

CURRICULUM VITAE

MEXICAN CLEANER PRODUCTION CENTER

CLEANER PRODUCTION (P+L)

INITIALS IN SPANISH

This is the ongoing application of a Comprehensive Environmental Preventive Strategy for processes, products, and services with the goal of improving ecologic efficiency and reducing the risks to humans and to the environment. P+L can be used in conjunction with:

- **Production Processes:** Saves in raw materials and power, eliminating toxic materials and reducing the amount of toxicity for all emissions and residues from the source.
- **Products:** Reduces negative impacting throughout the product's life cycle starting from its design all the way through to the end product.
- **Services:** Include environmental considerations in the design and delivery of services.

Cleaner Production is changing attitudes, responsibly exercising environmental management and evaluating technological options.

BACKGROUND HISTORY

In 1992, the Earth Summit created the concept of Sustainable Development which defines the environment as a group of common resources whose handling requires modification, creating new social structures, new relative price structures, new markets, new regulatory outlines and public

policies, integrating a group of ideas geared towards facing the challenge of designing a future that is more rational, stable, and equal; meaning, satisfying the needs of today without undermining the ability of future generations to satisfy theirs. As a result, the necessity to take care of the environment as the basis to continue with the growth and development of the world arises. And so today, the Organization of the United Nations for Industrial Development, together with the United Nations Environmental Program, created the National Centers for Cleaner Production, whose functions are to introduce the concept and methodology of Cleaner Production to developing countries.

Since December of 1995 in Mexico, Mexican Cleaner Production Center is instituted, with the goal of acting as the coordinating organism and promoter of adopting clean technologies within the Mexican industrial sector, with headquarters at the National Polytechnic Institute, approved by the University's Consultation Board and by the General Director on the 20th of March 1996.

POLICY OF QUALITY

To provide excellent consulting services, education, and training for human resources that help all sectors prevent and reduce the generation of residues and to make more efficient use of resources, all contributing to the prevention of environmental impact.

We are strongly committed to improving our processes in an ongoing and efficient way, working as a team to meet the customers' requirements and to provide benefits to the community.

MISSION

Aid national industry in improving its productivity and competitiveness. To facilitate access to it by more and new markets by applying the concepts of Cleaner Production and by the use of tools like life-cycle or eco-design evaluations, in addition to promoting the adoption of clean technology and international collaboration.

VISION

Being a leading national organization with international recognition. An organization that satisfies our customers' demands in providing Cleaner Production services and

concepts tailored to other sectors in the country.

GOALS

- To promote and coordinate Cleaner Production policies by implementing preventive environmental strategies.
- To act as a source of information about Cleaner Production.
- To encourage the participation of institutions and people interested in promoting Cleaner Production activities.
- To support research projects focusing on Cleaner Production.
- To educate human resources on Cleaner Production.
- To do Cleaner Production consulting jobs in the production sector.
- To offer lab services to the various industrial sectors.

SERVICES

The services offered by Mexican Cleaner Production Center are:

TECHNICAL ASSISTANCE CONSULTING FOR P+L

- Technical Diagnostics in:
Cleaner Production
Power Efficiency
- Environmental Management
Systems
- "Chemicals Leasing" Business
Model
- Life-Cycle Analysis
- Regulatory Consultation
- Plans for Waste Handling
- Simulation of Processes

COURSES – WORKSHOPS

- Cleaner Production
- Cleaner Production and
Sustainable Consumption
- Training of Consultants
- Energy Efficiency
- Implementation and
Development of an
Environmental Management
System.
- Adequate Waste Handling

DEGREES

- Cleaner Production (Online)
- Ecological Efficiency in
Industry: A Tool in
Sustainable Development.

MASTERS DEGREE

- Engineering in Cleaner
Production

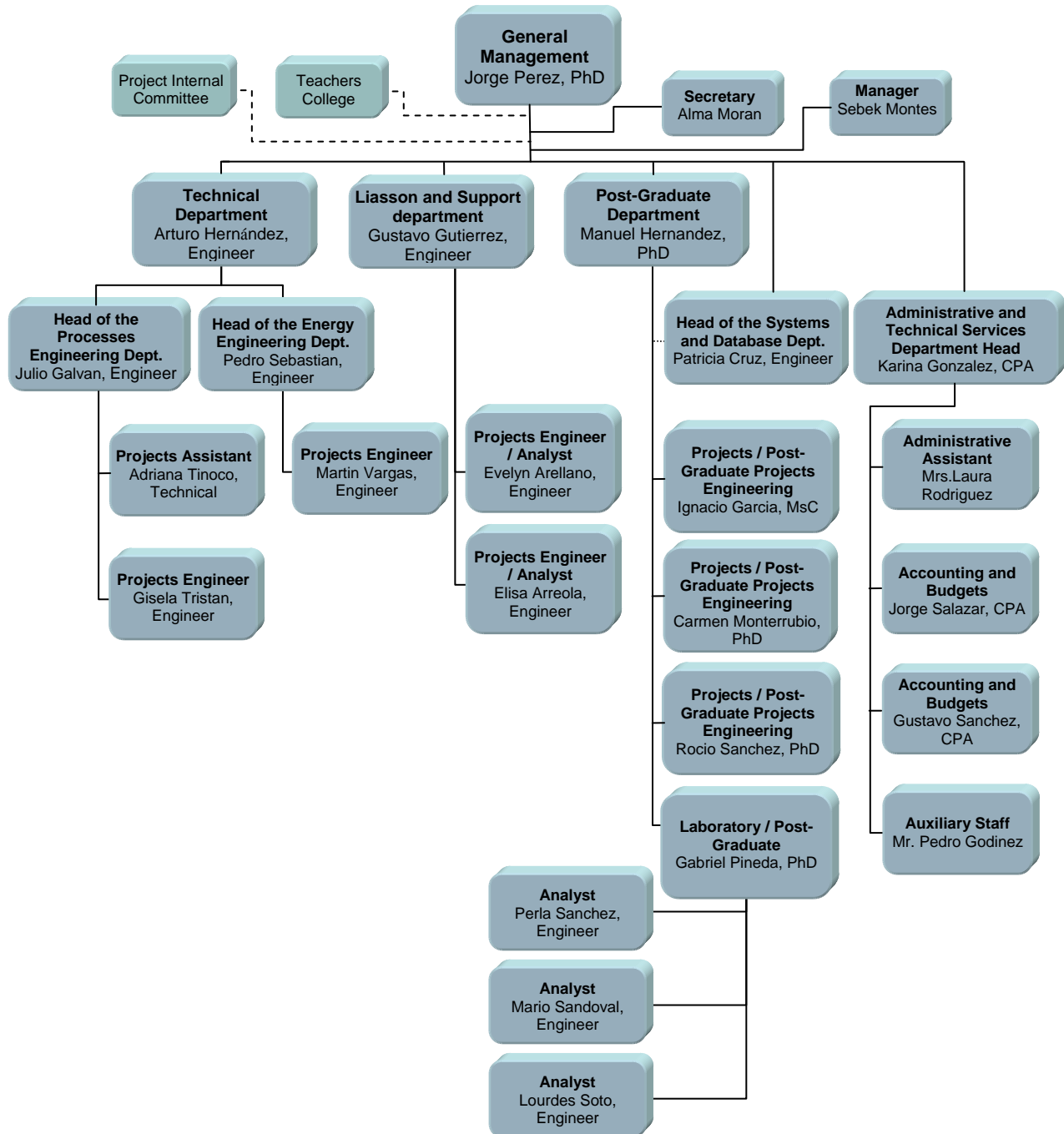
LABORATORY

- Analysis of the Biochemical
Oxygen Demand (DBO
initials in Spanish)
- Studies on corrosion,
electro-catalysis, and
electro-deposits.
- Analysis of metals in various
matrices through atomic
absorption spectrum-
photometry with inductively
coupled plasma. (ICP-OES
initials in Spanish)

Lines of investigation being
developed are the following:

- Biodegradable Materials
- Analysis of Life-Cycles and
Eco-Design in Industrial
Processes
- Atmospheric Contamination
Prevention and Industrial
Combustion Systems
Efficiency
- Waste Management
- Transporting Contaminating
Substances Through Porous
Media
- Reduction of Dangerous
Organic Waste
- Processes Simulation
- Alternate Sources of Power
Generation

ORGANIZATION



EXPERIENCE

The Center has trained personnel with experience in:

- Implementation of the Cleaner Production and Environmental Management Systems methodology
- Computer Programming and Data Management
- Energy Efficiency
- Quality Control and Assurance System
- Legislation and National Environmental Regulations.
- Environmental Waste Management.
- Life-Cycle of Products
- Microbial Technology and Microbiology
- Environmental Assessment
- Processes and technologies for the efficient use of water
- Biochemical Engineering
- Processes Engineering
- Industrial Chemical Engineering
- Environmental Engineering
- Communications and Electronics Engineering
- Metallurgic Engineering
- Chemical Analysis Laboratory

For the last thirteen years, Mexican Cleaner Production Center has served the following sectors:

INDUSTRIAL SECTORS

- Slaughter Houses
- Health Sector
- Offices
- Electroplating
- Foundry
- Food
- Chemical
- Hospitals
- Paints
- Restaurants
- Metalworking Industry
- Cardboard and Paper
- Pharmaceutical
- Furniture
- Textiles
- Government Buildings
- Slaughterhouses
- Sawmills
- Hotels
- Automotive Workshops
- Plastics
- Sugar Cane Industry
- Cement Industry
- Petrochemical Industry
- Oil Platforms
- Milk Products
- Copper Industry

SOME OF OUR CLIENTS

- Abbott Laboratories of Mexico
- ACG, Polymer Transformations
- Chrysler
- Cromadora Delgado (Chroming)

- The Mexico City Government
- The State Government of Tabasco
- Holcim Group- Apasco Cements
- T.Taio Industries
- Santa Rosalia Sugar Cane Mills
- Tres Valles Sugar Cane Mills
- Mercedes Benz
- Nestle of México
- Pemex
- Pepsi
- Promotora Medica Las Americas (Medical Development Company)
- Química Fina FARMEX
- Quimir
- Resins and Materials
- Resortes de Calidad (Quality Resorts)
- Arroyo Restaurant
- The State Slaughterhouses-State of Tabasco
- Televisa
- Textiles de Lib
- Volkswagen
- Volvo Bus de México
- The Chapultepec Zoo

LATIN AMERICAN NETWORK
(www.cp-latin-unido.ipn.mx)

Mexican Cleaner Production Center (CMP+L-initials in Spanish), with the goal of acting as the coordinating organism and promoter of adopting the Cleaner Production Strategy encouraged by the Organization of the United Nations for Industrial Development (ONUDI-initials in Spanish) and the United Nations Environmental Program for the Mexican Industrial Sector (PNUMA-initials in Spanish), is a member of the Latin American Network of Cleaner Production, which is a part of the ONUDI 's strategies for promoting sustainable industrial activities .

PUBLICATIONS

Guides of Cleaner Production of:

- Electroplating
- Food Industry
- Hospitals
- Foundry
- Hotels
- Sugar Cane Industry
- Chemistry
- Slaughterhouses
- Automotive Workshops

Informative articles about Cleaner Production methodology