



PROGRAM

24th International Symposium of the Scientific Centre for Fertilizers

“Plant nutrition and fertilizer issues for specialty crops”

September 6-8, 2016

Coimbra, Portugal



IIIUC INSTITUTO DE INVESTIGAÇÃO INTERDISCIPLINAR
UNIVERSIDADE DE COIMBRA



Jointly organized by

University of Coimbra (UC), Coimbra, Portugal
Institute for Interdisciplinary Research of the University of Coimbra (IIIUC)
Centre for the Research and Technology of Agro-Environmental and Biological Sciences
(CITAB), Vila Real, Portugal
EU-FP7 Project Eurolegume (GA 613781)
International Scientific Centre of Fertilizers (CIEC), Braunschweig, Germany
Institute for Crop and Soil Science, Julius Kühn-Institut, Braunschweig, Germany

5 September 2016

17.00-19.00	Registration
19.00-21.00	Get-together: Introduction to the art of making port including tasting

6 September 2016

08.00-09.00	Registration	
09.00-09.15	Opening Ceremony	Ewald Schnug (President CIEC) Eduardo Rosa (President Symposium)
Session I: Climate change and fertilizer management in specialty crops Chair: Luit J. De Kok (University Groningen, The Netherlands)		
09.15-09.45	<u>Keynote:</u> Influences of climate change on agri-forestry systems	João A Santos (UTAD, Vila Real, PT)
09.45-10.15	<u>Keynote:</u> Effects of climate change, fertilization and grazing on grassland productivity in the Tibetan plateau	Shiping Wang (CAS, Beijing, CN)
10.15-10.35	Zinc priming changes germination, early growth and cytogenetic stability of <i>Triticum aestivum</i> L. under water stress conditions	Ivo Pavia (CITAB, Vila Real, PT)
10.35-10.55	Emissions of ammonia and greenhouse gases during the vermicomposting of duck manure	Jinzhi Wang (CRAES, Beijing, CN)
10.55-11.15	Tea & coffee	
Session II: Fertilizer practices to alleviate abiotic and biotic stress Chair: Eduardo Rosa (CITAB, Vila Real, Portugal)		
11.15-11.45	<u>Keynote:</u> Influence of abiotic and biotic stress on plant growth parameters and quality of specialty crops	Elke Bloem (Julius Kühn-Institut, Braunschweig, DE)
11.45-12.05	<i>Vitis vinifera</i> cell wall in response to restriction in major mineral elements	Sara Amâncio (University Lisbon, PT)
12.05-12.25	Effects of different nitrogen fertilisers and application rates on the growth and caffeic acid derivative contents of <i>Echinacea purpurea</i> (L.) Moench	Suzie Chang (National Taiwan University, Taipei, TW)
12.25-12.45	Phosphorus-induced zinc deficiency in vegetable grown in weak acid soils in typical vegetable growing areas of Dianchi catchment	Zhengyi Hu (UCAS, Beijing, CN)
12.45-13.05	Nutrient demand and nutrient cycling with fast growing trees and options for integration in organic farms	Hans Marten Paulsen (Thünen Institute, Trenthorst, DE)
13.05-14.15	Lunch	
14.15-14.35	Molybdate toxicity and sulfur and nitrogen metabolism in Chinese cabbage	Luit De Kok (University Groningen, NL)

14.35-14.55	<i>The effect of vermicompost on the growth and quality of basil</i>	Margit Olle (Estonian Crop Research Institute, Jõgeva, EE)
14.55-15.15	<i>The effect of effective microorganisms on yield and quality of peas</i>	Margit Olle (Estonian Crop Research Institute, Jõgeva, EE)
15.15-15.45	Tea & coffee	
Session III: The significance of fertilization with respect to climate change, stress and agro-technical innovations (guided poster presentations)		
Chair: Francesco Montemurro (CREA, Metaponto, Italy)		
15.45-17.30	Poster size: 0.9 * 1.2 m (width*length)	
	Climate change & fertilization	
	<i>Modeling climate change impacts on nitrogen stress for the Portuguese viticulture</i>	João A Santos (CITAB, Vila Real, PT)
	<i>Effect of the incorporation of cowpea residues on the yield and greenhouse gas emissions of a following cereal crop</i>	Miguel Oliveira (CITAB, Vila Real, PT)
	Stress & fertilization	
	<i>Potential benefits of kaolin and salicylic acid on olive tree performance and mineral composition of fruits under rainfed conditions</i>	Cátia Brito (CITAB, Vila Real, PT)
	<i>Vitamin B6 ameliorates germination and early growth of <i>Triticum durum</i> L. under water stress conditions</i>	Ivo Pavia (CITAB, Vila Real, PT)
	<i>Effects on germination and early growth of <i>Triticum aestivum</i> L. cv. “Jordão” under different concentrations of selenium</i>	Luís Rocha (CITAB, Vila Real, PT)
	<i>Boron nutrition affects membrane leakage and the chemical composition of leaves and fruits of <i>Olea europaea</i></i>	Ermelinda Silva (CITAB, Vila Real, PT)
	Agro-technical innovations & fertilization	
	<i>Productivity of winter wheat (<i>Triticum aestivum</i> L.) cultivars depending on N-fertilization</i>	Borbála Hoffmann (University of Pannonia, Keszthely, HU)
	<i>Impact of using a biofertilizer in chestnut productivity</i>	Tiago Marques (UTAD, Vila Real, PT)
	<i>Assessment of optimal N fertilizer use on Portuguese maize yield using the STICS crop model</i>	Chenyao Yang (CITAB, Vila Real, PT)
	<i>Valorization of treated wastewater in high saline and waterlogging soil by agroforestry species</i>	Marwa Zouari (Université de Carthage, TN)

7 September 2016

Session IV: Field trip to Alcobaça (pear orchard), Rio Maior (salt domes) and Mira D'Aire (caves with fossil conduits)	
08.00-17.00	Scientific Excursion (Bus)
20.00	Conference dinner in the historic <i>Quinta das Lágrimas</i> , in Coimbra

8 September 2016

Session V: Advanced fertilizer strategies and technologies Chair: Ji Lanzhu (CAS, Shenyang, China)		
09.15-09.45	<i>Keynote: The problem of generalization in enological parameters prediction</i>	Pedro Melo-Pinto (CITAB, Vila Real, PT)
09.45-10.05	<i>New data sources for precision agriculture – Blessing or curse?</i>	Holger Lilienthal (Julius Kühn-Institut, Braunschweig, DE)
10.05-10.25	<i>The progress of research on Chinese stabilized fertilizer</i>	Xudong Zhang (CAS, Shenyang, CN)
10.25-10.45	<i>Protecting the water environment from overused fertilizers</i>	Xia Jiang (CRAES, Beijing, CN)
10.45-11.05	<i>Microbial interactions in legumes: perspectives for improvement of biofertilizers</i>	Guilhermina Marques (CITAB, Vila Real, PT)
11.05-11.20	Tea & coffee	
11.20-11.40	<i>Use of seaweed extracts from <i>Sargassum muticum</i> and <i>Ascophyllum nodosum</i> (Phaeophyceae) as a possible fertilizer</i>	Kiril Bahcevandziev (CERNAS, Coimbra, PT)
11.40-12.00	<i>The dynamics of compost mineralization in a sandy soil</i>	Tünde Erzsébet Remenyik (University Debrecen, HU)
12.00-12.20	<i>Influence of foliar application of magnesium, calcium and boron on some yield parameters of apple</i>	Imre Vágó (University Debrecen, HU)
12.20-12.40	<i>Phosphorus utilization in mixed cropping systems with legumes</i>	Maria Peter (University Rostock, DE)
12.40-13.00	<i>Key aspects of fertilizers and fertilization for closing the anthropogenic and agricultural phosphorus cycle</i>	Silvia Haneklaus (Julius Kühn-Institut, Braunschweig, DE)
13.00-13.15	Closing ceremony	Ewald Schnug (President CIEC) Eduardo Rosa (President Symposium)
13.15-14.15	Lunch	

Symposium Secretariat

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Venue & Accommodation

The **symposium will be held at**

Hotel Dona Inês in Coimbra

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Poster format: 0.9 * 1.2 m (Width*Length)

Oral presentations: Powerpoint (4:3), 15 minutes plus 5 minutes for discussion

Registration Online

Participants register for the symposium and the scientific excursion in the University of Coimbra's webpage, at

https://lojas.ci.uc.pt/uc/product_info.php?products_id=689&language=en

The fee for the symposium package is **250 €**. The fee implies besides free access to conference facilities, abstract proceedings, refreshments, lunches, scientific excursion and conference dinner.

A confirmation of registration including the invoice with the necessary payment details will be sent to you upon registration.

Participants can choose from two payment options:

A. Payment by PayPal (including Credit and Debit Cards)

Accepted payment methods: Visa, MasterCard, Maestro, Discover, American Express

B. Payment by Bank Transfer

The invoice with payment details will be sent to you upon registration. Please quote the Invoice Nr. in your bank transfer!

Questions related to payment issues should be addressed to Lígia Pinto (citab@utad.pt).

Cancellation policy

Cancellations must be sent to the symposium secretariat in writing by mail, fax or email. For cancellations received before August 1st, 2016 the cancellation policy will be

charged with 100.00 EUR. No refunds will be issued after this date; however, it is possible to send a substitute delegate.