

SCIENTIFIC MEETING

Collective intelligence, forms, functions &
evolution across species, societies, & industries

DAY 1

Wednesday, May 15

9:00 - 9:30

Coffee break

9:30 - 10:00

Introduction - the evolution of collective intelligence
Edmond Seabright (Universite Mohammed VI Polytechnique)

Session 1

Adaptive consequences of CI for non-human animals

10:00 - 10:30

Collective and associative learning in insect colonies
Takai Sasaki (University of Georgia)

10:30 - 11:00

Clever vermin? Collective intelligence in rats and roaches
Cristine Legare (University of Texas at Austin)

11:00 - 11:30

Coffee break

11:30 - 12:00

A comparative study of cooperative sustainability: collective resource management in chimpanzees and children
Rebecca Koomen (University of Dundee)

12:00 - 12:30

Collective reasoning enables animal collectives to achieve benefits not available to individuals
Chris Krupenye (Johns Hopkins University)

12:30 - 13:00

Joint Q&A for Speakers in Session 1

13:00 - 14:00

Lunch

Session 2

CI and Social Structures

14:00 - 14:30

Inter-group connectivity and collective intelligence in humans and chimpanzees
Andrea Migliano (University of Zurich)

14:30 - 15:00

Social Structure as Predictors of Collective Decision-Making Efficiency in Human Groups
Bhavya Vadavalli (Boston University)

15:00 - 15:30

Coffee break

15:30 - 16:00

Engineered Social Worlds: Symbolic Material Culture and Collective Intelligence
Francesco D'Errico (CNRS, University of Bordeaux)

16:00 - 16:30

Joint Q&A for Speakers in Session 2

16:30 - 17:00

Coffee break

17:00 - 18:00

Open Discussion Day 1: Collective intelligence: Establishing a consensus on definitions, boundaries and framework.
Discussant and Chair: Andy Whiten (University of St. Andrews)

18:00 - 19:00

Poster Session I and Tea

20:00 - 21:00

Dinner at campus hotel

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DAY 2

Thursday, May 16

9:00 - 9:30

Coffee break

Session 3

CI, complexity, and collective problem-solving

9:30 - 10:00

Collective Intelligence and Problem-Solving in Early Childhood
Bahar Köymen (University of Manchester)

10:00 - 10:30

Exploring solutions to the tragedy of the commons: efficiency traps and emissions cuts
José Segovia-Martin (Université Mohammed VI Polytechnique)

10:30 - 11:00

Coffee break

11:00 - 11:30

Evolution of collective problem-solving strategies
Maria Pykälä (University of Lausanne)

11:30 - 12:00

Intentionality, Collective Intelligence, and the Evolution of Complexity
Joseph Tainter (Utah State University)

12:00 - 12:30

Joint Q&A for Speakers in Session 2

12:30 - 14:00

Lunch and Poster Session II

Session 4

Mechanisms for Improving CI

14:00 - 14:30

Aggregating non-binary judgments: Collective consistency, truth-tracking, and non-manipulability
Christian List (Ludwig Maximilians University)

14:30 - 15:00

Asymmetrical social copying drives behavioural cascades following a shock event
Mehdi Moussaid (Université Mohammed VI Polytechnique)

15:00 - 15:30

Coffee break

15:30 - 16:00

Synthetic and integrative approaches to intelligence in social contexts
Geoff Mulgan (University College London)

16:00 - 16:30

Joint Q&A for Speakers in Session 4

16:30 - 17:00

Coffee break

17:00 - 18:00

Open Discussion Day 2: Improving cross-disciplinary conversation around CI.
Discussant and Chair: Monique Borgerhoff Mulder (University of California Davis)