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WORK PROGRAM PROPOSAL 22-24

CAMPAIGN FOR THE VICE PRESIDENCY OF THE ACADEMY OF ENGINEERING

May 10th, 2022

The world is increasingly living at an accelerated pace. Phenomena are sometimes for and sometimes against humanity. Mexico is no exception, as the country is undergoing dizzying and unforeseen changes that directly affect society, professional activities, and the future of economic development; the Academy must be present in this dynamic and influence towards positive directions.

With this in mind, I propose to attend to immediate tasks on two fronts: academic activities abroad and attention to internal competitions.

ACADEMIC ACTIVITIES ABROAD

CONGRESS

The biannual Congress is to be held this year. The theme I propose is: **The major world trends in engineering specialties and how to achieve them**, in consideration of the aforementioned.

The particularity in this Congress is that the main actors are the presidents of the commissions and the coordinators of the multidisciplinary programs, with the participation of commentators of international prestige for the enrichment of this theme.

This presupposes previous work by the academic groups of our organization.

WORK OF THE COMMISSIONS AND PROGRAMS

As far as possible, it will be sought that the work of the Commissions and Programs be oriented to the solution of specific problems and with this, seek additional income for the Academy. The orientation presupposes having the necessary regulations for the execution and supervision of contracts and/or the execution of agreements that formalize the relations between the parties. These projects should be of academic interest and may eventually involve external researchers and/or experts.

Project management requires promotion and dedication of academics; the Academy must recognize the effort in these contributions.

ACADEMY'S PERFORMANCE IN THE SOCIO-TECHNICAL PROBLEMS OF ENGINEERING.

It will be oriented to influence legal ordinances that facilitate, stimulate and result in a greater benefit for the economic development of the country. This work would not be limited to cabinet contributions, but would include initiatives and more direct efforts in decision-making bodies such as the legislative congresses and decision-making bodies or agencies.

Some of these legal instruments are: the Law of Public Works and Related Services, the Law of Leases, Acquisitions and Services of the Public Sector, the Law of Science and Technology, which has not yet been approved, the Mining Law, recently with initiatives of change, as well as all regulations that affect the professional life of engineers and the economic and social improvement of the country.

CONFERENCES

It is proposed to continue with the Tuesday conferences, opening them to non-academic engineers who have successful experiences and who use the academy as a platform to disseminate them.

Likewise, in an equivalent forum and with less frequency, to make room for the expression of young people with topics in which successful experiences and specific proposals for change directed to the teaching or practice of engineering can be heard.

YOUTH PARTICIPATION

The participation of young people is required to strengthen the capacities of realization, as I have already proposed, we will have to have initiatives before the universities and technological institutes so that their work is considered in the Academy.

PUBLICATIONS

As a result of the fulfillment of the work program, the Academy's collection of documents and publications will increase.

The proposed program looks simple, but requires time, dedication and participation. It will be feasible to achieve with the participation of all and the encouragement that the Academy recognizes to those who participate.

ACTIVITIES FOR THE IMPROVEMENT OF INTERNAL COMPETENCIES.

In the recent life of the Academy, measures have been taken to improve efficiency in the fulfillment of its statutory objectives, such as the reduction of the bylaws to provide greater agility in decisions; there are several areas and problems that need to be addressed with priority related to internal order and procedures, giving emphasis to the attention of some of them, such as the following:

Resources. - We need income, we need to organize and organize ourselves for this purpose. We no longer depend on official support and the lack of resources restricts our tasks and destabilizes the life of the Academy.

Patrimony. - The statute establishes a Board of Trustees, but it is necessary to integrate it and to have the resources to give the Academy an independent life. There would be no better inheritance than to have a stabilizing fund; we are facing this challenge.

Order. - Order means to regulate procedures in a simple but indispensable manner. The provisions eliminated when simplifying our bylaws have yet to be integrated into the regulations and it is necessary to complement matters that have not been regulated, such as Planning, programming and budgeting; those related to the presentation of financial information; in perfecting and simplifying electoral processes; in the contracting of external services and others. It is also necessary to integrate the regulations into a single homologated, consistent and easily accessible expression in thematic chapters.

Digital Portal. - Several efforts have been made in our portal and we must continue working on it in order to have a powerful means of dissemination, identity and communication among academics. Document their profiles and experiences so that they can be invited to specialized works and be used as a means of exchange and professional dialogue.

Professional openness. - Open the doors to Engineering. There are experiences of NO academics that deserve to be disseminated and taken advantage of in a dynamic of greater openness, and the same happens with young people, we need them for the work in the Academy so we must facilitate and agree their access with the different educational institutions that are identified as convenient.

Specialties and multidisciplinary programs. - Specialties and multidisciplinary programs that are identified with national priorities such as Agricultural Engineering and Security, which includes physical security, civil protection, occupational health and safety, environmental, public safety and others, are some topics that can undoubtedly provide important and innovative technologies that affect sustainable public life. On the other hand, it will be necessary to integrate new specialties such as aerospace, which is a detonator of innovation and spillover to industry, and to bring together other activities today in specialties and multidisciplinary programs.

Integration and National Representation. - Sanitary isolation and technological solutions in telecommunications show us the way to integrate and create a presence in the federal entities, with formal representations and freedom of action that are born with a specific purpose. How much have we lost for lack of this presence? Let's recover this sea of opportunities.

Internal collaboration. - We have all entered the Academy for professional merits external to the Academy, and we are recognized, but in order to activate the participation of the academics, the internal work must be recognized. It is necessary to value the time, dedication and commitment of our members in the tasks of the Academy. This recognition has been attempted, but has not been given; there is a way to do it because those who give part of their lives in favor of the Academy deserve to be honorary Academicians. This is how I propose to establish it.

Influencing public decisions. - Participating in public solutions requires establishing channels of communication with decision-making bodies such as legislative congresses, governments and private organizations. Active representation can strengthen these links to bring us closer to achieving our objectives.

These are some of the issues to be improved without neglecting the scientific and technological aspects, as well as the daily activities. I am convinced that these are some of the definitions required to make the Academy a stronger institution and an example of order and innovation.

I invite all members of the Academy to contribute with ideas, working on a plane of shared intelligence.

I know what it means in time, perseverance, effort and collaboration to allow us to reengineer our own tasks in order to bring more order to our house.

Reflect, if this is necessary, that is my flag, that is my commitment if I become Vice President. Nothing would honor me more than to work with and for you and especially for Dr. Monica Barrera Rivera who will be the first woman president in our history.

For the greatness of the Academy, let the Academy decide.