

CURRICULUM VITAE

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Nationality: Mexican

Languages: English (100%), Spanish (100%) and French (80%)

Date of Birth: 24 November 1938

STUDIES:

Secondary & Preparatory School: Instituto Patria, México, DF 1951-'55

Bachelor in Engineering Science: Johns Hopkins University, Baltimore, MD, USA 1956-'60 (Civil Engineering)

Master of Science: University of Iowa, Iowa City, IO, USA 1961-'62

Doctorate: University of Iowa, Iowa City, IO, USA 1962-'67 (Solid and Fluid Mechanics)

PROFESIONAL EXPERIENCE & ACTIVITIES:

AUGUST 1965 AUGUST 1979: Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, NL, México

Position: Full Professor, Dept. of Civil Engineering (1965-'71) & Dept. of Thermodynamics, Fluid Mechanics and Control Engineering (1971-'79). Part Time Professor of Fluid Mechanics (1979-'87).

FEBRUARY 1979-AUGUST 1982: Vitro Tec, Monterrey, NL, México

Position: Manager of Professional Training and Scientific Development.

Activities: Implementation of Special Training Program for Experts in Mechanical Engineering Design; Strategic Planning and Development Projects in Glass Containers and Glass Decorating Processes.

AUGUST 1982-AUGUST 1987: Vitro Tec, Monterrey, NL, México

Position: Manager of Strategic Development Projects

Activities: Development and Implementation of Mechanisms and Mechanical Systems for Glass Container Machinery, Mould Cooling and Glass Decorating Systems. Design and Implementation of a Special Training Program for Energy Management. Strategic Management of Technology.

AUGUST 1987-MAY 1991: Vitro Tec, Monterrey, NL, México.

Position: Head, Corporate Technology Development Center

Activities: Strategic Planning and Management of Technology. Corporate Strategic Intelligence. Evaluation of Technical Personnel. .

MAY 1991-JULY 1996: Grupo Vitro, Chemical, Fibers and Mining Division, Monterrey, NL, México

Position: Technology Director

Activities: Strategic Planning and Management of Technology. Strategic Energy and Environmental Policies/Practices. Design and Implementation of Virtual Enabling Technologies. Technology Transfer and Intelligence.

JULY 1996-APRIL 2002: Tecnología Central, Vitro Corporativo SA de CV, Monterrey, NL, México

Position: Expert in the Development of Key Technologies

Activities: Strategic Planning/Project Portfolio Management. Strategic Projects in the Development of Product/Process Technologies for the Glass Industry.

APRIL 2002-OCTOBER 2003: Vitro Europa Ltd, the European Corporate Research and Technological Development Support Centre created in Givisiez, Switzerland, 2002, by Grupo Vitro, Monterrey, NL, Mexico Givisiez, Switzerland

Position: Head of research and Development

Activities: Strategic Planning. Competitive Technology Positioning. Management of Intangible Assets. Networking and Deployment of Research Projects with Swiss Universities and Research Centers.

OCTOBER 2003-PRESENT DAY:

a) Instituto Tecnológico de Monterrey, Monterrey, NL, México

Position: Director, Swiss Office for International Relations

Activities: Exchange Programs, Research Collaborations, Visiting Professors, Networking in Education and Research

b) Cemex Global Research Center AG Brugg, Switzerland

Position: Consultant on Research & University Relations

Activities: Networking with Swiss and European Universities for the Development of Research Projects and Handling of Graduate Student Internships/Master's thesis.

PUBLICATIONS & PATENTS:

Co-Author: Book on New Teaching Methods: Design & Implementation.

12 articles on various topics in Solid and Fluid Mechanics, Education.

US Patent # 4,801,321 Method for the Manufacture of Glass Sheets, Jan '89

US Patent # 6,358,870 Method for Preparing Pre-Reacted Batches of Raw Materials for the Production of Glass Formulas, Nov '00.

US Patent # 0101855A1 Method for Preparing Pre/Reacted Batches of Raw Materials for the Production of Glass Formulas June 2006

25 Technical reports/presentations published within the domain of Technology Management, Strategic Planning, Technology Transfer, Environmental and Energy Strategic Planning, Technology Assessment & New Glass Compositions.