

Dear Delegate,

On behalf of **Stellenbosch University (SU)** (Organizing Committee) in collaboration with **Empire Conferencing** (Event Organizers), we cordially invite you to participate at the upcoming **2nd Annual Carbon Farming and Soil Conservation Conference & Educational Tour**. This event is scheduled to take place from the **19th to 21st July 2023** in Stellenbosch, Western Cape.

The objective of the conference is to bring together the agricultural sector and academia to discuss their recent findings of research and case studies across the country.

The event aims to attract;

- Extension Officers | Emerging Farmers | Commercial Farmers (Livestock & Crop) | Youth Agriculturists | Conservation Agriculturists | Environmental Managers | Scientific Managers | Laboratory Managers | Climate Change Specialists
- Government Agricultural Departments | Climatologists | Agricultural Field Researchers & Consultants | Horticulturists | Agriculture Finance & Funding Business Units | Professional Scientists
- Professors, Lecturers & Heads of Agricultural Departments | Soil Scientists/Technicians | Plant Scientists | Agronomists | Ecologists | Microbiologists | Biotechnologists | Fertilizer & Seed Companies | Conservation Agriculturists
- Pasture Scientists | Plant Health Diagnostic Scientists | Crop Research Specialists

Why attend?

- Meet and interact with key educational stakeholders and institutional decision makers of agriculture, technology and soil sciences
- Connect with leading researchers and scientists to collaborate on projects and studies
- Strengthen your existing partnership as well as build new client relationships
- Networking and sharing of ideas

Please see attached brochure for conference details and registration. To register, kindly fill in the registration form and return it to: ryan@empiretraining.co.za

Kind regards / Ngemibuliso emihle/ Vriendelike groete

Prof. Karin Jacobs
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Mr. Ryan Jagesar
+27 73 946 9796



2nd Annual Carbon Farming & Soil Conservation CONFERENCE AND TOUR

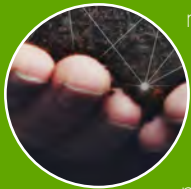
MAKING AGRICULTURE FIT FOR VISION 2030

19TH, 20TH, & 21ST JULY 2023 | STELLENBOSCH WESTERN CAPE | RSA

Participating companies includes:



ARE WE CLIMATE READY



Climate change is one of the greatest threats that humanity has ever faced. Even in its early stages, we have seen its tragic consequences in Africa. Yet there seems to be a dearth of practical solutions.

Without question, the world must transition to renewable energy, but making that transition, even at the rate of the most optimistic projections, won't be fast enough to stabilize the climate. In addition to renewable energy, we must draw down carbon from the atmosphere and replenish the depleted stores of carbon in the soil where it enhances fertility, boosts productivity, and creates drought resilience. Agriculture can be a driving force to mitigate climate change by adopting carbon farming practices.

Following the success of last year conference, which paved the way for discussions and debates that achieved a multitude of outcomes and strategies around how to manage soil through low carbon practices and technologies ensuring sustainable

agricultural practices. More and more farmers are keen to practice carbon farming which links to maximising returns from carbon credits.

This year the 2nd annual Carbon Farming and Soil Conservation Conference plus Tour will bring in fresh and innovative content with the aim to update the industry on:

- Solutions on enhancing Biodiversity.
- Practices transitioning to Regenerative Agriculture Farming Systems, Niche Crops, Soil Preservation and Managing Energy Costs – A step closer to reaching Carbon Neutral
- Latest research on how farmers can play a preeminent role in addressing Climate Change and ensuring food security by stewarding working landscapes to sequester Carbon.

Growing agriculture requires a fresh look at Carbon Emissions...

In collaboration with Stellenbosch University the conference will feature renowned experts discussing key issues surrounding carbon farming, an exhibition, a site visit and demonstrations of the latest innovations in Agri-tech.

BY ATTENDING THE VISIT/TOUR:

- We would like to expose delegates to a LOOK and LISTEN scenario experience at the farm.
- Methods and tools implemented to practice effective CA techniques and by engaging with experienced project managers onsite
- Insight into research and development projects will enhance participants knowledge on soil regeneration and crop rotation.
- What works in the process and what should be avoided when it comes to managing Soil and Agricultural Crops.
- Adopt hands-on experience with the no till practices and crop rotation methods put in place at the farm.
- Gain a practical understanding on which techniques are most recommended for protecting the soil.

The Tour will be facilitated by expert presenter: Dr Johann Strauss Senior Scientist, Sustainable Cropping Systems Research, Western Cape Department of Agriculture

WHO SHOULD ATTEND?

Emerging Farmers | Commercial Farmers | Youth Agriculturists | Conservation Agriculturists | Environmental Managers | Scientific Manager | Laboratory Managers | Government Departments | Climatologists | Agricultural / Field Researchers and Consultants | Horticulturist | Agriculture finance and funding business units | Professional Scientist | Professors & Heads Agriculture & Agronomy | Soil Scientist/ Technicians | Plant Scientist | Ecologists' | Biotechnologists | Fertilizer & Seed Companies | Extension Officers | Conservation Agriculturists | Pasture Scientist | Plant Health Diagnostic Scientist | Agricultural Crop | Research Specialist

Trending Topics AND Discussions presented by key AGRI-professionals includes:

- **THE SOLUTION TO CLIMATE CHANGE** is just below our feet! HEAR from companies that is restoring carbon to the soil through regenerative farming practices and conservation agriculture.
- **HOW DO WE WORK** Towards Zero Carbon Farms and Climate Mitigation?
- **CARBON FARMING ROADMAP FOR AFRICA** ...The carbon farming solution
- **ENGAGE IN DISCUSSIONS** on Climate Smart Practices and Conservation Agriculture (Discussions and Case studies)

- **HOW** can we reduce the carbon footprint in South Africa?

Creating a low-emissions global food transportation system could replace tracks and ships powered by fossil fuels. This would require the use of alternatives, such as vehicles powered by batteries, biofuels or hydrogen.

- **WHAT** is the role of agricultural machinery in decarbonising agriculture? A John Deeres Perspective

- **DISCOVER** Tools and Technologies that will drive Carbon Neutral Agriculture

- **SUSTAINABLE AGRICULTURAL TECHNOLOGY:**

-Smart Greenhouse technologies using Solar and Saltwater

- **WOOLWORTHS** perspective on achieving food security through Low Carbon Farming
- Organic Farming and Soil Carbon Sequestration: What Do We Really Know About the Benefits?
- **THE LATEST IN PRECISION FARMING TECHNOLOGY ON THE RISE:** How agricultural robots increase yields.
- Climate Change and Labour Shortage pave the way for **ROBOTIC AID**

PLUS DON'T MISS OUT ON OUR PRACTICAL LIVE SITE TOUR -21ST JULY 2023 AT THE LANGGEWENS RESEARCH FARM

AGENDA: 19th JULY 2023 (DAY 1)

09:00-09:45 Opening session

Carbon Farming: Agricultural Solution to Climate Change and Food Security (zero hunger)

Climate Change and Carbon Footprint Impact of Climate Change on Agriculture



Presented by: Professor Guy Midgley Director of the School for Climate Studies and Professor in Global Change Biology Department of Botany and Zoology Stellenbosch University

Guy Midgley has worked in the fields of global change and biodiversity science since the 1980s, including a 32-year career at the South African National Biodiversity Institute. He took up a Professorship at Stellenbosch University (Botany and Zoology) in 2014. With over 170 publications, he holds an NRF A-rating, has been a Thomson Reuters highly cited researcher (2014), and is rated amongst the top 200 most influential climate change scientists globally (2021).

09:45-10:30

Carbon Farming: The state of South African agriculture



Presented by: Dr Lindah Muzangwa Agronomist (Crop Scientist) -Northwest University

Affiliations: FNAS School: School of Geo- and Spatial Sciences/ Sub-programme: Ecological Interactions and Ecosystem Resilience: Expertise

Agronomy of Field Crops, Sustainable Cropping Systems, Soil Health.

10:30-10:45: BREAK

10:45 -11:30: Keynote address: Impact of Climate Change on Agriculture and Food Security.

- How can we protect and restore Soil Health.
- What is the perspective of the FAO and response to climate change?
- What is the Climate Smart Approaches in place to support the agricultural nexus.



Presented by: Dr Lewis Hove the Resilience Team Leader Food and Agriculture Organisation (FAO) Sub Regional Office for Southern Africa

Dr Lewis Hove works for the Food and Agriculture Organization of the United Nations (FAO) as Coordinator of FAO's Resilience work in Southern Africa. He is also the FAO Country Representative in South Africa ad interim. Dr Hove has more than 25years experience in designing and implementing agricultural research and development programmes in Southern Africa, with a special focus on smallholder farmers.

11:30-12:15 Need for Conservation Agriculture, Farm Management Systems and the effect of Climate Predictions for the Future on Crops.



Presented by: Mr Ramakgwale Mampholo (Klaas) Regional Manager -National Dept. of Agriculture, Forestry and Fisheries

Currently Deputy Director for LandCare within the Land Use and Soil Management directorate of the Department of Agriculture, Forestry and Fisheries (DAFF) Klaas has more than 21 years of service in the field of agricultural natural resources management (Soil and Veld). Appointed as the country focal point for Global Soil Partnership led by

Food and Agriculture Organisation, Conservation Agriculture and United Nations Convention to Combat Desertification and other multilateral engagements such as Sustainable development Goals, etc.

12:15-13:00 Climate Smart Agricultural Practices and Trends



Presented by: Dr Manyewu Mutamba Head (Ag) of Agriculture African Union Development Agency (NEPAD)

An accomplished agri-food systems and climate change expert with more than 22 years' continental and international experience. Passionate about Africa's agricultural transformation, and building resilient, prosperous communities. Meticulous researcher, writer, analyst, strategic thinker and mentor.

13:00-14:00 LUNCH

14:00-14:45 Microbial Solutions to Carbon Sequestration



Presented by: Professor Karin Jacobs Soil Scientist -Stellenbosch University

Microbiologist with 15 year's research and teaching experience in Microbial Ecology with a focus on the role of microorganisms in soil environments. Her team has successfully commercialized their research to offer effective soil health testing (www.sporatec.co.za), focusing on biotic factors.

14:45-15:30

Building your Soils for Carbon Sequestration



Presented by: Mr. Charles Edmond GM-Farming, Boschendal

35 years' experience of growing a wide variety of horticultural crops in RSA, Argentina, Oman and Namibia. Winner of the International Khalifa Award for Date Production and Agricultural Innovation (2019). He is passionate about regenerating soils with a holistic approach that aims to regenerate and improve all the different components in the system with the goal of being able to farm sustainably in the future by improving soil, plant, animal, and human health.

15:30-15:45

BREAK

15:45-16:30

How much Carbon can different Crops Capture? / The Capacity of Soils to Store Carbon



Presented by: Dr Corrie Swanepoel Soil Researcher: - Agricultural Research Council (ARC)

Currently employed as a soil scientist and researcher at the Agricultural Research Council in South Africa. My responsibilities range from developing several in-house training programs and mentoring students to project management and field research. I was a project coordinator for a medium-term, multi-disciplinary field trial over six years. I collaborated with international groups to analyze and publish the data and built strong partnerships with various research institutions from Canada, Germany and France.



16:30-17:15 Regenerative Relationships with Soil and Farming Practice.

Presented by: Michelle Pressend is currently the TRAJECTS - Transnational Centre for Just Transitions in Energy, Climate and Sustainability Academic Coordinator of the African Regional Hub based in the Energy Research Systems Group at the University of Cape Town (UCT).

Michelle Pressend is currently the TRAJECTS - Transnational Centre for Just Transitions in Energy, Climate and Sustainability Academic Coordinator of the African Regional Hub based in the Energy Research Systems Group at the University of Cape Town (UCT). She lectured Environmental Sociology at UCT in the past five year. She has worked as a researcher, policy analyst, and activist on environmental and socio-economic justice primarily within the non-governmental sector for over twenty years. She also served in national government during the World Summit on Sustainable Development. She recently submitted her PhD thesis in Anthropology, arguing that relational energy transitions, which consider a multiplicity of entanglements are needed to address the climate crisis. Relational perspectives pay close attention to power relations, politics, materiality, and exclusions. Values that are respectful, regenerative, and reciprocal to nature and each other constitute the concept of relationality. Her research approach engages with soil and land history/memory and what can be learnt from the changes in land to address the social ecological crises differently.

END OF CONFERENCE DAY ONE

AGENDA: 20th JULY 2023 (DAY 2)

08:30-09:15

Achieving Food Security while switching to low Carbon Farming.



Presented by: Mr. Kobus Pienaar Technical Manager: Food Security- Woolworths

Kobus Pienaar is a Technical manager Food Security from Woolworths South Africa and is responsible for looking at ways to ensure Woolworths contributes to a sustainable Food System in South Africa. He grew up on a farm and began his career as an agronomist for a fertilizer company and was responsible for advising farmers in the Eastern Free State on how to grow maize, wheat, potatoes, sunflower and legumes.

PREPARING YOU FOR THE NEXT GENERATION OF AGRICULTURE- ROBOTICS, DRONES AND MACHINERY

09:15 -10:00

Transforming Food Crop Production via Innovative and Adaptive Earth Observation Technologies in Precision Agriculture."



Presented by: Professor Moses Azong Cho Chief Researcher CSIR

Cho's research interests involve data analytics of earth observation or remote sensing data and development of applications and products that support planning and decision-making for Precision agriculture, and biodiversity conservation in rural and protected landscapes.

10:00-10:45

Get S.M.A.R.T with John Deere: M for Mechanisation



Presented by: Mr Zabion Reagon New Business Development Manager Africa And Middle East -John Deere Machinery

Zabion is not only John Deere's new business development manager for Africa and the Middle East. He is a farmer with his feet firmly planted on the ground. As a child of Trompsburg in the Free State, he attended Hoër Landbouskool Jacobsdal and later also Grootfontein College of Agriculture. He holds a Masters degree in Sustainable Agriculture. Other career highlights include working for a number of agricultural enterprises.

10:45-11:00

BREAK

10:45-11:30

Innovative Greenhouse Technology for Sustainable Harsh Climate Farming



Presented by: Mrs Storm van Zyl - CFO Red Sea Farms

Red Sea Farms is reducing the carbon and water footprint of our food sector by designing, developing and delivering sustainable agriculture technologies for harsh environments. Storm van Zyl is the Group CFO who also has a Masters in Carbon Management and rich experience in the agri-tech start up sector.

11:30-12:15

How Drones are reducing our Carbon Footprint



Presented by: Mr Tim Wise CEO- PACsys

Tim Wise is the founder of PACSys, a company established in 2016 by a group of sugar cane farmers on KZN's North Coast. It's purpose was to improve the quality of aerial pesticide application on their farms, where sugar cane is grown on steep and challenging terrains and thus in need of precision applications.

12:15-13:00

Irrigation for Nutrition Water and Soil Management for Sustainable Agriculture.



Presented by: Mr. Mico Stander Soil Scientist AND Horticulturist -Agrimotion Consulting

As an independent Horticulturist and Soil Scientist at Agrimotion Consulting I guide commercial fruit farmers to optimally manage their land and crops to produce quality yields in a sustainable manner.

13:00-14:00

LUNCH

14:00-14:30

Carbon Robotics -The Next Green Revolution



Presented by: Mr Ben Scott-Robinson Co-Founder and CEO -The Small Robot Company England UK (Virtual Session)

Ben Scott-Robinson is an accomplished digital entrepreneur focused on geospatial and mobility technologies.

Ben co-founded the Small Robot Company in 2017 which endeavours to replace tractors with accurate, smart, lightweight robots.

With 20 years' experience in digital innovation, including the digital transformation of Ordnance Survey.

14:30 -15:15

Spekboom in Mitigating Climate Change



Presented by: Mr Jaun van Logerenberg Senior Analyst Remote Sensing -C4 EcoSolutions

Jaun is a remote sensing scientist with the C4 team in Cape Town where he leads a team of 20 scientists with diverse backgrounds, including agricultural scientists, hydrologists, botanists, engineers, environmental scientists, and carbon specialists.

Together, they have completed over 40 carbon projects globally, focusing on sustainable agriculture, agroforestry, forest management, deforestation management, forest degradation, biochar, and sustainable composting projects. In addition to their work in carbon projects, the team is actively involved in several climate adaptation projects across the SADC region. Jaun has over 10 years of experience in climate studies, remote sensing, agriculture projects, livestock modelling, ecosystem modelling, conservation, and ecosystems modelling.

15:15-16:00

BREAK

16:00-16:45

EcoSoils Compost Tea and Water Management Strategies for better Soil Health to Ecosoils Compost Tea and Nutrition Management Strategies for better Soil Health



Presented by: Mr Jako Pieterse Managing Director EcoSoil

Before starting Ecosoil, Jako was a fruit-farm manager at Karweyderskraal near Hermanus for 15 years. During his last five years, the use of compost tea in a fertigation system helped reduce the amount of minerals being leached from the soil.

END OF CONFERENCE DAY TWO

21th JULY 2023 (DAY 3)

TOUR SCHEDULE: PRACTICAL VISIT TO LANGGEWENS RESEARCH FARM

Located just two kilometres east of the N7, Langgewens Research Farm is located between Malmesbury and Moorreesburg in the Swartland. The farm covers an area of about 500 hectares with an average annual rainfall of about 395mm. Established in 1926, the farm was established with infrastructure and staff to support to researchers. Research institutions currently involved in projects on the farm include the Western Cape Department of Agriculture, Stellenbosch University, ARC Small Grain Institute, Swartland Cereals Development Group and other private institutions.

Langgewens Research Farm is the site of two long term conservation agriculture projects: the crop rotation trials and the soil tillage trials. Sheep resource flocks maintained at the farm includes Merino, SA Meat Merino, Dohne Merino, Dormer, Blackhead Dorper, White Dorper and Meatmaster breeds.

Several research projects are currently under investigation at the farm by researchers from the Directorates Plant and Animal Sciences. Projects run by the Directorate: Plant Sciences focus on sustainable production through conservation agriculture, crop rotation and cultivar evaluations.



Tour Presenter: Dr Johann Strauss Senior Scientist, Sustainable Cropping Systems Research, Western Cape Department of Agriculture

President South African Society for Plant Production, Vice President SAPSSC Dr Johann served as vice president, president and past president on the board of the South African Society of Crop Production from 2014 to 2016. While serving on the board Dr

Johann managed to introduce two new awards for the society. These awards are for the best research presentation and poster in conservation agriculture.

10h00:

Arrive at Langgewens Research Farm

10h00 -10h15:

Welcome & Body break

10h15 - 10h45 :

Research - Smart Agriculture and Conservation Agriculture (CA)

10h45 - 11h15:

Implements used in CA systems

11h15 - 11h30:

Move to the trial sites

11h30 - 13h00 :

Practical discussions of Conservation Agriculture in the field

13h00:

Departure



CONFERENCE & STUDY TOUR - (CSFS 2023) RESERVE YOUR PLACE TODAY!

R7999.00
Per Delegate | Excl. Vat

SELECT

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Email Address: _____ Date: _____

Signature: _____

DELEGATE ATTENDANCE FORM

Title	Delegate Name & Surname	Position	Email	Phone

SUBSTITUTIONS:

Delegate substitutions. Substitutions is welcome at any time and do not occur any additional charges. Please notify EMPIRE in writing of any such changes at least 3 days before the date of the event.

- Please note that the speakers and topics were confirmed at the time of publishing however circumstances beyond the control of the organizers may necessitate substitutions, alterations or Cancellations of the speakers and/or topics.
- As such, EMPIRE reserves the right to alter or modify the advertised speakers and /or topics if necessary. Any substitutions or alterations will be updated and sent to you as soon as possible.
- Delegate substitutions must be made in writing 7 days before the event.

PAYMENT BY MEANS OF BANK TRANSFER

- Please state your full names clearly on the money transfer.
- Please note, bank charges are of your OWN account and this should be stipulated to your bank. Please advise your bank that the charges should be included in your deposit
- A copy of the bank deposit receipt should accompany your registration form and must be posted, emailed or faxed.

By signing and returning this registration form, the authorizing signatory on behalf of the stated company is subject to the following terms and conditions:

- Charge of 50% of the registration fees, plus R700 (+ VAT) Administrative charge will be made for cancellations received in writing at least 14 working days prior to the event.
- or any cancellations received in less than 7 working days before the date of the event, the full fee will be payable and no refunds or credit notes will be
- If a registered delegate does not cancel and fails to attend the summit, this will be treated as cancellation and no refund or credit will be issued.
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- **Registration fees above INCLUDES the following entitlements:** Entrance to session, registration pack, lunch and refreshment breaks.
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