

SERESSA 2015

11th International School on the Effects of Radiation on Embedded Systems for Space Applications

Image: HAWC (High Altitude Water Cherenkov Observatory)

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Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE)
Puebla, Mexico, November 30th-December 4th, 2015

CALL FOR PARTICIPATION

This five-day school combines academic, government, and industrial communities working in the area of radiation effects on embedded systems. Radiation effects are a significant concern for space and avionics systems, as well as for critical applications operating at ground level (automotive, medical, and 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 demonstrations involving real case studies using the common tools of the domain. The topics cover the full spectrum of radiation effects in space embedded systems: space environment, error mechanisms, testing, hardening by design, error rate prediction.

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

Topics of Interest include, but are not limited to:

- Environment
- Spacecraft anomalies
- Single-event effects
- Total dose effects
- Architecture hardening
- Software hardening
- SEE in FPGAs
- Hardness assurance methodology
- Error rate prediction
- Radiation facilities

The event will be held at the Instituto Nacional de Astrofísica, Óptica y Electrónica (INAOE), in Tonantzintla, Puebla, México (<http://www.inaoep.mx>). It is a national, public research center specializing in Astrophysics, Optics, Electronics and Computer Science. The INAOE was founded in 1971, replacing the National Astrophysics Observatory, which in turn was established in 1942. The Institute is very close to the city of Puebla, the state capital, and Cholula, a millenary city with many attractions. It is well connected by air, either by Puebla's International Airport or by México City's, two hours away.

Accepted papers will be published in the SERESSA School proceedings, and will be presented in poster sessions.

Submission Deadline: September 25th, 2015

Notification of Acceptance: October 2nd, 2015

Registration Deadline: October 9th, 2015

Number of participants is limited.

For additional information, please contact:

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