



SERESSA 2009



5th International School on the Effects of Radiation on Embedded Systems for Space Applications

JAEA Takasaki Advanced Radiation Research Institute
Takasaki, Japan
December 2-4th, 2009

General Chairs

Pascal Fouillat, *IMS, France*
Raoul Velazco, *TIMA, France*

Program Chair

Vincent Pouget, *CNRS, France*

Local Chairs

Takeshi Ohshima, *JAEA, Japan*
Satoshi Kuboyama, *JAXA, Japan*

Liaisons

Europe: Philippe Calvel, *TAS, France*
North-America: Dale McMorrow, *NRL, USA*
Latin-America: Ricardo Reis, *UFRGS, Brazil*

Preliminary list of lecturers

P. Adell, *JPL, USA*
H. Barnaby, *ASU, USA*
G. Berger, *UCL, Belgium*
S. Buchner, *NRL, USA*
S. Duzellier, *ONERA, France*
R. Ecoffet, *CNES, France*
F. Lima-Kastensmidt, *UFRGS, Brazil*
D. McMorrow, *NRL, USA*
M. Pignol, *CNES, France*
V. Pouget, *IMS, France*
R. Velazco, *TIMA, France*

And others...

CALL FOR PARTICIPATION

This three day school combines the academic, government, and industrial communities working in the area of radiation effects on embedded systems. Radiation effects are a significant concern for space and avionic systems, as well as for critical applications operating at ground level (automotive, medical, banking...). Lecturers with significant experience in key selected subjects will provide complete state-of-the-art instruction in this strategic field.

The school is based on lectures, exercises, and practical courses involving real case studies using the common tools of the domain. The topics cover the full spectrum of radiation effects on space embedded systems: space environment, error mechanisms, testing, hardening by design, rate prediction...

The intended audience includes both beginning and experienced researchers, engineers, and post-graduate students wishing to enhance their knowledge base in this rapidly evolving field.

Preliminary Program

- Environment
- Spacecraft anomalies
- Single-event effects
- Total dose effects
- Radiation effects in Power Systems
- Radiation effects in solar cells
- Architecture hardening
- Software hardening
- SEE in FPGAs
- Hardness assurance methodology
- Rate prediction
- Radiation testing
- Laser testing
- Remote experiments

Registration deadline: November 12th, 2009

For information and registration: <http://www.ims-bordeaux.fr/SERESSA2009>

Number of participants is limited

Please use any of the contacts below for additional information

| General Information | Program Information | Local Information |
|---|--|--|
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About the venue: Takasaki is 100km North-West of Tokyo, accessible from Tokyo station by commuter train, served by 3 airports, providing a convenient location for Japanese and International participants.

