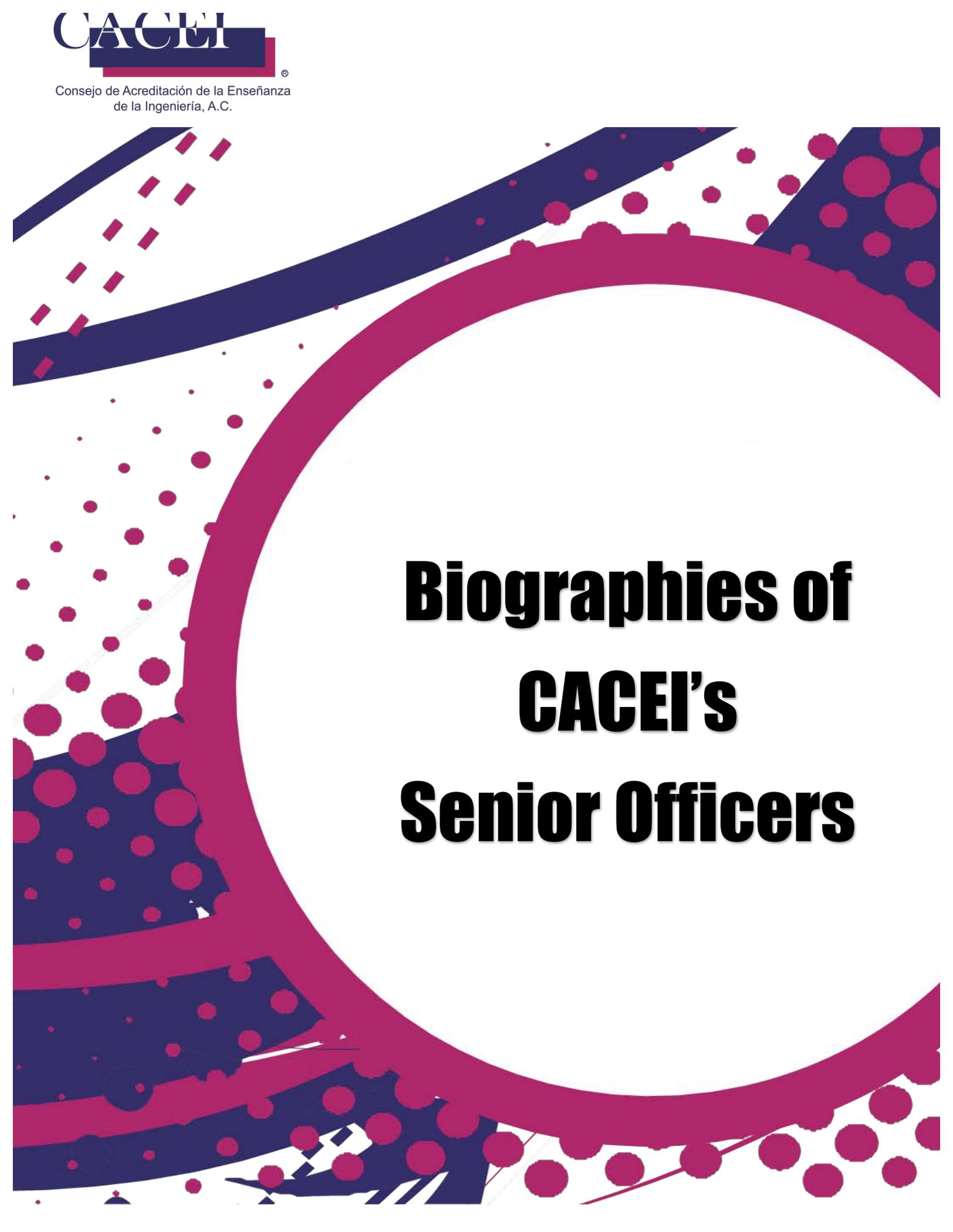


**CACEI**

Consejo de Acreditación de la Enseñanza  
de la Ingeniería, A.C.



# **Biographies of CACEI's Senior Officers**

**Maria Elena Barrera**



Since 2017 has been the General Director of CACEI, and has been recently reelected for the of the 2018-2021 period. She is also President of the Lima Accord (2017-2018), signed by accrediting agencies in Latin America for the mutual recognition and the promotion of best practices in the evaluation of educational programs.

She graduated as Chemical engineer and holds an M.S. degree in Higher Education with a specialty in management of institutions and curriculum design, both by the Autonomous University of Yucatán (UADY). She also has a Specialization in teaching, from UADY, and another one in the Management of institutions of higher education by the National Institute of public administration, A. C. (INAP), and the National Association of universities and institutions of higher education (ANUIES). She is certified as Accreditation processes Coordinator, by the Union of Universities of Latin America and the Caribbean (UDUAL).

At UADY served in several positions including: Head of undergraduate and high school departments, Support for postgraduate and research, Support for teaching and educational innovation; Deputy Director of research and higher education; Deputy Director of innovation and educational administration; and Dean at the School of Education.

At the National Center for the Evaluation of Higher Education (CENEVAL) served as Director of the EGEL in social sciences and humanities; Director of institutional affairs.

She has been appointed as Coordinator of the Working Group of "Evaluation and accreditation of the program's education" of the Commission's coordination of the agencies of evaluation of the education Superior (COCOEES). She has also been Coordinator of the policy-making group for the design of the training of Directors of Higher Education, and Coordinator of the Working Group "Model of education of engineers" of the Technical Advisory Commission of Engineering at the General Directorate of Professions of the Ministry of Education. She is currently coordinating the Working Group "recognition of knowledge acquired" of the Technical Advisory Committee of Engineering at SEP.

She was Founder and President of the National Association of Schools of Education and Pedagogy, A. C. (ANEFEP).

She is the author of 10 articles in journals, ten books and nine chapters of books in several languages; and has given more than 220 speech in several countries.

She has supervised eight Bachelor thesis and 43 Master thesis. She has been responsible for the design of more than 20 undergraduate and graduates educational programs; as well as more than 100 teaching materials.

She is a member of the Commission for coordination of the assessment of higher education (COCOEES), and the Committee on institutional management of the inter-institutional committees for the evaluation of higher education, A. C., (CIEES). And the Technical commissions of the EXANI; the Technical Advisory Committee of Engineering at the General Directorate of Professions and the Commission's training and management of the knowledge of the Alliance FiiDEM.

Distinguished engineer awarded by the institutions of higher education in the State of Veracruz, July 2014.

She was distinguished by the city of Veracruz, July 2015, in December 2017 she received the Doctorate Honoris Causa by the Tecnológico de Estudios Superiores de Ecatepec.

## **José Humberto Loría-Arcila**



Dr. Jose Loria is currently the Director of International Affairs at CACEI. After completing his term as Dean of the School of Engineering at the Universidad Autónoma de Yucatán (UADY), in June 2015, he was invited by the General Director of CACEI. He is appointed by UADY to hold that position. He also serves as an advisor to the Council for the Accreditation of Higher Education A.C. (COPAES), the regulatory organization of accrediting agencies in Mexico; he is the Technical Coordinator of the project for restructuring COPAES' General Framework (Accreditation Criteria) according to international standards.

Dr. Loria received his B.S. degree in Civil Engineering from UADY. He also holds an Especialization in Urban Construction from the Universidad Nacional Autónoma de México (UNAM), a Master of Engineering degree from MIT, and a Ph.D. from Georgia Tech, these last two in the field of Construction Engineering and Management.

He has been immersed in academic duties since 1975 at Universidad Autónoma de Yucatán, first lecturing undergraduate courses in the Civil Engineering Program, and then designing, developing and then coordinating the Construction Engineering and Management Graduate Program during 12 years. In 1999 was appointed as Assistant Dean at the School of Engineering, administrating and managing four undergraduate programs: Civil Engineering, Physics Engineering, Mechatronics and Renewable Energies. In 2007 Dr. Loria was appointed Dean of the School of Engineering, a position he served during eight years. He has also served as visiting professor at several institutions, both in Mexico and abroad, primarily to teach construction-related graduate courses.

His professional experience includes several engineering and management positions in the private and public sectors. He co-owned a medium-sized construction company involved in housing construction. He served five years at the Boston Housing Authority, as MIS Specialist, Senior Facilities Planner, and Senior Construction Project Manager. He participated in the decision-making process of all phases of a 150 million U.S. dollars affordable housing complex in Yucatan. He is an active member of the Academy of Engineering, the Civil Engineering Yucatecan Chapter, The Federation of Civil Engineers in Mexico, The National Federation of Schools of Engineering, and the North American Alliance for Civil Engineering. He was appointed by the Mexican government for the OECD's project "Assessment of Higher Education Learning Outcomes" (AHELO), for the civil engineering strand. He served as co-National Project Manager and Leader Evaluator during five years in this project.

He has participated as principal investigator in several applied research projects, funded by either CONACyT (Mexican National Council of Science and Technology) or by construction industry firms. He has guided A Ph.D. dissertation, 20 Masters' thesis, and 33 undergraduate thesis and monographs. His current areas of interest include construction innovation, lean construction, sustainability, and construction productivity, primarily focused on affordable housing.

In June 2005 he received the "Academic Merit Recognition" awarded by the National Association of Colleges and Schools of Engineering (ANFEI), "for the high quality of their performance in training Mexican engineers." That year was also granted the "State Engineering Award," granted by the Yucatecan Chapter of Civil Engineers because of his brilliant academic and professional career. In March 2016 he received the "Mariano Hernández Barrenechea Award" granted by the Mexican Chapter of Civil Engineers (CICM) because of his outstanding teaching career. He is the only engineer outside the metropolitan area of Mexico City that has been granted that award. In July 2016 was recognized as "Distinguished Engineer" by the State of Veracruz and the Universidad Veracruzana for his contributions to enhancing the practice and development of engineering in Mexico.

## **Mario Enríquez**



He is currently the Academic Director of CACEI and evaluator of the Program to Enhance Educational Quality (Programa de Fortalecimiento de Calidad Educativa, PFCE) of the Ministry of Education (Secretaría de Educación Pública – SEP).

He has an Industrial Engineer degree from the Instituto Tecnológico de Mérida. He has taken several courses related to different aspects of Industrial Engineering focused to business and leadership.

He has extensive experience in the commercial area of firms such as General Motors and Honda automotive industry and in the Organization of teams, focusing on processes and outcomes.

At CACEI has participated in the design and implementation of computer systems for the evaluation of educational programs, has participated in numerous training workshops for higher education institutions in the process of accreditation. He has also been instructor of workshops for the training of evaluators.

He is a member of the academic group responsible for the design and preparation of CACEI's Reference Framework 2018 (MR-2018) for the accreditation of engineering undergraduate programs.



## **José Francisco Granados**

José Francisco Granados is currently CACEI's Administrative Director. He served as Director of internal audits for the Commission of Operations and Promotion of Academic Activities (COFAA) at the National Polytechnic Institute (IPN). He also served as Director of internal audits at the National College of Technical Occupational Education (CONALEP).

He served as an internal auditor at CONASUPO's industrialized milk department (LICONSA). At the Ministry of Education, he served as Under Secretary of financial resources, materials, and services of the Internal Control Department (OIC). He was also General Accountant at American Home Products of Mexico. He served as Sales Administrative Manager at Seguros Monterrey New York Life, and even as Deputy Director of financial resources financial at Corredor Insurgentes, S.A. (CISA).

He participated in the implementation of the Quality Management System, receiving the ISO 9000 certification for Corredor Insurgentes (CISA), firm providing public transportation services.

He served as a project leader at Seguros Monterrey New York Life, developing an accounting system for the control and payment of commissions and awards to actors and promoters in Mexico.

He served as adjunct professor in the areas of General Accounting and Cost Accounting in the College of Commerce and Administration (ESCA) at the National Polytechnic Institute (IPN).

Mr. Granados wrote his thesis professional "The specialization of the public accountant in consulting a tax," receiving its professional degree at the School of Commerce at the National Polytechnic Institute (IPN).



## **José Gabriel Calzada**

### **Technical Director**

José Gabriel Calzada-Hernández is CACEI's current Technical Director. His primary responsibilities are the following:

- Administer the Technical Direction and coordinate, monitor and follow-up the development and implementation of the projects required for:
  - Systems development and statistical information.
  - Information technologies and communications.
  - Dissemination and communication.
- Project leader in the implementation of the Sistema Integral para la Gestión de la Screditación (SIGA - Integrated System for the Management of Accreditation).
- Implementation of the planning methodology in the three areas under his responsibility.
- Testing and implementation of online collaborative tools to automate the collaborative work of three áreas under his responsibility.
- Generation of queries for the analysis of information at the database level in *PostgreSQL*.

Before joining CACEI, he served as Consulting Director at MAGIS IT S de RL de CV, located in Guadalajara, Jalisco. He was in charge of the coordination, monitoring, and following-up of the development, implementation, and completion of the projects required to start the Magis financial System in different locations of the company. He was responsible for the training of all necessary supporting personnel to provide service to customers. He was also a project leader in the achievement of CMMI SVC L3 and TSP/PSP certifications. He was part of the team that defined the methodology of implementation for all IT Magis (MIM) projects.

Previously, he was Systems Manager at Central Furniture; functional consultant and project leader at Edcon Information Technolgy Services; software developer with experience in Oracle database management ® and PL/SQL programming languages.

He is passionate about enjoying time with his family.



## **Ana María Morales**

Ana María Morales Alcázar is currently Director of Planning and Quality Management at the Council of Accreditation of Education in Engineering (CACEI). She has more than 25 years of experience in education, she began in 1991 at the Technological University Subsystem.

She was president of the Technological University of North Aguascalientes (UTNA). She has also served at four technological universities plus UTA, UTSELVA, UTP and UTT occupying several positions: Academic Secretary, Deputy Director of Rectory, Executive Assistant of Rectory, Director of Administration and Finance, Director of Evaluation and Planning and Director of University Extension.

She also served at the Universidad del Valle de México as Director of Academic Quality and as Academic Director; in the latter she coordinated the academic activities at undergraduate and graduate level. She has collaborated with the General Coordination of the “Colegio de Bachilleres” (Technical High Schools), the Council of the National System of Technological Education (COSNET), the Institute of Adult Education (INEA), the Institute of Education of Aguascalientes (IEA) and the National Council of Science and Technology (CONACYT), acting in various positions.

She obtained hr. B.S in Psychology at the National Autonomous University of Mexico (UNAM). She has completed the course work for a master's degree in Gestalt Psychotherapy at the Institute of Psychotherapies Humanists. She graduated in Effectiveness in Management by ICAMI and Transitional Transitional Therapy by the School of Psychology at UNAM. She has been a certified auditor for ISO 9001-2000.

She participated at CACEI updating the Reference Framework for the Accreditation of Educational Programs of Higher University Technicians, version 2015. She collaborated as an evaluator of CACEI in the Superior Technician University (TSU) programs and as a member of the Technical Commission at TSU.

In 1991 she participated in the design and elaboration of the curriculum of the Technological Universities at the beginning of this new Subsystem of Higher Education.

Among her main achievements can be highlighted:

- ✓ Opened the Technological University of North Aguascalientes with three Educational Programs.
- ✓ Certified the Quality Management System of the UTNA under the ISO 9001-2000 and ISO 9001-2008 standards.
- ✓ Recieved the Excellentia State Award in the education sector.
- ✓ Awarded 3rd place in the Vex International Robotics Tournament.
- ✓ Collaborated to obtain the 2013 SEP-ANUT Award in the UTP.
- ✓ Co-produced in the joint creation of the High Level Training Center of the UTP-AUDI Automotive Sector.
- ✓ Internationally accrediting Educational Programs with CACEI and CACECA in various high-level Technological Universities. In the UTT she obtained the simultaneous accreditation of 8 Programs.