



The new materials, sustainability, security and digitization will be the main topics of the Congress of Applied Chemistry and Industry 4.0

- ChemplastExpo 2018 will turn Madrid into the capital of the sector from November 6 to 8 with leading companies such as Repsol or BASF
- More than 180 international chemistry and plastic experts will share their vision on the present and the future of the sector

Madrid, October 9, 2018.- From November 6 to November 8, Madrid will host **ChemPlastExpo 2018, the largest gathering of professionals in the chemical and plastics industry**. During this meeting, the Congress of Applied Chemistry and Industry 4.0 will be held, of which the first details have already been announced.

The chemical industry is the fastest growing sector on a global scale. The chemical sector accumulates 25% of the investments that the Spanish industry uses for innovation and employs 21% of the research staff working in industrial companies. The **Congress of Applied Chemistry and Industry 4.0** presents a program that places it **as the largest congress of reference in Spain** and the ChemplastExpo 2018 as a meeting point of experience and high level knowledge of both sectors, that of plastics and chemistry.

Experts like **Michael Renz, ITQ and CSIC**, professional specialized in the use of wet residual biomass and its transformation into commercial products, will be in charge of the inaugural Super Session that will focus on the evolution towards a model based on the bioeconomy and how to connect chains of value in the circular bioeconomy. Experts like him will be responsible for bringing these issues to Congress.

Industry 4.0 will also be one of the central themes during the three days that lasts the event. **Javier García**, Professor of Inorganic Chemistry and Director of the Molecular Nanotechnology Laboratory of the University of Alicante (UA), founder of Rive Technology, member of the Council of Emerging Technologies of the World Economic Forum and **elected in 2017 by the Echnology Review magazine of MIT as one of the most innovative young people** of his generation, will deal with this topic together with other experts.

Innovative solutions in wastewater treatment, the use of agricultural waste as new resources for the agrochemical industry, technological innovations in the petrochemical industry or renewable sources will be other of the central keynotes of the Congress.

The **REACH Regulation**, applied since 2008, is considered the most complex legislation in the history of the European Union and the strictest regulating chemical substances in the world. That is why ChemPlast 2018 has reserved a space with M^a **Eugenia Anta, Global Chemical Management Director of FEIQUE**, at the congress to discuss the issue of risk management in the chemical industry and the application of REACH.



Health and chemistry have always gone together, that is why during the congress the application of chemistry in the health and pharmaceutical sector is going to be discussed. Therefore, experts such as **Miguel Ángel Miranda**, Professor in Organic Chemistry from the Universitat Politècnica de València and **director of the Institute of Chemical Technology (ITQ)** or **Blanca Viadel, PhD in Pharmacy with a specialty in Nutrition and Bromatology**, will address topics such as new contributions from chemistry to the health sector or the application of new technologies in the pharmaceutical industry and the use of new in vitro models for preclinical studies improving the functionality of medicines.

During the Congress of Applied Chemistry and Industry 4.0 there will also be addressed **new models of Bioeconomy, the success cases of biorefineries, the economic and sustainable applications of biomass, or the contribution of microalgae to different industrial sectors**. To address this issue, among others, the congress will include the participation of **Mercedes Ballesteros, responsible for the CIEMAT's Renewable Energy Division**, who will focus on biorefineries and their development towards the application of economic and sustainable biomass.

"The chemical industry is facing a future full of new challenges to which it must respond in the short-medium term. The first of these is that of **sustainability and the circular economy**, which is also one of Europe's priorities for generating growth and employment. Chemistry should contribute to global solutions to problems related to energy and climate change, water and food, as well as health and the maintenance of natural resources and protection of the environment" explains **José García Reverter**, Program Director of the Congress of Applied Chemistry and Industry 4.0 and of the European Congress of Plastic Engineering.

For both professionals of large corporations and for those of small businesses, the Congress of Applied Chemistry and Industry 4.0 is the most innovative meeting to exchange knowledge, experiences and success stories, and acquire the skills and strategic vision to promote the chemical sector to a new scale of competitiveness.

ChemPlastExpo will take place from November 6 to 8, 2018 at IFEMA, Madrid, and besides being the benchmark for innovation in the chemistry and plastics sector, it also has the most advanced congress in applied chemistry and Industry 4.0, connected and digital, become the largest European meeting point to discuss innovation, new materials, sustainability and trends.

Consult the full agenda of the Applied Chemistry and Industry 4.0 Congress here:

<https://www.chemplastexpo.com/en/congress/congress-chemistry/>