



CA18224 COST ACTION GREENERING

Green Chemical Engineering Network
towards upscaling sustainable processes

<https://www.greenering.eu/>



Ana Rita Duarte from the NOVA University of Lisbon (Portugal) is the coordinating Chair of the Action.

Cost Action GREENERING has the objective to promote and boost the industrial application of green chemistry and sustainable technologies, developing the tools for the scale-up and implementation of emerging processes in the industry. GREENERING consists of conferences, seminars, summer schools, practical courses mentoring towards funding and commercialization, student/researcher mobility, facilitating the creation of new start-up companies and reinforced implementation of green technologies at the industrial level.

Presentation of the team



Activities during the first mid-term period

1st International Greenering Conference



6 keynote lecturers were from *Firmenich, Hydrumedical, Iktos, Scale-up Systems, Symrise, and la Universidade Nova de Lisboa*



- 8 topics: *Alternative solvents, Biofuels and bioenergy, Cosmetics, Food technology, Pharmaceuticals, Raw materials, Waste treatment/valorization, Green policies and innovation.*
- more than 130 abstracts submitted
- more than 150 registered participants
- 23 different countries represented

Technical days "Bubbles"



The Faculty of Technology Novi Sad (Serbia) and the Faculty of Food Technology and Biotechnology Zagreb (Serbia) organized the first Greenering Bubbles. The topic of those three-day training school was the application of green technologies and green solvents in plant processing and extract production. Representatives from 9 companies participated: *Euro Prima, Vitalon, Deverra Farm, Suncokret Granum, Sapunoteka, Imortela, Nickel, Bio et naturalis and Adena Natura.*



Success stories



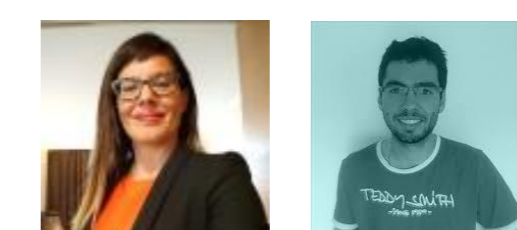
Alexandre BARROS
CEO of Hydrumedical

Alexandre Barros from the company Hydrumedical (Portugal) initiated the webinar series "Greenering success stories". It consisted of an interested exchange of short questions and answers, chaired by Alexandre Paiva (Des Solutio – Portugal). Alexandre Barros presented Hydrumedical products, how green chemistry (through the use of supercritical CO₂) is integrated in Hydrumedical processes, how he managed to transpose a green process from laboratory to industrial scale, difficulties encountered but also successes.

When Industry meets Academia



For the 1st Greenering webinar "When Industry meets Academia" Irene Malpartida and Valentin Lair from the company Deasyl S.A. (Switzerland) met Mafalda Sarraguça from the Faculdade de Farmácia from Universidade do Porto (Portugal) to talk about Mechanochemistry.



Irene Malpartida and Valentin Lair
Deasyl SA



Mafalda Sarraguça
Universidade de Porto

STSM and ITC grants

STSM grantees	ITC grantees
2019 - 2021	
19	21

Publications



Towards Next-Generation Sustainable Composites Made of Recycled Rubber, Cenospheres, and Biobinder

by Kristine Irtiseva¹, Vjaceslavs Lapkovskis², Viktors Mironovs², Jurijs Ozolins¹, Vijay Kumar Thakur³, Gaurav Goel⁴, Janis Baronins⁵ and Andrei Shishkin^{1,5}

- 1 Rudolfs Cimdinis Riga Biomaterials Innovations and Development Centre of RTU, Institute of General Chemical Engineering, Faculty of Materials Science and Applied Chemistry, Riga Technical University, Pulka 3, Riga LV-1007, Latvia
- 2 Scientific Laboratory of Powder Materials & Institute of Aeronautics, 6B Kipsalas Str., Faculty of Mechanical Engineering, Riga Technical University, Riga LV-1048, Latvia
- 3 Biorefining and Advanced Materials Research Center, Scotland's Rural College (SRUC), Kings Buildings, West Mains Road, Edinburgh EH9 3JG, UK
- 4 School of Engineering, London South Bank University, 103 Borough Road, London SE 10AA, UK
- 5 Maritime Transport Department, Latvian Maritime Academy, 12, Flotes Str., k-1, Riga LV-1016, Latvia

Future activities

The next period is already under preparation. New training and dissemination activities will be held:

- An entrepreneurship course is scheduled on November 2022
- The Balkan training school on February 2022
- A Greenering scientific meeting on February 2022
- A high-pressure training course on July 2022
- Next International Greenering conference will be held on February 2023 in Spain

The webinar series "Success stories" and "When industry meets academia" will go on, as well as the STSM and ITC grant calls.

Joint publications are under redaction.

Ultimately, Greenering expects to respond to calls for European projects to form strong and successful Greenering consortia.

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<https://www.linkedin.com/groups/8850764>

<https://twitter.com/CGreenering?s=09>

[Cost_action_greenering](https://www.instagram.com/Cost_action_greenering)

<https://www.youtube.com/channel/UCWbmofWzanOICVOvksdZkJA>

