

Les Journées Scientifiques de la GRADUATE SCHOOL Biosphera

**CES JOURNÉES S'ADRESSENT À
TOUTE LA COMMUNAUTÉ BIOSPHERA**

Venez échanger sur les thèmes scientifiques portés par la Graduate School et participer au lancement de nos huit programmes thématiques !

**13 & 14
OCTOBRE**²⁰₂₂

CAMPUS AGROPARISTECH
22 PLACE DE L'AGRONOMIE
91120 PALAISEAU



CONTACT & INFORMATIONS :
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SCIENTIFIC DAYS PROGRAMME

Thursday 13 October

8h30 WELCOME (of participants)

9h INTRODUCTION BY Benoît Gabrielle – GS Biosphera Director & Claire Rogel-Gaillard - GS Biosphera Deputy Director Research

9h30 THEMATIC PROGRAMME: **ECOLOGY & EVOLUTION**

By Antoine Branca - EGCE & Nicolas Delpierre – ESE

- Speakers: Elsa Bonnaud – ESE: “Consequences of ecological invasions (territory, biosphere)”
- Fabrice Requier – EGCE: “Ecology of pollinators”

10h THEMATIC PROGRAMME: **MICROORGANISMS: FROM GENES TO ECO-SYSTEMS**

By Ariane Bize - PROSE & Stéphane Chaillou – Micalis

- Speakers: Benoît Alunni & Sara Dendene – I2BC: “Role of FcrX in cell cycle regulation of *Sinorhizobium meliloti* during symbiosis with leguminous plants”
- Francoise Irlinger & Thomas Paillet – SayFood: “Isolation of phages from the cheese surface and study of their impact on the structuring and functioning of the cheese microbial ecosystem”
- Laurent Mazaés & Xiaoqing Wang – PROSE: “Optimisation of anaerobic digestion using-omics approaches”

10h30 BREAK & PLATFORMS POSTER SESSION

11h30 THEMATIC PROGRAMME: **ANIMAL SCIENCES: FROM WILD TO DOMESTICATED ANIMALS**

By Christelle Loncke AgroParisTech/MoSAR & Gwendal Restoux - GABI

- Speakers: Laurence Puillet - MoSAR: “How to combine levels and methods to capture animal adaptive capacities and improve resilience and efficiency of livestock systems? Example from Adapt-Herd project”
- Alicia Jacques - GABI: “Use of cryopreserved material to re-introduce genetic diversity in domestic animal populations”

12h THEMATIC PROGRAMME: **PLANT SCIENCES: FROM WILD TO CULTIVATED PLANTS**

By Patrick Laufs – IJPB & Xavier Aubriot - ESE

- “Presentation of the scientific themes of the laboratories attached to this programme”

12h30 COCKTAIL LUNCH

14h THEMATIC PROGRAMME: **FOOD SCIENCE AND HUMAN NUTRITION**

By Delphine Rousseau – BREED & Anne Saint-Eve - SayFood

- Speakers: François Mariotti & Alison DUSSIOT - AgroParisTech: “Protein revegetation in the diet: what are the nutritional and dietetic obstacles and levers?”

14h30 THEMATIC PROGRAMME: **TERRITORIES AND SOCIETIES: FROM NATURAL ENVIRONMENTS TO AGROECOSYSTEMS**

By Cécile Blatrix – AgroParisTech / Printemps & Juan Fernandez - ESE

- Speakers: Katherine Salès – co-tutelle Panthéon-Sorbonne / ESE LADYSS: “Interests and challenges of a comparative law and institutions approach: the case of environmental assessment”
- Lola Guillot – SADAPT: “Territorial food projects: how the State encourages the agro-ecological transition of territories”

15h THEMATIC PROGRAMME: **SUSTAINABLE CIRCULAR BIOECONOMY**

By Violaine Athès – SayFood & Jacques Méry - SADAPT

- Speakers: Florent Levavasseur & Sabine Houot - ECOSYS: “Agricultural valorisation, a step in the bioeconomy necessary for the agro ecological transition: example of an Ile-de-France region”
- Valentin Larzillière & Théodore Bouchez – PROSE: “Microbial electrochemical technologies for using organic waste and wastewaters as feedstocks for circular bioeconomy”

15h30 THEMATIC PROGRAMME: **ENVIRONMENTAL SCIENCES: ECONOMICS, RESSOURCES AND IMPACTS**

By Stéphane De Cara – PSAE & Sébastien Saint-Jean – AgroParisTech / ECOSYS

- Speakers: Laure Bamière – PSAE: “A Marginal Abatement Cost Curve for climate change mitigation by additional carbon storage in French agricultural land.”
- Pedro-Henrique Herig-Coimbra - ECOSYS: “Hot topics on carbon flux. A simple method to identify anomalies on the net ecosystem exchange: an application on heat waves”

16h BREAK, POSTER SESSION & INFORMATION STAND FOR STUDENTS

18h INVITED KEYNOTE - David Makowski

“Can data science inform controversies in agriculture, environment, and health?”

19h COCKTAIL DINNER



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Friday 14 October

8h30 WELCOME (of participants)

9h INTRODUCTION

9h15 SEMINAR ON « PARTICIPATORY SCIENCE »

10h15 THEMATIC PROGRAMMES WORKSHOP: *content and scientific priorities*

11h15 THEMATIC PROGRAMMES WORKSHOP: *mode of operation and actions planned*

12h15 HIGHLIGHTS & CONCLUSION

12h45 COCKTAIL LUNCH