



**THE FERTILIZER SOCIETY OF SOUTH AFRICA
&
INTERNATIONAL ZINC ASSOCIATION OF SOUTHERN AFRICA**



COMBINED SYMPOSIUM

FERTILIZERS, FOOD PRODUCTION AND HUMAN HEALTH

26 & 27 AUGUST 2010

CSIR International Convention Centre, Pretoria

Population growth is the main driver behind the demand for crop production, which can then be used for food, animal feed and fibre for clothing. According to the latest UN data the global population is currently touching on 7 billion people of which more than 1 billion are undernourished. More than 3 billion people live in areas which are deficient in zinc, iodine, vitamin A and iron. The recent National Food Survey, for example, showed that even in South Africa, some 50% of all children have zinc deficiency (defined as blood serum levels $\leq 65\mu\text{g/l}$).

While the global population is increasing arable land on the other hand has a limited potential for increase, and currently the available area of arable land per person is on the decrease. In 1963 the estimated arable land per person was 0.42 ha/person. Currently this figure is estimated at 0.24 ha, almost 50% less.

In many developing nations, which harbour around 80% of the global population, vast numbers of people suffer malnutrition and increasing chronic disease rates due to a lack of essential nutrients and enough food. The recent National Food Survey in South Africa showed that, even in South Africa, some 50% of all children have zinc deficiency (defined as blood serum levels less than 65ug/dl).

Food systems need to change in ways that will deliver enough affordable, health-enhancing and accessible diets for everyone in sustainable ways if we are to find solutions to malnutrition and diet-related chronic diseases globally. Farming for health is the future of agriculture and the fertilizer industry can contribute greatly to achieving these goals of better nutrition and health for all. Whilst food fortification is often stated as a solution for poor nutrition, this is dependant upon the willingness of governments and sustainability cannot be guaranteed.

In the light of this, the Fertilizer Society of South Africa (FSSA) and International Zinc Association of Southern Africa (IZASA) decided on a symposium to address and highlight some of these questions and to provide some insight into ways of farming for health and provide for policy linkages between government departments, policy makers and other relevant parties.

SYMPOSIUM PAPERS

EFFECT OF MINERAL NUTRITION ON PROTEIN QUALITY

Prof Glenn McDonald, University of Adelaide, Australia

THE GOOD, THE BAD AND THE ESSENTIALS OF HEAVY METALS

Prof Mike McLaughlin, Centre for Environmental Contaminants Research, CSIRO, Australia

THE EFFECT OF POTASSIUM AND MAGNESIUM IN THE ENHANCEMENT OF WATER USE UNDER DRY CONDITIONS

Prof Andreas Gransee, K+S Kali-GmbH, Germany

THE IMPORTANCE OF RESEARCH IN AGRICULTURE TO ENSURE FOOD SECURITY IN SOUTH AFRICA

Grain SA (speaker to be confirmed)

DEVELOPMENTS OF NEW MAIZE AND WHEAT CULTIVARS

Wally Green, Crop & Plant Biotechnology Services (CPBios)

ZINC FERTILIZATION AND ZINC AVAILABILITY IN SOILS

Prof Glenn McDonald, Australia

INTRODUCTION TO GLOBAL ZINC FERTILIZER PROJECTS

Prof Ismail Cakmak, Sabanci University, Turkey

ZINC SULPHATE APPLICATIONS IN SOUTH AFRICA – OPPORTUNITY TO UNLOCK VALUE FOR SOUTH AFRICAN AGRICULTURE

André Immelman, Zinchem a Division of Zinco Group (Pty) Ltd

SPENT ZINC USE FOR FARM GARDENS – A UNIQUE CASE STUDY

Rolf Papsdorf, Alternative Energy Development Corporation (AEDC)

INTERNATIONAL ZINC ASSOCIATION ACTIVITIES RELATED TO HUMAN HEALTH AND AGRICULTURE

Dr Andrew Green, International Zinc Association (IZA), USA

ACHIEVING THE MILLENNIUM GOALS FOR AGRICULTURE – PROGRESS AND CHALLENGES

Dr Maria Wanzala, NEPAD

LESSONS LEARNT TOWARDS SUSTAINABLE FOOD FORTIFICATION

Dr Lynn Moeng, Department of Health

BIOFORTIFICATION OF FOODS WITH MICRONUTRIENTS

Prof Martin Broadley, University of Nottingham, United Kingdom

FLOUR FORTIFICATION IN SOUTH AFRICA

Jannie de Villiers, Grain Milling

COMMUNICATION OF AGRICULTURAL INFORMATION IN RURAL COMMUNITIES

Dion Jerling, Connect Africa (speaker to be confirmed)

UNICEF AND ZINC INITIATIVES

Dr Joan Matji, UNICEF

THE ROLE OF ZINC IN REDUCING CHILD MORTALITY FROM DIARRHOEA

Dr Lesley Bamford, Department Health, SA

REGISTRATION FEE: 

<u>FIRST DAY, 26 AUGUST (incl. lunch & cocktail):</u>	<u>R750,00 p.p (incl. VAT)</u>
<u>SECOND DAY, 27 AUGUST (incl. lunch):</u>	<u>R750,00 p.p (incl. VAT)</u>
<u>BOTH DAYS, 26 & 27 AUGUST (all inclusive):</u>	<u>R1200,00 p.p (incl. VAT)</u>
<u>5+ DELEGATES/COMPANY FOR BOTH DAYS:</u>	<u>R1080,00 p.p (incl. VAT)</u>

LATE REGISTRATION & PAYMENT OF FEE (AFTER 6 AUGUST 2010): 

<u>FIRST DAY (26 AUGUST):</u>	<u>R900,00 (incl. VAT)</u>
<u>SECOND DAY (27 AUGUST):</u>	<u>R900,00 (incl. VAT)</u>
<u>BOTH DAYS (26 & 27 AUGUST):</u>	<u>R1400,00 (incl. VAT)</u>

SEE REGISTRATION FORM FOR FURTHER DETAILS 