

Programme  
**1st EUREGIO RESEARCH COOPERATION DAY**

October, 24th and 25th 2013  
at the Free University of Bozen-Bolzano  
Piazza Università 1 – Bolzano

Participating Universities:

Free University of Bozen-Bolzano (FUB)

University of Innsbruck (UIBK)

University of Trento (UNITN)

**Thursday, October 24th**

**Introduction** (chair: S. Zerbe) **Room D1.01**

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|-------------|---|
| 10.30-10.40 | S. Zerbe (Vice-Rector for Research FUB):<br>Welcome/Begrüßung/benvenuto   |
| 10.40-10.55 | S. Schindler (Vice-Rector for Research UIBK): General introduction on<br>research at the University of Innsbruck  |
| 10.55-11.10 | A. Quattrone (Vice-Rector for Research UNITN): General introduction on<br>research at the University of Trento  |
| 11.10-11.20 | S. Zerbe (Vice-Rector for Research FUB): General introduction on<br>research at the Free University of Bozen-Bolzano  |
| 11.20-12.00 | General introduction of Research at the 5 FUB faculties (8 min. each)<br>M. Tagliavini (Dean of the Faculty of Science and Technology, FUB)<br>P. Abrahamsson (Dean of the Faculty of Computer Science, FUB)<br>L. Courteau (Dean of the School of Economics and Management, FUB)<br>G. Glüher (Dean of the Faculty of Design and Art, FUB)<br>F. Comploi (Dean of the Faculty of Education, FUB) |
| 12.00-13.00 | <b>Lunch for at the FUB canteen</b>   |

**Plenary session: Highlights of research at the Universities of Trento and Innsbruck**

(chair: A. Quattrone) **Room D1.01**

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|-------------|---|
| 13.00-13.30 | N. Pugno: Bioinspired Materials (UNITN)   |
| 13.30-14.00 | S. Scherer: Research on Social Inequalities (UNITN)                                 |
| 14.00-14.30 | M. Kirchler: Do Markets Erode Moral Values per se? (UIBK)                           |
| 14.30-15.00 | T. Fahringer: Optimizing Parallel Programs for Runtime, Costs, and<br>Energy (UIBK) |

15.00-15.30            **Coffee break**

(15.30-18.00) **Parallel sessions**

**Session I: Humanities & Social Sciences** (chair: R. Franceschini)

8 min. each (incl. discussion) **Room D1.01**

15.30-17.30            A. Saxalber & A. Schneider: Lesen und Schreiben in den Sachfächern (FUB)  
R. Franceschini & S. Dal Negro: Cultural Contacts and Multilingualism - Continuity and Discontinuity in Alpine Regions (FUB)  
J. Druml: Deutsch als Zweitsprache und Literatur in Lehre und Ausbildung: theoretische Grundlagen und Fallstudien (FUB)  
P. Videsott: Research on Ladin language (FUB)  
S. Baroncelli: Language as a factor of political and social integration (FUB)  
S. Elsen & J. Schicklinski: wwwforeurope – work, wealth, welfare, Europe moving to a new path (FUB)  
D. Ianes: Inclusive Education (FUB)  
G. Wallnöfer: Internationale Curriculumforschung im Primarbereich & Ausbildungsmodelle im Frühpädagogischen Bereich (FUB)  
F. Ricci Garotti: The debate of bilingual education: policy and research in Italy (UNITN)  
S. Scherer: Department Presentation (UNITN)  
L. Bianchin: Transformation der Souveränität und Schutz der Menschenrechte (UNITN)  
A. Oberprantacher, E. Binder, B. Mertz-Baumgartner, N. Grüne: Borders: Contact - Communication - Conflict (UIBK)  
E. Kistler: Network Societies 500 B.C. and Today - New Perspectives from Archaic Western Sicily (UIBK)

17.30-18.00            Final session: discussion

**Session II: Economics** (chair: A. Narduzzo) 20 min. each (incl. discussion) **Room E3.20**

15.30-17.30            A. Narduzzo: Managing ill-structured problems - Entrepreneurship & Innovation (FUB)  
A. H. Hamel: Set Optimization and Mathematical Finance (FUB)  
S. Trento: Department Presentation (UNITN)  
R. Raffaelli: Sustainable Alpine tourism and sustainable consumption: towards an interdisciplinary approach(UNITN)  
A. Hemetsberger: The Democratization of Markets - Practices of Sharing (UIBK)

17.30-18.00            Final session: discussion

**Session III: Engineering** (chair: S. Schindler) 12 min. each (incl. discussion) **Room E3.23**

15.30-17.30            A. Gasparella: Technology Park South Tyrol (FUB)

M. Mincheff: Embedded Systems Engineering - From Sensors to Digital Signal Processing and Closed-Loop Control (FUB)

R. Vidoni: Automation and robotics for SMEs (FUB)

M. Da Lio: Artificial Co-Drivers as an Enabling Technology for Future Intelligent Vehicles and Transportation Systems (UNITN)

P. Scardi: Thin Films Solar Cells for Advanced Fotovoltaics (UNITN)

M. Benedetti: Materials for Mechanics and for Structural Applications (UNITN)

G. Hofstetter: Numerical Modeling of the Advance of Deep Tunnels (UIBK)

A. Bockreis: Cascading approach of biowaste treatment (UIBK)

C. Zierhofer: Electrical Hearing with Cochlear Implants (UIBK)<sup>3</sup>

A. Saxer/S. Unterberger: Multiscale Engineering - From Research to Industrial Application (UIBK)

17.30-18.00 Final session: discussion

**Session IV: Informatics** (chair: S. Helmer) 15 min. each (incl. discussion) **Room E5.22**

15.30-17.30 A. Sillitti: Energy-aware software systems (FUB)

S. Helmer: Itinerary Planning for Tourist Applications (FUB)

M. Montali: Management and verification of data and business processes (FUB)

G. Specht: Intrinsic Plagiarism Detection (UIBK)

G.P. Picco: Department Presentation (UNITN)

R. Lo Cigno: Advantage of Joint PhDs under the BIT School (UNITN)

17.30-18.00 Final session: discussion

**Session V: Natural Sciences** (chair: S. Zerbe) 10 min. each (incl. discussion) **Room F0.01**

15.30-17.30 S. Zerbe: Ecosystem restoration and sustainable use of resources (FUB)

U. Tappeiner: Ecosystem Services in changing environments: past, present and future (UIBK)

G. Kaser: Glaciers in the Changing Climate (UIBK)

F. Comiti: Hydrological and geomorphological dynamics of mountain basins (FUB)

S. Risse: The Alps and Caucasus – interdisciplinary and comparative analysis (FUB)

S. Angeli: Plant-insect-interactions and Insect Chemical Ecology (FUB)

L. Pavesi: Physics at Trento: two examples (UNITN)

A. Pugliese: Mathematical Modelling in Biomedical Engineering (UNITN)

U. Hasson: How the Human Brain Codes for the Complexity of the External World: Insights from Neuroimaging Methods (UNITN)

O. Jousson: Integrative Biology at Trento (UNITN)

R. Wester: Elucidating Molecular Processes on an Atomic Level (UIBK)

17.30-18.00 Final session discussion

## **Session VI: Meeting of the 3 Research Offices UNITN, FUB, UIBK Room G1.03**

15.30-17.30 Exchange of best practices

19.00-21.00 (Restaurant La Torcia, Bolzano) **Dinner for the Speakers**

### **Friday, October 25th**

#### **Plenary session: Interdisciplinary research** (chair S. Schindler)

10 min. each (incl. discussion) **Room C2.06**

- 8.30-10.00 A. Vietti & L. Spreafico: The potential of the Ultrasound tongue technique for speech sciences (FUB)  
A. Miotello: Materials for Energetics (UNITN)  
F. Vespignani: Social and Cognitive Aspects of Bilingualism (UNITN)  
A. Valli: Mathematical modelling in biomedical engineering (UNITN)  
M. Andreaus: New opportunities for research in management: some ideas for the discussion (UNITN)  
H. Weck-Hannemann: Integrated Risk Management - an Interdisciplinary and Institutional Approach (UIBK)  
K. Oeggli: HiMAT - an Interdisciplinary Approach to Mining History (UIBK)

10.00-10.30 **Coffee break**

#### **Research facilities at the Free University of Bozen-Bolzano**

- 10.30-12.00 L. Spreafico: Guided tour to the LabALPs - Alpine Laboratory of Phonetics and Phonology (Competence Centre Language, FUB)  
M. Scampicchio: Guided tour to the lab of the Faculty of Science and Technology (FUB)  
G. Winkler: Special services of the FUB Library

12.00-13.00 **Lunch at the FUB canteen**

13.00-17.00 Departure to the University of Trento and visit of research facilities