

**T**his special edition of Tecnura magazine is dedicated to the 18th Tech Week of Technology Faculty of District Francisco José de Caldas University, which took place between 7 and 11 October of 2013. It contains articles from main dissertations presented during the 2<sup>nd</sup> Congress of Research and conferences presented in Tech Week. The Organization of this second Congress of research was in charge of Investigations Unit and had the unconditional support of Deanship of Technology Faculty and the Centre for Research and Scientific Development – CIDC (acronym in Spanish).

The Congress received 24 papers developed mainly by teachers and students of Technology Faculty, teachers and students from other faculties of the University and from some institutions. Importantly the high level of the dissertations presented and their technological application that reflects the work of the different research groups of the Faculty.

According to the editorial process, all papers from the presentations and lectures that were presented were submitted to external peers evaluation and although some researchers presented more than one job as a presentation, in this Special Edition there was limited to one article by author, in order to publish as many authors.

We selected 13 documents for this edition, according to the reviewers score and recommendations. Works selected cover different research areas such as automation, materials use, energy efficiency, housing, transportation, electronics, energy power, software, biomedical and hydraulic engineering mainly.

Participation was over four hundred registered attendees. We want to give a special recognition to all of them, the Research Committee members, and the Organizing Committee of Tech Week, teachers, researchers and lecturers who participated.

**César Augusto García Ubaque**  
Director