RESEARCH NEWSLETTER

EU GREEN WP3

April 2024
#6

Dear all,

For EU GREEN's WP3, April is rich in events as the seed funding projects take roots and the consortium begin to meet more and more, in addition to the regular cluster meetings. This edition gives you a glimpse of the different steps taken by some projects.

This April edition also draws up a list of available information on the WP3 website with the webinars on different European calls by the European project advisors; and the profiles of available supervisors for MSCA post doctoral fellowships.

As the deadline for the researchers mobility program (02/05) and the doctoral allowances (06/05) draw to a close, we hope to see many more project emerge in 2024.

Please note that you can always contact us at eugreenwp3@univ-angers.fr.
Thanks for reading,
Work Package 3 Team

CLUSTERS

Clusters are open boxes. To integrate your research topic within the network, click here !

Here are the dates for the next meetings. If you want to join, reply to this email :

Cluster 1 - Emerging paradigm for health and well-being: **26th of April 10 am CEST**

Cluster 2 - Agriculture, food and environmental sustainability : **10th of May 1pm30 CEST**

Cluster 3 - Engineering and technology for sustainable development : **3rd of May 10 am CEST**

Cluster 4 - Sustainable tourism for cultural and natural heritage: tbd

Cluster 5 - Education sciences for sustainable development: **6th of May 2 pm CEST**

Cluster 6 - Challenges in ecosystem biodiversity and function : **28th of June, noon CEST**

MSCA POST DOCTORAL FELLOWSHIP

- **On May 21st, noon to 2pm CET, the webinar "How to write a successful MSCA Postdoctoral Fellowship project"** will dive deep into the proposal writing process and offer both fellows and supervisors a session dedicated to practical hints and tips on how to write a competitive proposal. There will be a helping hand from a fellow who was successful in the past calls. **Click here to register and join the webinar.**

Find all webinars to come on the website as well as recordings of the previous webinars

The MSCA PF call is for research projects between an experienced researcher, who takes the role of a **supervisor**, and a **postdoctoral fellow**. The idea is for the fellow to carry out the project abroad, so the application must be submitted with a Host institution from another country.

EU GREEN Universities are seeking for high profile Postdoctoral applicants for the next MSCA PF session whose **deadline is on September 14th, 2024**. The MSCA PF is open to **any research topic** and focus on the training and improving the researchers' careers, through international, intersectorial and interdisciplinary approaches.

Click here to see the full range of MSCA supervisors within the EU GREEN alliance. Spread it to potential fellows !

MATCHMAKING POST DOC

Lei Ma, PhD student from the university of Gävle, is looking for a supervisor for an MSCA PF in the field of on **geospatial information science.** His PhD is studying the **complexity of urban form** (the layout of street networks and building groups, for example) and designing natural and cost-efficient street networks in urban context. He has developed a simulation tool to understand as well as planned the **desire paths** that we often observe on the lawn in urban areas. Based on his simulation tool, a naturally evolved street networks can be created and to existing road systems can be augmented with desire paths to shorten pedestrian moving distances. This street planning modelling now is 2D version, and he would like to expend it to 3D and involve more pedestrians' cognitions about 3D built environment. Here are his recent publications:
https://journals.sagepub.com/doi/full/10.1177/23998083231184884
https://www.mdpi.com/2220-9964/11/5/287

MATCHMAKING

Dr Anne Mimet – University of Angers, France (anne.mimet@univ-angers.fr) Google Scholar & Researchgate

Key-words: Landscape connectivity, Ecological modeling, Urban ecology, Urban planning, Landscape ecology, Landscape dynamics

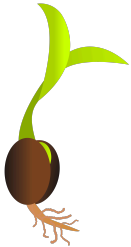Would be happy to find someone bringing knowledge and skills on one or more of these topics :
- biodiversity monitoring by audio-recorders and/or footprints
- Remote sensing and spatial analyses
- Connectivity modeling (Conscape)
- Statistical modeling for heterogeneous datasets

For a cosupervision in the frame of the EU GREEN doctoral allowance. More details available here.

BIP FOR YOUNG RESEARCHERS

The Blended Intensive Program for Young researchers, organized by a consortium from UEx, UE, UO, HiG and UA. This first call gathered **90 applications from master and Phd students.** The selection committee chose **33 participants** 7 from UEX, 5 from UA, 5 from UPWR, 5 from UE, 5 from UNIPR, 4 from ATU, 2 from OVGU. This huge success indicates a massive interest from young researchers.

The next steps for the BIP dedicated to youg researchers are the virtual period in May, followed by the in-presence part in July in Spain.

SEED FUNDING

22 & 23rd of April

AGRIBIOPEP (cluster 2) kick off meeting in Badajoz, Extramadura on the topic: STRATEGIES TO OBTAIN BIOACTIVE COMPOUNDS FROM BY-PRODUCTS OF THE AGRIFOOD INDUSTRY from April 23rd to April 2024

NOTES (cluster 4, Tourism) kick off meeting in Sligo, ATU, Ireland. Along with workshops, the team will attend the launch of the Altlantic Sustainable Tourism Observatry with the presence of Catherine Martin Minister of Tourism; Culture, Arts, Gaeltacht and Media as well as Local Authorities, and Tourism enterprises)   **2nd of May**

7th of May

BASE (cluster 5) team continues to work on the survey on sustainability-related education practices and perceptions (SREPP) of academic and research staff across the partner Universities

EU GREEN NEW JOINT DEGREES

A joint WP2/WP3 action

24 manifestations of interesr have been received by WP2 - Education (see below). If you are interested by one of this proposals, reply to this email

- **MSc in Agricultural Technology** (2nd cycle Master)
- **Health & Social Care** (1st cycle PhD)
- **MA Business Sustainability and Human Rights** (2nd cycle Master)
- **Digital Engineering for Sustainability** (2nd cycle Master)
- **Industry 4.0** (2nd cycle Master)
- **MSc in Sustainable Tourism** (2nd cycle Master)
- **Master's in Education for Sustainable Development** (2nd cycle Master)
- **Masters in Materials Sustainability** (2nd cycle Master)
- **Agroecology** (2nd cycle Master)
- **Humanities and New cultural paradigms in tourism** (2nd cycle Master)
- **MSc is Geosystems for a Circular Economy (**2nd cycle Master)
- **Cultural Heritage and Sustainability Studies (**2nd cycle Master)
- **Doctorate in Nursing** (3rd cycle PhD)
- **Renewable energies** (2nd cycle Master)
- **Precision and sustainable agriculture** 2nd cycle Master
- **Sustainability, Innovation, Entrepreneurship in Smart Rural Territories** (2nd cycle Master)
- **Sciences and technologies for the ecological transition of agricultural and urban ecosystems** (2nd cycle Master)
- **Economics of Sustainable Development** (2nd cycle Master)
- **Bioprocessing and Bioresource Engineering(** 1st cycle Bachelor)
- **Humanitarian Aid and Emergency Management** (2nd cycle Master)
- **Developing Resilient Landscapes** (2nd cycle Master)
- **Sustainable Industrial Biotechnology** 2nd cycle Master)
- **Artificial Intelligence for sustainable technologies** (1st cycle Bachelor)

Next steps:
- **Matchmaking until 31st of May**
- **Pre-evaluation by the Joint Research Commitee (WP3, gathers all vice rectors for research or equivalent) at the Staff week in ATU**
- **Final selection of 3 pilot programs in Evora, Portugal, at the WP2 Staff week in June**

MEET A RESEARCHER

Marion McAfee is a Senior Lecturer in the **Department of Mechatronic Engineering** at the Atlantic Technological University. She is Co-Director of the MISHE Research Centre (Mathematical Modelling and Intelligent Systems for Health and Environment) and co-leads the ATU Postgraduate Research Training Programme in **Modelling and Computation for Health and Society (MOCHAS).** Marion's research interests are in sensorisation, modelling, and control particularly in intelligent manufacturing, agriculture and smart medical devices - aiming to improve sustainability while making products which enhance quality of life. She leads the **PROCEED 3D project** which is a multidisciplinary collaboration developing novel sensors and algorithms for 3D printing of **personalised drug delivery devices**. The project involves combining **materials science, sensors, control engineering, computer vision and AI** so requires good interdisciplinary skills and communication among the team. Marion has a keen interest in **doctoral training initiatives** to develop well-rounded researchers that can work collaboratively across disciplines to tackle societal challenges, and is delighted to be working with EU Green colleagues on a **BiP for early stage researchers on Modelling and Computation for Sustainability.**

Publications:

Saleem, Z., Gustafsson, F., Furey, E., Huq, S. and McAfee, M. 'A review of external sensors for human detection in a human robot collaborative environment'. Journal of Intelligent Manufacturing (2024). https://doi.org/10.1007/s10845-024-02341-2

Munir N, McMorrow R, Mulrennan K, Whitaker D, McLoone S, Kellomäki M, Talvitie E, Lyyra I, McAfee M. 'Interpretable Machine Learning Methods for Monitoring Polymer Degradation in Extrusion of Polylactic Acid'. Polymers. 2023; 15(17):3566. https://doi.org/10.3390/polym15173566

McAfee M, Kariminejad M, Weinert A, Huq S, Stigter JD, Tormey D. 'State Estimators in Soft Sensing and Sensor Fusion for Sustainable Manufacturing'. Sustainability. 2022; 14(6):3635. https://doi.org/10.3390/su14063635

**Thank you for reading this 6th edition of EU GREEN's
Work Package 3 newsletter.
Kind regards,
*Work Package 3 Team***