PROGRAMME

**Wednesday, September 6, 2023**

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<td>8.30</td>
<td>Welcome Party, Ragusa Ibla</td>
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<td>9.00 - 13.00</td>
<td>Oral presentations, Ragusa Ibla</td>
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<td>13.00</td>
<td>SHWA Convener - University of Catania</td>
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<td>14.30 - 17.30</td>
<td>SHWA Opening Ceremony, Ragusa Ibla</td>
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<td>Lectio Magistralis</td>
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<td>Dunies G. - Department of Public Health Policy, School Public Health - University West Attica, Greece</td>
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<td>Leptospirosis, One Health Policy Example</td>
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<td>Lundqvist P. - Swedish University of Agricultural Sciences - Swedish and International Perspectives on Health &amp; Safety in Agriculture</td>
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<td>International Perspectives on Farmers’ Psychosocial Working Conditions and Mental Health</td>
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<td>Severini S. - Department of Agriculture and Forest Sciences, Tuscia University, Viterbo, Italy</td>
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<td>Risks and Vulnerabilities of the EU Food Supply and Risk Management Tools at the Farm Level</td>
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<td>18.00</td>
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**Tuesday, September 5, 2023**

19.30 Welcome Party

13.00 Hyblean Cocktail

14.30 – 17.30 SHWA Opening Ceremony

Welcome Address
- Prof. Giampaolo Schillaci
- Prof. Remigio Berroto
- Prof. Massimo Cecchini
- Prof. Pietro Piccaro

Lectio Magistralis
- Dunies G. - Department of Public Health Policy, School Public Health - University West Attica, Greece
- Leptospirosis, One Health Policy Example
- Lundqvist P. - Swedish University of Agricultural Sciences - Swedish and International Perspectives on Health & Safety in Agriculture
- International Perspectives on Farmers’ Psychosocial Working Conditions and Mental Health
- Severini S. - Department of Agriculture and Forest Sciences, Tuscia University, Viterbo, Italy
- Risks and Vulnerabilities of the EU Food Supply and Risk Management Tools at the Farm Level

Main Communication
- Main Communications present research activities conducted by various organizations located in Europe and beyond with the aim of stimulating new ideas and collaborations among researchers.

- Bisaglia C. - CREA, Research Centre for Engineering and Agro-Food Processing, Italy
- Edstrand C., Domino H. B., Norup M. - SEGES Innovation, Aarhus N, Denmark
- Jakob M. - Department of Technology Assessment and Substance Cycles Leibniz Institute for Agricultural Engineering and Bioeconomy, Potsdam, Germany
- Rosecrance J. - Occupational Ergonomics & Safety Program Director, High Plains Intermountain Center for Agricultural Health and Safety (HICACHS), Colorado State University, United States
- Vita L. - INAIL Dept of Technological Innovations and Safety of Plants, Products and Anthropic Settlements
Thursday, September 7, 2023
SDS DISUM, Piazza Chiaromonte, Ragusa Ibla
Room A 9.00 – 10.30 (12 minutes per presentation and overall debate at the end)
Mini Symposium – Topic 2 & 5
WMDS and Occupational Health

Chairperson: Rosemarie John

An Assessment of Stressed Features During Manual Weedling Tasks and Recommendations for Managing Work Practices
Resende, Pennington, Sanders, Maine
Introduction of Passive Tool Supporting Technology on an Asparagus Farm
Jakob
The Use of Exoskeletons in Daily Agricultural Work Processes
Nara, Domenic

Agrisafety Health and 24/7 Crisis Line Built for Farmers and Ranchers
Lay, Jakob

The Past for Skills and the Blueprint Projects: REILS and I-RSTART: Actions at European Level for Improving the Knowledge and Skills in the Agri-Food Sector
Bardeta, Ruotolo, Savina, Roma

10.30 – 11.00 “Barocco” Coffee break

Room A 11.30 – 13.00
Room B 11.30 – 13.00
Parallel session A – Topic 9 & 8

Occupational Health

Machine Milking, Animal Welfare, Sustainable Livestock Farming

Effect of Automatic Feeding System on Feeding Behaviour and Age-Related Interactions at the Headlock in Dairy Cows
Cleo, Barone, Caputo

Efficient Use of Artificial Lighting and Intensive Use of Natural Light in Milking Parlours: the MUNGULUX Project
Fangmeyer, Aziz, Gallina

Vertical Profile of Nitrous Gas Concentrations in an Open Dairy Barn in Mediterranean Area
M. V. A. A., Gallina

An Innovative Indoor and Controlled Sustainable Small Breeding System
D. M. A. C. A., Gallina

Relationship between Fish Kinds, Metals Concentration Detected on Honeybees and their Activity Level
C. S. A. R. D. G., Gallina

Ammonia Remediation inistlec: Rainwater: Photosynthesis Vs Electro-Photosynthesis
C. L. F. R. C., Gallina

13.00 – 14.30 Typical Lunch

Room A 14.30 – 16.30
Room B 14.30 – 16.30
Parallel session B – Topic 9 & 8

Occupational Health

Noise, vibration, dust, endotoxin, microorganisms

A Tuberculosis Anomalous Rural Barrier for Agricultural and Forest Tractors: the QDPS
K. G. A. G. L., Gallina

A Tool for Anomalous Rural Barrier for Agricultural and Forest Tractors: the QDPS
K. G. A. G. L., Gallina

Analysis of the Safety and Health of Non-Specialised Operators Working on Public Urban Green Sites
C. T. A. S. S. D., Gallina, Monaci, Piancone

Frequency Analysis from Electric Portable Harvesters for Olives
C. M. A. R. O. S., Gallina

Inhalable Wood Dust Produced during Chainsaw Operations
D. A. G. S. D. G., Gallina

A Survey on “Farmers’ Health Impact of Pollutant Gasous Emissions of Agricultural Machinery
D. A. G. S. D. G., Gallina

Whole Body Vibration Exposure in Olive Harvesting by Means of Tractor-Mounted Harvesters: A Case Study
C. T. A. S. S. D., Gallina, Monaci, Piancone

Indirect Quantification of Agricultural Workers’ Muscular Fatigue Due to Vibrations Exposure, Aimed at Preventing Possible Accidents at Work
C. T. A. S. S. D., Gallina, Monaci, Piancone

Room A 14.30 – 16.30
Room B 14.30 – 16.30
Parallel session B – Topic 9 & 13

ROPS and Stability Research

Occupational Safety, Environment Safety, People Health Protection and Welfare

A Tool for Anomalous Rural Barrier for Agricultural and Forest Tractors: the QDPS
K. G. A. G. L., Gallina

Compact Tractor 4.0: an Investigation for the Development of a Low-Profiles Full Electric Specialized Tractor
G. D. A. G. S. D. G., Gallina

A Survey on “Farmers’ Health Impact of Pollutant Gasous Emissions of Agricultural Machinery
D. A. G. S. D. G., Gallina

Whole Body Vibration Exposure in Olive Harvesting by Means of Tractor-Mounted Harvesters: A Case Study
C. T. A. S. S. D., Gallina, Monaci, Piancone

Indirect Quantification of Agricultural Workers’ Muscular Fatigue Due to Vibrations Exposure, Aimed at Preventing Possible Accidents at Work
C. T. A. S. S. D., Gallina, Monaci, Piancone

15.30 – 16.30 Typical Lunch

Friday, September 8, 2023
SDS DISUM, Piazza Chiaromonte, Ragusa Ibla
Room A 9.00 – 10.30
Room B 9.00 – 10.30
Parallel session A – Topic 12 & 13

Effect of Landscapes on Human Health and Welfare

Environment Safety, People Health Protection and Welfare

Survey on the Stability of Tractor-Implement Combination on Increasing Slopes
C. T. A. S. S. D. G., Gallina

Applicability to Narrow Tractors of an Official Standard for the Calculation of Self-propelled Agricultural Machines Stability
C. T. A. S. S. D. G., Gallina

Preliminary Results on the Correlation Between Drop Size, Foliar Deposition and Surface Coverage to Reduce Agrichemical Use
Monsanto, Prinetti, Aresu, Ceruta

A Wearable Tracking System to Evaluate SARS-CoV-2 Virus Transmission Risk During Pruning Operation
C. T. A. S. S. D. G., Gallina

Using a Low-Cost Portable Device to Assess Bergamot Fruit Colour in the Field
A. M. A. L. A. M., Gallina, Monaci, Zanettini, Blasco, Gomez, Sanchez, Bernardi

10.30 – 11.00 “Barocco” Coffee break

Room A 11.00 – 13.00
Room B 11.00 – 13.00
Plenary Session – Topic 7

Agriculture 4.0, Automation, Remote Control, Robot and Innovative Vehicle

Chairperson: Bisaglia Carlo

Development of a Product of a Self Driving Electric Vehicle: the MAGA Project
Comitti, Assante, Cenedese

A Functional Classification for Agricultural Robots
C. T. A. S. S. D. G., Gallina

Comparing the Performance of Traditional and Autonomous Tractors in Maize Sowing: on Overall Evaluation of Agricultural Robot Adoption
C. T. A. S. S. D. G., Gallina

Design of an autonomous Sowing Machine for the Precision Sowing
D. A. C. A. G. S. D. G., Gallina

Sentiments and Satellite Images to Discriminate Organic Crops in Northern Italy
Ferrante, D’Amico, Gallina, Monaci

Potentiality of Multiprojective Vegetation Indexes for Evaluating the Influence of the Sowing Technique on Durum Wheat Cultivation Density
Ferrari, Romano, Gallina, Monaci

Pruning Weight Estimation Using Multiples Sensors in a Vineyard in Southern Italy
C. T. A. S. S. D. G., Gallina, Monaci, Roma

Olive tree canopy assessment by UAV/multiprojective images before and after pruning
Romano, Gallina, Monaci, Roma, Gallina

13.00 – 14.30 Typical Lunch

Room A 14.30 – 16.30
Room B 14.30 – 16.30
Parallel session A – Topic 12 & 13

Symposium – Topic 6 & 15

Precision Farming and Traceability – SHWA & Augmented reality, Gamification, IoT

Chairperson: Caffaro Federico and Lundquist Peter

Farmers’ Perception of Smart Farming Technologies: Investigating Aspects to Enhance Agricultural Digitalisation
Pappas, Pampaloni, Caflaga

Precise Agriculture, Agricultural Risks from the Use of Asbestos Driving Systems
Vitale, Matina, Pini, Fermo, Rapisarda, Monaci, Rapisarda, Gallina

Design of a Wireless and Digital Award System for Obstacle Detection of Head and Neck Obstacles in Agricultural Vehicles
Monaci, Vitale, Gallina, Monaci, Gallina, Gallina, Monaci, Gallina

Water Management and Sensing Technology in Citrus Orchards
Carena, Raspanti, Gallina, Monaci

Gamification for Safe and Innovative Agriculture
Monaci, Gallina, Monaci, Gallina, Monaci

Co-Designing Game Training Solutions to Improve Safety in the Agricultural Sector: Insights for the Correct Use of Foldable Roll Over Protective Structure
Carena, Raspanti, Gallina, Monaci

IoT LastAVN Device for Measuring Electrical Consumption in Agricultural Sector: Installation in Dairy Farming and Greenhouse Fire扈
Carena, Raspanti, Gallina, Monaci, Gallina

16.30 “Young Researcher Award”

Next Ragusa SHWA appointments – Closing Ceremony