

CAREER PROFILE

Oscar Olatte Correa

SUMMARY

A metallurgical and civil engineer with well-rounded experience in petrochemical conceptual engineering, feasibility studies, plant design, process engineering, material selection, failure analysis, reliability engineering, including process safety management systems and assets reliability. Additional experience includes risk analysis, inspection planning, inspection data management, maintenance optimization, turnaround planning and full implementation of mechanical integrity maintenance systems. These systems enable process facilities to optimize production throughput and profitability while significantly improving safety and indirect financial statement impacts.

PROFESSIONAL EXPERIENCE

BD Energy Systems, Houston, TX, 08/2014 - Present

Senior Materials and Metallurgical Engineer

In his role at BDES, supports projects by advising in matters related to materials like selection, welding, heat treatment and fabrication with the view of its service and potential failures and performance.

Also works with the business development department contacting new clients visiting their installations to show the BDES capabilities. Supports the department by participating on the bidding processes the company participate.

In the construction stage of projects participate as construction manager during turnarounds assuring the correct implementation of the specified design and any needed modification to it. I have participated in the following turnarounds implementing BDES projects:

- CFI – TERRA NITROGEN L.P. – VERDIGRIS COMPLEX, OK, USA
- NUTRIEN REFORMER - GEISMAR, LA, USA
- QATAR FUEL ADDITIVES COMPANY, LTD. MASSAIED INDUSTRIAL COMPLEX, QATAR
- US METHANOL, LLC, USA
- METHANEX CHILE, PUNTA ARENAS COMPLEX, CHILE
- METHANEX EGYPT, DAMIETTA, EGYPT
- E.D. NITROGEN FERTILIZER, EAST DUBUQUE, IL, USA
- REFORMER WALK TO DETECT IMPROVEMENT OPPORTUNITIES AND ACHIEVE HIGH RELIABILITY, ORICA AUSTRALIA PTY, LTD. KOORAGANG ISLAND, NEW CASTLE, AUSTRALIA
- BALLANCE KAPUNI, NEW ZEALAND. OUTLET PIGTAILS FAILURE STUDY
- SITECH, NETHERLANDS, CHEMELOT AMMOMNIA PLANT PRIMARY REFORMER REVAMP
- CF INDUSTRIES, IOWA, USA, PRIMARY REFORMER CONVECTION AND RADIANT SECTIONS REVAMPING
- TUPRAS REFINERY, TURKEYE. TECHNICAL SUPERVISION OF ADJUSTMENT OF REFORMER SPRING HANGERS
- NiQuan GTL, TRINIDAD & TOBAGO TECHNICAL ASSISTANCE FOR TEST RUN OF GAS TO LIQUID PLANT AFTER CONSTRUCTION.
- NUTRIEN TRINIDAD & TOBAGO TECHNICAL ASSISTANCE FOR REFORMER REPAIRS.
- TASNEE SAUDI ARABIA TECHNICAL ASSISTANCE FOR REFORMER BURNERS REPLACEMENT

Methanex – Chile S.A. – 2003 - 2013

Reliability Superintendent and Chief Reliability Engineer

As Reliability Engineering Supervisor and later the Chief Reliability Engineer, I was fully engaged in nearly all aspects of the organization. This includes but is not limited to process design, feasibility studies, financial modelling, budgetary estimates, detailed design, metallurgical selection, equipment selection, quality control and assurance, construction oversight, operational performance, preventative maintenance, rotating equipment management, turnaround planning, major capital improvements and related.

As part of my role as an important achievement I implemented an asset management system to improve and enhance reliability. This system included asset hierarchy in CMMS (MAXIMO), criticality study, FMEA analysis, RBI, failure analysis, programmed maintenance reliability studies and information management. As a complement to the system, I implemented a vulnerability and issues management system to track and facilitate contingency plans and search for definitive solutions in a proactive team called LRT (local reliability team).

As result I personally interacted with various levels of management and in varying areas of expertise integrating these individual groups' knowledge and experience into a fully auditable, traceable, manageable process safety management system - with a goal of improving/maximizing processing throughput, avoiding unnecessary outages, optimizing inspection costs while balancing cost savings with risk management.

- Fluent with nearly all industry practices including but not limited to API 510, 570, 653, 579, 580, 581, ASME Codes, NACE Codes and related procedures/practices.
- Fluent in the management and reliability improvement of reformer furnaces by implementing systems to monitor the operation and give feedback to process and operation in order to avoid failures defining harvesting strategies and CAPEX plans.
- Fluent in the use of nearly all NDE techniques (including limitations and benefits of each). NDE Experiences include AE Testing, Guided Wave Testing, Shear Wave Ultrasonics, Acoustic Emission Inspection, Automated Corrosion Mapping, Time of Flight Diffraction, Eddy Current Tube Testing, Ultrasonic Tube Testing, Pulsed Eddy Current testing, magnetic flux leakage, dye penetrant, magnetic particle, radiography, digital radiography, film interpretation and more.
- Risk Based Analysis and Inspection Data Management System – Experienced in the performance of risk based analysis in accordance with API 580 and 581 including operating envelopes, failure mechanisms, health impacts, safety impacts plus more. Able to integrate inspection data management plans with risk analysis programs to optimize inspection budgets, maintenance budgets and use information for major turnaround planning programs.
- Design and apply prioritization models to define and categorize maintenance works and define contingency plans.
- Understand industrial cleaning, waste management and related processes to assure equipment is cleaned on optimum intervals yet properly cleaned to assure reliability. As such fully capable of selecting chemical cleaning programs, hydro blasting techniques, tank cleaning processes, degassing processes, waste disposal and similar activities.
- Have executed large maintenance turnarounds successfully, including developing schedules and programs necessary to assure maintenance, operations, safety, inspection, contractors and similar communicate and work effectively, efficiently and productively, while maintaining an extremely safe work environment.
- Was involved in complete dismantlement, equipment preparation, equipment packaging, equipment tracking, transportation and erection of entire process plants from one area of the world to another.

Methanex – New Zealand LTD. – 2002 - 2003**Metallurgical Engineer – Maintenance Engineer**

In 2002 I was transferred from Methanex Chile to Methanex New Zealand to fill the role of metallurgical engineer and separately maintenance engineer. Primary activities included turnaround planning from the maintenance perspective working with reliability and inspection personnel. At the same time was assigned several specialty projects to research and develop various solutions to plant problems by investigating new materials to solve problems like creep in reformer tubes and metal dusting in waste heat boilers.

Methanex – Chile's Technical Department – 1992 - 2001**Inspection Engineer**

Initiated career in the technical department providing technical expertise in failure analysis, materials selection and basic inspection activities. Over the years became more involved in projects specially. As an example I was assigned the Project Manager responsible for the Chile 1 Reforming Revamp Project, working directly with M.W. Kellogg in Houston Texas.

EDUCATION

- Bachelors in Metallurgical Engineering
- Executive Business Program - Universidad Adolfo Ibañez – School of Business.
- Executive Business Strategy Program - Pontificia Universidad Católica de Chile.
- Leadership Training - Centre for Creative Leadership (CCL), San Diego, California.
- Certified API 579 Fitness for service – API Training given by API in New Plymouth, New Zealand.
- Fluent - Verbal and Written English

Personal and Professional Strengths

- Team work and people leadership Good sense of humor
- Budget preparation and control
- People focus
- Coaching and Mentoring
- Organized and analytical
- Broad and Well-rounded experience in various areas
- Multidisciplinary team leadership
- Under stress work capability