

CARLOS ALBERTO PALACIOS TENREIRO

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SUMMARY OF EXPERIENCE:

- NACE Certified - Chemical Treatment Corrosion Specialist and Internal Corrosion Specialist # 24333
- Hold a US Patent # 7,942,200 for a downhole chemical dispersion device to enhance oil production and chemical effectiveness for corrosion/scale/paraffin/asphaltene control.
- Subject Matter Expert consultant for an Independent Monitoring Contractor.
- Recipient of NACE Distinguish Service Award March 2013.
- Twenty six (26) years of effective work experience in Mechanical Integrity, Corrosion and Chemical Treatment
- PETROSKILLS Instructor –Water Treatment for Waterflooding.
- Excellent theoretical and practical background in corrosion assessment, control and material selection, especially in the oil/gas production, gathering and transmission systems.
- Chief Editor of LATINCORR a technical magazine addressing Corrosion, Mechanical Integrity and Reliability issues.
- President of CIMA-TQ, LLC, Corrosion Control, Mechanical Integrity and Chemical Treatment consulting company.
- Techcorr LLC, Global Director of Engineering and Mechanical Integrity Specialist. A technical oriented responsibility.
- Active in the development of NACE Standard Practices: Vice-Chairperson for NACE Wet Gas Internal Corrosion Direct Assessment, Chairperson of the NACE Multiphase Flow ICDA.
- Work experience has mainly been on oil/gas producing fields with responsibilities on internal corrosion / erosion / chemical treatment / material selection / water treatment / oil treatment, for sub-surface and surface equipment including gas/oil gathering and transmission pipelines, gas/oil treatment facilities, well tubing and pumping equipment, artificial lift systems and oil/gas process equipment.
- Have acquired solid experience and strong technical-practical knowledge in:
 - Material Selection.
 - Corrosion Control and Mechanical Integrity for oil/gas production fields of many different characteristics: Light, Medium, Heavy and Extra Heavy Oils, High WOR, High GOR.
 - The development and implementation of Mechanical Integrity Systems based on Risk Analysis (RBA). Have developed a proprietary methodology for Managing Corrosion and Mechanical Integrity called CAIMAN (Corrosion Assessment and Integrity MANagement) for oilfield static equipment and applied to companies around the world.
 - Corrosion Monitoring Selection, Optimization and Training.
 - Strategies for Mechanical Integrity Maintenance programs for Pipelines, Tanks and Pressure Vessels, including Utilities and Fire Control Systems
 - Inspection Strategies: HOW, WHERE, WHAT to inspect.
 - Pipeline Cleaning Strategies with Regular Pigs and Gel Pigs.
 - Writing of Mechanical Integrity, Inspection and Corrosion Related Procedures.
 - Development of Training Plans for personnel
 - Evaluation, Selection, Optimization, Development and Implementation of Chemical Treatment Management Systems.
 - Laboratory evaluation of Corrosion Inhibitors.
- Have lead and analyzed inspection programs and perform analysis of their results for pipelines, and other static equipment by performing Fitness-for-Service Analysis using API 579, RSTRENG.
- Have performed Risk Based Analysis in refineries (India) using API 580 and 581.
- Knowledge on the basics of how most of the NDT Inspections techniques work and applications.
- Developed and implemented Corrosion Management Systems for Petrobras in countries such as Venezuela, Argentina, Ecuador, Perú; in Venezuela: for PDVSA (Corpoven) nationwide, Shell Venezuela and Petrozuata (Conoco-Philips/PDVSA joint venture); Ecopetrol– Colombia; PEMEX, Mexico.
- Developed and Implemented Mechanical Integrity Systems for Pertrowarao (PDVSA-Perenco) – Venezuela, Hocol – Colombia, Pipeline System 4 for PEMEX – Mexico.
- Have experience and background of oil/gas fields in Colombia (most fields), Bolivia (Santa Cruz), Perú (Talara and Camisea Fields), Mexico (System 4, System 1, Villahermosa) and Argentina; USA (Wyoming, Montana, Texas), Venezuela (most fields) and Mexico.
- Have performed oil/gas field corrosion assessments and corrosion control recommendations for companies such as Ecopetrol in Colombia for all their fields, Pluspetrol in Peru for the Camisea Project; Wexpro, WY, USA; CHS, MO, USA.
- Have experience treating oil field facilities for asphaltenes, and some experience with demulsifying and paraffin control.
- Background includes studies on multiphase flow effects on corrosion inhibition, on CO₂ corrosion, erosion/corrosion.
- Have taught and teach courses on Fluid Dynamics, Mechanics of Materials, Heat Transfer, Asphaltene Control, Corrosion and Corrosion Control at many levels, Corrosion Inhibitors, Mechanical Integrity, Understanding NACE ICDA Methodology.
- President of the Venezuela Corrosion Association, Director for the NACE Foundation.
- Have written more than forty (40) papers and more 25 technical presentations in national and international congresses and in refereed journals.

DETAILED EXPERIENCE

March 2012 – Present

- NACE - Chemical Treatment Corrosion Specialist and Internal Corrosion Specialist # 24333
- Hold a US Patent # 7,942,200 for a downhole chemical dispersion device to enhance oil production and chemical effectiveness for corrosion/scale/paraffin/asphaltene control.
- President, Corrosion and Mechanical Integrity Specialist for CIMA-TQ a company specialized in Corrosion Control, Monitoring Selection and Optimization, Mechanical and Asset Integrity, and Chemical Treatment Optimization and evaluation.
- PETROSKILLS Instructor – Developed and Taught the Course: Water Treatment for Waterflooding – 20 day course – Istanbul, Turkey, December 2012.
- Consultant for Inelectra-PetroTiger: Develop procedures for Material Selection, Review of Material Selection Process for Projects.
- Consultant for Schlumberger Casabe Project in Colombia.
- Consultant for SUMMIT Energy, Colombia for In-Situ Combustion Project (STAR Project) for Pacific-Rubiales in Colombia.
- Consultant for Quest Integrity, Houston, Tx, USA for Stress Corrosion Cracking Project.
- Consultant for Blackhorse Energy, LLC, Houston, Tx. Chemical Treatment assessment and Optimization.
- NACE Foundation Director re-elected for the Periodo 2007-2013
- Chief Editor of the Technical Magazine LATINCORR.

May 2007- March 2012

- Techcorr LLC, Global Director of Engineering and Mechanical Integrity Specialist. A technical oriented responsibility.
- President and founder of the Mechanical Integrity Institute.
- Chief Editor of a technical magazine for Corrosion and Mechanical Integrity called LATINCORR. Focusing on promoting the corrosion and mechanical integrity technical development for Latin-America.
- Developed, implemented and supervised RBI analysis for: BPCL and HPCL Refineries in India; and Thundercreek Gas Treatment Plant, Wy, USA.
- Developed software to be used as Asset Integrity Management tool Based on Risk Analysis, called VisualAIM.
- Performed Mechanical Integrity Gap Analysis for CHS, Mo, USA.
- Performed Corrosion Assessment and Recommendations for Wexpro, USA.
- Performed a Corrosion Evaluation for SAFCO Petrochemical Complex in Jubail, Kingdom of Saudi Arabia.
- Re-elected, International Director for the NACE International Foundation 2007-2013.
- Currently in the vice-Chairperson of the NACE - ICDA-Wet Gas and Chairperson of the Multiphase Flow NACE ICDA.
- Well Material Selection for Pluspetrol, CAMISEA Project, Peru.

May 2007 – November 2007

- Developed and implemented HOCOL- Colombia Mechanical Integrity System based on Risk Based Analysis.
- Developed and Implemented PETROWARAO (Perenco-PDVSA) - Venezuela Mechanical Integrity System Based on Risk Based Analysis.

July 2005 –May 2007

- Petrozuata (Conoco-Phillips and PDVSA joint venture for Extra Heavy Crude Oils). Fluids and Material Engineer. Responsible for the Mechanical Integrity of the Installations: Selection and Interpretation of Corrosion Monitoring devices, Chemical Treatment for Corrosion/Scale Control, Water Treatment and Oil Treatment.
- Responsible for the Flow Assurance for the production installations starting from the reservoir to the surface facilities which activities included:
 - ✓ Flow simulations (single and multiphase) for production optimization and bottleneck identification.
 - ✓ Scale prediction and inhibition
 - ✓ Flow enhancers
 - ✓ Chemical Compatibility
 - ✓ Corrosion Control and Inhibition
 - ✓ Paraffin and Asphaltene prediction and control
 - ✓ Sand management
 - ✓ Water treatment
 - ✓ Steam injection system reliability
 - ✓ Installation design, flexibility analysis, reliability analysis, and optimization.
- Development and Implementation of the Risk Based Analysis Corrosion Management System (CMS) and the Mechanical Integrity System (MIS).
- Development and Implementation of Operational Procedures for the CMS and MIS.
- Responsible for the treatment of Extra Heavy Crude Oil.

- Developed Chemical Treatment Contracts for Oil, Water, and Corrosion.

May 2005 – July 2005

- Corrosion Assessment for Pluspetrol for the Camisea Project in Peru.
- Corrosion Consultant for “Instituto Colombiano del Petroleo (ICP)” for the implementation of their Corrosion and Mechanical Integrity System for Ecopetrol Country Wide Installations.

January 2003 – May 2005

- Petrobras Energia Venezuela S.A. Leader of Corrosion and Treatment Engineering (high WOR and light crude oils).
- Development and Implementation of the Risk Based Analysis Corrosion Management System for Petrobras Energía: Currently used Argentina, Ecuador, and Perú.
- Responsible for the Mechanical Integrity System for the company.
- Responsible for the Pipeline Integrity Project for Petrobras Venezuela. Objective: Perform the necessary activities (Installation of Pig launchers and receivers, pigging strategies, corrosion monitoring, corrosion control) to guaranty the Mechanical Integrity of the Pipeline System of the Company. Responsibilities: Develop of activities to be implemented, construction, and procedures, follow-up. Supervise 10 persons: office and field engineers. Budget control and contract holder.
- Develop Pipeline Integrity System and Pigging Management System for all Multiphase flow pipelines for the Oritupano-Leona- La Concepcion fields in Venezuela.
- Experience with developing strategies on Non Destructive Testing techniques: UT, LRUT, Visual Inspection.
- Develop of a Procedure for Designing Pipelines Intrinsically Safe.
- Developed Chemical Treatment Contract for Oil, Water, and Corrosion Treatment.
- Development of Maintenance strategies for Surface static equipment.
- Development of Corrosion Control strategies for the Talara Field in Peru and Bloque 18 in Ecuador.
- Evaluation of the crude oil demulsifying system.
- Hydrodynamic Simulation of the sub-surface and surface equipment to determine bottlenecks, production optimization and corrosion and /or erosion weak points.
- Failure Analysis.

October 2000 – January 2003

- Petrobras Energia Venezuela S.A. Superintendent of Corrosion and Treatment Engineering. Responsible for the internal and external corrosion for the company in Venezuela. Development and application of strategies for the corrosion control, water and oil treatment. Supervised 12 persons (own and contracted).
- Developed and applied a Risk Based Analysis Corrosion Management System for Petrobras. Used company wise in Venezuela.
- Development of strategies and procedures for the inspection of static equipment (vessels and pipelines).
- Material selection for sub-surface and surface equipment.
- Corrosion Control programs for ESP’s, Sucker Rods, PCP’s, and Gas lifted wells as well as for natural producing wells.
- Selection and evaluation of Corrosion Inhibitors, Paraffin Control, Asphaltene Control, Scale Control, Biocides for sub-surface and surface equipment.
- Development of chemical packages for well stimulations: paraffin, asphaltene control.

February 1998 – October 2000

- Shell Venezuela S.A. (light and heavy crude oils), Operations Support Leader (Maintenance): Rotary, static, electrical and instrumentation equipment.
- Responsible for the Oil treatment and oil handling of the Offshore Platform.
- Development of the Corrosion Control Management System for Shell Venezuela.
- Development for the maintenance strategies and corrosion control.
- Development of Technical Integrity strategies.
- Asphaltene control for sub-surface and surface equipment.
- Development and Implementation of Operational Procedures for the CMS and MIS.
- Responsible for the treatment of Extra Heavy Crude Oil.
- Developed Chemical Treatment Contracts for Oil, Water, and Corrosion.
- Supervisor of Senior Engineers and technical personnel (total 15 persons).
- Budget control and contract holder.

February 1991 – Present

- Consulting "Ad Honorem" of the "Erosion/Corrosion Research Center", The University of Tulsa, Tulsa, Oklahoma, USA.

May 1997 - January 1998

- BAKER-PETROLITE, Technical Manager-Latin America. Consulting and on-the-job solutions for Corrosion, Paraffin and Asphaltene Control of Pemex, Mexico; YPF, Rincón de los Sauces, Argentina; Ecopetrol, Colombia; PDVSA, nationwide, Venezuela; Teikoku, Venezuela.

January 1991 - May 1997

- PDVSA (Former CORPOVEN S.A.), Engineer Specialist for the Corrosion/Erosion Control for the company, for down-hole and surface oil/gas production and treatment equipment, nationwide.
- PDVSA (Former CORPOVEN S.A.), Corrosion and Treatment Engineer for the Corrosion/Erosion control of the sub-surface and surface production equipment: Material Selection, Corrosion Monitoring, System Design, Inhibition Selection, etc.
- Optimization and Evaluation of Separation Systems.
- Presidential (Venezuela) Appointee for the technical evaluation of the electromechanical equipment for the Venezuelan Central Region Water Treatment and Pumping System.

February 1990 - December 1990

- Research Associate of the Erosion/Corrosion Research Center at the University of Tulsa, Oklahoma, USA.
- Director of CO₂ Corrosion Studies for the Erosion/Corrosion Research Center, Tulsa, Oklahoma, USA.
- First Instructor for the Corrosion Engineering Course and Instructor of Mechanics of Materials, University of Tulsa, Tulsa, Oklahoma, USA.

May 1987 - February 1990

- Assistant Research of the CO₂ corrosion studies of the Erosion/Corrosion Research Center (ECRC) Responsibilities: 1. - Design, construction, testing, performance, and experimental design of the ECRC flow loop systems. 2. - Plans of the ECRC. 3. - Design and direction of electrochemical methods to measure corrosion. 4. - supervision of technical personnel and students. 5. - Personnel Training.

UNIVERSITY EDUCATION:

Jan 1990 - Dec 1990

Post Doctoral Research Associate: Erosion/Corrosion, The University of Tulsa, Tulsa, Oklahoma, USA.

May 1987 - Jan 1990

The University of Tulsa, Doctor of Philosophy (Ph.D.) in Mechanical Engineering. Dissertation: "Mechanisms of CO₂ Corrosion Related to Velocity in Two-Phase Flow Systems." Tulsa, Oklahoma, USA.

Jan 1983 - May 1987

The University of Tulsa, Master of Science (M.Sc.) in Mechanical Engineering Thesis: "The Design, Construction and Testing of an Experimental Facility to Study Effects of Flow Velocity on Erosion-Corrosion in Oil and Gas Production Equipment". Tulsa, Oklahoma, USA

Septiembre 1980 - Diciembre 1983

The University of Tulsa, Mechanical Engineering. Tulsa, Oklahoma, USA.

TEACHING EXPERIENCE:

- Active NACE Instructor for Basic Internal Corrosion, Advance Internal Corrosion and Direct Assessment.
- PETROSKILLS Instructor – Developed and Taught the Course: Water Treatment for Waterflooding – 15 day course – Istanbul, Turkey, December 2012.
- Developer and Instructor of the Courses: Internal Corrosion in the Oil and Gas Production Installations, Basics of Corrosion, Understanding NACE ICDA Methodology. Courses taught in San Antonio, Tx, March 2010; Houston, Tx, August 2009; Venezuela, 2008, 2007; Colombia 2005.
- Seminar: “**Challenges of Corrosion Control**” – Champion Technologies, Houston, Tx, Jan. 2008.
- Venezuelan Association of Corrosion – Eastern Chapter (ASVENCOR), “**Basic Corrosion**”, 2007.
- Universidad de Oriente, belong to the Corrosion Research Team. 2006.
- Designer and Teacher of the course “**Corrosion Control for Oil and Gas Production Installations**”, Duration 40 hours. 2005 - 2007
- “Universidad Nacional Experimental Politécnica-Antonio José de Sucre” professor of the course “**Corrosion Engineering – in the Oil and Gas Industry**”, Puerto Ordaz, 1995- 2007.
- “Universidad de Oriente – Easter Venezuela” professor of the course “**Corrosion Engineering**” December- May 1996.
- “Universidad Nacional Experimental Politécnica-Antonio José de Sucre” professor del course “**Corrosion Inhibitors**”, Puerto Ordaz, 1995 - 2007.
- “Universidad Nacional Experimental Politécnica-Antonio José de Sucre” professor del course “**Corrosion Testing Methods**”, Puerto Ordaz, June-July, 1995 - 2006.
- “Universidad Central de Venezuela” professor of Graduate School , 1995.

- Instructor of the course: "**Corrosion in the Oil Industry**", Buenos Aires, Argentina, August 1992.
- "The University of Tulsa", professor of **Mechanics of Materials** summer and fall semesters, Tulsa, Oklahoma, USA 1991
- "The University of Tulsa", professor of **Corrosion Engineering**, spring 1988, fall 1988 and fall 1989, Tulsa, Oklahoma, USA.
- PDVSA (Former CORPOVEN S.A), Instructor of the course "**Gas Engineering**" courses taught: Thermodynamics, Refrigeration, Corrosion, Fluid Mechanics, Two-Phase Flows and Heat Transfer.
- Author and instructor: **Separator Design**, PDVSA (former CORPOVEN S.A).
- Author and Instructor: **Corrosion**, PDVSA (former CORPOVEN S.A.)

PROFESSIONAL TRAINING COURSES

- "**Fitness-for- Service**", API 579, ASME, Houston, Tx, USA, 2010.
- "**Corrosion in the Refining Industry**", NACE International, Nashville, TN, USA, March 2007
- "**Seminar – Pipeline Integrity** ", NACE International, New Orleans, LA, USA, March 2004.
- "**Seminar – Direct Assessment Activities Related to Pipeline Integrity**", NACE International, Denver, CO, USA, April 2002
- "**Defect Assessment in Pipelines**", Andrew Palmer and Associates, Phil Hopkins, Caracas, Venezuela, October 2001.
- "**ISO 14000 Advanced EMS Lead Auditor Training Course**", Applied Quality Systems, Inc., Phoenix, Arizona, August 99.
- "**SVE02-ISO 14001 Sistema de Gestión Ambiental**", Shell Venezuela S.A., Maracaibo, August 99.
- "**Corrosion Control in Oil and Gas Production Equipment**", International Association of Corrosion Engineers (NACE), Houston, Texas, USA, October 1987.
- "**Laboratory Corrosion Testing**", International Association of Corrosion Engineers (NACE), 40 hrs, Fontana Corrosion Center, Columbus, Ohio, USA, September 1988.
- "**Introduction to Heat Treatment**", American Society of Metals (ASM), The University of Tulsa, Tulsa, Oklahoma, USA, January 1989.
- "**Análisis y Métodos de Ensayo**", Centro de Formación y Adiestramiento de Petróleos de Venezuela (CEPET), Anaco, Edo. Anzoátegui, August 1991
- "**Metodología de la Enseñanza**", ADIE, Puerto La Cruz, Edo. Anzoátegui, April 1992.
- "**Redacción de Informes Técnicos**", Centro Corporativo de Adiestramiento, San Tomé, Edo. Anzoátegui, May 1993.
- "**Two-Phase Gas-Liquid Flow**", CEPET, Maracaibo, Edo. Zulia, June 1993
- "**Pipephase Simulator**", CEPET, Tamare, Edo. Zulia, July 1994.
- "**Advanced Asphaltene/Wax Technologies**", Core Laboratories, Puerto La Cruz, Edo. Anzoátegui, June 1994.
- "**Basics on Reservoir Engineering**", CIED, Puerto La Cruz, Edo. Anzoátegui, June 1995.
- "**Geology**", CIED, Puerto La Cruz, Edo. Anzoátegui, July 1995.
- "**Electrical Submersible Pumps**", CIED, Puerto La Cruz, Edo. Anzoátegui, September 1995.
- "**Well Completion and Rehabilitation**", CIED, Puerto La Cruz, Edo. Anzoátegui, February 1996.
- "**Down Hole Mechanical Pumps**", CIED, Puerto La Cruz, Edo. Anzoátegui, March 1996.

CONGRESS AND SYMPOSIUMS ATTENDED

- **International Association of Corrosion Engineers (NACE)**: CORROSION'88 Saint Louis, Missouri; CORROSION'89, New Orleans, Louisiana; CORROSION'90, Las Vegas, Nevada; CORROSION'91, Cincinnati, Ohio; CORROSION'93, New Orleans, Louisiana; CORROSION'94, Baltimore, Maryland; CORROSION'95, Orlando, Florida; CORROSION'96, Denver, Colorado; CORROSION'97, New Orleans, Louisiana; CORROSION'98, San Diego, California; CORROSION'2000, Orlando, Florida; CORROSION 2001, Houston, Texas; CORROSION'02, Denver, Colorado; CORROSION'03, San Diego, California; CORROSION'04, New Orleans, LA; CORROSION'05, Houston, TX; CORROSION'06, San Diego, CA.; CORROSION'07, Nashville, TN; CORROSION'08, New Orleans, LA; CORROSION'09, Atlanta, GA.; CORROSION'10, San Antonio, TX.; CTW 2010, Orlando, Fla.; CORROSION'11, 2011, Houston, TX.; CORROSION'12, 2012, Salt Lake City, Utah; CORROSION'13, 2013, Orlando Florida.
- CORCON Indian Corrosion Congress, Guest Speaker, Goa, September 2012.
- Latincorr 2012, Lima, Perú, July 2012
- Latincorr 2010, Quito, Ecuador, Aug-Sept 2010
- Latincorr 2006, Fortaleza, Brasil, May 2006.
- International Corrosion Congress – Venezuela 2005, Nov. 2005
- I Student Section Corrosion Congress , Maracaibo, Zulia, Abril, 2000.
- I Operational Reliability Conference, USB, Sartenejas, Junio, 2000.
- First Corrosion Congress – Guayana Region, Puerto Ordaz, Abril 1995.
- II Corrosion Congress – Guayana Region - Puerto Ordaz, Abril 1996.
- "First Pan-American Corrosion and Protection Congress" y 4to. Congreso Iberoamericano de Corrosión y Protección. Mar del Plata, Argentina, 1991.
- 1st NACE Corrosion Congress – Latin American Region and 1st Venezuelan Corrosion Congress, Maracaibo, Edo. Zulia, 1994.
- I Symposium on Concrete Structures – Corrosion Control and Rehabilitation, Maracaibo, Edo. Zulia, Octubre de 1992.
- XI Gas Congress, G.P.A, Venezuela Chapter , Caracas, 1993
- "Offshore Technology Conference", Houston, Texas, 1990.

SOME PUBLICATIONS:

- C.A. Palacios, Experiences in Corrosion Rate Prediction and its Control for Downhole Production Systems, NACE:Latincor 2010, Quito, Ecuador, 2010.
- C.A. Palacios, B. Judkins, F. Baker, “Improved Methods Broaden In-Service Tank Inspection”, Oil and Gas Journal, Page 58, August 10th, 2009.
- C.A. Palacios, Risk Based Analysis Corrosion System Applied to Production Installations – Development, Methodology and Application, Paper 228, NACE:Latincor2006, Fortaleza, Brazil, 2006.
- C.A. Palacios, “Corrosion Inhibition on Gas and Oil Production Installations – Selection and Experiences to Increase its Effectiveness”, Paper 227, NACE: Latincor 2006, Fortaleza, Brazil, May 2006.
- C.A. Palacios, D. Quintero, G. Sucre “A Risk Based Análisis Method for Corrosion Control Applied to an Amine Gas Sweetening Plant”, Paper No.05388, Corrosion 2005, NACE, Houston, TX, USA, 2005.
- C.A. Palacios, D. Quintero, “Experiences in Assessing Internal Corrosion for Multiphase Flow Pipelines”, Paper No. 003178, Corrosion 2003, NACE, San Diego, CA, USA, 2003.
- C.A. Palacios, “Risk Based Corrosion Management System for Oilfield Production Installations – Development, Methodology and Application”, Corrosion 2003, San Diego, CA, USA, 2003.
- C.A. Palacios, et. al. “Corrosion Control Strategies of Downhole Pumping Equipment and Flow Lines on Wells Containing CO₂/H₂S Using Risk Based Analysis (RBA) Techniques”, Corrosion 2003, San Diego, CA, USA, 2003.
- C.A. Palacios, T. Hernández, “Field Experience for SRB-MIC Control in Water Injection Plants Having Continuous Pit Recovered Fluids”, Corrosion 2003, NACE, San Diego, CA, USA, 2003.
- C.A. Palacios, M. Jackson, et. al. “Screening Corrosion Inhibitors Using RCE for Different Sucker Rod Grades for Wells Containing CO₂ – Laboratory and Field Results.” Corrosion 2003, NACE, San Diego, CA., USA, 2003.
- C.A. Palacios, R. Rodríguez, “A Study on the Effectiveness of External Corrosion Control in Lake Maracaibo”, Paper No. 00669, Corrosion’2000, Orlando, Florida, USA, 2000.
- C.A. Palacios, G. Iazzetta, I. Inciarte, “Maintenance Integrity System and Corrosion Control for Shell Venezuela Offshore Production Installations Located in the Maracaibo Lake” II Jornadas Regionales de Mantenimiento, Maracaibo, Edo. Zulia., Noviembre, 1999.
- C.A. Palacios, “Methodology for the Internal Corrosion Control of Well production Lines and Flow Lines”, PETROLEUM Magazine, Maracaibo, Edo. Zulia., Feb. 1999.
- C.A. Palacios, Y. Hernández, “Application of Simulation Techniques for Internal Corrosion Prediction”, Paper No. 97002, Corrosion’97, New Orleans, Louisiana, USA, 1997.
- C.A. Palacios, J.L. Morales, A. Viloría “Effect of Asphaltene Deposition on the Internal Corrosion in the Oil and Gas Industry”, Paper No. 97006, Corrosión’97, New Orleans, Louisiana, USA, 1997.
- C.A. Palacios, N. A. Romero, “Experiences in the Design of CRA’s for Erosion/Corrosion Control in the Production Facilities of Eastern Venezuela Oil Fields”, Paper No. 97013, Corrosión’97, New Orleans, Louisiana, USA, 1997.
- C.A. Palacios, Y. Hernández, “Development and Application of Isocorrosion Graph for the Prediction of Corrosion Rates for Sub-surface Installation in the Oil Industry”, II Congreso Sur-Oriental de Corrosión, Puerto Ordaz, Abril 1997.
- C.A. Palacios, M. Castillo, A. Viloría, M.E. Afonso “ Corrosion Inhibitor Evaluation for High Pressure Compression and Injection Systems” XII Jornadas de la GPA, Capítulo Venezuela, Puerto La Cruz, 1996.

- C.A. Palacios y V. Chaudary "Corrosion Control in the Oil and Gas Industry Using Nodal Analysis and Two-Phase Flow Modeling Techniques," Paper No. SPE 36127, Fourth Latin American and Caribbean Petroleum Engineering Conference, SPE, Port-of Spain, Trinidad, April, 1996.
- C. A. Palacios y J. L. Morales "Hydrodynamic Modeling for Corrosion Control in the Oil and Gas Industry", Paper No. 95104, Corrosion '95, Orlando, Florida, USA, 1995.
- C. A. Palacios y J.R. Shadley, "CO₂ Corrosion of N-80 Steel at 71 oC in a Two-Phase Flow System", Corrosion, Vol. 49, No. 8, 1993.
- C. A. Palacios y J.R. Shadley, "CO₂ Corrosion in Two-Phase Flow Systems", 1st Pan-American Corrosion and Protection Congress, 4to Congreso Ibero-Americano de Corrosión y Protección, Mar del Plata, Argentina, 25-30 Octubre, 1992.
- C. A. Palacios y J.R. Shadley, "Performance of Oilfield Corrosion Inhibitors Under Single and Two-Phase Flow Conditions," Corrosion'91, Paper # 475, 11-15 Marzo, 1991 Cincinnati, Ohio, USA.
- C.A. Palacios y J.R. Shadley, "CO₂ Corrosion of N-80 Steel at 71 oC in a Two-Phase Flow System", Corrosion'91, Paper # 476, 11-15 March, 1991, Cincinnati, Ohio, USA.
- C. A. Palacios y J.R. Shadley, "Characteristics of Corrosion Scales on Steels in a CO₂-Saturated NaCl Brine," Corrosion, Vol. 47, No. 2, 1991.
- C.A. Palacios y J.R. Shadley, "CO₂ Corrosion of API N-80 Steel in Two-Phase Flow Systems," Offshore Technology Conference, (OTC'91), Paper # 6698, 6-9 Mayo, 1991, Houston, Texas, USA.
- C.A. Palacios y J.R. Shadley, "Effects of Flow Velocity on Inhibitors Used in Oil and Gas Production," Offshore Technology Conference (OTC'90), Paper # 6281, 1990, Houston, Texas, USA.
- C.A. Palacios, "Corrosion Control in the Hydrocarbon Industry", Universidad Experimental Politécnica Antonio Jose de Sucre, Puerto Ordaz, 1995.
- C.A. Palacios y A. Moreno, "Asphaltenes Control Methods Used by Corpoven S.A. (Currently PDVSA)" ", XI Jornadas de la GPA - Capítulo Venezuela, Caracas, 1993.
- C.A. Palacios y J.R. Shadley, "The Effect of Microstructure in CO₂ Corrosion", Primer Congreso de Corrosión NACE Región Latino-Americana y Primer Congreso Venezolano de Corrosión, Maracaibo, Edo. Zulia, Venezuela, Nov., 1994.
- C.A. Palacios, "Effects of Flow Velocity on CO₂ corrosion", Universidad de Oriente, Cumana, Edo. Sucre, 1993.
- C.A. Palacios y J.L. Morales, "Effect of the Hidrodynamic Conditions on the Prediction of Corrosion Rates" 1st NACE Latin-American Region Corrosion Congress and 1st Venezuela Corrosion Congress, Maracaibo, Edo. Zulia, Venezuela, November 1994.
- C.A. Palacios, N.A. Romero, H. Rojas, "Failure Analysis for Wellhead of PIGAP Project (High Pressure Injection System for North of Monagas)", CORPOVEN S.A., December, 1996.
- C.A. Palacios, Y. Hernández, "Diagnostic, Quantification and Characterization of the Erosion/Corrosion Phenomena for the Oil/Gas Installations Associated to the Project PIAMO (Water Injection for the Area North of Monagas) Vol. I y II", CORPOVEN S.A., November, 1996.
- C.A. Palacios, D. Ramos, J. Alí "Diagnostic and Erosion/Corrosion Control Strategies for the Production Installations of Barinas District, CORPOVEN S.A., April 1995.
- C.A. Palacios, V. Chaudary "Evaluation y Prediction of Intenal Corrosion for Production Installations and Artificial Gas Lift Systems of Area IV Production Unit - Anaco and for the ANACO – Puerto Ordaz Gas pipeline, CORPOVEN S.A., February 1995.
- C.A. Palacios, R. Ramos, "GAS LIQUID SEPARATORS", Book and Course, CEPET-CORPOVEN S.A., 1993
- C.A. Palacios, "CORROSION", Book and Course, CORPOVEN S.A., June 1992.
- C.A. Palacios, "Diagnostic and Corrosion Control for the Area North of Monagas, Venezuela", CORPOVEN S.A., June 1993.

- C.A. Palacios y R. Zamora, "Corrosion Control for Area I - Anaco," CORPOVEN S.A., January 1995.
- C.A. Palacios y J.L. Morales, "Corrosion Control for the Gas Pipeline: Jusepín - Criogénico," CORPOVEN S.A., July 1994.
- C.A. Palacios, "Internal Corrosion Control for Santa Barbara Liquid Extraction Plant," CORPOVEN S.A., September 1994.

TECHNICAL PRESENTATIONS:

- C.A. Palacios, "Theory of Corrosion" The American Welding Society, Sabine Section, Beaumont, Texas, September 20th, 2011.
- C.A. Palacios, Course: "Corrosion: Methods of Evaluation and Control in the Hydrocarbon Industry", Panama City, Panama, April 6th – 8th, 2011.
- C.A. Palacios, Plenary Lecture: "Corrosion Assessment and Integrity Management (CAIMAN)", Latincor 2010, Quito, Ecuador, Aug-Sept 2010.
- C.A. Palacios, "Asset Integrity Management", OISD Work Shop, December 2008, New Delhi, India.
- C.A. Palacios, "Effects of Multiphase Flows on the Internal Corrosion in Pipelines", Colombian Corrosion Association (ASCOR) - National Congress, Barranquilla, Colombia, May 2007.
- C.A. Palacios, "The Importance of Mechanical Integrity Systems", Colombian Corrosion Association (ASCOR) - National Congress, Barranquilla, Colombia, May 2007.
- C.A. Palacios, "Experiencias de Corrosión en la Industria Petrolera, Instalaciones del Lago de Maracaibo", Shell Venezuela/NACE International, Sectional Venezuela, September, 1998.
- C.A. Palacios, "Workshop: Experience of Corrosion in the Oil and Gas Industry", Centro de Investigaciones Tecnológicas de Oriente (CITO), Barcelona, April 1997.
- C.A. Palacios, "Corrosion Course - IV Módulo de Ingeniería de Producción", CIED, Puerto La Cruz, March 1997.
- C.A. Palacios, "Plenary Lecture: The Rol of the Corrosion Engineer in the Oil and Gas Industry", Primer Congreso de Corrosión - Región Guayana, Puerto Ordaz, April 1995.
- C.A. Palacios, "Presentation of the Erosion/Corrosion Research Center," PETROBRAS, Río de Janeiro, Brasil, August, 1988.
- C.A. Palacios, "Presentation of the Erosion/Corrosion Research Center," INTEVEP, Los Teques, Venezuela, August, 1988.
- C.A. Palacios, "State of the Art of Erosion/Corrosion Processes," Technical Committee Meeting, Corrosion'88, St. Louis, Missouri, USA.
- C.A. Palacios, "The Design and Testing of an Experimental Facility to Study the Effects of Flow Velocity on Erosion-Corrosion in Oil and Gas Production Equipment, NACE South Central Region Conference, Lafayette, Louisiana, November, 1987.
- C.A. Palacios, "Advisory Board Meeting Report of the Erosion/Corrosion Research Center," edited by the Department of Mechanical Engineering, University of Tulsa, , MAY 1987, NOVEMBER 1987, MAY 1988, NOVEMBER 1988, MAY 1989, NOVEMBER 1989, MAY 1990, NOVEMBER 1990.

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- International Director for the NACE Foundation 2005 – 2013.
- President of Venezuelan Corrosion Association (ASVENCOR) – Oriente 2005 – 2010
- President and Organizer of the International Corrosion Corrosion Congress – Venezuela 2005 – Nov. 2005.
- Vice - President NACE International – Venezuela Section – 2005 - 2007
- President of the II Congreso Sur-Oriental de Corrosión, Puerto Ordaz, April, 1997.
- For "Professionalism and Work Dedication" the University of Tulsa, May 1990.
- "Honorary Tulsan," The City of Tulsa, Awarded by the Mayor of Tulsa, 1990.

- "Outstanding Contribution to Multiculturalism," the University of Tulsa, April 1990.
- "Outstanding Leader Award 1983," the University of Tulsa.
- "Dean's Honor Roll 1982," University of Tulsa.

OTHER ACTIVITIES:

- Vice-president of NACE International – Venezuela Section, 1998-1999, 2001, 2005 -2009
- President of the Venezuelan Corrosion Association (ASVENCOR) – Eastern Chapter – 2005-2007
- Reviewer of the “Technical Journal for the Engineering Faculty, Universidad del Zulia”, since May, 1996 to 2004.
- "Founder and Past-president Venezuelan Corrosion Association – Eastern Chapter (Asociación Venezolana de Corrosión), 1993 - 1995.
- "Founder and Advisor to ASOVEN (Venezuelan Student Association), Universidad de Tulsa, 1990.
- "Founder and Past-President of the Latin American Student Association de la Universidad de Tulsa, 1983 - 1987.
- "President and chair of the University of Tulsa Annual "International Week", 1980 to 1990.

HOBBIES

Carpentry (Design y construction of furniture), Opera, Theater, Ballet, Scuba-Diving (PADI Open Waters), Water - Ski, Racquetball.