

### CONFERENCE HALL GRAND SALON

Hotel  
International

8.00-9.00 **Registration**

**SESSION C: BIOMASS FOR BIO-BASED INDUSTRY**

**CHAIRS: J. A. P. Coutinho, M. Rogošić**

9:00 – 9:45 **João A. P. Coutinho**, Water-based solutions for biorefineries, Department of Chemistry, University of Aveiro, Aveiro, Portugal

9.45-10.00 **Marina Tišma**: All colors of *Trametes versicolor*, Faculty of Food Technology Osijek, Josip Juraj Strossmayer University of Osijek, Osijek, Croatia

10.00-10.15 **Hung Anh Le Duong**: Experimental study of thermal resistance values of natural fiber insulating materials under different mean temperatures, University of Sopron, Hungary



10.15-10.30 **Mario Novak**: Purple non-sulphur bacteria in development of sustainable bioprocesses for production of high value bio-chemicals and usage in bio-remediation, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia

10.30-10.45 **Theresa Rücker**: Advanced analysis of high value-added products from a pilot scale lignin depolymerization plant, SINTEF Industry, Trondheim, Norway

10.45 -11.15 **COFFEE BREAK**

10.45-11.15 **Poster presentations (SESSION D)**

**SESSION C: BIOMASS FOR BIO-BASED INDUSTRY**  
-continues

**CHAIRS: V. Živković, T. Rezić**

11.15-11.30 **Elaine G. Mission**: Microwave-subcritical hydrolysis: from model compound to complex biomass, PressTech, Instituto de Bioeconomia de la Universidad de Valladolid, Spain

11.30-11.45 **Neven Voća**: Sewage sludge management via energy crop production, Faculty of Agriculture, University of Zagreb, Croatia

11.45-12.00 **Zsófia Kóczán**: Modification of cellulose sheet properties with plantago psyllium seed husk, University of Sopron, Hungary



12.00-12.15 **Sanja Jakopec**: Effect of abrasive grain size on the abrasion resistance of black locust (*Robinia pseudoacacia*) in three characteristic section, Faculty of Mechanical Engineering and Naval Architecture, University of Zagreb, Croatia



12.15-12.30 **Branimir Šafran**: Influence of moisture content on the calorific value of wood raw material, Department of Processes Engineering, Faculty of Forestry and Wood Technology, University of Zagreb, Zagreb, Croatia

12.30-12.45 **Branko Ursić**: Selected physical and chemical properties of wood chips produced in selective and salvage feelings of Norway spruce (*Picea abies* (L.) Karst.)

### CONFERENCE HALL MEDITERAN

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**Workshop: FINAL PRESENTATION THE RESULTS OF THE PROJECT "Isolation and encapsulation of bioactive molecules of wild and cultivated nettle and fennel and effects on organism physiology" funded by Croatian Science Foundation, grant number IP-01-2018-49244**

11.15-11.30 **Maja Repajić**: Isolation of fennel essential oil by conventional and advanced extraction techniques, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia

11.30-11.45 **Ena Cegledi**: The influence of extraction and environmental parameters on the isolation of bioactive compounds from nettle (*Urtica dioica* L.), Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia

11.45-12.00 **Ivona Elez Garofulić**: Spray-drying encapsulation of nettle and fennel bioactive molecules, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia

12.00-12.15 **Igor Palčić**: Influence of fertilization on wild nettle (*Urtica dioica* L.) and fennel (*Foeniculum vulgare* Mill.) yield

12.15-12.30 **Domagoj Đikić**: *Urtica dioica* (Stinging Nettle) extracts and its effect on Ppara, PPARy and metabolic markers of lipid and glucose metabolism, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia

12.30 -13.30 **LUNCH**

## Lectures &amp; Parallel sessions

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## SESSION D: GREEN TECHNOLOGY

CHAIRS: M. Cvjetko Bubalo, W. Kroutil

- 13.30-14.15 **Wolfgang Kroutil:** Using biocatalysis to green organic chemistry, University of Graz, Institute of Chemistry, BioTechMed Graz, Field of Excellence BioHealth, NAWI Graz, Austria
- 14.15-14.30 **James H. Clark:** Phytocat: plant-based metals as catalysts, Green Chemistry Centre of Excellence, Circa Renewable Chemistry Institute, Centre for Novel Agricultural Products, University of York, UK
- 14.30-14.45 **Anita Šalić:** Advances of enzymatic microreactors – successful examples of integrated systems for process intensification, Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia
- 14.45-15.00 **Kristina Radošević:** Deep eutectic solvents – promising green solvents for pharmaceutical application, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia
- 15.00-15.15 **Thanos Andreou:** On liminality: between stability and function, VIO Chemicals AG
- 15.15-15.30 **Natela Dzebisashvili:** Treatment of the Wastewater from Ammonia and Microbiological Components by using Carbon Materials
- 15.30-15.45 **Vlatka Petravić Tominac:** Production of Arabitol from sugar beet pulp, Faculty of Food Technology and Biotechnology, University of Zagreb, Croatia
- 15.30 -16.15 **COFFEE BREAK**
- 15.30-16.15 **Poster presentations (SESSION D)**

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## Workshop: Issues of Coppice Management in the area of Lika

- 14.00-14.15 **Martina Dodan:** Project presentation: Issues of coppice management in FA Gospić, Croatian Forest Research Institute, Jastrebarsko, Croatia
- 14.15-14.30 **Valeriu-Norocel Nicolescu:** Coppice forests vs. High forests: a political, technical, and social issue in Romanian forestry, Faculty of Silviculture and Forest Engineering, Transylvania University of Brasov, Romania
- 14.30-14.45 **Darko Smerdel:** Coppice management in Croatian forests Ltd., Croatian Forests Ltd, Zagreb, Croatia
- 14.45-15.00 **Darijan Prugovečki:** Preliminary results of quality and growth of Lika coppices – Perušić case study, Croatian Forest Research Institute, Jastrebarsko, Croatia
- 15.00-15.15 **Jasnica Medak:** Plant composition dynamics in different forest types of fa Gospić area, Croatian Forest Research Institute, Jastrebarsko, Croatia
- 15.15-15.30 **Ivan Pilaš:** Spatial data analysis for typological characterization of the beech coppice forests in Gospić forest administration, Croatian Forest Research Institute, Jastrebarsko, Croatia
- 15.30 -16.15 **COFFEE BREAK**
- 15.30-16.15 **Poster presentations (SESSION D)**
- 20.00 **GALA DINNER**

