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Human kind is living in a particular time of history with a quick 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 principles of nature understanding and mastering since antiquity with water and fire, until our days with mastering of nuclear power and its material support.

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 The presidents of ICOME and the members of the organizing committee of ICOME 19 are looking forward to fruitful exchanges, and hope that everyone has found what they expected from this edition. disciplines or schools of thought. To secure the continuity of the progress, their exchange, encounters, ethics and independence from the benefit of progress for human society are all necessary.

The ICOME meetings (*International Conference on Materials and Energy*) are within this objective and seeking a share of the latest scientific advances. Its 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 19 hosts also a highlighting symposium in porous media, which is dedicated to advances in 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 his progress. The scientist in his quest for truth is accompanied by ethics, acceptance of difference in points of view, socio-economic cost and innovation constraints.

In this sense, the conference Award is related to Averroes universal thought. The latter is dedicated to reinforce this vision of a man who puts the truth beyond beliefs and allegiances of its time, and 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).

ICOME editions have travelled around coastal cities and major basins of civilization over the years. A bit like the Mediterranean city of Tetouan (Morocco) in 2015, the City Atlantic la Rochelle (French) in 2016, the major centers of development of aerospace industry Tianjin (China) in 2017, and the Spanish Basque coast San-Sebastian (Spain) in 2018.

These editions have been dedicated to two main aspects, Materials & Energy, for the control of the environmental impacts of 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 2019 edition has made the choice to meet the Euro and Mediterranean cultures. These two cultures that have given so much contributions to humanity in materials management and an efficient use of energy.

ICOME 19 is held in Hammamet city, a port of trade since old times and one of the major centers of development of the industry in Tunisia. It is a symbol of continuity with Mediterranean (Tétouan 2015) and Atlantic (La Rochelle 2016, San-Sebastian 2018) editions.

This conference allowed scientists and industrialist 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 19 brought together more than 250 participants from different institutions and international (European, American, Asian and African), alongside numerous industrial partners; whom are highly sensitive to innovation challenges in order to improve their competitiveness.

ICOME Chairs and Organizing Committee Members of ICOME 19 wish all present fruitful exchanges, and everyone finds what he expects from this edition.

ICOME Chairs

Prof. M. EL GANAOU

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