

**Aim of the Congress is stimulating discussions on bridging the gap between Science and Technology in relevant areas of application**

15th - 19th September 2019  
Florence Italy

12th European Congress  
of Chemical Engineering

ECCE 12

5th European Congress  
of Applied Biotechnology

ECAB 5

#### ORGANIZING COMMITTEE

<b>Chair</b>	Giuseppe Ricci	AIDIC President
	Hermann Josef Feise	EFCE President
	Guilherme N.M. Ferreira	ESBES President
	Sauro Pierucci	AIDIC Servizi President
<b>Vice-Chair</b>	Giorgio Veronesi	EFCE Executive Vice-President
	Jarka Glassey	ESBES Executive Vice-President

#### SCIENTIFIC COMMITTEE

<b>Chair</b>	Sauro Pierucci	AIDIC Servizi President
	David Bogle	EFCE Scientific Vice-President
	Alois Jungbauer	ESBES Scientific Vice-President
<b>Vice-Chair</b>	Felix Ochoa Garcia	Chair of WCCE2017/ECCE11 Scientific/Steering Committee
	Jean-Marc Le Lann	Chair of ECCE10 Scientific Committee

Organized by **AIDIC**  
The Italian Association of Chemical Engineering

AIDIC Servizi srl  
Via Giuseppe Colombo 81/a - 20133 Milan Italy  
+39 02 70608276 - ecce12\_ecab5@aidic.it



# BRIDGING SCIENCE WITH TECHNOLOGY

A Renaissance  
in Chemical Engineering

[www.ecce12-ecab5.org](http://www.ecce12-ecab5.org)



# REGULAR TOPICS SESSIONS

## MAIN TOPICS

### ECCE 12

Sustainable processes

Particle technology

Production properties and technology of new materials

Nanotechnology

Separation technology and heat & mass transfer

Thermodynamics and interfacial phenomena

Fluid mechanics and transport phenomena

Multiphase systems

Membrane Engineering: Energy from salinity gradients Hybrid artificial organs

Industrial electrochemistry

Process system engineering

Chemical reaction engineering

Biomass

Food engineering

Energy and chemical engineering

Environment safety & quality

Quality assurance control & management systems

Knowledge education & training

### ECAB 5

Advanced and innovative technology in industrial bio-production, bio-separation and bio-detection (biosensors)

Bioenergy biofuel & renewables bioresources biorefinert and biomaterials (bio-active compounds biofuels fine chemicals)

Biocatalysis (future microbes and enzymes)

Novel processing (e.g. microbial fuel cells) downstream processing

From small to large (nano-biotechnology scale-up/scale down large-scale production)

Systems biotechnology and metabolic engineering

Protein and enzyme stability

Environmental biotechnology

Biofilms in industry and biomedicine

Chemical product design and bioproducts bioeconomy

Bioreactor performance

Downstream processing

Food bioprocessing

Microalge bioengineering

Modelling monitoring measurement & control

Regenerative medicine manufacturing

JANUARY 2019

Call for abstracts deadline

## A new horizon of process technology and industrial biotechnology to develop a sustainable future

### FORMAT

6 Plenary Sessions

12 Parallel Sessions

3 Poster Sessions

6 Symposia

1 Student Session

### SYMPOSIA

Production of Chemicals and Polymers Biomass and Renewables

Energy Conversion Environmental

Protection

Electrochemical and Photochemical Processes

### STUDENT SESSION

Lectures are all presented by students. A contest will take place.

### CONGRESS VENUE

Congress Center **Firenze Fiera**

Piazza Adua 1, Florence - Italy

The conference center is hosted in **Fortezza da Basso**, a Fortress masterpiece of Renaissance Architecture designed by Antonio Sangallo and built in 1534-1536 for Alessandro de' Medici.

**Florence**  
The birthplace  
of Renaissance

