

Foreward

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Human kind is living in a particular time of history with a rapid technology evolution. It is enough to compare the access to information and devices between a child, his father and his grandfather.

The close relationship between materials and energy concepts reveals the power that can change personal habits, societal behavior and human balance. The permanent loop of energy /materials interaction exerts influences on all civilizations and at all scales.

The manifestation of this essential link in every great work is largely based on scientific ideas and technological implementation of principals of nature understanding and mastering since antiquity with water and fire, until our days with mastring of nuclear power and its material support. In ancient times, regardless of Babylonian, Greek, Persian, philosophers from the Qin dynasty of China have contributed significantly to the prosperity of science such as mathematics ‘jiǔzhāng suànshù’ or technics (i.e., Zhang Heng).

The power of mathematics and its universality as well as the mutual influence with the other sciences are and will remain the foundation of scientific works. It is also the hope of tomorrow to overcome the progress which stop as consequence of resources lack.

This could be the responsibility of scientists from different countries, with different languages, from various disciplines or schools of thought. To secure the continuity of the progress, their exchange, their encounters, their ethics and independence from the benefit of progress for human society are all necessary.

The meetings ICOME (International Conference of Materials and Energy) are within this objective and seeking a share of the latest scientific advances. It aims to meet ongoing initiatives and be an amplifier for young researchers, first by the recognition and the realization of the importance of the basic foundation, then by training which has its place in this event.

ICOME 17 hosts also a highlighting symposium in porous media (ICAPM), which is dedicated to advances on this field and especially on the computational solutions. So many initiatives to ensure that for the pyramid of knowledge to making big sense in the way of knowledge, which has enabled man to save his spirit and accelerate its progress. The scientist in his quest for truth is accompanied by ethics, acceptance of difference in points of view, the socio-economic cost and innovation constraints.

In this sense, the conference award, is related to Averroes universal thought and is dedicated to reinforce this vision of a man who puts the truth beyond beliefs and allegiances of its time, the intelligence beyond the interest of the use: “ it is quite adequate for common design practice; it should be the food of the people; however it is insufficient, to the intelligence.” (Averroes).

The 2016 edition took place in the City Atlantic la Rochelle succeeding to 2015 edition that took place in the Mediterranean city of Tetouan. It was dedicated to two key aspects, materials & energy, for the control of the environmental impacts of the activities related to transport and habitation. Indeed, eco-materials and sustainable construction have been a key topic in view of the current and future issues of the energy transition and sustainable development. This 2017 edition has made the choice to meet the Euro-Mediterranean and Chinese cultures. These two cultures who have given so much contributions to humanity in materials management and an efficient use of energy.

It is held in Tianjin city, a port of trade since old times and one of the major centers of development of the aerospace industry in China. It is a symbol of continuity with the Mediterranean (Tétouan 2015) and the Atlantic (La Rochelle 2016) editions.

This conference will allow scientists and industrialists captains to shed the light, not only on the links between the energy issues and those dedicated to materials, but

also to take stock of the latest scientific, technological and industrial advances. ICOME 17 brings together more than 250 participants from different institutions, Chinese, French and international (European, American, Asian and African) as well as several industrial partners very sensitive to the issues of innovation to improve their competitiveness.

The chairs and members of the Organizing Committee of the ICOME 17 wish all present an excellent stay in Tianjin, fruitful exchanges and everyone finds what he expects of this edition.

ICOME'17 Chairs

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