



AccApp'21

14th International Topical Meeting on Nuclear Applications of Accelerators
November 30 - December 4, 2021 | Washington Hilton | Washington, DC



IAEA
International Atomic Energy Agency
Atoms for Peace and Development



TEXAS A&M UNIVERSITY
Department of
Nuclear Engineering



CALL FOR PAPERS

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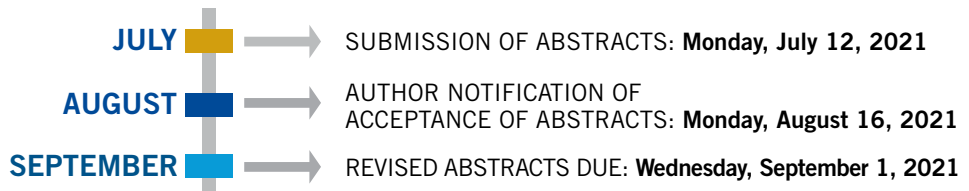
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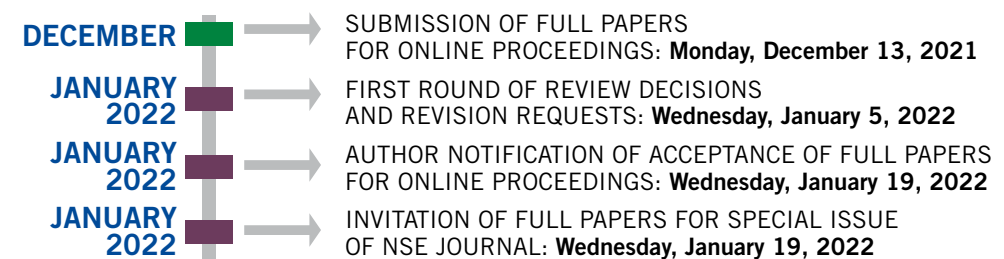
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William Horak, Brookhaven National Laboratory

ABSTRACT DEADLINE: MONDAY, JULY 12, 2021



PROCEEDINGS PUBLICATION SCHEDULE



AccApp'21 is the fourteenth international topical meeting on the applications of accelerators; it is being organized by the **Accelerator Applications Division (AAD)** of the American Nuclear Society (ANS). **AccApp'21** is co-sponsored by the National Nuclear Security Administration (NNSA), Texas A&M University, and International Atomic Energy Agency (IAEA). **AccApp'21 will be held as an embedded topical meeting at the 2021 ANS Winter Meeting, Nov. 30 to Dec. 4, 2021, Washington, DC.**

AccApp meetings provide a platform for the dissemination of knowledge on the diverse applications of accelerators. AccApp conferences focus on the production and utilization of accelerator-produced neutrons, photons, electrons, and other particles for scientific and industrial purposes; the production or destruction of radionuclides significant for energy, medicine, cultural heritage, or other endeavors; safety and security applications; and medical imaging, diagnostics, and therapeutic treatment.

The conference provides an opportunity for nuclear physicists, accelerator physicists, nuclear engineers, and other experts in the international community to meet and discuss their research face-to-face. These interactions can help establish good working relationships and collaborations to solve common problems across multiple disciplines. Also, old friendships can be cultivated, and new ones established. You are cordially invited to participate in AccApp'21 by submitting an abstract, making an oral or poster presentation, and submitting a full paper for publication in our conference proceedings. Selected papers will also be published by the ANS journal Nuclear Science and Engineering.

The deadline for abstract submission (250-word limit) is July 12, 2021. Full papers should be a maximum of 10 pages. There is no page charge for four or fewer pages. For longer papers, the page charge is \$25.00 per page for p. 5 and above. The template for abstract preparation can be found at <https://www.ans.org/meetings/view-wm2021/>

SUBMIT AN ABSTRACT

<https://epsr.ans.org/meeting/?m=359>

PROGRAM SPECIALIST

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CALL FOR PAPERS

1. ACCELERATOR AND ACCELERATOR DRIVEN 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

2. ACCELERATOR AND ACCELERATOR DRIVEN 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

3. NUCLEAR DATA

- Nuclear Reaction Models and Applications
- Charged Particle, Fission and Fusion Cross-Sections and Applications
- Photonuclear Cross-Sections and Application
- High Energy Particle Modeling, Experiments, and Applications

4. ACCELERATORS FOR MATERIAL SCIENCE

- Advanced Materials for Fission and Fusion Reactors
- Materials Degradation under Irradiation
- Materials modification and analysis with ion beams

5. HIGH-POWER ACCELERATOR COMPONENTS AND TARGETS

- Windows, Beam Monitoring Systems, and Beam Dumps
- Targets

6. EFFECTS ON MATERIALS FOR MICROELECTRONICS WITH FAST PARTICLES

- Low Energy Nuclear Methods for Space, Aviation, and Other Applications
- Radiation Effects in Semiconductor and Microelectronics

7. ACCELERATORS FOR SECURITY AND FORENSICS

- Border Security
- Replacing High Activity Sources with Accelerator-Based Irradiators
- Nuclear Techniques for Forensics

8. ACCELERATORS FOR ENVIRONMENTAL STUDIES

- Environmental Monitoring
- Climate Change and Natural Disasters

9. MEDICAL APPLICATIONS OF ACCELERATORS

- Production of Medical Radioisotopes
- Hadron Therapy
- BNCT
- Radiobiology

10. INDUSTRIAL APPLICATIONS OF ACCELERATORS

- Electron and X-Ray Irradiation
- Industrial Applications of Ion Beams

11. ACCELERATORS FOR CULTURAL HERITAGE

- Authentication, Dating, and Characterization
- Conservation