

CHALLENGES OF THE BIOLOGICAL CONVERSION OF RESIDUES INTO PLATFORM CHEMICALS

Santiago de Compostela, 28 May 2020

OBJECTIVE

Converting residues and wastes into chemicals, such as volatile fatty acids, is hot topic of research which has not yet reached the maturity for becoming an economically viable valorisation technology. This symposium is meant to serve as a forum for experts to discuss the main current and future challenges: What are the suitable technologies for the conversion into chemicals? Which substrates are more appropriate to be transformed? How to utilize the vast modelling capacities in the design of processes? How to purify the final products?

STRUCTURE

The symposium is structured in 4 sessions, each starting with a guest speaker and 2-3 short presentations to be selected from the abstracts call. The selection will be based not only on the abstract quality but also attempting to display a full picture of the state of art and possible alternatives to move forward

The symposium is conceived with a limited number of delegates (approx. 50) to ensure smooth debate and discussions during the sessions and breaks. All the sessions count with time for debate and exchange in a friendly environment.

TOPICS

The topics of interest include biotechnologies for the production of volatile fatty acids and other platform chemicals; downstream processing highlighting separation and purification technologies; modelling tools; microbiology and economic viability studies.

DATES

10 FEBRUARY - 20 MARCH
EXTENDED DEADLINE FOR
ABSTRACT SUBMISSION

3 APRIL
CONFIRMATION OF ACCEPTANCE

13 APRIL - 15 MAY
INSCRIPTIONS

FEES

SENIOR 120€
PHD CANDIDATE/STUDENT 60€

CONTACT

ADMINISTRATIVE INQUIRIES
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PROGRAM/SCIENTIFIC INQUIRIES
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TENTATIVE SCIENTIFIC PROGRAM

Thursday 28 May, morning

09:00 Welcome to the participants

09:15 Keynote: **Jean-Philippe Steyer**

Session 1. Technological alternatives for the biological conversion of residues

09:45 Keynote. **Korneel Rabaey**

10:15 Short presentations

10:45 Debate

11:00 Coffee break

Session 2. Separation and purification challenges

11:30 Keynote. **Ludwig Selder**

12:00 Short presentations

12:30 Debate

13:00 Group picture and lunch

Thursday 28 May, afternoon

Session 3. Bioprocess design strategies

14:30 Keynote. **Miguel Mauricio-Iglesias**

14:50 Keynote. **Jaana Uusitalo**

15:10 Short presentations

15:40 Debate

Session 4. Economic feasibility and scale-up opportunities

16:00 Keynote. **Alberto Sánchez**

16:30 Short presentations

17:00 Debate

Final conclusions and Farewell

ABSTRACT SUBMISSION

The short presentations (10 min) will be selected out of the submitted abstracts which must be written in English with a maximum extension of 1 page and sent by email with the subject "Symposium BIOCHEM Abstract" to rosamaria.arcos@usc.es before 20 March 2020, the extended and final deadline for abstract submission.

LOCATION



UNIVERSIDADE DE SANTIAGO DE COMPOSTELA

Santiago de Compostela, SPAIN

COMMITTEES

ORGANISING COMMITTEE

Marta Carballa - Chair

Juan M. Lema - Co-chair

Technical Administration

Rosa M^a Arcos

Iria Lema

SCIENTIFIC COMMITTEE

Miguel Mauricio-Iglesias - Chair

Marta Carballa

Juan M. Lema

Korneel Rabaey

Alberto Sánchez

Jean-Philippe Steyer

Jaana Uusitalo