

PROGRAM

2nd INTERNATIONAL SYMPOSIUM ON

MAGNESIUM

IN CROP PRODUCTION, FOOD QUALITY
AND HUMAN HEALTH

4-6 NOVEMBER 2014 IN SÃO PAULO, BRAZIL



Mg²⁺

TUESDAY, 4th NOVEMBER

09:00-13:30 Registration and Poster Mounting

OPENING SESSION

Session Chair: Andrea Rosanoff, USA

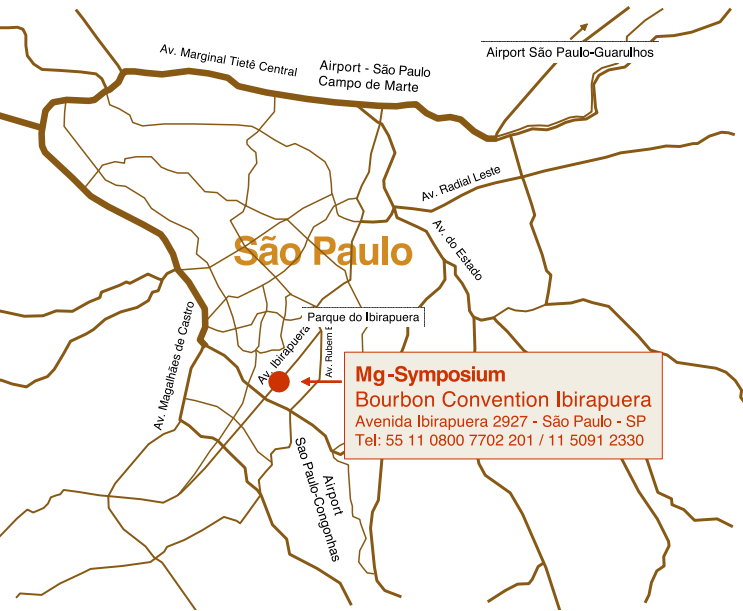
- 13:30-14:00 **Welcome Speeches**
Antonio Roque Dechen, ESALQ/USP, Brazil
Klaus Dittert, Göttingen University, IAPN,
Germany
- Opening Speech
- 14:00-14:45 **Rhian Touyz**, University of Glasgow, UK
Magnesium - From Bench to Bedside

SESSION: MAGNESIUM IN SOIL AND CROP NUTRITION

Session Chair: Philip White, UK

- 14:45-15:15 **Godofredo Vitti**, Brazil
Time and rate effect of magnesium
application by foliar spray on soybean
- 15:15-15:45 **Andreas Gransee**, Germany
The influence of magnesium and its
various chemical forms on the nutrient
uptake of plants
- 15:45-16:15 Coffee Break and Poster Viewing
- 16:15-16:35 **Cherukumalli Srinivasa Rao**, India
Magnesium nutrition in rainfed crop
production systems in India:
An emerging productivity constraint
- 16:35-16:55 **Bernd Ditschar**, Germany
Cations in Ecuadorian tropical soils:
different extraction methods and
interpretation of the analysis
- 16:55-17:30 **General Discussion**
- 18:00-20:00 **Welcome Cocktail**

MAP OF SÃO PAULO



Mg-Symposium
Bourbon Convention Ibirapuera
 Avenida Ibirapuera 2927 - São Paulo - SP
 Tel: 55 11 0800 7702 201 / 11 5091 2330

ORGANIZERS

University of São Paulo, Brazil



Sabancı University, Turkey



The Center for Magnesium
 Education and Research, USA



Institute of Applied Plant Nutrition
 at University of Goettingen, Germany



IN COLLABORATION WITH

International Plant
 Nutrition Institute,
 Brazil office



IAPN - Institute of Applied Plant Nutrition
 University of Goettingen
 Carl-Sprengel-Weg 1
 D-37075 Goettingen, Germany
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WEDNESDAY, 5th NOVEMBER

SESSION: PLANT PHYSIOLOGY AND MOLECULAR BIOLOGY

Session Chair: Zed Rengel, Australia

- 09:00- 09:30** Philip White, UK
 Phylogenetic effects on shoot magnesium concentrations
- 09:30- 10:00** Christian Hermans, Belgium
 Natural variation of magnesium content in Arabidopsis
- 10:00-10:30** Ismail Cakmak, Turkey
 Magnesium in root growth and seed formation
- 10:30-11:00** Zed Rengel, Australia
 Role of magnesium in plant resistance to aluminum and other metal toxicity
- 11:00-11:30** Coffee Break and Poster Viewing
- 11:30-11:50** Julia Dreistein, Germany
 Transporting magnesium: the MRS2-type Mg²⁺ channels in plants

- 11:50-12:10** Ugur Sezerman, Turkey
 Magnesium confers stability to the PYL10-PP2C complex at high temperatures: Insights from molecular dynamics simulations
- 12:15-14:00** Lunch
- 14:00-14:20** Dayane Meireles da Silva, Brazil
 Impacts of magnesium-deficiency on growth of two cultivars of coffee
- 14:20-14:40** Merle Tränkner, Germany
 Magnesium deficient barley plants have lower biomass water-use efficiency and display increased sensitivity to high light
- 14:40-15:00** Levent Ozturk, Turkey
 Effects of varied magnesium supply on wheat grown under ambient and elevated carbon dioxide conditions
- 15:00-15:30** General Discussion
- 15:30-16:00** Coffee Break and Poster Viewing
- 19:00-22:30** Gala Dinner

THURSDAY, 6th NOVEMBER

SESSION: MAGNESIUM IN ANIMAL AND HUMAN SYSTEMS

Session Chair: Andreas Gransee, Germany

- 09:00-09:30** Andrea Rosanoff, USA
 The potential importance of Ca:Mg in human health
- 09:30-10:00** Martin Broadley, UK
 Within-Species genetic variation in leaf magnesium concentration in forage grasses
- 10:00-10:20** Forrest H. Nielsen, USA
 Importance of plant sources of magnesium for human health

- 10:20-10:40** Alexander Baart, Germany
 Magnesium, mineral of wellbeing and wellness
- 10:40-11:00** General discussion
- 11:00-11:20** Coffee Break

CLOSING SESSION

Luis Prochnow, Brazil
 Ismail Cakmak, Turkey

- 11:20-12:20** Short Presentations of the Posters
- 12:20-12:30** Closing Remarks