

COSMOS: School 2



The COSMOS School 2 was held at the University of Aberdeen, Old Aberdeen Campus, UK. The dates of the event were:

School, Part I: 27th June – 29th June 2016 (Monday-Wednesday)

Workshop: 30th June to 1st July 2016 (Thursday/Friday)

School, Part II: 4th July – July 6th July 2016 (Monday-Wednesday)

The school followed the format of the previous COSMOS school and workshop in Florence (November 2015) where a 6 day school was held over a week and a half, allowing for a 2 day workshop to be held in the middle and giving the ESRs a weekend together for networking. The school consisted of lectures on both scientific subjects and ‘soft skills’ training. The subjects for both types of lectures were identified and developed following discussions within the consortium as well as feedback from the participants of the Florence school and workshop. The two day workshop consisted of 20 minute presentations from the ESRs on their work to date. This had the double benefit of allowing the ESRs to gain valuable advice and feedback from all COSMOS PIs (and not just their immediate supervisors) as well as giving the whole consortium an overview of all projects from which potential overlaps and future areas of collaboration could be identified. A poster session was also held to allow further discussion of the scientific directions of the ESRs.

The COSMOS board meeting and a social dinner were both held on Thursday, June 30th.

The event had ten invited speakers plus lectures by seven members of the COSMOS-network.

Invited speakers

Stephen Coombes	Gian-Luca Oppo
Sergio Gomez	Stefano Ruffo
Daniel Vogel	Ulrike Feudel
Mark Purvis (IOP)	Ekkehard Ullner
Joachim Gross	Celso Grebogi

COSMOS speakers

Max Moser
Ernest Montbrió
Francesco Ginelli
Roberto Livi
Antonio Politi
Arkady Pikovsky
Björn Schelter

As part of this deliverable, we submit:

- School programme
- Workshop programme

Presentations and talks from the event were added to the internal sections of the COSMOS website.

2nd COSMOS School and Workshop

School, week 1

Monday, June 27, 2016

9:30 – 10:30	Stephen Coombes: Dynamics of neural networks I
10:30 – 11:00	<i>Break</i>
11:00 – 12:00	Sergio Gomez: Network dynamics I
12:00 – 13:30	<i>Lunch</i>
13:30 – 14:30	Daniel Vogel: Statistical data analysis I
14:30 – 15:30	Stephen Coombes: Dynamics of neural networks II
15:30 – 16:00	<i>Break</i>
16:00 – 17:00	Francesco Ginelli: Scientific writing

Tuesday, June 28, 2016

9:30 – 10:30	Sergio Gomez: Network dynamics II
10:30 – 11:00	<i>Break</i>
11:00 – 12:00	Max Moser: Physiological data I
12:00 – 13:00	Mark Purvis: The publication process seen from the publisher's point of view
13:00 – 14:00	<i>Lunch</i>
14:00 – 16:00	ESR Assembly meeting
16:00 -	<i>Free time and networking</i>

Wednesday, June 29, 2016

9:30 – 10:30	Max Moser: Physiological data II
10:30 – 11:00	<i>Break</i>
11:00 – 12:00	Joachim Gross: Brain oscillations I
12:00 – 13:00	Joachim Gross: Brain oscillations II
13:00 – 13:30	<i>Lunch</i>
13:30 - 14:30	Daniel Vogel: Statistical data analysis I
14:30 - 15:00	<i>Break</i>
15:00 - 16:00	Stefano Ruffo: Theory of large deviations I
16:00 - 17:00	Stefano Ruffo: Theory of large deviations II

Workshop

Thursday, June 30, 2016

9:30 – 10:20	Celso Grebogi: Compressive sensing
10:30 – 10:55	Project 1
11:00 – 11:30	<i>Break</i>
11:30 – 11:55	Project 2
12:00 – 12:25	Project 3
12:30 – 14:00	<i>Lunch</i>
14:00 – 14:25	Project 4
14:30 – 14:55	Project 5
15:00 – 15:25	Project 6
15:30 – 16:00	<i>Break</i>
16:00 – 16:25	Project 7
16:30 – 19:00	Board Meeting
20:00 –	Social dinner

Friday, July 01, 2016

9:30 – 10:20	Roberto Livi: Mean field methods for networks of rotators
10:30 – 10:55	Project 14
11:00 – 11:30	<i>Break</i>
11:30 – 11:55	Project 9
12:00 – 12:25	Project 10
12:30 – 14:00	<i>Lunch</i>
14:00 – 14:25	Project 11
14:30 – 14:55	Project 12
15:00 – 15:25	Project 13
15:30 – 16:00	<i>Break</i>
16:00 – 16:25	Project 8
16:30 – 16:55	Project 15

School, week 2

Monday, July 04, 2016

9:30 – 10:30	Gian-Luca Oppo: Computational Physics I
10:30 – 11:00	<i>Break</i>
11:00 – 12:00	Antonio Politi: The reviewing process
12:00 – 13:30	<i>Lunch</i>
13:30 – 14:30	Ernest Montbrió: Collective dynamics in neuronal models I
14:30 – 15:30	Antonio Politi: Lyapunov exponents I
15:30 – 16:00	<i>Break</i>
16:00 – 16:30	Arkady Pikovsky: Ethics

Tuesday, July 05, 2016

9:30 – 10:30	Gian-Luca Oppo: Computational Physics II
10:30 – 11:00	<i>Break</i>
11:00 – 12:00	Ernest Montbrió: Collective dynamics in neuronal models II
12:00 – 13:30	<i>Lunch</i>
13:30 – 14:30	Ulrike Feudel: Extreme events
14:30 – 15:30	Ekkehard Ullner: Circadian rhythm I
15:30 – 16:00	<i>Break</i>
16:00 – 17:00	Björn Schelter: Preparing a seminar

Wednesday, July 06, 2016

9:30 – 10:30	Ulrike Feudel: Pattern switches
10:30 – 11:00	<i>Break</i>
11:00 – 12:00	Ekkehard Ullner: Circadian rhythm II
12:00 – 13:00	Antonio Politi: Lyapunov exponents II
13:00 -	<i>End of school</i>