

PAGE PROGRAMME

Lake Como School of Advanced Studies

Programme Proposal

Monday 12 - Friday 16, September 2022

Monday – 12 September 2022		
Time	Topic Description	Speaker(s)
12.30-14.00	Reception and lunch (at Villa del Grumello)	
14.00-14.30	Introduction to the school and programme	Dr. Stefano Armenia - Italian University Line, Rome
14.30- 15.00	Marking 50 years from the first edition of “Limits to Growth”, (online session)	Prof. Dennis Meadows (online)
15.00- 16.00	Obstacles and challenges in systems thinking for sustainable development of cities and communities	Prof. Enrico Giovannini (online) - Italian Minister for Infrastructures and Sustainable Mobility Prof. Patrizia Lombardi – Politecnico di Torino, RUS Coordinator
16.00- 16.30	Thinking about Systems-oriented solutions in sustainability	Prof. Edoardo Mollona - University of Bologna
16.30 – 17.00	COFFEE BREAK & GROUP DYNAMICS	
17.00- 18.00	A Systems view on SDGs	Prof. Habib Sedehi (online) - LUMSA University Dr. Matteo Pedercini (online) - Millennium Institute
18.00- 18.30	Systems Thinking for 21 th century citizens	Dr. Maria Chiara Pettenati - INDIRE
18.30- 19.00	Introduction to Systems Thinking and System Dynamics	Dr. Stefano Armenia - Italian University Line, Rome
<p>The lectures will be alternated by group exercises presented from the Systems Thinking Playbook (by Sweeney & Meadows)</p> <ul style="list-style-type: none"> • <i>Triangles (we always are part of a system of systems)</i> • <i>Thumb wrestling (be aware of the tacit premises)</i> 		

Tuesday – 13 September 2022

Time	Topic Description	Speaker(s)
09.00-10.00	Complexity Understanding in Sustainability	Prof. Federico Barnabè - University of Siena Dr. Alberto Atzori –University of Sassari
10.00- 10.30	Energy transition and the tragedy of the commons	Prof. Ugo Bardi – University of Florence
10.30 – 11.00	COFFEE BREAK & GROUP DYNAMICS	
11.00- 11.30	Food Systems and Sustainability	Prof. Franco Fassio (online) - UNISG
11.30- 12.30	Publishing with Systems Thinking and System Dynamics	Prof. Andreas Größler - University of Stuttgart Prof. Edoardo Mollona - University of Bologna
<p>The lectures will be alternated by group exercises presented from the Systems Thinking Playbook (by Linda B. Sweeney & Dennis Meadows)</p> <ul style="list-style-type: none"> • <i>Balancing tubes (pay attention to the rhythm of system changes)</i> • <i>Frames (be aware of and select the most appropriate framing)</i> 		
LUNCH & GROUP DYNAMICS		
14.00- 16.00	Introduction to System Dynamics modeling and simulation (with Stella®)	Prof. Pål Davidsen (online) - Univ. of Bergen
16:00 – 16:30	COFFEE BREAK & GROUP DYNAMICS	
16:30 – 17:30	Introduction to System Dynamics modeling and simulation (with Stella®)	Prof. Pål Davidsen (online) - Univ. of Bergen
17.30-18.30	Modeling & Simulation Insights	Prof. Edoardo Mollona - University of Bologna
<p>The lectures will be alternated by group exercises presented from the Systems Thinking Playbook (by Sweeney & Meadows)</p> <ul style="list-style-type: none"> • <i>Avalanche (feedbacks in system adjustments and counter-intuitive outcomes)</i> • <i>Warped juggle (incremental and structural changes in systems)</i> 		

Wednesday – 14 September 2022

Time	Topic Description	Speaker(s)
09.00 - 13.00	Parallel practical sessions: <ul style="list-style-type: none"> • Room 1 (Professionals) Crash Introduction in Systems Thinking/System Dynamics (with Silico.app®) • Room 2 (Academics) The zoo of systems 1: workshop on system models (with Silico.app®) 	Dr. Stefano Armenia - Italian University Line, Rome (Room 1) Dr. Rocco Scolozzi - University of Trento (Room 2) Alessandro Pompei – University of Rome Sapienza (Room 2)
<i>Note: from 10.30 to 11.00 → COFFEE BREAK</i>		
LUNCH		
14.30 - 18.30	Parallel practical sessions: <ul style="list-style-type: none"> • Room 1 (Professionals) The zoo of systems 1: workshop on system models (with Silico.app®) • Room 2 (Academics) The zoo of systems 2: workshop on system models (with Silico.app®) 	Dr. Rocco Scolozzi – University of Trento (Room 1) Alessandro Pompei – University of Rome Sapienza (Room 2)
<i>Note: from 16.00 to 16.30 → COFFEE BREAK</i>		
DINNER		
19.30 - 21.00	COCKTAIL AND SOCIAL DINNER (at Villa del Grumello)	
21.00 - 23.00	Entertainment activities: <ul style="list-style-type: none"> • <i>Systems thinking for Urban Sustainability: the Sustain Board Game (from SUSTAIN Erasmus+ Project)</i> • <i>Project Management BoardGame (PMBoG)</i> • <i>Climate Action Simulation (EN-ROADS)</i> 	Alessandro Lanzuisi – Ergo Ludo Editions Alessandro Pompei – University of Rome Sapienza Dr. Stefania Migliavacca – ENI Corporate University

Thursday – 15 September 2022

Time	Topic Description	Speaker(s)
09.00 - 11.00	Driving down greenhouse gas emissions by small-to-medium enterprises (SMEs) (with Silico.app®)	Dr. Kim Warren (online)
11.00 – 11.30	COFFEE BREAK	
11.30 – 13.00	Group Model Building (with Vensim PLE®)	Prof. Etienne Rouwette – Radboud University
LUNCH		
14.30 - 16.30	Practical sessions (mixed groups): <ul style="list-style-type: none"> • <i>Group Model Building Workshop</i> 	Prof. Etienne Rouwette – Radboud University Prof. Andreas Größler - University of Stuttgart
16.30 – 17.00	COFFEE BREAK	
17.00 - 19.00	Practical sessions (mixed groups): <ul style="list-style-type: none"> • <i>Group Model Building Workshop</i> 	Prof. Etienne Rouwette – Radboud University Prof. Andreas Größler - University of Stuttgart

Friday – 16 September 2022

Time	Topic Description	Speaker(s)
09.00 - 10.30	Practical sessions (mixed groups): <ul style="list-style-type: none"> • <i>Group Model Building Workshop</i> • <i>Project Work presentations (plenary)</i> 	Prof. Etienne Rouwette – Radboud University Prof. Andreas Größler - University of Stuttgart
10.30 – 11.00	COFFEE BREAK	
11.00 - 12.30	Practical sessions (mixed groups): <ul style="list-style-type: none"> • <i>Group Model Building Workshop</i> <i>Project Work presentations (plenary)</i> 	Prof. Etienne Rouwette – Radboud University Prof. Andreas Größler - University of Stuttgart
12.30 – 13.15	Debriefing and conclusions	