ANS®

CALL FOR PAPERS

2025 International Conference on Accelerator Applications (AccApp'25)

EMBEDDED IN THE 2025 ANS WINTER CONFERENCE AND EXPO

November 9–12, 2025 | Washington, DC | Washington Hilton

SUBMIT A SUMMARY

https://epsr.ans.org/meeting/?m=444

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SUMMARY DEADLINE: JUNE 24, 2025

SUBMISSION OF SUMMARIES (NO EXTENSIONS)	AUTHOR NOTIFICATION OF ACCEPTANCE	REVISED SUMMARIES DUE
JUNE 24, 2025	JULY 21, 2025	JULY 31, 2025

CONFERENCE PURPOSE

The accelerator applications conference (AccApp'25) provides an international forum for the discussion of all aspects of accelerator-related research activities ranging from progress at current accelerator facilities; to advancement in accelerator design and technology including small-compact accelerator systems and high-power accelerator components and targets; AI/ML inspired optimization in accelerator operations; generation and review of nuclear data; accelerators for isotope production in medical applications; accelerators for materials science in energy applications; accelerators for industrial applications; accelerators for homeland security and forensics; accelerator-based analysis in environmental studies and cultural heritage preservation; and teaching with accelerators etc. Attendance and cooperation are expected from numerous professional and technical societies, academic institutions, national laboratories, federal agencies, and commercial organizations throughout the world. Young generation and student participation is welcomed and encouraged to enrich the exchange of ideas and experiences.

GUIDELINES FOR SUMMARIES

Submissions should contain new data and investigations in scientific or program areas that are of general interest in accelerator community, address problems of interdisciplinary significance where accelerators play an important role or include in-depth discussions of scientific and technical issues pertaining to accelerator technology advancement and accelerator applications. Summaries are presented orally at the conference, and presenters are expected to register for the conference. All submissions must be in English. Non-U.S. attendees requesting a visa invitation letter: registrar@ans.org.

Summaries should be a minimum of one (1) page and a maximum of four (4) pages where references, tables, figures, and acknowledgements are all counted as pages. Summaries longer than 4 pages will not be considered.

General guidance for Summary Content:

1. Introduction: State the purpose of the work.
2. Description of the actual work: Must be new and significant.
3. Results: Discuss their significance.
4. References: If any, must be closely related published works. Minimize the number of references.
5. Do not present a bibliographical listing.
6. If a disclaimer is required (e.g., relating to the author's employer), it is the author's responsibility to include the disclaimer in the summary as either an end-of-summary note (preferred) or footnote. Please ensure such footnotes do not interfere with the bottom margin, and do not format disclaimers as headers or footers.

See p. 2 for formatting & publishing guidelines and subject categories.

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FORMATTING AND PUBLISHING

1. Use the provided template for summaries. https://www.ans.org/pubs/transactions/
2. Summaries 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 the title to ten words if possible. Limit listing of authors to five or fewer if possible.
4. Do not use all capital letters for the title or any part of any authors' names. For the title of the summary, 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 summary. The conference program is derived from the information entered into the EPSR, not from the summary itself.
6. In the EPSR, authors' affiliations should match the affiliation provided on the summary itself. If an author has multiple affiliations, enter the ONE that should be included in the program and in the conference proceedings, assuming the summary is accepted.
7. Do not use page numbers, headers, or footers. Do not save your PDF as "read only."
8. Keep the bottom margin clear so there is space for the ANS-applied footer and page number.
9. All accepted and presented summaries will be included in the conference's proceedings, which will publish digitally shortly after the conference concludes.
10. Full papers based on summaries may be published elsewhere, but the summaries become the property of ANS. Under no circumstances should a summary be published in any other publication before presentation at the ANS conference. It is the author's responsibility to protect classified, export-controlled, or proprietary information.

SUBJECT CATEGORIES FOR SUMMARIES

The list of topics below is meant as guidance for areas of particular interest. Summaries in areas not specifically mentioned but part of the conference scope are also encouraged. Contributions from international, next-generation experts, national laboratories, university communities and industrial organizations are highly encouraged.

ACCELERATOR FACILITIES

Progress at currently operating facilities and facilities under construction; Future, upgrades, and reset possibilities; Shutdown plans and decommissioning plans; Management and strategy for accelerator facilities; Accelerator Driven Systems; AI/ML Accelerator Operations

ACCELERATOR DESIGN AND TECHNOLOGY

New concepts and prototyping for accelerator design (including low energy); Needs for codes and model development; new trends in instrumentation; Radiation protection and shielding; Availability and reliability analyses

HIGH-POWER ACCELERATOR COMPONENTS AND TARGETS

High-power Accelerator Components and Targets Windows, beam monitoring systems, and beam dumps; Targets

COMPACT ACCELERATORS

Accelerator technology; Gamma Ray production; Neutron generations; General applications

NUCLEAR DATA

Nuclear reaction models and applications; Charges particle, fission and fusion cross-sections and application; Photonuclear cross-sections and applications; High energy particle modeling, experiments, and applications

ACCELERATORS FOR MATERIAL SCIENCE

New structural materials for fission and fusion reactors; Effects of heavy ions on materials; Effects on materials for microelectronics with fast particles; Comparative studies between ions and neutrons; Low energy methods for space, aviation, and other applications

MEDICAL APPLICATIONS OF ACCELERATORS

Production of medical radioisotopes; Hadron therapy; BNCT; Radiobiology

INDUSTRIAL APPLICATION OF ACCELERATORS

Electron and x-ray irradiation; Industrial applications of ion beams

ACCELERATORS FOR SECURITY AND FORENSICS

Border security; Replacing high activity sources with accelerator-based irradiators; Nuclear techniques for forensics

ACCELERATORS FOR ENVIRONMENTAL STUDIES

Environmental monitoring; Climate change and natural disasters

ACCELERATORS FOR CULTURAL HERITAGE

Authentication, dating, and characterization; Conservation