



30-31
July 2024

Indaba Hotel
Fourways

Plant Health Monitoring And Disease Management Summit 2024

- Develop long-term strategy to pest management and how to make changes immediately if necessary
- Prevent the build-up of pests
- Monitor crops for pests and natural control mechanisms
- Intervene when control measures are needed
- Climate change impacts on plant pathogens and food security
- Biological controls strategies in Integrated pest management strategies
- Digital technologies supporting Plant Health
- Plant Health and Biosecurity

*For more information or to register please contact:
Ryan on +27 73 946 9796 or Ryan@empiretraining.co.za*



PREVENT - MONITOR - INTERVENE

CPD pending from



Accreditation



AGRIC Prov/2476/23 | Etqa 694

Organised by



Dear Delegate

Most of us understand the critical importance of monitoring the spread of diseases. And it is as important for plant diseases as it is for humans.

Imagine a world where farms bear no crops, forests have no trees, and nature exists without plants. Not only would our world look incredibly different, but humanity would probably cease to exist altogether.

Plants provide 98 percent of the air we breathe and 80 percent of the food we eat. That's how much our lives depend on plants, yet we often overlook how vital they are. Our global plant resources are under threat from pests. Once plant pests are established in an area, it becomes nearly impossible and extremely costly to eradicate them.

This sets back global efforts to achieve the United Nations' Sustainable Development Goals by curtailing our ability to provide food security for all, protect our environment and biodiversity for future generations, and ensure

that crops and plant products are traded safely to help boost economic growth.

By attending Plant Health 2024, explore the dynamic fusion of cutting-edge technologies and sustainable agricultural practices as we engage you in remarkable presentations and discussions surrounding Plant health management strategies. This platform will provide insight into innovations and advances in Plant Protection, aiming to protect the plant resources from the invasion and infestation of insect pests, plant pathogens and weeds.

A series of thought-provoking presentations, a collection of innovative ideas and recent research /findings presented by our panel of academia, scientists and plant experts

Join us as we unravel the challenges facing plant health and the ecosystem. Nowadays, plant diseases pose a significant threat to the sustainable and secure supply of food, feed, and fiber. Therefore, it is crucial to establish and strengthen effective strategies for managing plant diseases.

WHO SHOULD ATTEND?

- Plant Pathologists
- Crop Specialists
- Agronomists
- Fertilizer companies
- Entomologists
- Heads of departments from Government such as Department Of Agriculture
- Weed specialists
- Universities: Departments of agriculture (Crop, Plant diseases/Pesticides, Pathology, soil science, Microbiology, Horticulture, Agronomy, Botany, Genetics)
- Tvet Colleges with a focus on Plant /Crop Science

TACKLE PLANT HEALTH CHALLENGES BY EXPLORING:

- The latest TECHNOLOGY for improved detection, monitoring and control of biotic threats including Artificial Intelligence
- Biosecurity apps for PEST AND DISEASE SURVEILLANCE
- Using a systems-based approach INTEGRATED PEST MANAGEMENT (IPM) that integrates chemical, genetic and agroecological approaches
- The IMPACT OF Plant Mineral Nutrition and Disease Nutrition
- Integration of Plant Health Planning into the Biodiversity Strategy -considering the nature of plant health threats to the natural environment and embedding mitigating actions into biodiversity strategies is of increasing importance.
- The role of BREEDING and TECHNOLOGY to incorporate tolerance/resistance to pests and pathogens
- INNOVATIVE techniques in Plant Protection under climate change
- Migratory PESTS and BIOSECURITY
- The role of NEW PLANT DISEASES under Climate Change
- Pesticide Application and Management
- Biological control of Plant Pathogens, Chemical Resistance and Microbiomes
- EXAMINING Postharvest Pathogens and Disease Management
- EXPLORING Integrated Weed management methods as part of your disease management plan and weed's role in conserving pathogens and insects
- CASE STUDIES examining individual pests

Explore the dynamic fusion of cutting -edge technologies and sustainable agricultural practices. Master profound opportunities and challenges safeguarding plant health in this transformative era influenced by technology.



PARTICIPATING COMPANIES



BOOK YOUR PLACE TODAY:

AGENDA DAY ONE 30TH JULY 2024

IPM STRATEGIES IN MANAGING PLANT HEALTH

| | | | |
|-----------------------|---|---|---|
| 09:00-09:30 | Opening remarks | Plant health in SA: threats to biosecurity | |
| 09:30-10:30 | Integrated Pest and Disease Management and Pesticides in Plant health. <ul style="list-style-type: none"> Minimising the use of chemicals whilst maximising plant health and environmental biodiversity. Are insect pests evolving in response to selection pressure from management practices? | |  |
| Speaker: | Dr Astrid Jankielsohn: Senior Researcher, Entomology Agricultural Research Council's (ARC) Small Grains Institute | | |
| 10:30-11:30 | Pesticide use in safeguarding plant health but with a climate- Smart Agriculture Approach. Regulations for Biopesticides <ul style="list-style-type: none"> Pesticide use in safeguarding plant health without compromising human health or the environment The reduction of the use of highly hazardous pesticides and the inclusion of safer agroecological practices such as adopting the use of biopesticides Ensuring the pesticide use in plant health systems complies with climate-smart agricultural practises | |  |
| Speaker: | Ms Debbie Muir: Pr. Sci. Nat. Biodiversity Officer Control/ Pesticide Risk Manager/Directorate: Operational Support & Planning Non-Infrastructure. Chief: Directorate: Information Management & Sector Coordination Branch: Environmental Programme. Department of Forestry, Fisheries, and the Environment | | |
| 11:30-12:15 | Plant health research -is this the key to Food Security? <ul style="list-style-type: none"> Plant health research needs to be prioritised, especially in developing countries, in order to mitigate the threat pests and pathogens pose to our already diminished food-production capacity and biosecurity systems | |  |
| Speaker: | Ms Wilmarie Kriel: Senior Plant Pathologist Starke Ayres | | |
| 12:15-13:00 | Climate change impacts on Plant Pathogens, Food security and Paths forward <ul style="list-style-type: none"> Strategies exploring current and future impacts of climate change on pathogen biogeography Disease incidence and severity, and their effects on natural ecosystems, agriculture and food production. | |  |
| Speaker: | Ms Mhloti Mtileni: Scientist Production-Crop Science. Department: Agricultural & Rural Development. | | |
| 13:00-14:00 | LUNCH BREAK | | |
| 14:00-13:45 | GMOs (transgenic plants with virus resistance) and gene editing to produce virus-resistant crop <ul style="list-style-type: none"> Using biotechnological approaches to develop plants with virus resistance | |  |
| Speaker: | Professor Augustine Gubba: Associate Professor: Plant Pathology University of Kwa-Zulu Natal (UKZN) | | |
| 14:45-15:30 | Recent trends in Plant Disease Management <ul style="list-style-type: none"> Focuses on the performance and the mechanisms of intercropping for reducing cotton pests and disease as well as on the effective management of intercropping systems. "One health" concept, which connects soil health to the health of plants, animals, humans, and ecosystems and research on microbiome and nutrient cycling that may better explain these interdependencies. | |  |
| Speaker: | Mr Kobus Meintjies: Country Commercial Lead Bayer Crop Science SA | | |
| 15:30-15:45 | BREAK | | |
| 15:45-16:30 | An overview of Cotton - Production and Pest control <ul style="list-style-type: none"> Improve pest management and production output of cotton, using appropriate Integrated Pest Management Strategies, with reduced reliance on pesticides. Effective input and management optimizations are critical to the overall success of cotton production, through reaching the full potential of yield and fibre quality. | |  |
| Speaker: | Mr Calvin Knight: Cotton SA | | |
| 16:30-17:00 | Seedcare: an integral, inseparable part of IPM in combatting soilborne diseases and pests. | |  |
| Speaker: | Elrine Strydom Technical Specialist - Syngenta | | |
| END OF DAY ONE | | | |

DAY TWO 31ST JULY 2024

PLANT DISEASE DIAGNOSTIC AND MANAGEMENT

| | | |
|---|---|---|
| <p>09:00-09:45 Speaker:</p> | <p>Strengthening Plant Health and Disease Control in SA Ms Yolanda Mthembu Scientist (Plant Pathology) South African Department of Agriculture, Forestry and Fisheries (DAFF)</p> |  |
| <p>09:45-10:30 Speaker:</p> | <p>Weed's role in conserving Pathogen and Insects</p> <ul style="list-style-type: none"> • When preventive approaches fall short, a zero-tolerance policy should be adopted. Every resistant weed plant that is not destroyed will add seeds to the soil seed bank, thereby compounding the problem of resistance. Herbicide-resistant weeds can act as hosts for serious crop pests and diseases • How can producers detect plants with resistance genes more rapidly? <p>Prof Reinhardt Charlie: North-West University and University of Pretoria</p> |  |
| <p>10:30-11:15 Speaker:</p> | <p>Integrated Control of Fungal and Bacterial Diseases Using My Experience and Research on a wide range of Crops and/or on Mycotoxins</p> <ul style="list-style-type: none"> • Control through crop rotation • Chemical Control of eyespot • Wheat Diseases • Treatment <p>Dr Bradley Flett: Senior Plant Pathologist Agricultural Research Council (ARC)</p> |  |
| <p>11:15-12:00 Speaker:</p> | <p>AECI Plant Health championing Product Stewardship across the pesticide value chain</p> <ul style="list-style-type: none"> • Fundamentals of Product Stewardship in Pesticides • Most prevalent errors of product handling at farmer level • Appropriate methods of curbing identified errors at farmer level <p>Mr Mcgreggor Ntuli: Technical Support Specialist @ AECI Plant Health</p> |  |
| <p>12:00-13:00 Speaker:</p> | <p>Monitoring and Pest Surveillance using the Precision and Biosecurity technology</p> <ul style="list-style-type: none"> • Improving agricultural productivity requires innovative solutions that offer a better yield and quality for indoor and outdoor farming. • Farmers require precision technology to obtain and interpret data to better control crop growth, preventing losses caused by adverse weather conditions or infectious pests and thus facilitating return on investments • Explore the latest precision technology in monitoring plant health and crop disease <p>Mr Roedolf Nieuwenhuis: Managing Director Cropwatch Africa</p> |  |
| <p>13:00-14:00</p> | <p>LUNCH BREAK</p> | |
| <p>14:00-14:45 Speaker:</p> | <p>AI based pest detection and monitoring of plants</p> <ul style="list-style-type: none"> • An innovative agriculture monitoring system uses IoT, sensors, and analytics to monitor, optimize, and sustain agriculture. • To notify farmers, this technology examines weather, soil moisture, nutrient levels, and crop development • AI-Powered Pest Detection • AI-powered cameras and sensors can continuously monitor fields, scanning for signs of pests or crop diseases <p>Dr Moses Azong Cho: Chief Researcher CSIR</p> |  |
| <p>14:45-15:45 Speaker:</p> | <p>Phytopsanitary Regulations and Policies that govern Plant health and international trade in agricultural and forestry products.</p> <ul style="list-style-type: none"> • Sanitary and phytosanitary (SPS) measures are quarantine and biosecurity measures which are applied to protect human, animal or plant life or health from risks arising from the introduction, establishment and spread of pests and diseases and from risks arising from additives, toxins and contaminants in food and feed. <p>Ms Marianna Theyse: General Manager -Fresh Produce Importers Association of South Africa (FPIA)</p> |  |
| <p>15:45-16:30 Speaker:</p> | <p>Pest Control using New and old methods Nadine Botha: Insectec</p> | |
| <p>16:30-17:00</p> | <p>Closing remarks and vote of thanks</p> | |
| <p>END OF DAY TWO</p> | | |



PLANT HEALTH MONITORING AND DISEASE MANAGEMENT SUMMIT 2024

30 - 31 JULY 2024 -INDABA HOTEL | FOURWAYS

CONFERENCE & STUDY TOUR - (CSFS 2023)

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Per Delegate | Excl. Vat

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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.
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