

INVITATION

NemDetect Workshop

17 January 2023 at 10 CET

Online event

Link and passcode on Zoom:

<https://us06web.zoom.us/j/84168261175?pwd=L1Frais0NG9BTWs1RGhBZHREZmVRZz09>

Meeting ID: 841 6826 1175

Passcode: 451449



PROGRAMME

Part 1: Introduction to nematodes

- 10:00 ***Project NemDetect***
Uroš Žibrat, Agricultural Institute of Slovenia
- 10:20 ***Introduction to plant parasitic nematodes (PPN)***
Nicole Viaene, ILVO Vlaanderen, BE
- 10.40 ***Distribution and spread of root knot (RKN) and potato cyst (PCN) nematodes***
Saša Širca, Agricultural Institute of Slovenia
- 11:00 ***Methods of nematode detection***
Barbara Gerič Stare, Agricultural Institute of Slovenia
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Part 2: Introduction to remote sensing

- 11:20 ***Basics of remote sensing***
 Uroš Žibrat, Agricultural Institute of Slovenia
- 11:40 ***Sensing and sensors, from handheld to satellite***
 Matej Knapič, Agricultural Institute of Slovenia
- 12:00 ***High-throughput phenotyping***
 Ankush Prashar, University of Newcastle, UK
- 12:20 ***Spectral imaging data processing***
 Janez Lapajne, Agricultural Institute of Slovenia

20-minute break

Part 3: Examples of plant disease and stress detection using remote sensing

- 13:00 ***Plant stress detection using multispectral imaging***
 Jonathan Van Beek, ILVO Vlaanderen, BE
- 13:20 ***Non-invasive detection of plant parasitic nematodes using remote sensing systems***
 Andrej Vončina, Agricultural Institute of Slovenia
- 13:40 ***In-field detection of beech leaf disease using near-infrared spectroscopy: a tool for efficient surveying***
 Enrico Bonello, Ohio State University, US
- 14:00 ***Detection of nematode infections in potato tubers***
 Jonathan Van Beek, ILVO Vlaanderen, BE
- 14:20 ***Multimodal nematicidal and plant growth-promoting effects of *Bacillus firmus* I-1582***
 Nik Susič, Agricultural Institute of Slovenia

Part 4: Using RS on your own

- 14:40 ***Guidelines for implementing remote sensing in plant protection assessment schemes***
 Uroš Žibrat, Agricultural Institute of Slovenia
- 15:00 ***Wrap up and discussion***
 All participants