



**The XLIII Annual Meeting
of the European Society
for New Methods in Agricultural Research
3rd- 6th September 2014, Bolzano, Italy**

The final program

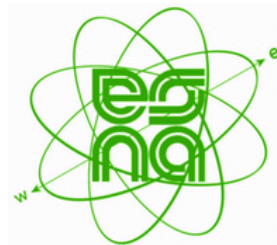
Conference focus

“Feeding the world: the importance of a sustainable Agriculture and innovative methods”

Local Organizer

Free University of Bolzano

Faculty of Science and Technology



Organizing committee

Tanja Mimmo – *Free University of Bolzano*
Stefano Cesco – *Free University of Bolzano*
Stefano Grego – *Università degli Studi della Tuscia*
Michael Pöschl – *Mendel University*
Stefania Astolfi – *Università degli Studi della Tuscia*
Daniele Del Buono – *Università degli Studi di Perugia*
Zeno Varanini – *Università degli Studi di Verona*
Anita Zamboni – *Università degli Studi di Verona*
Nicola Tomasi – *Università degli Studi di Udine*
Youry Pii – *Free University of Bolzano*
Fabio Valentinuzzi – *Free University of Bolzano*
Calogero Capici – *Free University of Bolzano*
Marco Baratieri – *Free University of Bolzano*
Luciano Cavani – *Alma Mater Studiorum Università di Bologna*
Matteo Scampicchio – *Free University of Bolzano*

Meeting Secretariat

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Local scientific committee

Tanja Mimmo – *Free University of Bolzano*
Stefano Cesco – *Free University of Bolzano*
Stefano Grego – *Università degli Studi della Tuscia*
Stefania Astolfi – *Università degli Studi della Tuscia*
Roberto Terzano – *Università degli Studi di Bari*
Nicola Tomasi – *Università degli Studi di Udine*
Cristina Nicoli – *Università degli Studi di Udine*
Claudio Ciavatta – *Alma Mater Studiorum Università di Bologna*
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Conference Program

Wednesday 3rd September 2014

18.00 – 21.00 *Registration and welcome reception*
Free University of Bolzano, Building "F", top floor & terrace

Thursday, 4th September 2014

Morning session: "Introduction to the conference" Room D1.02

9.00 – 10.00 *Registration and coffee break*

10.00 – 10.30 *Welcome by the organizers*

10.30 – 11.20 *Keynote*

Ecological soil function: Retention Properties influenced by Soil Development, Land-use and Management

Martin Gerzabek

University of Natural Resources and Applied Life Sciences, Vienna, Austria

11.20 – 12.10 *Keynote*

Classical and novel approaches for cereal quality improvement

Domenico Lafiandra

Department of Agriculture, Forests, Nature and Energy, Università della Tuscia, Viterbo, Italy

12.10 – 13.00 *Keynote*

Effect of climate changes on sustainability of animal production

Umberto Bernabucci

Department of Agriculture, Forests, Nature and Energy, Università della Tuscia, Viterbo, Italy.

13.00 – 14.30 *Lunch*

Afternoon session: "From Plant to Soil: innovative methods regarding the plant-soil system" Room D1.02

Chairmen: Athanasios Gertsis, Stefania Astolfi

14.30 – 14.50 TEM tomography reveals a three-dimensional reconstruction of the ultrastructural modifications occurring in *Cucumis sativus* mitochondria under Fe deficiency.

Gianpiero Vigani

Università degli Studi di Milano

14.50 – 15.10 Innovative applications of nanoparticles in agriculture

Stefano Grego

Università della Tuscia

15.10 – 16.00 ESNA Committee Meeting

16.00 – 17.00 *Coffee Break and Poster Session*

17.00 – 17.20 Italian ryegrass for the phytoremediation of aqueous solutions polluted with terbuthylazine

Maria Luce Bartucca

Dipartimento di Scienze Agrarie, Alimentari e Ambientali
Università degli Studi di Perugia

- 17.20 – 17.40 A specific approach in rehabilitation of heavy metals polluted coal mine overburden by growing vines (*Vitis vinifera* L.)
Vlado Licina
University of Belgrade

Friday, 5th September 2014

Morning session: “From Soil to Plant: innovative methods regarding the soil-plant system” Room D1.02

Chairmen: Vlado Licina, Stefano Grego

- 9.30 – 9.50 Small scale floating-disk vegetable production: a solution for urban citizens
Athanasios Gertsis
American Farm School
- 9.50 – 10.10 Synchrotron X-ray analytical techniques for iron (Fe) investigations in plant samples
Roberto Terzano
Università degli Studi di Bari
- 10.10 – 10.30 Simulation of the evolution of the soil mobile potassium content in different soil and fertilizing conditions
Gheorghe Budoï
University of Agronomic Sciences and Veterinary Medicine of Bucharest
- 10.30 – 12.05 *Coffee Break and Poster Session*
- 12.05 – 12.25 Use of *Trichoderma harzianum* T-22 as an effective antiviral agent against Cucumber mosaic virus (CMV)
Adriano Sofo
Università degli Studi della Basilicata
- 12.25-12.45 Phytochemical profile and antioxidant properties of different Aloe Species
Luigi Lucini
Università Cattolica del Sacro Cuore
- 12.45- 14.00 Lunch

Afternoon session: “Round Table”

- 14.00-15.00 Poster Session
- 15.00- 16.30 Round Table
Chair: Stefano Grego
Speakers: Vlado Licina, Luigi Lucini, Malgorzata Szczawinska, Anita Zamboni
- 20.30 Social Dinner at:
Parkhotel Laurin
Via Laurin Straße 4, I - 39100 Bolzano Bozen
www.laurin.it

Saturday, 6th September 2014

Morning session: "Food and animal science: innovative methods regarding food products from the soil-plant and plant-soil system" Room D1.02

Chairmen: Matteo Scampicchio, Christian Huck

9.30 – 9.50 Comparison of dipping treatments and pulsed light on fresh cut apples by microcalorimetry

Marco Mason

Faculty of Science and Technology
Free University of Bolzano

9.50 – 10.10 Alps Food Authentication, Typicality, Traceability and Intrinsic Quality by a Novel Analytical Technologies Platform – Introduction of the EU-Project "ORIGINALP"

Christian Huck

Institute of Analytical Chemistry and Radiochemistry CCB—Centre of Chemistry and Biomedicine
Leopold-Franzens University Innsbruck

10.10 – 11.45 *Coffee Break and Poster Session*

11.45 – 12.05 In vitro effects of TCDD and PCB126 on iodothyronine secretion by chicken thyroid gland

Andrzej Sechman

University of Agriculture in Krakow

12.05– 12.25 Is ¹³⁷Cs radioactivity in forest berries a health hazard to humans?

Michael Pöschl

Mendel University in Brno

12.25– 12.45 The effect of temperature on survival rate of *Listeria monocytogenes* in yogurt

Malgorzata Szczawinska

Warsaw University of Life Sciences

12.45– 13.00 Closing remarks

12.45– 14.00 Lunch

14.00– 17.00 Excursions to: Schloss Runkelstein
Bolzano City tour and Ötzi Museum