

Call for Abstracts June 25, 2020 Abstract Submission Deadline November 2, 2020 Notification of Acceptance January 15, 2021 **Registration Opening**



TIP

The 7th International Conference on Advancements in Nuclear Instrumentation Measurement Methods and their Applications



APPLICATION FIELDS

Instrumentation and Measurement in:

Fundamental Physics Space Sciences and Technology Fusion Diagnostics and Technology Research Reactors and Particle Accelerators Nuclear Power Reactors Monitoring and Control Severe Accident Monitoring Nuclear Fuel Cycle, Safeguards and Homeland Security Decommissioning, Dismantling and Remote Handling

Environmental and Medical Sciences

Education, Training and Outreach

imenp

Prague

Clarion Congress Hotel

June 21-25 2021







ipfn

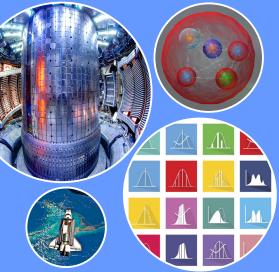




Conference Scope

ANIMM/

conference brings together scientific, academic and industrial communities interested or actively involved in the R&D related to nuclear instrumentation and measurement methods. The program is focused on instrumentation but emphasizes the latest developments in all signal detection. measurement stages: modelling, electronics treatment, signal analysis, modeling acquisition and associated and training interpretation activities. Animma offers education an outstanding opportunity for scientists and engineers to meet and discuss new ways to address complex problems and find advanced solutions in nuclear instrumentation and measurement sciences and technologies.



CONTRIBUTIONS

Detailed instructions for the preparation of the papers, posters and oral presentations will be available on the conference website.

STUDENT GRANTS

Brand new financial support for students is being prepared. Detailed information will be given on the conference website.



Several scientific workshops will be proposed on numerical works and on experimental R&D from fundamental physics to direct applications. A detailed program will be available shortly on the conference web site.

Contact: Christelle Reynard-Carette christelle.carette@im2np.fr

SHORT COURSES

An advanced program of short courses will be offered at the start of the ANIMMA 2021 conference. Starting from the physical principles, the courses will present a selection of applications of radiation detectors as well as nuclear measurements in various fields, including a hands-on demonstration session with state-of-the-art nuclear instrumentation equipment. Updated information, detailed program and schedule will be available shortly. **Contact:** Ludo Vermeeren ludo.vermeeren@sckcen.be

SATELLITE MEETINGS

The opportunity may be given to organize satellite meetings within the ANIMMA scope. **Contact:** Ivan Stekl ivan.stekl@utef.cvut.cz

INDUSTRIAL EXHIBITIONS

Throughout the conference, a technical exhibition will be constantly available to the participants.

FUNDAMENTAL PHYSICS

- nuclear and particle physicsadvanced electronics for radiation
- detection and radiation effects mitigationinnovative data analysis methodologies

SPACE SCIENCES AND TECHNOLOGY

- electronics and sensors vulnerability
- very low power and mass sensors
- miniaturization design techniques
- onboard control and data processing units
- robust and hardened architectures

FUSION DIAGNOSTICS AND TECHNOLOGY

- burning plasma diagnostics
- radiation hardened detectors and electronics
- experimental techniques for high-T plasmas
- high-availability electronics for DAQ and control

RESEARCH REACTORS AND PARTICLE ACCELERATORS

- calibration and tests of mock-up sensors under laboratory conditions (thermal-hydraulic, mechanical, thermal studies)
- radiation detection
- in-pile measurements of physical parameters including temperature, dimensions, gas release
- accelerator beam diagnostics and characterization
- material testing reactors
- safety experiments
- accelerator beam
 position monitors
- beam loss/beam profile measurement
- optical diagnostics
- collision rate measurement

NUCLEAR POWER REACTORS MONITORING AND CONTROL

- nuclear power plants (GEN2, GEN3, GEN3+)
- GEN IV reactors (SFR, LFR, VHTR, GFR,...)
- SMR

Scientific Fields

SEVERE ACCIDENT MONITORING

- high temperature and pressure measurements
- radiation measurement in harsh media
- electronics hardening
- wireless and remote robotic measurements

NUCLEAR FUEL CYCLE, SAFEGUARDS, HOMELAND SECURITY

- radioactive wastes management
- nuclear material and spent fuel
- nuclear fuel cycle facilities
- dismantling operations
- safeguards
- reprocessing plants
- illicit trafficking
- nuclear material control and characterization
- high efficiency neutron measurements
- nuclear fuel control and management

DECOMMISIONING, DISMANTLING AND REMOTE HANDLING

- materials and radioactive wastes management
- techniques and process improvements, radiological characterization, waste treatment, decontamination
- remote handling

ENVIRONMENTAL AND MEDICAL SCIENCES

- advancements in mass spectrometry measurements
- application of radioactive tracers
- radiography, imagery, tomography
- methods in extreme conditions

EDUCATION, TRAINING AND OUTREACH

- experimental sciences
- basics in instrumentation and measurement sciences and technologies
- measurement methods and their applications
- PhD. and summer schools, refresh courses
- communicating nuclear to the public

ABSTRACTS

Authors are invited to submit their abstracts electronically through the Conference website. Please create an account, login and submit the abstract using the Call for Abstracts tab. All abstracts will be reviewed by the scientific committee. Accepted abstracts will be classified as either oral or poster contributions. Notification of acceptance will be sent to each author.

PUBLICATIONS

All presented papers at the ANIMMA 2021 conference will be published in the Conference Record, which will be available online for all registered participants. The Conference Record will be submitted to the European Physical Journal: Web of Conferences for formal publication. ABSTRACT SUBMISSION DEADLINE NOVEMBER 2 2020



COMMITTEE CHAIRS PLENARY SESSIONS ORAL SESSIONS INTENSIVE ORAL SESSIONS POSTER SESSIONS WORKSHOPS SHORT COURSES INDUSTRIAL EXHIBITS

General & Program Committee Chair Abdallah Lyoussi Scientific Committee Chair and Co-chair Michel Giot and Michel Carette Steering Committee Chair and Co-chair Ivan Stekl and Stanislav Pospisil Local Organizing Committee Chair Rastislav Hodak Workshops Organization Chair Christelle Reynard-Carette Short-courses Organization Chair Ludo Vermeeren

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