

# 3<sup>RD</sup> INTERNATIONAL CONFERENCE ON GLOBAL FOOD SECURITY

## GLOBAL CHALLENGES, LOCAL SOLUTIONS & CONNECTED PATHWAYS

### SUNDAY 3 DECEMBER

- 08h00** Registration Opens  
*Posters to be put up after 16h00*
- 08h30** **FIRST SESSION SYMPOSIA BEGIN** (includes a 15-minute coffee break)
- 11h45** Lunch Break
- 12h30** **SECOND SESSION SYMPOSIA BEGIN**
- 14h30** Tea break
- 15h00** **THIRD SESSION SYMPOSIA BEGIN**
- 17h00** **Symposia conclude**
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- 17h30** **Welcome cocktails for Symposia and Conference Delegates**

*Sponsored by Agricultural Research Council and Department of Agriculture, Forestry and Fisheries, South Africa*

Dr Shadrack Moephuli

*CEO, ARC, South Africa*

HE Minister Senzeni Zokwana

*Minister of Agriculture, Forestry and Fisheries, South Africa*

### MONDAY 4 DECEMBER

**08h30** **WELCOME AND INTRODUCTION**

**CHAIR:** Professor Lise Korsten

*Conference Chair, Co-director, Centre of Excellence in Food Security, University of Pretoria, South Africa*

**WELCOME MESSAGES**

Professor Cheryl de la Rey

*Vice Chancellor and Principal, University of Pretoria, and Chairperson of the National Advisory Council on Innovation, South Africa*

Professor Julian May

*Director, Centre of Excellence in Food Security, University of the Western Cape, South Africa*

Elsevier representative

*Elsevier, UK*

**OPENING ADDRESS**

HE Minister Naledi Pandor

*Minister of Science and Technology, South Africa*

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**09h20**                    **CONFERENCE KEYNOTE**

**CHAIR:** Professor Voster Muchenje

*Co-SARChI Chairholder: Meat Science; and Research Chair: Food Security, University of Fort Hare, South Africa*

Professor Adipala Ekwamu

*Executive Secretary, Regional Universities Forum for Capacity Building in Agriculture (RUFORUM)*

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**10h00**                    **KEYNOTE PRESENTATION**  
Food creation

**CHAIR:** Dr Joyce Chitja

*African Centre for Food Security, University of KwaZulu-Natal, South Africa*

**The future of farming: Who will produce our food?**

Professor Ken Giller

*Wageningen Centre for Agroecology and Systems Analysis, The Netherlands*

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**11h00**                    **TEA**

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**11h30**                    **THEMATIC FOCUS PARALLEL SESSIONS**  
Food Creation

**Hot topics** are sessions with selected speakers who are nominated based on their expertise and leadership in the field.

These sessions will provide 20 minutes to the key speaker and 10 minutes for two additional speakers related to the theme. The remainder of the session is dedicated to discussion.

**HOT TOPIC 4.1.1**

**Food System Resilience**

**Moderator:** Dr John Ingram

*Programme Leader, Environmental Change Institute, The University of Oxford*

**An integrated framework for studying food systems resilience: the case of the UK and soy**

Dr Tony Heron and Dr Chris West

*University of York, UK*

**Modelling resilience of the global food system to shocks and trends**

Dr Roslyn Henry

*University of Edinburgh, UK*

**Water related risks in a fresh fruit and vegetable system**

Prof Tim Hess

*Cranfield University, UK*

**Individual differences in stress responses and their scalar impacts on higher level productivity in livestock systems**

Prof L M Collins

*University of Leeds, UK*

**Between four and ten papers per parallel session** will be selected. Speakers will have up to 15 minutes to make presentations, with a Chair moderating discussion.

**PARALLEL SESSION STREAMS 1 - 8**

Refer to the Conference Thematic Matrix for details on the Food Creation Theme.

**Food Creation**

- 4.2.1 Food Security and Sustainable Agriculture Collaborations
- 4.3.1 Climate Change Modelling and Food Security
- 4.4.1 Improving Agricultural Resilience
- 4.5.1 Diversity and demographics in food security

**Food Safety and Biosecurity**

- 4.6.1 One Health

**Food Losses and Waste**

- 4.7.1 At home losses/Consumer Challenges

**Food in a Changing Society**

- 4.8.1 Critical Perspectives on Gender in Food Security
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**13h00 LUNCH**

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**14h00 THEMATIC FOCUS PARALLEL SESSIONS****Food Safety and Bio-security**

**Hot topics** are sessions with selected speakers who are nominated based on their expertise and leadership in the field.

These sessions will provide 20 minutes to the key speaker and 10 minutes for two additional speakers related to the theme. The remainder of the session is dedicated to discussion.

**HOT TOPIC 4.1.2**

**Moderator:** Dr Kofitsyo Cudjoe

*Norwegian Veterinary Institute, Norway*

**Plant and food biosecurity: a European perspective**

Professor Lodovica Gullino

*Centro di Competenza per l'Innovazione in campo agro-ambientale (AGROINNOVA) Università degli Studi di Torino, Italy*

**How safe is my food?**

Dr Michelle Danyluk

*Food Science and Nutrition, University of Florida, USA*

**Root health and soil pest**

Professor Richard Sikora

*Institut für Pflanzenkrankheiten, Germany*

**Importance of robust crop genetics for food security**

Prof Dave Berger

*Department of Plant and Soil Sciences, Forestry and Agricultural Biotechnology Institute (FABI), University of Pretoria, South Africa*

**Between four and ten papers per parallel session** will be selected. Speakers will have up to 15 minutes to make presentations, with a Chair moderating discussion.

**PARALLEL SESSION STREAMS 1 - 8**

Refer to the Conference Thematic Matrix for details on the Food Safety and Bio-security Theme.

**Food Safety and Biosecurity**

4.2.2 Food Safety 1

4.3.2 Food Safety 2

4.4.2 Bio-security

4.5.2 Potable Water

4.7.2 Soil and Plant

**Food Creation**

4.6.2 Sustainable Agricultural Production

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**15h30****TEA**

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**16h00****PLENARY PANEL****Food Safety and Bio-security**

**CHAIR/MODERATOR:** Professor Lise Korsten

*Co-director, Centre of Excellence in Food Security, University of Pretoria, South Africa*

**PLANT HEALTH FOR FOOD SECURITY****A new paradigm to securitize food from plant health disruptions**

Professor Paul Teng

*Adjunct Senior Fellow in Food Security, Centre for Non-Traditional Security Studies, Nanyang Technological University, Singapore*

**Historical and Current Plant Disease Epidemics and their Impact on Food Security**

Professor Clayton Hollier

*Professor, Department of Plant Pathology and Crop Physiology, Louisiana State University Agricultural Center, USA*

**Global movement of pests and pathogens: threats and challenges to food security and ecosystem health**

Professor Sarah Gurr

*Chair, Food Security Alliance, University of Exeter, UK*

**Unseen fungal pathogens threaten biosecurity and trade**

Prof Pedro Crous

*Director, Microbial Biological Resource Centre for Fungi, the Westerdijk Fungal Biodiversity Institute*

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**17h30 – 19h00 POSTER VIEWING SESSION  
1: Food Creation and Food Safety and  
Biosecurity**

Time allocated for conference participants to network and to engage with the poster presentations.

*Cocktails and finger foods served*

**17h30 – 19h00 SIDE EVENT:  
World café on the Missing Middle in SDG 2**

Please join us in a World Café on Sustainable Development Goal 2 (SDG 2) to discuss the “Missing Middle”. This Missing Middle consists of two axes: the global-local axis and the production-consumption axis. A lack of coordination within and between these axes can greatly hinder progress on SDG 2. In this World Café, we would like to learn of your encounters with this Missing Middle and discuss ideas to bridge it.

*This side event is hosted by UN Sustainable Development Solutions Network (UN SDSN) – Thematic Network 7 on Sustainable Agriculture and Food Systems, led by Wageningen University.*

*Drinks and snacks will be provided*

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## TUESDAY 5 DECEMBER

**08h30 THOUGHT LEADERS DEBATE**

*Session sponsored by the National Research Foundation, South Africa*

**MODERATOR:** Dr Molapo Qhobela

*CEO, National Research Foundation, South Africa*

World Food Prize Laureates will present their work, followed by a moderated discussion.

Ambassador Kenneth Quinn

*Patron of World Food Prize*

Dr Jan Low

*World Food Prize Laureate, Researcher, International Potato Center, USA*

Dr Robert Mwanga

*World Food Prize Laureate, Researcher, International Potato Center, Uganda*

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**09h30 PLENARY PANEL  
Food Losses and Waste**

**CHAIR/MODERATOR:** Professor Leon Terry

*Director of Environment and Agrifood, Cranfield Soil and Agrifood Institute, Cranfield University, UK*

**FOOD LOSSES & WASTE IN THE CONTEXT OF SUSTAINABLE FOOD SYSTEMS**

Pre-harvest losses

Professor Serge Savary

*Research Director, INRA, France*

Food Waste in South Africa

Dr Suzan Oelofse

*Principal Researcher, Waste for Development, CSIR, South Africa*

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11h00

TEA

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**11h30**                    **THEMATIC FOCUS PARALLEL SESSIONS**  
Food Losses and Waste

**Hot topics** are sessions with selected speakers who are nominated based on their expertise and leadership in the field.

Sessions provide 20 minutes to the key speaker and 10 minutes for two additional speakers related to the theme. The remainder of the session is dedicated to discussion.

**HOT TOPIC 5.1.1**

**Moderator:** Dr Alice Pell (TBC)  
*Professor Emerita, Cornell University, USA*

**Effective, Sustainable Leadership for Agricultural Innovation and Food Security**

Dr Shadrack Moephuli  
*CEO, ARC, South Africa*

**Agricultural Governance Overview**

Dr Lucky Mathebula  
*Executive Trustee, Thinc Foundation, South Africa*

**Protecting food production from competing global agendas**

Professor Richard Harper  
*Dean, School of Veterinary and Life Sciences, Murdoch University, Australia*

**Between four and ten papers per parallel session** will be selected. Speakers will have up to 15 minutes to make presentations, with a Chair moderating discussion.

**PARALLEL SESSION STREAMS 1-8**

Refer to the Conference Thematic Matrix for details on the Food Losses and Waste Theme.

**Food Loss and Waste**

- 5.2.1 At or Post-harvest Losses
- 5.3.1 At retail or supply chain losses
- 5.4.1 Global Losses and Socio Economic Impact
- 5.5.1 Pre-harvest Losses

**Food in a Changing Society**

- 5.6.1 Market Access
- 5.8.1 Resilience and Food Systems

**Food Utilisation**

- 5.7.1 Exploring Foodways

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**13h00**                    **LUNCH**

**POSTER VIEWING SESSION 2: Food Losses and Waste, Food in a Changing Society and Food Utilisation Posters**

*Finger food lunch will be served in the poster presentation area.*

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**14h00**                    **PLENARY PANEL**  
Food Systems for Food Security

**CHAIR/MODERATOR:** Dr Emile Frison  
*Chair of the International Scientific Committee of the Fondation Daniel et Nina Carasso*

**2017 Swaminathan Lecture**

The Swaminathan Lecture series aims at promoting the work of a senior researcher that has devoted his life and his career to working on agriculture and food issues and over the course of their career have come to work on sustainable food systems, showing an open mind to new dimensions of the subject.

What agriculture is needed for sustainable food systems?

Dr Hans Herren  
*International Panel of Experts on Sustainable Food Systems*

**Premio Daniel Carasso Laureate 2017 Keynote**

The Premio Daniel Carasso is an international prize intended to reward an outstanding researcher that has developed high level research with impact on sustainable food systems. It intends to give him/her more visibility and to help inspire junior researchers to develop transdisciplinary approaches to study food systems and their sustainability.

Towards an urban food security agenda

Dr Jane Battersby  
*African Centre for Cities, University of Cape Town, South Africa*

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**15h00**                    **PLENARY PANEL**  
Food Security in Changing Societies

**CHAIR/MODERATOR:** Professor Frans Swanepoel  
*Professor, Future Africa, University of Pretoria, South Africa*

Gender Mainstreaming

Dr Jemimah Njuki  
*Senior Programme Officer, IDRC, Kenya*

Youth Inclusion

Dr Alemayehu Konde Koira  
*Senior Programme Manager, Youth Livelihoods, MasterCard Foundation, Canada*

Socio-Economic Complexities

Professor Robyn Alders  
*Associate Professor, School of Life and Environmental Sciences and Charles Perkins Centre, University of Sydney, Australia*

Rethinking public policies for food security: moving from sectorial to territorial approaches

Dr Bruno Losch  
*Co-director of the Centre for the Study of Governance Innovation (GovInn) at the University of the Western Cape, researcher at the DST-NRF Centre of Excellence in Food Security, South Africa and Lead political economist at CIRAD, France*

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16h30    TEA

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**16h45**                    **THEMATIC FOCUS PARALLEL SESSIONS**  
Food Security in Changing Societies

**Hot topics** are sessions with selected speakers who are nominated based on their expertise and leadership in the field.

Sessions provide 20 minutes to the key speaker and 10 minutes for two additional speakers related to the theme. The remainder of the session is dedicated to discussion.

**Between four and ten papers per parallel session** will be selected. Speakers will have up to 15 minutes to make presentations, with a Chair moderating discussion.

**HOT TOPIC 5.1.2**

**Social protection**

Professor Stephen Devereux  
*SA-UK Bilateral Chair in Food Security, University of the Western Cape, South Africa*

Professor Lawrence Haddad  
*Executive Director, Global Alliance for Improved Nutrition (GAIN), UK*

Dr Wanga Zembe  
*Specialist Scientist, Health Systems Research Unit, South African Medical Research Council, South Africa*

**PARALLEL SESSION STREAMS 1-8**

Refer to the Conference Thematic Matrix for details on the Food Security in Changing Societies Theme.

**Food in a Changing Society**

- 5.2.2    Food Sovereignty
- 5.3.2    Social Protection
- 5.4.2    Sustainable Livelihoods
- 5.5.2    Human Capital Development

**Food Creation**

- 5.6.2    Agricultural Productivity and Livestock

**Food Utilisation**

- 5.7.2    SMART and Under-utilised Foods

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**18h00**                    **SESSION CLOSE**

**19h00**                    **CONFERENCE DINNER**

**GUEST SPEAKER** Dr Johan van Zyl  
*CEO, African Rainbow Capita, South Africa I*

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## WEDNESDAY 6 DECEMBER

### 08h30 GLOBAL TRENDS COMMENTARY

**CHAIR/MODERATOR:** Dr Aldo Stroebe

*Executive Director, Strategic Partnerships; Strategy, Planning and Partnerships, National Research Foundation, South Africa*

Key international conferences related to food security around the globe have been identified and selected individuals approached to summarise the high level and strategic trends and innovations. Presenters will share their observations from their respective conferences. 30-minutes will be allocated to participant engagement.

The Malabo Montpellier Panel and Forum

Professor Sheryl Hendriks

*Member of the Malabo Montpellier Panel and Director of the Institute for Food, Nutrition and Well-being, University of Pretoria, South Africa*

Review of SDG 2 by the UN High Level Political Forum in July and the Identification of Critical and Emerging Issues by the HLPE

Dr Patrick Caron

*Cirad, Chair of the High-Level Panel of Experts of the United Nations Committee on World Food Security, France*

Recent developments in food and nutrition security on the African continent

Prof Mandivamba Rukuni

*Director, BEAT Doctoral Academy, South Africa*

9th GCHERA Global Conference

Professor John Kennelly

*President, GCHERA World Agriculture Prize, Canada*

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### 10h00 KEYNOTE PRESENTATION

Food Utilisation

**CHAIR:** Prof Ndiko Ludidi

*Professor, Department of Biotechnology, University of the Western Cape, South Africa*

**Is food security a public good and why does it matter?**

Professor Julian May

*Director, Centre of Excellence in Food Security, University of the Western Cape, South Africa*

**How to make food systems more nutrition sensitive**

Professor Lawrence Haddad

*Executive Director, Global Alliance for Improved Nutrition (GAIN), UK*

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11h15

TEA

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**11h30**                    **THEMATIC FOCUS PARALLEL SESSIONS**  
Food Utilisation

**Hot topics** are sessions with selected speakers who are nominated based on their expertise and leadership in the field.

Sessions provide 20 minutes to the key speaker and 10 minutes for two additional speakers related to the theme. The remainder of the session is dedicated to discussion.

**HOT TOPIC 6.1.1**

**Smart Foods**

**Moderator:** Professor Jessica Fanzo

*Associate Professor, Johns Hopkins University, USA*

**How can SMART foods address the issue of food security and nutrition?**

Professor Mohammed Naushad Emmambux

*Professor, Department of Food Science, University of Pretoria, South Africa*

**Can indigenous foods be considered as SMART foods or must it be modified?**

Prof Kwaku Gyebi Duodu

*Associate Professor, Department of Food Science, University of Pretoria, South Africa*

**Nutri-Food Basket from 'Smart Crops' towards promoting dietary diversity and addressing malnutrition in Tribal areas of India**

Dr Saikat Datta Mazumdar (TBC)

*Chief Operation Officer of the NutriPlus Knowledge Program, at the Agribusiness Innovation Platform (AIP), ICRISAT, India*

**Between four and ten papers per parallel session** will be selected. Speakers will have up to 15 minutes to make presentations, with a Chair moderating discussion.

**PARALLEL SESSION STREAMS 1-8**

Refer to the Conference Thematic Matrix for details on the Food Utilisation Theme.

**Food Utilisation**

- 6.2.1 Trends and disruptors
- 6.3.1 Public Policy for Food Utilisation
- 6.4.1 Child Nutrition Security
- 6.5.1 Water, Land and Nutrition

**Food in a Changing Society**

- 6.6.1 Urban Food Contexts and Governance

**Food Creation**

- 6.7.1 Mitigation of Climate Change Impacts

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**13h00**                    **LUNCH AND POWER POSTER PRESENTATIONS**

The top three nominated posters from each thematic will be announced. The top two nominees will present 3 minute power presentation of their posters.

*Finger food lunch will be served in the poster presentation area.*

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**14h00**                    **CLOSING PLENARY**  
Food in the future

**CHAIR:** Bongiwe Njobe

*Chairperson, Global Forum Agricultural Research, Italy*

High level panel of experts provide their insights on the future of food in the world, incorporating the insights shared over the course of the conference. A moderator will provide commentary on the synergies at the 3<sup>rd</sup> IGFSC and other global conferences.

Professor Molly Jahn

*Professor, Department of Agronomy, University of Wisconsin-Madison, USA*

Dr Lindiwe Majele Sibanda

*Vice President Country Support, Policy and Delivery, AGRA, Kenya*

Dr Wanjiru Kamau-Rutenberg

*Director, African Women in Agricultural Research and Development (AWARD), Kenya*

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15h30

**CONFERENCE CLOSING**

**CHAIR:** Professor Lise Korsten

**UNESCO Chair in African Food Systems Launch**

*Professor Lise Korsten, Conference Chair*

**Vote of Thanks and Farewell**

*Professor Julian May, UNESCO Chair in African Food Systems*

## THURSDAY 7 DECEMBER

Tour sponsored by the Western Cape Provincial Department of Agriculture for 100 people. Will cover multiple sites in the emerging farmer development programme in Phillipi.