



# Pacific Basin Nuclear Conference 2024 (PBNC)

*Nuclear Enabling a Net-Zero World*

October 7-10, 2024 | Idaho Falls, ID | Blue Cross of Idaho Conference Center



## CALL FOR PAPERS

### EXECUTIVE CHAIRS

**General Chair**

Corey McDaniel (Kiewit Corp.)

**Technical Program Chair**

Jess Gehin (Idaho National Laboratory)

### PAPERS AND ABSTRACTS DEADLINE:

**FRIDAY, FEBRUARY 16, 2024 (Midnight U.S. Central time)**

<b>FEBRUARY</b>	→	PAPERS AND ABSTRACTS DUE: <b>February 16, 2024</b>
<b>MAY</b>	→	NOTIFICATION TO AUTHORS: <b>May 6, 2024</b>
<b>JUNE</b>	→	FINAL ABSTRACTS AND PAPERS DUE: <b>June 10, 2024</b>

### CONFERENCE FOCUS

This international conference is focused on areas of nuclear energy, engineering and science and policy issues that accompany nuclear energy programs throughout the Pacific Rim, including achieving net-zero goals with nuclear.

### FORMATS, PRESENTATIONS, AND PUBLISHING

There are two options for submittal, using the Electronic Paper Submission and Review (EPSR) system:

#### 1) Full Paper/Standard-Length Presentation Option

Submit a full paper. If accepted, you will provide a standard-length presentation at the conference. Full papers should be a maximum of 10 pages; references and acknowledgements are counted as pages. There will be no page charges for papers that are 10 or fewer pages. If an exception is made and a paper with more than 10 pages is accepted, page charges of \$100/page will apply starting with p. 11. Submit your full paper by February 16; you will not submit an abstract first.

#### 2) Abstract/Lightning Talk Option

Submit a 1-page abstract only. If accepted, you will provide a brief Lightning Talk at the conference. For this option, you will not submit a full paper later. Note that Lightning Talks are short presentations, such as a 5-minute maximum presentation, as opposed to a 20-minute maximum for full presentations that are associated with full-paper submissions.

1. [Use the provided templates for abstracts and papers.](#)
2. Abstracts and full papers must be submitted as Adobe Acrobat PDF documents. After you save your document as a PDF, verify that it still meets the page-length requirements.
3. Limit title to ten words if possible.
4. Do not use all capital letters for the title or any part of any authors' names. For the title of the abstract or full paper, Capitalize the First Letter of Major Words. Author names should be First Name or Initial(s) followed by Last Name.
5. The names of all authors should be entered into the Authors page in the EPSR. List the authors in the same order in which their names appear on the abstract or full paper.
6. Do not use page numbers, headers, or footers. Do not save your PDF as "read only."
7. Keep the bottom margin clear so there is space for the ANS-applied footer and page number.
8. As the conference approaches, conference organizers will provide guidance on the Lightning Talks and paper presentations, including presentation templates and length.

A technical review of the papers and abstracts will begin upon submission, and authors will be notified of acceptance by May 6, 2024.

All accepted and presented abstracts and full papers will be included in the conference's proceedings, which will publish digitally shortly after the conference concludes.

English is the official language of the conference.

### EXHIBITION

There will be an exhibition provided for companies, agencies or associations who wish to display their products and services.

### SUBMIT A PAPER OR ABSTRACT

<https://epsr.ans.org/meeting/?m=428>

### PROGRAM SPECIALIST

Janet Davis

708-579-8253

[jdavis@ans.org](mailto:jdavis@ans.org)



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## 2024 PACIFIC BASIN NUCLEAR CONFERENCE TOPICS

- 1. NUCLEAR ENABLING NET-ZERO: PATH TO SUSTAINABILITY**
- 2. FOSTERING ENERGY JUSTICE: ENGAGING COMMUNITIES FOR A SUSTAINABLE NUCLEAR FUTURE**
- 3. ECONOMICS OF NUCLEAR ENERGY IN THE NET-ZERO ERA**
- 4. ADVANCING SUSTAINABILITY THROUGH MODELING, SIMULATION, AI, AND MACHINE LEARNING**
- 5. SUPPLY CHAIN RESILIENCE: FROM HALEU TO NET-ZERO SOLUTIONS**
- 6. ENSURING NUCLEAR SAFETY, SECURITY, AND REGULATORY COMPLIANCE IN THE NET-ZERO WORLD**
- 7. INNOVATIONS IN ADVANCED REACTORS FOR SUSTAINABLE ENERGY GENERATION**
- 8. FUEL CYCLE STRATEGIES FOR ENHANCED PERFORMANCE**
- 9. EFFICIENT OPERATIONS AND MAINTENANCE FOR NET-ZERO NUCLEAR**
- 10. SUSTAINABLE APPROACHES TO NUCLEAR WASTE MANAGEMENT, SPENT FUEL, AND DECOMMISSIONING**
- 11. THE FUTURE IS FUSION: ENABLING SUSTAINABLE POWER GENERATION**

### HISTORY

The Pacific Basin Nuclear Conference is a broad-based, international conference focused on areas of nuclear technology, engineering and science, and policy issues that accompany nuclear energy programs throughout the Pacific Rim. The meeting is sponsored by the Pacific Nuclear Council and American Nuclear Society (ANS). The first meeting was held in 1976 in Honolulu, Hawaii, USA. Subsequent meetings have been held about every two years under the joint sponsorship of the Pacific Nuclear Council (PNC) and a sponsoring PNC Member Society. The conferences have played a vital role in providing for discussion and information relating to both research and development and to the implementation of nuclear energy technology in the Pacific Basin. The Pacific Nuclear Council is composed primarily of nuclear societies and associations from nations around the Pacific Rim. The council exists to share information and best practices on the peaceful use of nuclear energy. Today, the council has working groups and task forces addressing waste management, advanced reactors, standards, and public information programs. The council also co-sponsors the biennial Pacific Basin Nuclear Conference.

### CONFERENCE FACILITIES

The Blue Cross of Idaho Conference Center is located in Idaho Falls, which is in the southeast corner of the state of Idaho. The venue is a short drive or walk to local restaurants and shops, as well as the Snake River.

### REGIONAL HIGHLIGHTS

Located fewer than two hours' drive from two national parks—Yellowstone and Grand Teton—southeast Idaho is a growing, vibrant area renowned for its fishing, hunting, hiking, skiing, and snowmobiling. It is dominated by the Snake River, which flows from Yellowstone Country across rich farmland. Regularly recognized as one of America's most livable small cities, Idaho Falls is a regional hub for a Metropolitan Statistical Area with population of roughly 165,000 people. The city offers shopping, culture, and dining with an authentic family atmosphere and a year-round calendar of activities.

Some attractions include:

- Museum of Idaho
- Idaho Falls Zoo
- Snake River Greenbelt
- The Art Museum of Eastern Idaho
- Idaho Falls Chukars (Pioneer League baseball since 1946)
- Idaho Falls Spud Kings hockey
- Historic Downtown area restaurants, theaters, and shops

Within easy driving distance, visitors can see:

- Craters of the Moon National Monument (85 miles west)
- Jackson, Wyoming (90 miles east)
- Yellowstone National Park (110 miles northeast)
- Sun Valley, Idaho (115 miles west)
- Sawtooth National Recreation Area (200 miles northwest)
- Bozeman, Montana (197 miles north)
- Salt Lake City, Utah (216 miles south)

Southeastern Idaho has been the home of nuclear research since 1949, when the U.S. Atomic Energy Commission decided to locate its National Reactor Testing Station on the East Snake River Plain. Today, it goes by Idaho National Laboratory, the U.S. Department of Energy's center for nuclear energy research and development, as well as integrated clean energy systems, cybersecurity, and critical infrastructure protection.