

INVITATION TO A

HYDROPONIC TECHNICAL TRAINING DAY



PRESENTED BY: Independent consultants **James Dick** and **Michael Southwood** of DNS CROP INSTITUTE

Event supported by ClaasEco. Water quality and plant monitoring specialist.

VENUE: NVIROTEK BUSINESS HUB (Unit No.6, Nviro Business Hub, Die Ou Wapad St, Ifafi, Hartbeespoort),

LIVE STREAMING VIA MICROSOFT TEAMS OPTION AVAILABLE

WEDNESDAY 1 SEPTEMBER 2021, 9h00 – 16h30

You are invited to a technical **workshop** on **commercial hydroponics**. The program will cover general hydroponic concepts and production systems, followed by two crop-specific sessions. The topics will centre around –

- The functions, uptake and mobility of nutrients
- The remarkable properties of water
- Fertigation programs
- Pests and disease management
- Substrate types and management
- Real time sap flow measurement and plant monitoring

The first, general session will include all attendees. The second, crop-specific sessions will split attendees according to their individual preference.

If you have any questions, please **contact** Michael Southwood (0822611598) or James Dick (0729571846).

GUEST SPEAKERS

Ferdi van Zyl – The Magic of Water

Pro Agri Services

Professional Environmental Scientist and Consultant

B. Sc. Microbiology (US); HONS B. Sc. (US); M. Sc. Microbiology (US), Pri. Sci. Nat. 400047/92

Pro Agri Services (Pty) Ltd, Stellenbosch

Maxime Dedecker – Live Plant Monitoring (from Belgium via Live streaming)

2Grow

Aelmeerstraat 5, 9070 Destelbergen, Belgium

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info@2grow.earth

PRELIMINARY PROGRAMME:

SESSION 1

- 9h00: Arrival, registration and morning coffee/tea.
- 9h20: Welcome and general information.
- 9h30: Fertigation Programs Water Quality, environmental and scientific aspects in hydroponics.
- 10h10: Fertigation Programs.
- 10h40: Micronutrients in plant physiology: Functions, uptake and mobility.
- 11h20: Tea/coffee break.
- 11h40: Pest and disease control principles in a hydroponic system (emphasis on IPM options). Session includes a short introduction to the use of drones as spraying alternatives.
- 12h20: Crop management with sap flow sensor and stem diameter variation sensor.
- 12h50: Substrate types and management.

SESSION 2a: Berries in Protective Culture

- 13h20: Blueberry growth stages, physiology and flowering
- 14h00: Lunch
- 15h00: Blueberry nutrition per physiological growth stage
- 15h45: Managing fruit quality and vigour
- 16h30: End of session, final questions & discussions

SESSION 2b: Vegetables in Protective Culture

- 13h20: Crop steering and physiology (including aquaponic, tree-nursery and NFT system examples)
- 14H00: Lunch
- 15H00: Management and fertigation actions per growth stage
- 15h45: Pest and disease, predators, control programs
- 16h30: End of session, final questions & discussions

Coffee and tea will be available after the official close, during which the presenters will be available for further questions and discussions

REGISTRATION INFORMATION:

Registration:

To register, please send an email to Marlise Coetzee at dns@southerncrosstrust.com by 21 Aug 2021.

Please include the following in the email message:

1. Number of attendees
2. Name and surname of each attendee
3. Contact number and email address of each attendee
4. Business or farm name, address, contact number, registration number, VAT number
5. Details of special dietary requirements (where applicable)

Costs and banking details:

The workshop cost is R2950 per person (no VAT applicable). This includes refreshments and lunch.

Account details:

Capitec Bank

M. Southwood

Account number: 1352440979

Branch code: 470010.

Please send the proof of payment to Marlise Coetzee at dns@southerncrosstrust.com by 21 Aug 2021.

Additional information:

We will abide by all COVID-related rules & regulations.

Please contact Michael Southwood (0822611598) or James Dick (0729571846) if you require further information.