

modelling tools and innovative approaches in agricultural water management. The lecturers will be given by outstanding scientists belonging to the SMATWATER consortium and other institutions. A certificate of attendance will be released to all participants.

AGENDA

Saturday, 16th July 2023	
Arrival of the participants and accommodation at CIHEAM Bari Campus	
Monday, 17th July 2023	
9.45-10.00	Welcome addresses: <i>Maurizio Raeli, CIHEAM Bari Director</i> <i>Mihajlo Markovic, SMARTWATER project coordinator, University of Banja Luka</i> Presentation of the participants
10:00-11:00	Visit of the CIHEAM Bari infrastructures, laboratories, and experimental fields <i>CIHEAM Bari staff</i>
11:00-11:30	<i>Coffee break</i>
11:30-13:00	Crop growth modelling, water productivity and eco-efficiency: principles, approaches, and application (interactive session) <i>Mladen Todorovic, CIHEAM Bari</i>
13:00-14:00	<i>Lunch</i>
14:30-16:30	Introduction to the crop growth modelling: AquaCrop – a crop growth water productivity model <i>Mladen Todorovic, CIHEAM Bari</i> <i>Marie Therese Abi Saab, CIHEAM Bari/LARI</i>
19:00-20:00	<i>Dinner</i>
Tuesday, 18th July 2023	
9.00-10.30	Presentation of the user interface of AquaCrop model, AquaCrop-GIS and model's applications (theoretical and practical session) <i>Marie Therese Abi Saab, CIHEAM Bari/LARI</i>
10:30-11:00	<i>Coffee break</i>
11:00-13:00	Management of the climate and soil database in AquaCrop: Practical Exercises, <i>Marie Therese Abi Saab, CIHEAM Bari/LARI</i>
13:00-14:00	<i>Lunch</i>

14:30-16:30	<i>Management of the crop database in AquaCrop: Practical Exercises, Marie Therese Abi Saab, CIHEAM Bari/LARI</i>
19:00-20:00	<i>Dinner</i>
Wednesday, 19th July 2023	
9.00-10.30	Generating and managing irrigation scheduling in AquaCrop – simulating yield response to water: theoretical session and practical exercises <i>Mladen Todorovic, CIHEAM Bari</i> <i>Marie Therese Abi Saab, CIHEAM Bari/LARI</i>
10:30-11:00	<i>Coffee break</i>
11:00-13:00	Carbon footprint modelling in agricultural production using a life cycle perspective: theory and practical application <i>Andi Mehmeti, CIHEAM Bari</i>
13:00-14:00	<i>Lunch</i>
14:30-16:30	Carbon footprint modelling in agricultural production using a life cycle perspective: theory and practical application (continuation) <i>Andi Mehmeti, CIHEAM Bari</i>
19:00-20:00	<i>Dinner</i>
Thursday, 20th July 2023	
9.00-10.30	Irrigation management under greenhouse conditions: innovative approaches to improve water productivity and eco-efficiency. <i>Francesco Montesano, University of Bari</i>
10:30-11:00	<i>Coffee break</i>
11:00-13:00	Irrigation management under greenhouse conditions: innovative approaches to improve water productivity and eco-efficiency (continuation). <i>Francesco Montesano, University of Bari</i>
13:00-14:00	<i>Lunch</i>
15:00-17:00	<i>Technical visit of ORTOGOURMET, Mola di Bari</i>
17:00-24:00	<i>Technical-touristic trip and dinner outside of the Institute</i>
Friday, 21st July 2023	
9.00-11.00	Acquisition of soil and crops' growing and physiological parameters at the experimental fields – a practical session at the experimental fields and in laboratories of CIHEAM Bari

	<i>Giovanna Dragonetti, CIHEAM Bari/LARI</i> <i>Carlo Ranieri, CIHEAM Bari</i>
<i>11:00-11:30</i>	<i>Coffee break</i>
<i>11.30-12.30</i>	New technologies, approaches, apps and sensors in support to crop growth modelling, water productivity and eco-efficiency in agriculture – interactive discussion session. <i>Mihajlo Markovic, SMARTWATER Project coordinator</i> <i>Sabrija Cadro, University of Sarajevo</i> <i>Mladen Todorovic, CIHEAM Bari</i>
<i>12:30-13:00</i>	Closing of the course – course evaluation, perspectives, concluding remarks and recommendations, distribution of the certificates. <i>Mladen Todorovic, CIHEAM Bari</i> <i>Mihajlo Markovic, SMARTWATER Project coordinator, University of Banja Luka</i> <i>Sabrija Cadro, University of Sarajevo</i>
<i>13:00-14:00</i>	<i>Lunch</i>
<i>14:30-19:00</i>	<i>Visit of Bari and surroundings – free time</i>
<i>19:00-20:00</i>	<i>Dinner</i>
Saturday, 22nd July 2023	
Departure	