

	Preliminary session for students	ACADEMIC SEMINAR	ACADEMIC SEMINAR	Extended session LAB for students
	DAY 1	DAY 2	DAY 3	DAY 4
	FRI	THUR	FRI	THUR
	08/03/2019	14/03/2019	15/03/2019	21/03/2019
9:00 – 9:30	Undergraduate and Postgraduate Students Welcome. Victoria Domínguez	Institutional Welcome (F. Montero , ETSAS+J.Nogales CSIC, C. Medina FB, C.Tapia MCAS)	Keynote Speaker 4. Design with Metabolism: Shaping the Inner Life of Things. Rachel Armstrong	Vertical Garden. Lecture. Fernando Hidalgo (Terapia Urbana)
11:30	Introducción a las formas de vida. Carlos Tapia . History, Theory and Composition in Architecture	Opening Keynote Lecture 1. Waltraut Hoheneder . Managing Director, LIQUIFER Systems Group. Vienna, Austria	University of Newcastle Upon Tyne School of Architecture, Planning and Landscape	
	coffee break	coffee break	coffee break	coffee break
12:00 – 12:30				
12:30 – 13:00	Adaptabilidad y entorno.	Keynote Speaker 2. Carla Carmona . F. Philosophy	Keynote Speaker 5. Rolf Hughes , Director of Artistic Research EAG (Experimental Architecture Group)	Vertical Garden. Instalation Fernando Hidalgo (Terapia Urbana)
13:00 – 13:30	Rafael Herrera . AURA Project	University of Seville		
13:30 – 14:00	Solar Decathlon			
14:00 – 14:30		Debate Des Fitzgerald, Cardiff University	debate	
14:30 – 15:00				
15:00 – 15:30		lunch break	lunch break	
15:30 – 16:00				
16:00 – 16:30		Keynote Speaker 3. Juan Nogales CSIC. Centro Nacional de Biotecnología. Madrid	Panel 3. Living architecture for living. David Moreno . ETSAS	
16:30 – 17:00		Panel 1. Digital manufacturing, living processes.		
17:00 – 17:30	Carlos Medina . Biology Faculty. Laboratory. WORKSHOP	presentation 1 Development of self - regulated synthetic gene circuits and its application on controlled protein expression. Alejandro Ronco	presentation 4 Edificios híbridos como sistemas vivos. Salvador Haddadi	Vertical Garden. Installation Fernando Hidalgo (Terapia Urbana)
17:30 – 18:00		presentation 2 The inclusion of side metabolic reactions in the genome - scale metabolic model of Pseudomonas putida highlights the underground metabolism as key player in metabolic robustness. Francisco Javier Canalejo	presentation 5 Confort y sostenibilidad en la arquitectura habitada. Aplicación del conocimiento a la sociedad para la toma de decisiones. Milagrosa Borralló-Jimenez y María LopezDeAsiain	
18:00 – 18:30	coffee break	debate	debate	
18:30 – 19:00		coffee break	coffee break	
19:00 – 19:30				
20:00 – 20:30	Carlos Medina . Laboratory. WORKSHOP	Panel 2. Landscapes - townscapes. Pascual Riesco . Higher School of Engineering. USE	Digital manufacturing processes, and their adaptation for living matter. FabLab. Roberto Narváez , Building Engineering. USE	
20:30 – 20:45		presentation 3		
20:45 – 21:00		Debate	Seminar Conclusions	

preliminary session: 5 hours (+5 hours restricted to mcas students) /Seminar day 1: 10 hours / Seminar day 2: 10 hours /Extended Session: 2 hours + 5 hours vertical garden assemblage practice