

Special Issue: 100 years of Chemical Engineering in Mexico

This Special Issue (SI) of *The Canadian Journal of Chemical Engineering* is devoted to the celebration of 100 years of teaching of Chemical Engineering (Chem. Eng.) courses at the National Autonomous University of Mexico (UNAM), which in fact represents the start of formal teaching and academic research in this field, in Mexico.

In 1925, Prof. Estanislao Ramírez-Ruiz joined the National School of Chemical Sciences and Pharmacy (ENCQF), nowadays Faculty of Chemistry (FQ), of the National University of Mexico, now UNAM, and initiated the teaching of chemical engineering courses focused on unit operations. Since then, the teaching, research and industrial practice of Chem. Eng. has expanded vigorously in Mexico. While Chem. Eng. at FQ-UNAM was rapidly consolidated, other important academic institutions, such as the National Polytechnique Institute (IPN) and its National School of Chemical Engineering and Extractive Industries (ESIQIE), emerged and grew. Starting in 1938 with the founding of the company Petróleos Mexicanos (PEMEX) and the need to develop the chemical and processing industries, Chem. Eng. started growing and consolidated in Mexico. Without a doubt, Chem. Eng. has allowed Mexico to achieve high levels of development and better living standards for its society, and this must be commemorated. In the second half of the twentieth century, other important institutions emerged and reached consolidated status. Some of such institutions include the Mexican Petroleum Institute (IMP), the Metropolitan Autonomous University (UAM), Veracruzana University (UV), Ibero-American University (UIA), Guadalajara University (UG), Autonomous University of Guadalajara (UAG), La Salle University, Celaya Technological Institute (ITC), Monterrey Institute of Technology and Higher Education (ITESM), among others.

Topics for this SI include but are not limited to:

- a) Research in frontier topics of Chem. Eng. (e.g., energy; petrochemical and biochemical processes; materials and biomaterials; process or product design, simulation, control, optimization, or intensification; sustainability, etc.) carried out at research groups in Mexico, or at international research groups with the participation of one or more Mexican coauthors.
- b) Research related to industrial processes based in Mexico, or with Mexican participation, with a Chem. Eng. perspective.
- c) State of the art or perspectives about industrial processes in Mexico.
- d) Research by authors from international groups with strong academic or industrial ties with Mexico.
- e) Perspective papers on the teaching or future trends of Chem. Eng.
- f) Overview, perspective or opinion papers from leaders of strong Chem. Eng. research groups or institutions in Mexico.

Submissions are open from February 15 to September 30, 2025.

Guest Editor(s)

Dr. Eduardo Vivaldo-Lima, Associate Editor of CJCE, proposed this special issue. Drs. J. Fernando Barragán-Aroche and Simón López-Ramírez, international advisory board members, helped him to prepare the proposal, with feedback and approval from Dr. Joao B.P. Soares, Editor in Chief of CJCE.

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