



Tyrol Austria



Take the Inntal highway **A12/E60** and exit at Ötztal into the Ötztalstraße **B186** (Ötztalstreet). Pass **Sautens, Ötz** and **Umhausen**. After approximately 22 kilometer you reach **Längenfeld**.

For further information please contact the conference hotel .



Take the train to **Ötztal train station**, continue with the **regional bus 4194**, which has the final destination: „Obergurgl Zentrum“, till **Längenfeld**. Duration: approximately 40 minutes.

From Innsbruck there is a train leaving from the central railway station to Ötztal train station.

For further information visit: www.oebb.at/en/ or contact the conference hotel.



The nearest airports are: **Innsbruck, Salzburg** or **Munich**

Daily flight connections to Innsbruck are from Frankfurt, London and Vienna.

For further information please contact the conference hotel.

FOR FURTHER INFORMATION PLEASE VISIT

www.radecs2010.ait.ac.at



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RADECS
austria
CONFERENCE 2010

11TH EUROPEAN CONFERENCE ON
RADIATION EFFECTS ON
COMPONENTS AND SYSTEMS

20-24 SEPTEMBER, 2010
AQUA DOME LÄNGENFELD, AUSTRIA

ANNOUNCEMENT AND FIRST CALL FOR PAPERS



www.radecs2010.ait.ac.at

Supported By Aeroflex
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Local Arrangements
Lukas Buchhammer
Aqua Dome

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Austrian Space Forum

The AIT - Austrian Institute of Technology organises in collaboration with the University of Montpellier II the 11th European Conference on Radiation Effects on Components and Systems, RADECS 2010. The conference venue is at the Aqua Dome Hotel in Längenfeld, close to Innsbruck, Austria on 20-24 September. The conference features a technical program dedicated to the latest developments and experimental observations related to radiation effects on electronic and photonic components as well as on devices and systems. The technical program includes oral and poster sessions. The conference will also host a technical exhibition and a workshop on radiation effects. The working language of the conference is English.

The conference theme is **Effects in Micro- and Nanometer Site Sizes due to Radiation Exposure**.

Papers describing nuclear and space radiation effects on electronic and photonic materials, devices, circuits, sensors, and systems as well as semiconductor processing technology and design techniques for producing radiation tolerant (hardened) devices and integrated circuits, will be presented at this meeting of engineers, scientists, and managers. International participation is strongly encouraged.

We are soliciting papers describing significant new findings in the following or related areas:

Basic Mechanisms of Radiation Effects in Electronic and Optical Materials

- Total ionizing dose and dose-rate effects
- Displacement damages
- Single-event charge collection and transient mechanisms
- Processing-induced radiation effects
- Modelling and simulation of defects
- Radiation transport and energy deposition

Radiation Effects on Electronic and Photonic Devices, Circuits and Systems

- MOS, bipolar and other advanced technology
- Optoelectronic and optical devices
- Isolation technologies
- Novel structure and design, nanotechnology and MEMS
- Modelling of devices, circuits and systems
- Low and high temperature effects
- Single-event effects
- Radiation hardening and mitigation

Radiation Environment

- Space and avionics
- Feedback experience on ground and in-orbit testing
- Terrestrial radiation effects
- High energy physics
- Nuclear industry and medicine

Irradiation Facilities and Hardness Assurance

- New testing facilities and dosimetry
- Radiation hardness assurance, test methods and standards

New Developments of Interest to the Radiation Effects Community.

PROCEDURE FOR SUBMITTING SUMMARIES

Authors must conform the following requirements:

1. Prepare a single Adobe Acrobat file (maximum 5 pages) consisting of:

■ **a cover page:** with the paper title, the authors list and their affiliation and a 35 words abstract. Authors are requested to state their preference for presentation (oral, poster, or data workshop) and the technical session. Also indicate clearly the contact author responsible for the summary submission with a valid email address as well as complete phone and fax number.

■ **an extended summary:** consisting of **two to four pages** (references included). The summary must provide sufficient details about the work using clear graphs or photographs, readable tables and a valid reference list permitting a technical review. The authors must indicate (a) the purpose and context of the work, (b) new results or findings and (c) how the work advances the understanding of radiation effects. The authors should obtain all corporate, sponsor, and government approvals and releases necessary for presenting their paper at an open-attendance international meeting. Authors must use the provided template for the extended summary. **Note that this is more than an abstract, but do not exceed four pages.**

2. Summaries must be received by **April 2, 2010**.

3. Detailed submission and formatting instructions will be available after **January 4, 2010** at www.radecs2010.ait.ac.at.

Papers accepted for oral or poster presentation will be eligible for publication in the conference issue of the IEEE Transactions on Nuclear Science, based on a separate submission of a complete paper, and subject to an independent review after the conference. Further information will be sent to prospective authors upon acceptance of their RADECS summary.

THEMATIC WORKSHOPS

On Monday, September 20, on request also Sunday, Thematic Workshops are held. Interested groups who would like to use conference rooms for their own meetings have to contact the conference organizer.

RADIATION EFFECTS DATA WORKSHOP

The Radiation Effects Data Workshop is a forum for papers on radiation effects data on electronic devices and systems. Workshop papers are intended to provide radiation response data to scientists and engineers who use electronic devices in a radiation environment, and for designers of radiation-hardened systems. Papers describing new simulations or radiation facilities are also welcomed. The procedure for submitting a summary to the Work-

shop is identical to the procedure for submitting RADECS summaries. Radiation Effects Data Workshop papers will be published in a Workshop Record and are not candidates for publication in the Conference issue of the IEEE Transactions on Nuclear Science.

AQUA DOME SPA, LÄNGENFELD TYROL - AUSTRIA

The **RADECS2010** will be held at the Aqua Dome Spa Hotel in Längenfeld, which is close to the city of Innsbruck in the valley Ötztal of the province Tyrol in Austria. Innsbruck offers very good daily flight connections from Frankfurt, London and Vienna. An airport shuttle brings you directly to Längenfeld.



Photo: Aqua Dome Spa and Conference Hotel, Längenfeld.

The conference vicinity is a historical place for cosmic radiation scientists. An Austrian Nobel Prize winner and cosmic radiation discoverer, Victor Hess, worked in his mountain laboratory at 2300 m of altitude. A visit to this lab is planned during the conference.

The Ötztal valley is well known for the so called "Ötzi", the Iceman, a well-preserved natural mummy of a man from about 3300 BC (53 centuries ago). Famous touristic places within the Ötztal are Sölden, Obergurgl, and Hochgurgl up to 3000 m altitude. Well known and nearby are also Meran (Italy), the castle Neuschwanstein (Germany), Swarovski Kristallwelten at Wattens, and the Mozart town Salzburg. The Munich Oktoberfest is organized at the same time and as well as after the conference. Moreover, the location offers fantastic mountain sceneries and the possibility of hiking tours along the 150 km of marked trails along the Ötztal valley. The friendly environment and the close contact with the lovely nature will encourage discussions between the attendees.

The Aqua Dome Spa offers excellent recreation after the conference day, with your family, friends or colleagues. Together with outstanding Austrian food and wine your stay will be relaxing and enjoyable. For more information on Längenfeld visit www.laengenfeld.com; for additional information on the Aqua Dome Spa Hotel, visit www.aqua-dome.at.