

MEETING SCHEDULE

Tuesday 9 May:

- **Lunch in CITE5: 13:15-14:30**
- **Introductory session 14:30-15:30**
 - Explanation of EUVRIN and its activities: 10 mins; **Rod Thompson**
 - Background
 - New co-ordinator
 - Think about future activities
 - Explanation of program and organisation: 10 mins; **Rod Thompson**
 - **Angelo Signore** will explain the Working Group data base and answer any questions: 15 mins
 - Presentation on Almeria greenhouse system 20 mins + 5 mins questions; **Rod Thompson**
- **First scientific session – SOIL MOISTURE SENSORS 15:30 – 16:40; Leader: Antje Fiebig; Rapporteur: Jose Miguel De Paz Becares**
 - Introductory presentation; 10 mins; **Antje Fiebig**
 - Presentation 1; 10 mins; **Antje Fiebig**; Watering plants - the smart way
 - Presentation 2; 10 mins; **Jose Miguel De Paz Becares**; Calibration of capacitance sensors under salinity conditions
 - Presentation 3, 10 mins; **Eleftheria Stavridou**; Precision irrigation in open field lettuce
 - Presentation 4, **Santiago Bonachela**; Automated irrigation of soil-grown greenhouse tomato crops in a Mediterranean area
 - Presentation 5; 10 mins; **Marisa Gallardo**; Potential for using dendrometers for irrigation management of vegetable crops
 - Presentation 6; 10 mins; **María Remedios Romero Aranda**; How plant ecophysiology techniques can help to improve performance under stress growth conditions
- **Coffee Break 16:40-17:00 (20 minutes)**
- **Continuation of first scientific session SOIL MOISTURE SENSORS 17:00 – 17:50**
 - Presentation 7; 10 mins; **Carmen Biel**; Spatial variability of soil water content of a Mediterranean agrosystem with heterogeneous soil
 - Presentation 8, 10 mins; **Wim Voogt**; Application of a commercial type soil moisture sensor in an irrigation strategy to prevent leaching. An evaluation
 - Presentation 9, 10 mins; **Rod Thompson**; Soil moisture sensors for irrigation management of vegetable crops – experiences in Almeria greenhouses
 - Discussion; 20 mins
- **Second scientific session MODELS AND DECISION SUPPORT SYSTEMS 17:50 – 19:00; Leader: Antonio Elia; Rapporteur: Danielle Massa**
 - Introductory presentation; 10 mins; **Antonio Elia**
 - Presentation 1; 10 mins; **Antonio Elia**; A decision support system (GesCoN) for managing fertigation in vegetable crops

- Presentation 2, 10 mins; **Maria del Hena Prieto Losada**; Technologies to optimize irrigation in field vegetable production
 - Presentation 3; 10 mins; **Danielle Massa**; Simulation tools for precise nutrient management of vegetable crops
 - Presentation 4; 10 mins; **Marisa Gallardo**; VEGSYST-DSS to calculate N and irrigation requirements of greenhouse-grown vegetable crops
 - Presentation 5; 10 mins; **Carmen Gimenez**; VegSyst-DSS for managing irrigation and N fertilization in outdoor vegetable crops
 - Presentation 6; 10 mins; **Diego Intrigliolo**; Development and validation of a decision Support System for irrigation scheduling based on weather forecasts and evaporation and transpiration models
- **Travel UAL to Hotel Barcelo 19:05 – 19:20**

Wednesday 10 May:

- **Breakfast Hotel 7:30-**
- **Collect people at Retamar Hotels 8:15-8:30**
- **Leave Retamar hotels 8:30**
- **Travel Retamar to Las Palmerillas 8:30-9.15**
- **Field Trip Las Palmerillas 9:15 – 12:30**
- **Travel LP to UAL 12:35-13:20**
- **Lunch in UAL Comedor 13:30-14:45**
- **Walk to CITE 5 14:45 -15:00**
- **Second scientific session MODELS AND DECISION SUPPORT SYSTEMS 15:00 – 15:50**
 - Presentation 7, 10 mins; **Jesús Ochoa**; Irrigation scheduling for ornamental crops and landscape species based on soil EC and moisture sensors
 - Presentation 8; 10 mins; **Jana Zinkernagel**; Current work on irrigation scheduling in context with plant development and climatic water balance
 - Presentation 9; 10 mins; **Wim Voogt**; Leaching reduction by smart irrigation in soil grown greenhouse crops. Results of a multiple year monitoring project.
 - Discussion; 20 mins
- **First part of Third scientific session CROP NUTRIENT STATUS AND TESTING 15:50 – 17:00;**
Leader: Giorgio Gianquinto; Rapporteur: Rod Thompson
 - Introductory presentation; 10 mins; **Giorgio Gianquinto**
 - Presentation 1; 10 mins; **Giorgio Gianquinto**; The contribution of UNIBO to Crop Nitrogen Status assessment and Fertilization management
 - Presentation 2; 10 mins; **Paco Padilla**; Use of proximal optical sensors for assessing crop N status of vegetable crops
 - Presentation 3; 10 mins; **Michela Farnesseli**; Using proximal sensor measurements for monitoring N status in lettuce
 - Presentation 4; 10 mins; **Carlos Campillo**; Available tools for an efficient use of nitrogen fertilization in commercial vegetable production?
 - Presentation 5; 10 mins; **Wim Voogt**; Plant sap versus dry matter analysis in a tomato crop.

- Presentation 6; 10 mins; **Rodney Thompson**; Sap analysis to assess crop N status of fertigated vegetable crops
- **Coffee break 17:00 – 17:20 (20 minutes)**
- **Second part of Third scientific session CROP NUTRIENT STATUS AND TESTING 17:20 – 17:40**
 - Discussion; 20 mins
- **General session 17:40-19:00; Chairperson: Rod Thompson**
 - Preparing a successful H2020 application, the FERTINNOWA story by **Els Beckmoes** 15 mins + 5 mins questions and discussion
 - POSSIBLE COST ACTION 30 mins
 - Future activities of EUVRIN Working Group on Fertilisation and Irrigation 30 mins
 - Participation in revision of SIRA document – what are priorities, who will do the work
 - Data base, MeWe
 - New coordinator, assistant coordinator
 - Revise management committee?
 - What can EUVRIN do?
- **Travel to Retamar hotels 19:10-19:25**
- **Group meal of all interested participants 20:45 Plaza del Mar in Retamar near Hotel Barceló Cabo de Gata**

Thursday 11 May

- **Breakfast Hotel 7:30-**
- **Collect people at Retamar Hotels 8:15-8:20**
- **Leave Retamar hotels 8:20**
- **Travel Retamar to UAL 8:20-8:35**
- **First part of Fourth Scientific session FERTILISER RECOMMENDATIONS and FERTIGATION 8:40 – 11:10. Leader: Wim Voogt; Rapporteur: Angelo Signore. Rod Thompson to assist with discussion because Wim will leave early, at 10:45**
 - Introductory presentation; 10 mins; **Wim Voogt**
 - Presentation 1; 10 mins; **Michela Farnesseli/Francesco Tei**; A sustainable N management in processing tomato by fertigation
 - Presentation 2; 10 mins; **Janjo de Haan**; From general N-fertilization recommendations to N-recommendations in precision farming in the Netherlands
 - Presentation 3, 10 mins; **Joris De Nies**; Implementation of KNS in Flanders.
 - Presentation 4; 10 mins; **Hanne Lakkenborg Kristensen**; Fertiliser recommendations in organic vegetable cropping systems
 - Presentation 5; 10 mins; **Esther Lechevallier**; Strategies to prevent N leaching in vegetable cropping systems in Brittany
 - Presentation 6; 10 mins; **Francois Lecompte**; Effects of nitrogen fertilisation on crop susceptibility to pests and pathogens: potential consequences for fertiliser recommendations
 - Presentation 7; 10 mins; **Terhi Suojala-Ahlfors**; Phosphorus fertilization of field vegetables in northern climate

- Presentation 8; 10 mins; **Dolors Roca**; Determination of nutrient consumption in short-terms. A non-destructive methodological approach
- Presentation 9; 10 mins; **Angelo Signore**; Greenhouse tomato production with nutrient solution recycling
- Presentation 10; 10 mins; **Daniele Massa**; Strategies to increase nutrient and water use efficiency in vegetable crops fertigated with saline water
- Presentation 11; 10 mins; **Juan José Magán Cañadas**; Use of non-optimal quality water in closed soilless growing systems
- Presentation 12; 10 mins; **Juan A. Fernández**; Improving yield and quality in baby leaf vegetables grown in floating system through management of nutrient solution.
- Discussion 20 mins
- **Coffee break, 11:10 – 11:30 (20 minutes)**
- **Fifth Scientific session FERTILISATION AND ROTATION/ORGANIC MATERIALS 11:30 – 12:50**
 - Introductory presentation; 10 mins; **Janjo de Haan**
 - Presentation 1; 10 mins; **Janjo de Haan**; Effects of organic waste products on nitrogen efficiency, nitrate leaching and production in organic and conventional farming
 - Presentation 2; 10 mins; **Joris De Nies**; N mineralisation from Flemish soils
 - Presentation 3; 10 mins; **Carmen Biel**; Fertigation of greenhouse and open field horticultural crops increases sustainability in the Mediterranean region
 - Presentation 4, 10 mins; **Pirjo Kivijärvi**; Characteristics of various green manure and catch crops in vegetable production in Finland
 - Presentation 5; 10 mins; **Smiljana Goreta Ban**; Composition of nettle-water as affected by method of preparation and duration of extraction
 - Discussion 20 mins
- **General Discussion 12:50-13:30**
- **Lunch in CITE5: 13:30-14:30**

On Thursday a/noon, there will be another field trip for those who do not go home soon after lunch.