The objective of the XV Applied Mathematics Meeting and XII Statistics Meeting was to promote a space for the exchange of knowledge between the academic and industrial sectors and physics; this event is a space to promote reflection and debate on mathematics, statistics, its history, evolution, didactics and application in physics and other sciences. In this meeting, researchers and teachers of mathematics interacted, socialized research results, consolidated networks for the exchange of ideas and successful experiences; moreover, these spaces allowed the strengthening of mathematics and statistics as a science. This science with its pedagogical principles promoted innovation and encouraged the creation of other learning scenarios; these scenarios are oriented to the application of mathematics in various areas of knowledge and to encourage students' interest in research in these sciences.

In 2019, the meeting will take place within the framework of the First International Biennial of Mathematics, Architecture and Applied Biology that seeks to establish a link between the different areas of science and the arts; this link served to create and maintain a space that privileges reflection and debate on mathematics, architecture, statistics, its history, evolution, didactics, and application. This academic space had been maintained, so in the second semester of 2019, the 15th summit of applied mathematics and the 12th summit of statistics was held, with the active participation of professors, students, and professionals from different universities. The attendance of scientists who are experts in science, education, engineering, technological development, and innovation allowed the generation of knowledge and solutions that impacted the socioeconomic development of the region and the country.

Traditionally there has been a separation between university and engineering applications; one possible reason was that researchers, despite having all the knowledge, had limited access to industrial requirements and applications. They also had limited access to the development of mathematical models to explain physical, industrial, and engineering phenomena; during the Summit, the researchers carried out activities such as keynote speeches, short lectures, poster presentations. Poetry, music, art, design, ingenuity, and prototyping marked the production of innovation during the event; spaces are generated to support social organizations of children with cancer, as well as activities to promote the environment around the recycling and processing of plastic, paper, medicines with the 7R recycling and Blue Point programs; these activities allowed the social projection of the organizing universities and their academic community.

Since 2009, there have been annual Applied Mathematics Meeting and Statistics Meeting; these meetings have integrated students, teachers, researchers and businessmen from countries such as Belgium, Argentina, Mexico, Ecuador, Chile, Costa Rica, Colombia, Spain, Venezuela, Italy, Brazil,
among others. The Applied Mathematics Meeting and Statistics Meeting, since its first version, has the purpose of promoting the dissemination of the advances and results of research, technological development and innovation, obtained from the areas of science, in special the mathematics, statistics, mathematical education, and engineering; this activity is done to strengthen academic programs and contribute to the integral development of students and future professionals. The researchers participating in the meeting affirmed that the generation of knowledge is part of the way of understanding the world; taking into account the logic that is always understood from the author's perspective, from his point of view and the current generation. In education, research showed the dissemination of knowledge that explained the phenomena of human behavior through the popularization of science; this scientific popularization modified the way of behaving so that the academic work disseminated contrasted the practice and the reality that one wished to modify.

The fifteenth version of the Applied Mathematics Meeting and twelfth version Statistics Meeting was held from 28 to 30 November 2019, in the city of San José de Cúcuta, Colombia. The XV Applied Mathematics Meeting and XII Statistics Meeting sought to integrate the sector of higher education institutions with basic and secondary education institutions; this integration was carried out through successful experiences shown by each of the participants around the topics on Science and Engineering Education, Science Projects, Scientific Computing, Mathematical Modelling, Mathematics, and Physics applied to Medicine, Education and Communication, Development and Earth Sciences, Statistics in Research, Mathematics.

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Invited Speakers

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- Martijn Oldenhof
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