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2017 Geant4

USER WORKSHOP AND COLLABORATION MEETING
WOLLONGONG, AUSTRALIA

2017 Geant4 User Workshop

19 – 22 September 2017
Sage Hotel, Wollongong

CENTRE FOR
MEDICAL
RADIATION
PHYSICS



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2017 Geant4

USER WORKSHOP AND COLLABORATION MEETING
WOLLONGONG, AUSTRALIA

Sponsored by

- By the **School of Physics, University of Wollongong (UOW)**
 - Thanks to the Head of School, **Ass. Prof. Michael Lerch**
- The **Centre For Medical Radiation Physics, UOW**
 - Thanks to the Director, **Dist. Prof. Anatoly Rosenfeld**

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The Geant4 User Workshop in a snapshot

53 attendees

Countries

- Australia: 34
- New Zealand: 2
- China: 4
- Japan: 1
- US: 2
- Europe: 10 (France, UK, Spain, Switzerland, The Netherlands, Poland)

35 oral presentations

- Geant4 and its recent developments
- TOPAS, GATE
- Physics models
- Applications of Geant4 in medical physics
 - X-ray radiotherapy, Microbeam Radiation Therapy, hadrontherapy, nanomedicine, imaging
 - Dosimetry, micro- and nano-dosimetry

20-22nd September

- <http://geant4workshop-2017.com/>
- Program available on the webpage

① geant4workshop-2017.com/geant4-user-workshop/

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The User Workshop is open to all the interested Geant4 user communities in radiation physics, from High Energy Physics to Medical Physics and Space Science, including users of any Geant4-based platform such as GATE, TOPAS, GAMOS, GRAS, etc. Topics include use-cases, validations, concerns and requests for current and future developments of the Geant4 Monte Carlo Toolkit. Registration is required for attendance. Talks will be selected based on abstract submission.

Chair: Susanna Guatelli, Centre For Medical Radiation Physics, University of Wollongong, NSW, Australia

Co-Chair: Makoto Asai (SLAC, US)

Scientific Committee: Gabriele Cosmo (CERN, Switzerland), Dean Cutajar (CMRP, University of Wollongong, Australia), Andrea Dotti (SLAC, US), Gunter Folger (CERN, Switzerland), Laurent Garmier (INS2I/IRISA, France), Sebastien Incerti (CENBG, France), Vladimir Ivanchenko (CERN, Switzerland), Soon Yung Jun (Fermilab, US), Koichi Murakami (KEK, Japan), Petteri Nieminen (ESA, The Netherlands), Luciano Pandola (INFN, Italy), Francesco Romano (National Physical Laboratory, UK), Giovanni Santin (RHEA, ESA, The Netherlands), Marc Verderi (IN2P3/LLR, France)

Local Organising Committee: Dean Cutajar, Susanna Guatelli, Peter Metcalfe, Anatoly Rozenfeld (Centre For Medical Radiation Physics, University of Wollongong, NSW, Australia)

Administration Officers: Karen Ford (kford@uow.edu.au) and Kathy Lyon (lyon@uow.edu.au)

[Link to the Scientific program \(Indico\).](#)

Please load
your
presentation
during the
session
breaks

- Overview
- Timetable**
- Contribution List
- Participant List
- Videoconference Rooms

<http://geant4workshop-2017.com/geant4-user-workshop>

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Timetable

< Tue 19/09 Wed 20/09 Thu 21/09 Fri 22/09 All days >

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08:00	Registration & Coffee: Registration	
09:00	<i>Grand Pacific</i>	08:30 - 09:10
	Chairs: Joseph Perl and Dean Cutajar	
	<i>Grand Pacific</i>	09:10 - 09:15
	Welcome address	Susanna Guatelli
	<i>Grand Pacific</i>	09:15 - 09:30
	Solid State Micro-and Mini-Dosimetry in Particle Therapy	Anatoly Rosenfeld
	<i>Grand Pacific</i>	09:30 - 10:00
10:00	Geant4 – past, current and future	Makoto Asai
	<i>Grand Pacific</i>	10:00 - 10:30
	Tea break	
	<i>Grand Pacific</i>	10:30 - 11:00
11:00	Geant4 for medical physics: recent developments	Susanna Guatelli
	<i>Grand Pacific</i>	11:00 - 11:30
	The Geant4 Geometry modeler, recent developments	Gabriele Cosmo
	<i>Grand Pacific</i>	11:30 - 12:00
12:00	Recent developments of the Geant4-DNA extension of the Geant4 Monte Carlo simulation toolkit	Dr. Sebastien Laurent Incerti
	<i>Grand Pacific</i>	12:00 - 12:30

It is possible to
download
abstracts

Best student oral presentation

- Sponsored by **Amentum Defence and Security**
– <http://www.amentum.com.au/>
- \$250
- The winner of the Award will be announced on Friday, after lunch.



I. Cornelius

Geant4 Technical Forum

- At the conclusion of the Geant4 User Workshop, we will have the Technical Forum,
 - Friday, the 22nd of September, 2:15 pm
- The Technical Forum will be very informal and should be the space for Q&A, open discussions, etc.
- In particular some topics of discussion will be:
 - The current Geant4 User Requirements (URs) emerging from medical physics.
 - Any issue/suggestion/proposal concerning Geant4 and its development, in particular for medical physics.
- **We encourage you to have an oral presentation at the Technical Forum.**
- Please, let us know if you can contribute to the Technical Forum.

We really look forward to have your contribution in this context.



Welcome!