

PROGRAM

# INTERNATIONAL SYMPOSIUM ON MAGNESIUM

IN CROP PRODUCTION, FOOD QUALITY AND  
HUMAN HEALTH 8-9 MAY 2012

## MAY 8, TUESDAY

08:00-12:00 Registration

10:00-10:30 **Welcoming Speeches**

Elke Pawelzik, Dean of Research  
Affairs, Faculty of Agricultural Sciences,  
Georg-August-University Goettingen,  
Germany

Klaus Dittert, Head of the Institute of  
Applied Plant Nutrition, Georg-August-  
University Goettingen, Goettingen  
Germany

Ernst Andres, Managing Director  
K+S KALI GmbH, Kassel, Germany

### SESSION I

**Magnesium in Soil and Crop Production**

Chaired by **Walter Horst, Leibniz University  
Hannover, Hannover, Germany**

10:30-10:40 **Opening Speech on Magnesium**

Walter Horst, Leibniz University Hanno-  
ver, Hannover, Germany

10:40-11:10 **Magnesium Mobility in Soils – Conse-  
quences for Crop Production**

Andreas Gransee, K+S KALI GmbH,  
Kassel, Germany

11:10-11:40 **Crop Response to Fertilizer Magnesium**

Witold Grzebisz, Poznan University of  
Life Sciences, Poznan, Poland

11:40-12:10 **Effect of Magnesium Nutrition on  
Plant Growth**

Ismail Cakmak, Sabanci University,  
Istanbul, Turkey

12:10-12:40 **Significance of Magnesium for  
Crop Quality**

Jóska Gerendás, K+S KALI GmbH,  
Kassel, Germany

12:40-13:45 Lunch Break

### SESSION II

**Magnesium and Plant Tolerance**

Chaired by **Klaus Dittert, Georg-August-University  
Goettingen, Goettingen, Germany**

13:45-14:15 **Role of Magnesium in Aluminum  
Resistance in Plants**

Zed Rengel, University of Western  
Australia, Perth, Australia

14:15-14:45 **Involvement of a Magnesium Transpor-  
ter in Aluminum Tolerance in Rice**

Jiang Feng Ma, Okayama University,  
Okayama, Japan

14:45-15:15 **Magnesium Nutrition of Crop Plants  
with Special Regard to Drought Stress**

Sven Schubert, Justus-Liebig-University  
Gießen, Gießen, Germany

15:15-15:45 **Role of Magnesium in Plant Disease**

Don Huber, Purdue University, West  
Lafayette, USA

15:45-16:05 Coffee Break

### POSTER PRESENTATIONS I

Chaired by **Ernest Kirkby, University of Leeds,  
Leeds, UK**

16:05-16:25 **Introduction of the 1st Group of Posters**

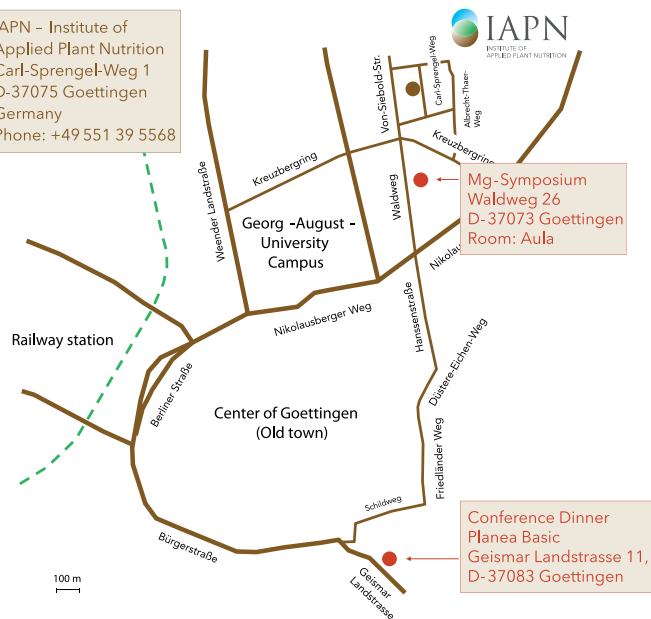
Ernest Kirkby, University of Leeds, Leeds,  
UK

16:25-17:30 **Visiting Posters**

19:00 **Symposium Dinner** at Planea Basic,  
Geismar Landstrasse 11, Goettingen

## MAP OF GOETTINGEN

IAPN - Institute of Applied Plant Nutrition  
Carl-Sprengel-Weg 1  
D-37075 Goettingen  
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### ORGANIZERS:

University of Goettingen,  
Germany



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GÖTTINGEN

Sabancı University,  
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The Center for Mag-  
nesium Education and  
Research, USA

Center for Magnesium Education & Research

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# MAY 9, WEDNESDAY

## SESSION III

### Magnesium and Plant Physiology

Chaired by Joachim Schulze, Georg-August-  
University Goettingen, Goettingen Germany

- 08:45-09:15** Regulation of Magnesium Content in Plants  
Nathalie Verbruggen, Université Libre de Bruxelles, Bruxelles, Belgium
- 09:15-09:45** Impacts of Glyphosate on Uptake of Magnesium and Other Nutrients  
Volker Römheld, University of Hohenheim, Stuttgart, Germany
- 09:45-10:15** Role of Magnesium in Phloem Export of Zinc in Wheat  
Levent Ozturk, Sabanci University, Istanbul, Turkey
- 10:15 -10:45** Magnesium Deficiency and Circadian Rhythm  
Christian Hermans, Université Libre de Bruxelles, Bruxelles, Belgium
- 10:45-11:05** Coffee Break

## POSTER PRESENTATIONS II

Chaired by Elke Pawelzik, Georg-August-University  
Goettingen, Goettingen Germany

- 11:05-11:25** Introduction of the 2nd Group of Posters  
Elke Pawelzik Georg-August-University  
Goettingen, Germany
- 11:25-12:30** Visiting Posters
- 12:30-13:30** Lunch

## SESSION IV

### Magnesium Impact on Nutrition and Health

Chaired by Andrea Rosanoff, Center for Magnesium  
Education & Research, Pahoia, USA

- 13:30-14:00** Dietary Magnesium Supply in Africa  
Martin R. Broadley, University of Nottingham, Nottingham, UK
- 14:00-14:30** Reduction of NaCl in Foods of Animal Origin Trough Magnesium  
Jose M. Barat, Universidad Politècnica de València, València, Spain
- 14:30-15:00** Magnesium in Ruminant Nutrition  
J. Thomas Schonewille, Utrecht University, Utrecht, Netherlands
- 15:00-15:30** Changing Crop Magnesium Levels: Impact on Human Health  
Andrea Rosanoff, Center for Magnesium Education & Research, Pahoia, USA
- 15:30-15:50** Coffee Break
- 15:50-16:20** Magnesium and Cardiovascular Diseases  
Klaus Kisters, St Anna Hospital, Herne, Germany
- 16:20-16:50** Magnesium in Clinical Medicine  
Rhian M. Touyz, University of Glasgow, Glasgow, UK
- 16:50-17:05** Summary and Concluding Remarks  
Ismail Cakmak, Sabanci University, Istanbul, Turkey
- 17:05** Closing