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International Meeting on Applied Sciences and Engineering

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Preface: International Meeting on Applied Sciences and Engineering (EISI)

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The goal aim objective of the 4th International Meeting on Applied Sciences and Engineering (EISI), is to promote a space for the exchange of knowledge between the academy and the industrial sector of the department of Norte de Santander, Colombia. The assistance of scientific experts in science, engineering, technological development, and innovation allowed generating knowledge and solutions that impacted the socio-economic development of the region and the country.

Traditionally there has been a separation between the academy and the real needs of industries. One possible reason was that researchers in the academic world, even if they had all knowledge, had limited access to industrial requirements and applications. On the other hand, have been very difficult for them to replicate and experiment with all kinds of technical and non-technical problems that occur in a real production environment. Notwithstanding, the EISI international meeting has allowed closing this gap between the academy and the industry, by mean of shared knowledge and scientific divulgation, specifically in the areas of sciences and engineering.

Since 2012, the International Meeting on Applied Sciences and Engineering (EISI) has been held, with a biannual frequency, managing to integrate students, professors, researchers and entrepreneur from countries such as Mexico, Costa Rica, USA, Colombia, Spain, Uruguay, Chile, Venezuela, among others. The EISI International Meeting, from the first version, has been had the purpose of promoting the dissemination of the advances and results of research, technological development and innovation, obtained from areas of science and engineering, that allows strengthening the academic programs and contributes at the integral development of the students and future professionals.

The fourth version of the International Meeting on Applied Sciences and Engineering (EISI), was commemorated from 3-7 September 2018, in the San José of Cúcuta city, Colombia. The EISI, sought to integrate the business sector with the higher education institutions national and international, through successful experiences show by each one of the participants that tended to around the topics on: Education in Science and Engineering, Projects in Science and



Engineering, Innovation and Competitiveness in Science and Engineering, Technological Developments in Science and Engineering, Networks Communications and Industries 4.0. These themes allowed generating impact and significant benefits to society, by mean of the transfer of scientific and technological knowledge, the validation and generation of innovative ideas, and the university-industry interaction. Hence benefited participating institutions according to the needs of the industry.

Accordingly, a total of 11 Magisterial Conferences were presented by professors (Madrid, Spain), Universidad de las Californias Internacional (Tijuana, México), Universidad Andrés Bello (Santiago, Chile), 4 KnowMad Consulting, Universidad Nacional Autónoma de México (Ciudad de México- México), Universidad Nacional Experimental del Táchira (San Cristóbal, Venezuela), Pontificia Universidad Javeriana (Bogotá, Colombia), Universidad EAN (Bogotá, Colombia), Universidad Nacional de Colombia (Bogotá, Colombia). Besides, 83 research papers were presented as Oral or Poster by undergraduate and graduate students, professors and researchers from different cities of Colombia.

According to what the above, the knowledge network in the science and engineering sector, moreover a university-industry discussion space was created, that allowed proposing future actions for the strengthening of the academy and research of the universities. Based on these discussions, new research, innovation and entrepreneurship projects can be introduced to improve the competitive advantages of companies, generate employment and well-being for our society.

On behalf of the organizing committee of the fourth edition of the International Meeting on Applied Sciences and Engineering (EISI), we are very grateful with all the authors and participants for their valuable contributions. As well as to the reviewers for their recommendations and criticisms constructive, which helped to improve the presentation of the articles.

The editors hope that those interested in the area of science and engineering can enjoy this reading, which reflects a wide variety of current issues.

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