu/people/r-scott-kemp/</a>         |  | <a href="mailto:rsk@mit.edu">rsk@mit.edu</a>                     |
| 11 | <a href="#">Richard K. Lester</a> | Economics and management of nuclear innovation<br>Energy and climate policy<br>Innovation, productivity and industrial competition                                             | <a href="https://nse.mit.edu/people/richard-k-lester/">https://nse.mit.edu/people/richard-k-lester/</a> |  | <a href="mailto:rklester@mit.edu">rklester@mit.edu</a>           |
| 12 | <a href="#">Ju Li</a>             | Metallurgy and solid mechanics<br>Nanocomposite materials<br>Electrolyzers and batteries<br>Materials modeling<br>AI for science                                               | <a href="https://nse.mit.edu/people/ju-li/">https://nse.mit.edu/people/ju-li/</a>                       |  | <a href="mailto:liju@mit.edu">liju@mit.edu</a>                   |
| 13 | <a href="#">Mingda Li</a>         | Quantum<br>Nuclear<br>AI                                                                                                                                                       | <a href="https://nse.mit.edu/people/mingda-li/">https://nse.mit.edu/people/mingda-li/</a>               |  | <a href="mailto:mingda@mit.edu">mingda@mit.edu</a>               |
| 14 | <a href="#">Ethan Peterson</a>    | Radiation transport and transmutation methods<br>Reactor design and optimization<br>Uncertainty quantification                                                                 | <a href="https://nse.mit.edu/people/ethan-peterson/">https://nse.mit.edu/people/ethan-peterson/</a>     |  | <a href="mailto:peterson@psfc.mit.edu">peterson@psfc.mit.edu</a> |
| 15 | <a href="#">Dean Price</a>        | Computational reactor physics<br>Scientific machine learning/artificial intelligence<br>Multiphysics simulation<br>Reactor dynamics and control<br>Verification and validation | <a href="https://nse.mit.edu/people/dean-price/">https://nse.mit.edu/people/dean-price/</a>             |  | <a href="mailto:dnprice@mit.edu">dnprice@mit.edu</a>             |
| 16 | <a href="#">Koroush Shirvan</a>   | Reactor Design and Economics<br>Materials Testing under Irradiation<br>Nuclear safety<br>Boiling heat transfer<br>Uncertainty quantification                                   | <a href="https://nse.mit.edu/people/koroush-shirvan/">https://nse.mit.edu/people/koroush-shirvan/</a>   |  | <a href="mailto:kshirvan@mit.edu">kshirvan@mit.edu</a>           |

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|    |                                                   |                                                                                                                                                                                                                                                      |                                                                                                           |  |                                                      |
|----|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--|------------------------------------------------------|
| 17 | <a href="#"><u>Michael Short</u></a>              | Nuclear materials science and engineering<br>Fission and fusion technologies and supply chain<br>AnthroEngineering<br>Tricky radiation effects, radiation damage<br>Coupled effects (irradiation/corrosion)                                          | <a href="https://nse.mit.edu/people/michael-short/">https://nse.mit.edu/people/michael-short/</a>         |  | <a href="mailto:hereiam@mit.edu">hereiam@mit.edu</a> |
| 18 | <a href="#"><u>Curtis Smith</u></a>               | Risk and reliability methods, teaching, and tools development<br>Risk-informed decision making for nuclear and aerospace systems<br>Bayesian analysis<br>Simulation and uncertainty quantification for complex systems<br>Human reliability modeling | <a href="https://nse.mit.edu/people/curtis-smith/">https://nse.mit.edu/people/curtis-smith/</a>           |  | <a href="mailto:curtis@mit.edu">curtis@mit.edu</a>   |
| 19 | <a href="#"><u>George Tynan</u></a>               | Experimental/Edge Plasma Physics<br>Plasma-Material Interactions<br>Magnetic Confinement Fusion<br>Fusion Energy Systems Modeling<br>Plasma Turbulence and transport                                                                                 | <a href="https://nse.mit.edu/people/george-tynan/">https://nse.mit.edu/people/george-tynan/</a>           |  | <a href="mailto:gtynan@mit.edu">gtynan@mit.edu</a>   |
| 20 | <a href="#"><u>Haruko Murakami Wainwright</u></a> | Nuclear contamination<br>Nuclear waste disposal<br>Environmental monitoring<br>Contaminant transport modeling<br>Uncertainty quantification                                                                                                          | <a href="https://nse.mit.edu/people/haruko-wainwright/">https://nse.mit.edu/people/haruko-wainwright/</a> |  | <a href="mailto:hmwainw@mit.edu">hmwainw@mit.edu</a> |
| 21 | <a href="#"><u>Anne White</u></a>                 | Plasma diagnostics<br>Turbulent transport in plasmas<br>Experimental plasma physics<br>Transport model validation                                                                                                                                    | <a href="https://nse.mit.edu/people/anne-white/">https://nse.mit.edu/people/anne-white/</a>               |  | <a href="mailto:whitea@mit.edu">whitea@mit.edu</a>   |
| 22 | <a href="#"><u>Dennis G. Whyte</u></a>            | Fusion power plant design<br>Materials in fusion environments<br>Advanced magnets<br>Plasma propulsion<br>Advanced geothermal                                                                                                                        | <a href="https://nse.mit.edu/people/dennis-whyte/">https://nse.mit.edu/people/dennis-whyte/</a>           |  | <a href="mailto:whyte@mit.edu">whyte@mit.edu</a>     |
| 23 | <a href="#"><u>Bilge Yildiz</u></a>               | Surface and electrochemistry of Materials<br>Materials for Energy Conversion and Storage<br>Multi-Scale Modeling and Spectroscopy<br>Corrosion and Degradation Mechanisms<br>Ion and Electron Transport at interfaces                                | <a href="https://nse.mit.edu/people/bilge-yildiz/">https://nse.mit.edu/people/bilge-yildiz/</a>           |  | <a href="mailto:byildiz@mit.edu">byildiz@mit.edu</a> |

# NICP SANI 2026 Host Faculty List

North Carolina State  
University

Department of Nuclear Engineering

|   | Name                                | Research Fields                                                                                                                                                                                                                                                                                                                                                                              | Web URL                                                                                       | Web URL 2                                                                 | E-mail address                                                     |
|---|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|
| 1 | <a href="#">Jason Hou</a>           | Multi-physics reactor simulation, advanced reactors, fuel cycle analysis, uncertainty quantification, machine learning in engineering applications, and nuclear power plant simulator                                                                                                                                                                                                        | <a href="https://ne.ncsu.edu/directory/jhou8/">https://ne.ncsu.edu/directory/jhou8/</a>       |                                                                           | <a href="mailto:jhou8@ncsu.edu">jhou8@ncsu.edu</a>                 |
| 2 | <a href="#">Xu Wu</a>               | Scientific Machine Learning, Calibration, Validation and Uncertainty Quantification                                                                                                                                                                                                                                                                                                          | <a href="https://ne.ncsu.edu/directory/xwu27/">https://ne.ncsu.edu/directory/xwu27/</a>       |                                                                           | <a href="mailto:xwu27@ncsu.edu">xwu27@ncsu.edu</a>                 |
| 3 | <a href="#">Igor A. Bolotnov</a>    | Thermal hydraulics, High resolution simulations of two-phase flows with interface capturing methods, simulations of boiling flows                                                                                                                                                                                                                                                            | <a href="https://ne.ncsu.edu/directory/iabolotn/">https://ne.ncsu.edu/directory/iabolotn/</a> |                                                                           | <a href="mailto:igor_bolotnov@ncsu.edu">igor_bolotnov@ncsu.edu</a> |
| 4 | <a href="#">Mohamed Bourham</a>     | Plasma-matter interaction, plasma propulsion and thrusters, fusion engineering, plasma surface modification, particle accelerators and electron beam irradiation systems, x-ray sources for medical and screening imaging, materials synthesis and coatings, shielding and radiation attenuation studies, nuclear and mixed waste disposal, drycasks and high-level waste packaging studies. | <a href="https://ne.ncsu.edu/directory/bourham/">https://ne.ncsu.edu/directory/bourham/</a>   |                                                                           | <a href="mailto:bourham@ncsu.edu">bourham@ncsu.edu</a>             |
| 5 | <a href="#">Robert B. Hayes</a>     | Health Physics, Nuclear Waste Management, Nuclear Nonproliferation, Nuclear Forensics, Nuclear Criticality Safety, Radiation Shielding, Radiation Detection, Novel Nuclear Reactor Designs and Radiological Air Monitoring                                                                                                                                                                   | <a href="https://ne.ncsu.edu/directory/rbhayes/">https://ne.ncsu.edu/directory/rbhayes/</a>   | <a href="https://www.ne.ncsu.edu/rdna/">https://www.ne.ncsu.edu/rdna/</a> | <a href="mailto:rbhayes@ncsu.edu">rbhayes@ncsu.edu</a>             |
| 6 | <a href="#">Mihai A. Diaconescu</a> | Theories, applications, and simulation-based techniques in risk sciences such as traditional and dynamic probabilistic risk assessment, reliability analysis, resilient systems design, probabilistic physics of failure modeling, and Bayesian inference                                                                                                                                    | <a href="https://ne.ncsu.edu/directory/madiacon/">https://ne.ncsu.edu/directory/madiacon/</a> |                                                                           | <a href="mailto:madiacon@ncsu.edu">madiacon@ncsu.edu</a>           |
| 7 | <a href="#">Benjamin Beeler</a>     | Computational Nuclear Materials Science: atomistic modeling; multiscale modeling, advanced reactor nuclear fuels, molten salts, advanced cladding materials, density functional theory, molecular dynamics                                                                                                                                                                                   | <a href="https://www.ne.ncsu.edu/cnmsg/">https://www.ne.ncsu.edu/cnmsg/</a>                   |                                                                           | <a href="mailto:bwbeeler@ncsu.edu">bwbeeler@ncsu.edu</a>           |
| 8 | <a href="#">Jacob Eapen</a>         | Materials theory (phonons, liquids and disordered materials) and multiscale modeling (atomistic, mesoscale), nuclear and energy materials (high performance alloys, graphite, SiC composites, molten salts, metal hydrides, superionic conductors, nuclear fuel)                                                                                                                             | <a href="https://ne.ncsu.edu/directory/jeapen/">https://ne.ncsu.edu/directory/jeapen/</a>     |                                                                           | <a href="mailto:jacob.eapen@ncsu.edu">jacob.eapen@ncsu.edu</a>     |

# NICP SANI 2026 Host Faculty List

## University of Michigan

## Nuclear Engineering & Radiological Sciences

|   | Name                               | Research Fields                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Web URL                                                                                                                   | Web URL 2 | E-mail address                                             |
|---|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------|
| 1 | <a href="#">Xiaodong Sun</a>       | Thermal-hydraulics and reactor safety<br>Flow boiling and post-CHF heat transfer (filming boiling)<br>Thermal-hydraulics in gas-cooled and molten salt reactors<br>High-temperature compact heat exchangers                                                                                                                                                                                                                                                                                                                                                                                                                    | <a href="https://ners.engin.umich.edu/people/sun-xiaodong/">https://ners.engin.umich.edu/people/sun-xiaodong/</a>         |           | <a href="mailto:xdsun@umich.edu">xdsun@umich.edu</a>       |
| 2 | <a href="#">Brendan Kochunas</a>   | Computational Reactor Physics<br>Reactor Design and Analysis<br>Numerical Methods for Neutron and Radiation Transport<br>High Performance Computing and Parallel Computing<br>Numerical Analysis of Iterative Methods                                                                                                                                                                                                                                                                                                                                                                                                          | <a href="https://nuram.engin.umich.edu/">https://nuram.engin.umich.edu/</a>                                               |           | <a href="mailto:bkochuna@umich.edu">bkochuna@umich.edu</a> |
| 3 | <a href="#">Kimberlee Kearfott</a> | Research: Radiation protection and detection. Radiation background and environmental dose rate mapping. Affordable radiation detection instruments for crowd-sourced measurement. Radiation monitoring networks. Measurements of environmental radioactivity in soil, water, air, and foodstuffs. Dosimetry (optically stimulated and thermoluminescent). Professor Kearfott will work with Dr. Jordan Noey on these tasks.                                                                                                                                                                                                    | <a href="https://rhelab.engin.umich.edu">https://rhelab.engin.umich.edu</a>                                               |           | <a href="mailto:kearfott@umich.edu">kearfott@umich.edu</a> |
| 4 | <a href="#">Fei Gao</a>            | Computer simulation of ion-solid interaction, irradiation damage, detector materials, nanostructures properties, development and application of multi-scale modeling of materials. Develop interatomic potentials of metals, semiconductors and ceramics based on ab-initio calculations. Employ a variety of computational tools to carry out multi-scale simulations, including quantum-mechanical calculations, ab-initio molecular dynamics, time-dependent density functional theory, tight-binding calculations, molecular static and dynamic calculations, to study materials behavior for fission and fusion reactors. | <a href="https://ners.engin.umich.edu/people/gao-fei/">https://ners.engin.umich.edu/people/gao-fei/</a>                   |           | <a href="mailto:gaofei@umich.edu">gaofei@umich.edu</a>     |
| 5 | <a href="#">Aditi Verma</a>        | (1) Exploring and adopting new design epistemologies in a nuclear technology context (speculative design, more than human design, human-centered design); (2) Sociotechnical analyses of nuclear energy; (2) participatory approaches for designing and siting nuclear facilities (current projects focus on fusion facilities, co-locating reactors and data centers, repowering coal sites with nuclear energy, nuclear waste storage facilities); (4) Exploring the intersection of art and policy (the role of art and creative work in broadening engagement on policy issues)                                            | <a href="https://ners.engin.umich.edu/people/verma-aditi/">https://ners.engin.umich.edu/people/verma-aditi/</a>           |           | <a href="mailto:aditive@umich.edu">aditive@umich.edu</a>   |
| 6 | <a href="#">Brian Kiedrowski</a>   | Computational particle transport methods (Monte Carlo and deterministic) applied to a wide variety of applications in fission/fusion energy and nuclear safeguards. Nuclear data methods, processing, and representations.                                                                                                                                                                                                                                                                                                                                                                                                     | <a href="https://ners.engin.umich.edu/people/kiedrowski-brian/">https://ners.engin.umich.edu/people/kiedrowski-brian/</a> |           | <a href="mailto:bckiedro@umich.edu">bckiedro@umich.edu</a> |

# NICP SANI 2026 Host Faculty List

University of Wisconsin-Madison

Department of Nuclear Engineering & Engineering Physics

|    | Name                                   | Research Fields                                                                      | Web URL                                                                                                                                             | Web URL 2                                                 | E-mail address                                                         |
|----|----------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------|
| 1  | <a href="#">Jung Hyun Bae</a>          | Nuclear detection, security and fuel cycles                                          |                                                                                                                                                     |                                                           | <a href="mailto:jbac@wisc.edu">jbac@wisc.edu</a>                       |
| 2  | <a href="#">Adrien Couet</a>           | Nuclear Materials Irradiation and Corrosion                                          | <a href="https://madcor.labs.wisc.edu/">https://madcor.labs.wisc.edu/</a>                                                                           |                                                           | <a href="mailto:couet@wisc.edu">couet@wisc.edu</a>                     |
| 3  | <a href="#">Stephanie Diem</a>         | Experimental plasma physics                                                          | <a href="https://pegasus.ep.wisc.edu/">https://pegasus.ep.wisc.edu/</a>                                                                             |                                                           | <a href="mailto:sjdiem@wisc.edu">sjdiem@wisc.edu</a>                   |
| 4  | <a href="#">Benedikt Geiger</a>        | Experimental plasma physics                                                          | <a href="https://turbulence.neep.wisc.edu/">https://turbulence.neep.wisc.edu/</a>                                                                   | <a href="https://hsx.wisc.edu/">https://hsx.wisc.edu/</a> | <a href="mailto:benedikt.geiger@wisc.edu">benedikt.geiger@wisc.edu</a> |
| 5  | <a href="#">Chris Hegna</a>            | Plasma theory and computation                                                        | <a href="https://engineering.wisc.edu/directory/profile/chris-heгна/">https://engineering.wisc.edu/directory/profile/chris-heгна/</a>               |                                                           | <a href="mailto:cchegna@wisc.edu">cchegna@wisc.edu</a>                 |
| 6  | <a href="#">Charlie Hirst</a>          | Experimental nuclear materials                                                       | <a href="https://directory.engr.wisc.edu/neep/Faculty/Hirst_Charles/">https://directory.engr.wisc.edu/neep/Faculty/Hirst_Charles/</a>               |                                                           | <a href="mailto:cahirst@wisc.edu">cahirst@wisc.edu</a>                 |
| 7  | <a href="#">Ben Lindley</a>            | Reactor physics, advanced reactor design, integrated energy systems, safety analysis | <a href="https://reti.neep.wisc.edu">https://reti.neep.wisc.edu</a>                                                                                 |                                                           | <a href="mailto:lindley2@wisc.edu">lindley2@wisc.edu</a>               |
| 8  | <a href="#">Juliana Pacheco Duarte</a> | Experimental and Computational thermal-hydraulics and safety                         | <a href="https://heats.neep.wisc.edu">https://heats.neep.wisc.edu</a>                                                                               |                                                           | <a href="mailto:pachecoduarte@wisc.edu">pachecoduarte@wisc.edu</a>     |
| 9  | <a href="#">Sebastien Philippe</a>     | Nuclear security                                                                     | <a href="https://engineering.wisc.edu/directory/profile/sebastien-philippe/">https://engineering.wisc.edu/directory/profile/sebastien-philippe/</a> |                                                           | <a href="mailto:sphilippe@wisc.edu">sphilippe@wisc.edu</a>             |
| 10 | <a href="#">Oliver Schmitz</a>         | Experimental plasma physics                                                          | <a href="https://3dpsi.engr.wisc.edu/staff/schmitz-oliver/">https://3dpsi.engr.wisc.edu/staff/schmitz-oliver/</a>                                   |                                                           | <a href="mailto:oschmitz@wisc.edu">oschmitz@wisc.edu</a>               |
| 11 | <a href="#">Kumar Sridharan</a>        | Materials processing testing and analysis                                            | <a href="https://mat-research.engr.wisc.edu/">https://mat-research.engr.wisc.edu/</a>                                                               |                                                           | <a href="mailto:kumar.sridharan@wisc.edu">kumar.sridharan@wisc.edu</a> |
| 12 | <a href="#">Paul Wilson</a>            | Computational methods for simulating complex nuclear energy systems                  | <a href="https://cnerg.engr.wisc.edu">https://cnerg.engr.wisc.edu</a>                                                                               |                                                           | <a href="mailto:paul.wilson@wisc.edu">paul.wilson@wisc.edu</a>         |
| 13 | <a href="#">Adelle Wright</a>          | Computational plasmas physics                                                        | <a href="https://wright-lab.notion.site/">https://wright-lab.notion.site/</a>                                                                       |                                                           | <a href="mailto:adelle.wright@wisc.edu">adelle.wright@wisc.edu</a>     |
| 14 | <a href="#">Yongfeng Zhang</a>         | Computational Nuclear Materials                                                      | <a href="https://zhang.ep.wisc.edu/">https://zhang.ep.wisc.edu/</a>                                                                                 |                                                           | <a href="mailto:y Zhang2446@wisc.edu">y Zhang2446@wisc.edu</a>         |

# NICP SANI 2026 Host Faculty List

## Texas A&M University

## Department of Nuclear Engineering

|   | Name                               | Research Fields                                                                                                                                                                                                                                  | Web URL | Web URL 2 | E-mail address                                                     |
|---|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|--------------------------------------------------------------------|
| 1 | <a href="#">John Ford</a>          | Radiation safety; radiation detection or medical/research applications of radioisotopes; space radiation environment and countermeasures                                                                                                         |         |           | <a href="mailto:thasl@tamu.edu">thasl@tamu.edu</a>                 |
| 2 | <a href="#">Karen Kirkland</a>     | Steam/water two-phase flow experiments, reactor safety systems, power engineering                                                                                                                                                                |         |           | <a href="mailto:vierow@tamu.edu">vierow@tamu.edu</a>               |
| 3 | <a href="#">Jean Ragusa</a>        | 1. Radiation transport simulation for reactor using deterministic methods<br>2. Scientific machine learning, surrogate modeling, and data assimilation applied to reactor physics.                                                               |         |           | <a href="mailto:jean.ragusa@tamu.edu">jean.ragusa@tamu.edu</a>     |
| 4 | <a href="#">Carlo Fiorina</a>      | Multiphysics modeling and Simulation of advanced reactors                                                                                                                                                                                        |         |           | <a href="mailto:carlo.fiorina@tamu.edu">carlo.fiorina@tamu.edu</a> |
| 5 | <a href="#">Yang Liu</a>           | Advanced reactor modeling and analysis using physics-informed machine learning                                                                                                                                                                   |         |           | <a href="mailto:y-liu@tamu.edu">y-liu@tamu.edu</a>                 |
| 6 | <a href="#">Tsvetkov, Pavel V.</a> | Novel AI-enabled methods in advanced reactor design and applications, nuclear fuel cycle and energy sustainability, nuclear waste minimization, novel instrumentation technologies, energy conversion, and nuclear power deployment.             |         |           | <a href="mailto:tsvetkov@tamu.edu">tsvetkov@tamu.edu</a>           |
| 7 | <a href="#">Mansung Yim</a>        | Safety-security-safeguards integrated design/analysis for advanced nuclear reactors, Nuclear safeguards for nuclear fuel cycles, nuclear proliferation risk analysis, AI applications for nuclear waste management and public acceptance studies |         |           | <a href="mailto:msyim@tamu.edu">msyim@tamu.edu</a>                 |

# NICP SANI 2026 Host Faculty List

University of California,  
Berkeley

Department of Nuclear Engineering

|   | Name                                 | Research Fields                                                                                                                                                                                                                                                                  | Web URL                                                                                                                   | Web URL 2 | E-mail address                                                               |
|---|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------|
| 1 | <a href="#">Massimiliano Fratoni</a> | Advanced nuclear reactors design / Uncertainty quantification and sensitivity analysis / Multi-physics modeling and simulation / Accident tolerant fuel / Advanced fuel cycles analysis / Geological repository and far-field criticality / Fusion blanket design                | <a href="https://nuc.berkeley.edu/people/massimiliano-fratoni/">https://nuc.berkeley.edu/people/massimiliano-fratoni/</a> |           | <a href="mailto:maxfratoni@berkeley.edu">maxfratoni@berkeley.edu</a>         |
| 2 | <a href="#">Jasmina Vujic</a>        | Advanced nuclear Reactor Physics/Design, Transport theory modeling and simulation, Application of radiation in medical diagnostics and therapy, Non-proliferation                                                                                                                | <a href="https://nuc.berkeley.edu/people/massimiliano-fratoni/">https://nuc.berkeley.edu/people/massimiliano-fratoni/</a> |           | <a href="mailto:vujic@nuc.berkeley.edu">vujic@nuc.berkeley.edu</a>           |
| 3 | <a href="#">Daniel Siefman</a>       | Forward and inverse uncertainty quantification, nuclear data VVUQ, experimental neutronics, Monte Carlo methods, branching and power reactor noise, criticality safety, advanced reactor physics and design, algorithms and detectors for nuclear security and non proliferation | <a href="https://nuc.berkeley.edu/people/daniel-siefman/">https://nuc.berkeley.edu/people/daniel-siefman/</a>             |           | <a href="mailto:daniel.siefman@berkeley.edu">daniel.siefman@berkeley.edu</a> |
| 4 | <a href="#">Igor Jovanovic</a>       | Radiation detection and measurement, nuclear security and nonproliferation, nuclear and particle physics, laser and plasma technologies, nuclear fusion.                                                                                                                         | <a href="https://nuc.berkeley.edu/people/igor-jovanovic/">https://nuc.berkeley.edu/people/igor-jovanovic/</a>             |           | <a href="mailto:ijov@berkeley.edu">ijov@berkeley.edu</a>                     |
| 5 | <a href="#">Bethany Goldblum</a>     | Applied nuclear physics, neutron detection, scintillator physics, machine learning applications.                                                                                                                                                                                 | <a href="https://nuc.berkeley.edu/people/bethany-goldblum/">https://nuc.berkeley.edu/people/bethany-goldblum/</a>         |           | <a href="mailto:bethany@berkeley.edu">bethany@berkeley.edu</a>               |