

# 2nd *ISEA* WINTER SCHOOL IN SPORTS ENGINEERING

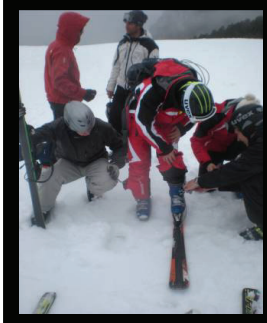
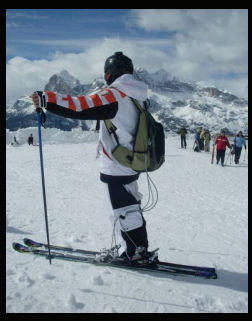
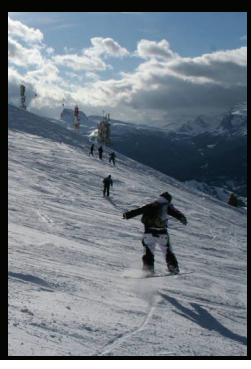
## *WINTER SPORTS EQUIPMENT EVALUATION for SAFETY & PERFORMANCE*

## 4th - 9th MARCH 2012

## San Vito di Cadore – Cortina d'Ampezzo (Italy)





**http://www.tu-chemnitz.de/mb/sgt/winterschool/index.php**
**http://www.ing.unipd.it/_eng_site/Download/WinterSchool/Brochure2012.pdf**
**facebook:** *ISEA Winter School Sports Engineering 2012*

The School will focus on **Winter sports equipments**, providing students with the opportunity to enhance their knowledge and expertise on **ski, snowboard, cross country ski and other winter sport devices and disciplines**, especially with relation to **safety and performance**. *Theoretical lectures*, read by expert Professors active in the field of Sports Engineering, will be complemented by *technical sessions*, with a "hands-on" approach to the application of sensors and the use of systems applied to sport equipments. During the *field test sessions* on the slopes, equipments and data collection systems will be used, taking advantage of the seasonal snow and the unique environment of Cortina d'Ampezzo's valley.


**ORGANIZING COMMITTEE:**

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**COURSE LOCATION**: "Centre of Studies of Alpine Environment", University of Padova, San Vito di Cadore, Italy (www.tesaf.unipd.it/sanvito/index.asp)

**PRELIMINARY PROGRAMME:**

Lectures: *Equipment Design, Winter sport Materials, Field data collection techniques, sensors for Field Data Collection.*
Techniques: *Experimental Methods (Ski-Snowboard load cells, Pressure Insoles, EMG, IMU sensors).*
Field Data Analysis: *Upload of field data and preliminary analysis: teachers will assist in the re-analysis of the data collected on the field.*
**TEST SESSIONS:** Time spent on the slopes, divided into groups. Field data collection and equipment comparative evaluation. (Ski-snowboard load cells, Pressure Insoles, EMG, IMU sensors…) (Ski - Boot - Snowboards comparative evaluation..)

The course fee for **ISEA students** is **250 €** (270 € non members, including student membership), covering accommodation from March 4th to 9th (5 nights, breakfast and dinner included) at Hotel Park des Dolomites (http://www.parkdesdolomites.it)

Registration (by Feb. 20): stephan.odenwald@mb.tu-chemnitz.de
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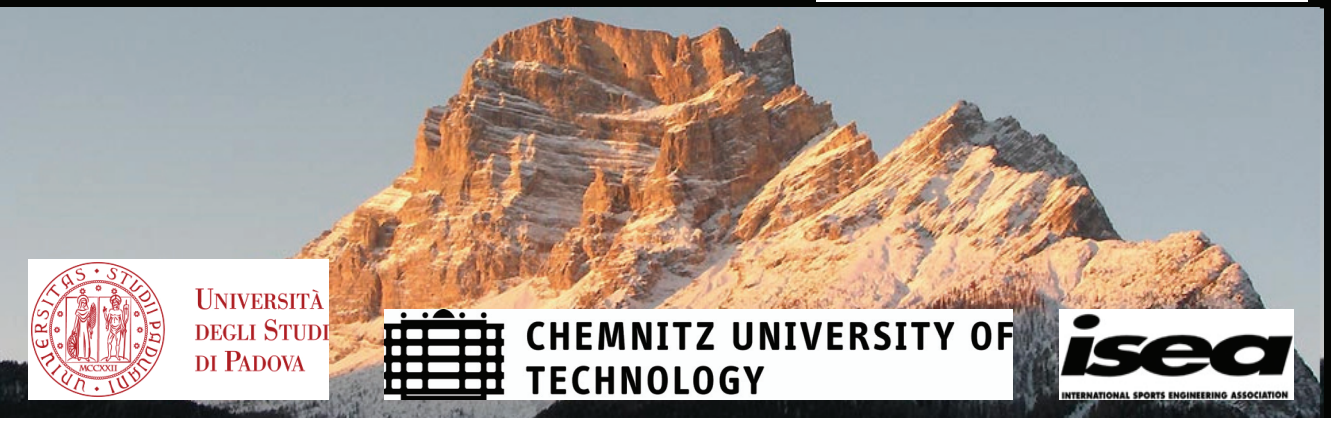

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