

CURRICULUM VITAE

September, 2022



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SUMMARY:

Former Lieutenant Commander of the Uruguayan Navy, has sailed during 5 years in international oil vessels and overseas merchant vessels. He worked for 6 years as an advisor of the Navy International Affairs Office; member of several bilateral and intergovernmental committees related to maritime, riverine, boundary and international issues (within the framework of IMO, UNDP). During this period he advises the Uruguayan Government about issues related to the Marpol agreement, Solas, CLC, Fund, etc., directly taking part in negotiations which allowed to apply diverse annexes and amendments of the mentioned agreements in Uruguay. He retires with the grade of Lieutenant Commander, after 22 years of service.

As a Geographer, he specializes in Leuven (Belgium) in environmental and economic issues, having an active participation in research committees and several publications. Has a Master Degree in Transport Management (Brussels-Leuven-Liege-Mons), Maritime and Air Law (Brussels), Environmental Geography (Leuven) and European Integration (Liege).

He participated in Stages of study in several European ports and got in touch with the Ghent Port Authority (Belgium) where he advised the Commercial Department for three years and then became its representative in Latin America for the period 1997-2002. He has performed representation and technical port consultancy activities in that capacity in Argentina, Bolivia, Brazil, Costa Rica, Chile, Panama, Paraguay and Uruguay.

He was an university professor in the transport area in Uruguay and Paraguay. Since he has been related to the TRAINMAR Program since 1997, he'd attended multiple courses in Argentina (University of Belgrano) and Uruguay (Navigation Center) and he'd obtained a degree of Transport Specialist (University of Belgrano, Buenos Aires). He has been the instructor of three of them in Uruguay and Argentina.

Between 1998-2002 he represented a Belgian consultant company (HAECON nv) in maritime and port engineering with which he participated in environmental projects and renewal of its National Contingency Plan in Uruguay and Paraguay. In the latter country he has done port consultancy works for the National Port Authority. Among his activities as a Consultant, he has been appointed as a technical coordinator for transport and port projects: Maritime Management and Port Restructuring in Costa Rica (Ministry of Transport - 2001) and Maritime and Coastal Management in Uruguay (World Bank - 2001-2002). In all of them has worked in the National Contingency Plans for oil spill. During the year 2003 he participates as principal negotiator and technical coordinator in a consultant group (COINHI – Consorcio Integración Hidroviaria) for works in the Paraguay-Paraná Waterway (CAF-CIH-UNDP), which includes teams of technicians from Argentina, Austria, Bolivia, Brazil, Paraguay and Uruguay. The project includes a contamination module and contingency plans for all the Ports of Paraguay-Parana waterways.

Between 2004 and 2008 holds de position of Operation Manager of Ocean Pollution Control S.A. (www.grupo-opc.com), which was handled under contract with Panama Maritime Authorities, the operational response and crisis management for oil spills in that country. He participates in a lot of maritime and ground spills, level 1-2 in Panamá and Central America. Among them the Tier II Oil Spill in Chiriqui Grande (Panama) beginning a relationship with Petro Terminal Panama as Oil Spill Control External Advisor that continues until today. He was directly responsible for the prevention activities, which has led him to lead dozens of exercises and simulations of deployment of resources, notification, management of maritime coasts, crisis management in Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama. During this period he was responsible of the agreement between OPC and Shell Panama concerning security and safety in oil spill control operations by land and sea. In this topic he´s the only Latin American Member (Spanish countries) of the board of the Conseil of the International Spill Control Organization (www.spillcontrol.org).

Since the year 2007 until 2012 works as technical advisor of port and environmental issues at the Ports Interamerican Comission of Ports of OAS (<http://www.oas.org/cip/english/index.html>).

Since 2008 he works as external oil spill control advisor of IMO-RAC/REMPEICT Carib in Curacao with operational and theoretical workshops (Aruba).

Since August, 2008 until 2022 works in Panamá as Project Manager of Consulting Group International MarConsult. Has technically coordinated between 2008 and 2011 some projects for the Environmental Protection and Control of Pollution Caused by the Maritime Transportation in the Gulf of Honduras: Navigation and Environmental Risks (2008-2009); Data and Information Management System, Establishment of a Base Line, Preparation of a Transboundary Diagnostic Analysis and a Strategic Action Plan (2008-2010); Design and Operation of the Monitoring System and Environmental Assessment of the Gulf of Honduras (Guatemala, Honduras and Belize - IDB/Cocatram/URCP – 2012).

He is regularly invited to dictate conferences in international events specialized in oil and HNS spill control (ARPEL, RAC/REMPEICT/Carib, IOSC, Interspill, CEDRE, Clean Gulf, REPICA, etc.).

Since 2009 he has been working as an independent consultant on oil safety and environmental issues and in this framework he has been an instructor of multiple courses on issues of control of pollution by oil and HNS in some of the main oil companies in the countries of the region Central America, South America and the Caribbean, both in English and Spanish. From 2010 (DWH incident) he has specialized in the thematic of E&P Offshore Oil & Gas, safety and environmental matters, working in this area in Central and South America. In this framework, he has been Maritime-Environmental Advisor of the General Directorate of the Honduran Merchant Marine between the years 2017-2021 and develops activities in relation to oil spill control and incidents with HNS and the IMO Model Courses and Exercises OPRC for Oil and HNS.

Between 2012-2016 he was installed in Washington DC and have a free lance job as oil spill control advisor with Shell Latin America.

Since April 2021 he is the Representative for Latin America (Spanish speaking) of the International Spill Control Organization (<https://spillcontrol.org/wp-content/uploads/sites/82/2021/04/ISCO-781-Newsletter.pdf>).

In February 2022, he is assigned by the IMO as an external consultant to support Peru in the response effort and in the National Contingency Plan, in circumstances of the Tier III spill event at the La Pampilla Refinery with the Mare Tanker Doricum.

KEY QUALIFICATIONS:

- Project Manager and Technical Coordinator of Environmental Projects
- HSE - Oil and HNS spill control.
- Safety and Environmental E&P Offshore Oil & Gas
- Environmental, port and maritime-fluvial Project Manager
- Port security and environment aspects
- Contingency Plans for oil and HNS spills
- Economic geography with special emphasis in environmental issues.
- Training in maritime environmental topics, ports and maritime and river transport

ACADEMIC DEGREES

- Lieutenant Commander - Former – Uruguayan Navy - 1977-1992 - During 1976 Stage in Navy Academy – US, Annapolis – During 1978 Polytechnic Naval Academy, Viña del Mar, Chile
- Geographer – Faculty of Sciences - Republic University (Uruguay) – 1979 -1984
- Master in Applied Geography (Specialization in Territorial Management, Environment and Location of Economic Activities) - Faculty of Science, Catholic University of Leuven – Belgium – 1993-1994
- Interuniversity Master in Transport Management – Catholic University of Leuven, Free University of Brussels, University of Liege, Polytechnic Faculty of Mons - Belgium – 1995-1996
- Master of Maritime and Air Law – Free University of Brussels (Belgium) – 1992-1994
- Diplome Transport Specialist – TRAINMAR/UNCTAD/GTZ, University of Belgrano (Buenos Aires, Argentina) – 1999-2001
- Diplome Project Management Institute (PMI-USA) - University of Belgrano (Buenos Aires, Argentina) – 1999-2001

MEMBERSHIP IN PROFESSIONAL BODIES:

- Member of Number Instituto Histórico y Geográfico (Uruguay)
- Member PIANC (US Section)
- Member Liga Marítima Uruguaya
- Society of Petroleum Engineers (SPE – www.spe.org) – Miembro 4300021
- International Spill Control Organization (ISCO – www.spillcontrol.org) – Professional Member (MISCO) from 2011
- ISCO Council Member from December 2016 (Newsletter ISCO N° 564)



TYPE OF PROJECTS – MAJOR CUSTOMERS

- **Oil & HNS spill control**– Panamá (AMP-PTP-OPC); Honduras (DGMM – OPCH); México (Marterra); Nicaragua (EPC); Costa Rica (OPC CR); Guatemala (Autoridad Marítima y Comisión Nacional Portuaria), COCATRAM (Central America), Paraguay (CAFYM), Peru (IMO – Maritime Authority)
- **Environmental, ports & maritime & waterways** – World Bank (Argentina, Bolivia, Brasil, Costa Rica, Paraguay, Uruguay); BID (Belize, Guatemala, Honduras, Nicaragua, Panamá), CIP (OEA)
- **Safety and Environmental management Oil and Gas Onshore and Offshore** – EXXON (Panamá), RECOPE (Costa Rica), SHELL (Panamá, USA), PEMEX (México), PETROFAC (México), Maritime Authority (DGMM - Honduras), PETROPAR (Paraguay), RAC-REMPEITC-Caribe (Aruba-Curacao)
- **Contingency Planning-ICS** – Panamá (Autoridad Marítima de Panamá-OPC), Guatemala (Autoridad Marítima-OPC), Honduras (Dirección General Marina Mercante-OPCH), Costa Rica (Ministerio de Transporte-OPC CR); Nicaragua (COCATRAM-EPC); Paraguay (ANNP); Uruguay (ANCAP, DINAMA-Environmental Dept., Coast Guard, Navy); México (PEMEX-Marterra); Peru (IMO-Maritime Authority)

PROFESSIONAL EXPERIENCE (10 years to date)

- 2022** In February 2022, he is assigned by the IMO as an external consultant to support Peru in the response effort and in the National Contingency Plan, in circumstances of the Tier III spill event at the La Pampilla Refinery with the Mare Doricum Tanker.
- 2020** Leader of the Bunker Spill Incident Investigation Team at the Miraflores Thermoelectric Plant – Root Cause and Preventive Action Plans Work Program – Standard API RP-585 – Panama Canal Authority – International MarConsult Inc. – Panama City - April- May 2020.
- 2017-2021** Maritime & Environmental Advisor of the General Direction Merchant Marine of Honduras – Activities with workshops, drills and training. Reports about the National Contingency Plan, Oil & Gas Offshore Activities in Honduras, Sea and Land Oil Spill Control Control, HSE with Hazard Noxious Substances (HNS) – Tegucigalpa – San Pedro Sula – Puerto Cortes (Honduras).
- 2009-2022** Environmental and Operational Advisor of the Mexican Oil Spill Control Company (OSRO) Marterra. Workshops and IMO Model Courses (Tampico – México). In March-April 2019 participation at the oil spill control and vessel refloating of the tug boat Clifford G en Puerto Márquez – Acapulco (México).
- 2009-2022** Independent Consultant specialized in preparedness and pollution control for oil spills (IMO Model Courses OPRC) and other harmful substances issues (HNS), as well as Annexes I to VI of MARPOL.

- 2010-2019** External consultant of IMC Group (International MarConsult). Panama City/Panama. Projects linked to the environmental, maritime and port sector in Central America and South America. Web site: www.int-marconsult.com
- 2019** Technical Advisor for RPS Company for the Panama Oil Spill Modeling Colon Coastal-Offshore Panama (Bahía las Minas – Provincia de Colón) – Panamá
- 2019** Director of the Risk Analysis Project - Oil Transfert at Sea (Bunkering) – Bahía Las Minas – Maritime Procurement INC. to present to the Panama Maritime Authority (AMP)
- 2013** Translator-adaptation of the Incident Command System Management Handbook for Shell-Americas. Shell, Houston, US.
- 2012** Project Manager and Technical Coordinator of the Project “Design and Operation of the Monitoring System and Environmental Assessment of the Gulf of Honduras” in Guatemala, Honduras and Belize – International MarConsult Inc. - IDB/Cocatram/URCP
- 2007-2012** Environmental external consultant of the Inter American Ports Commission (IPC/OAS). Web site: <http://www.oas.org/cip/english/index.html>.
- 2010-2011** Technical Coordinator of CSI-IMC Consortium, in charge of Honduras Project Quality of Air Puerto Cortes. Project sponsored by Municipality of Puerto Cortes. Countries participating in the study: Belice - Guatemala – Honduras. Director Dr. Tania Paez (Uruguay). Cortés Port/Honduras.
- 2008-2009** Regional Project Manager of OPC S.A. Group, conformed by companies in Central America specialized in oil spill control activities (OPC Panama, EPC Nicaragua, OPC Guatemala, OPC Honduras, OPC Costa Rica).
- 2009** Coordinator and Operations Manager of the Development of Control Drills of Oil Spill. Project developed in Belize (Big Creek Port), Guatemala (Santo Tomas de Castilla Port) and Honduras (Cortés Port), during February 2009. BID-URCP-OPC
- 2003-2008** Operations Manager of Ocean Pollution Control (OPC). Environmental company specialized in control oil spills and maritime pollution. Panama City, Panama. Web site: www.grupo-opc.com. In this context, participation in an accident Tier 3 (international response Spill of Chiriquí Grande – Panama, February-April 2007); a dozen of maritime incidents of spill Tier 2 (regional response in Panamá and Costa Rica); and others maritime and land spills incidents level Tier 1 (local response). In all cases served as Operations Manager and in the majority of them as Scene Commander, handling from tens to hundreds of operators, workers and volunteers, both from public and private sector.
- 2008-2010** Technical Coordinator of IMC-CSI Consortium, in charge of Honduras Gulf Project about “Data and information management System”, Baseline establishment, Preparation of Transboundary Diagnostic Analysis (ADT) and Strategic Action Plan (PAE)”. Project sponsored by BID and

coordinated by URCP-COCATRAM. Countries participating in the study: Belice - Guatemala – Honduras. Director Dr. Belgis Chial (Panama). Cortés Port/Honduras. Director: Dr. Belgis Chial (Panama)

2008-2009 Coordination of IMC Consortium and Associates in charge of the Consultancy about “Navigation risks and Harmonization of Regulations concerning Navigational Safety” – Project of Environmental Protection and Control of Contamination caused by Maritime Transport in the Gulf of Honduras. Sponsored by the BID and coordination of URCP-Cocatram. Countries participating in the study: Belice - Guatemala – Honduras. Director Ing. Rubén Reyna (Panama). Cortes Port/Honduras. Director: Ing. Rubén Reyna (Panama).

2007-2009 Environmental and technical advisor in the creation of OPC Costa Rica company, San José/Costa Rica. Web site: www.opccostarica.com

2004-2006 Environmental and technical advisor in the creation of Environmental Protection & Control company, Managua/Nicaragua. Web site: www.epcnicaragua.net

SPECIALIZED COURSES (LAST 14 YEARS)

Name: **Certification of Completion Clean Gulf Conference
Workshop: Four Chairs One Table**

Institution: Witt O’Brien’s - Clean Gulf

Place: New Orleans, USA

Date: November 2018

Name: **Coastal Shoreline Cleanup Assessment Technique
(SCAT) Basics**

Institution: IOSC – OSRL - OCC

Place: Long Beach, USA

Date: 2017

Name: **Workshop: Spill Risk Assessment and Spill
Contingency Planning**

Institution: Polaris - Clean Gulf

Place: New Orleans, USA

Date: Nov. 2015

Name: **Certification of Completion Clean Gulf Conference**

5B - Inland Response Perspectives

5C - Pipeline 360

2D – Santa Barbara Refugio State Beach Oil Spill Case Study

Session 6E – Mexico Energy Reform Developments

Session 2F – An Industry Responder’s 2015 Perspective on Oil Spills

Session 5G – Inland Response

Institution: Clean Gulf – 25th Anniversary

Place: New Orleans, USA

Date: Nov. 2015

Name: **Understanding Dispersants in Oil Spill Response**

Institution: CCA-OSRL Technical Forum
Place: Fort Lauderdale, USA
Date: 2014

Name: ***Oil Spill Strategies and Tactics Training***
Institution: OHMSETT – US NAVY
Place: New Jersey, USA
Date: 2014

Name: ***Fundamentals of Upstream Operations***
Institution: EUCI
Place: Houston, USA
Date: 2014

Name: ***Advanced Spill Management***
Institution: IOSC - NOAA/BSEE/EPA/API/IPIECA/COAST GUARD
Place: Savannah, USA
Date: 2014

Name: ***Slow Water and Fast Water Booming Techniques***
Institution: IOSC - NOAA/BSEE/EPA/API/IPIECA/COAST GUARD
Place: Savannah, USA
Date: 2014

Name: ***Workshop: 8-Hour OSHA/RCRA Hazardous Materials & Waste Safety Annual Refresher (HAZPOWER)***
Institution: Clean Gulf/Texas A&M
Place: New Orleans, USA
Date: 2013

Name: ***Incident Command System – ICS 300***
Institution: National Incident Management System, Shell
Place: Ciudad de México, México
Date: 2013

Name: ***Workshop: Introduction to GIS & GPS Applications for Pollution Modeling***
Institution: Clean Gulf/Texas A&M
Place: New Orleans, USA
Date: 2012

Name: ***Workshop: Oiled Wildlife Response***
Institution: Clean Gulf/The Wildlife Center of Texas
Place: New Orleans, USA
Date: 2012

Name: ***Slow water and Fast water Booming techniques***
Institution: IOSC/NOAA
Place: Portland, USA
Date: 2011

Name: ***Oil Spill Response – A technical and Strategic Overview***
Institution: IOSC/OIL SPILL RESPONSE
Place: Portland, USA

Date: 2011

Name: ***Operational visit to OSR facilities in the United Kingdom***

Institution: OIL SPILL RESPONSE

Place: Southampton, England

Date: 2009

Name: ***Operational considerations in the use of oil spill dispersants***

Institution: OIL SPILL RESPONSE/ITOPF

Place: Marseille, France

Date: 2009

Name: ***Advanced Oil Spill Response***

Institution: IOSC/ITOPF

Place: Savannah, USA

Date: 2008

Name: ***Evaluating Environmental Tradeoffs in Spill Response and Planning***

Institution: IOSC/NOAA

Place: Savannah, USA

Date: 2008

PRESENTATIONS – CONFERENCES – INSTRUCTOR (last 10 years)

Between 2012-2022 has had multiple presentations as a speaker invited in relation to environmental issues about pollution control in all countries of Central America, the Caribbean Islands, as well South America. He has also technical presentations in Clean Gulf and IOSC between other organizations (USA).

September 2022 – Speaker at the Conference on the topic “IMO Response to Incidents with HNS in the Marine-Port Environment” – XVII International Maritime and Port Forum – International ISPS Network Mexico – Veracruz, Mexico

August 2022 - Course Instructor about Oil Spill Control – IMO Model OPRC Level I - Operational – First Responders - Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) – Empresa Marterra – Tampico - México

July 2022 - Course Instructor about Oil Spill Control – IMO Model OPRC Level 0 Oil Spill Introduction – Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) – ARPA (Panamanian Shipowners Association) – Isla de Taboga – Panamá

July 2022 – Speaker at the Conference on the topic “Response to Spills on the Island of Taboga: The Problem and the Solutions”– ARPA (Panamanian Shipowners Association and Taboga Municipality – Isla de Taboga, Panamá.

July 2022 - Speaker at the Conference on the topic “Prevention and Response to Oil Spills in the Bay of Panama”- ARPA (Panamanian Shipowners Association and Maritime University of Panama (UMIP) – Ciudad de Panamá, Panamá.

June 2022 – Instructor on the topic "Experiences in Prevention and Response to Spill Control Incidents: Lessons Learned for Operational Personnel"– Empresa Marterra – Tampico, México.

June 2022 – Speaker at the Inter-American Exhibition of Petroleum Technology (EXITEP) in the Safety and Environment Section in the Maritime and Petroleum Industry: Lessons Learned for OSROs and Terminals in Mexico with the Response to the Level III Oil Spill Incident at the Port Terminal of La Pampilla Refinery (Peru – January 2022) – Gobierno Estado Tamaulipas – Grupo Comunicador Alba – Tampico, México.

May 2022 – Speaker at the 10° ORDINARY MEETING OF THE RAC/REMPEITC-Caribe STEERING COMMITTEE - "A Worst Case Scenario in Latin America: The Peruvian Oil Spill Case – Mare Doricum Tanker & La Pampilla Refinery – January – March 2022" - IMO/RAC-REMPEITC–Caribe - Willemstad, Curacao

September 2021 - Course Instructor about HNS Spill Control – IMO Model – OPRC-HNS – Operational Level for First Responders – <https://www.imo.org/en/OurWork/Environment/Pages/IMO-OPRC-Model-Courses.aspx> - OPCH and Fire Department - Puerto Cortés, Honduras.

September 2021 – Drill Director for Deployment of Equipment for Oil Spill Control – General Directorate of the Merchant Navy –OSRO OPCH – Puerto Henecán – Golfo de Fonseca, Honduras. <https://marinamercante.gob.hn/2021/09/18/primer-curso-y-ejercicio-de-entrenamientosobre-preparacion-y-respuesta-ante-derrames-de-hidrocarburos-en-el-golfo-de-fonseca-honduras/>

September 2021 - Course Instructor about Oil Spill Control – IMO Model OPRC Level I - Operational – First Responders – Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) – General Directorate of the Merchant Navy – San Lorenzo, Golfo de Fonseca, República de Honduras

July 2021 – Course Instructor about HNS Spill Control – IMO Model – OPRC-HNS – Operational Level for First Responders – <https://www.imo.org/en/OurWork/Environment/Pages/IMO-OPRC-Model-Courses.aspx> - General Directorate of the Merchant Navy - Puerto Cortés, Honduras.

July 2021 – Drill Director of Incident with HNS in Port Areas – General Directorate of the Merchant Navy– Technical Committee NCP Honduras (DGMM – MiAmbiente – COPECO) – OSRO OPCH – Puerto Cortés, Honduras. <https://marinamercante.gob.hn/2021/07/19/ejercicio-de-control-de-derrames-por-incidente-con-sustancias-nocivas-potencialmente-peligrosas-en-zonas-portuarias-puerto-cortes-13-07-21/>

March 2020 – Drill Director for Deployment of Equipment for Oil Spill Control – General Directorate of the Merchant Navy – OSRO OPCH – Roatán, Honduras.

March 2020 - Speaker at the Introductory Workshop on Fundamentals of Offshore Oil Exploration and Production and Related Activities in Honduras – Secretary of Energy of Honduras – General Directorate of the Merchant Navy – Tegucigalpa, Honduras

March 2020 - Course Instructor about Oil Spill Control – IMO Model OPRC Level I - Operational – First Responders – Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) – General Directorate of the Merchant Navy– Roatán, República de Honduras

December 2019 Instructor at the Introductory Workshop about Exploration & Exploitation Oil & Gas Offshore in Honduras – Secretaría de Energía de Honduras – Dirección General de la Marina Mercante de Honduras – San Pedro Sula, Honduras

December 2019 Director of the Drill for Oil Spill Control – Dirección General de la Marina Mercante – OSRO OPCH – Puerto Cortés, Honduras.

June 2019 Participate as Advisory Delegate of Honduras in the X Conference of Parties (COP) about the Protocol Concerning Specially Protected Areas and - Wildlife in the Wider Caribbean Region (SPAW or Biodiversity Protocol) – Presentation about the situation of the Sargassum and its impacts in the Honduras Coast - Dirección General de la Marina Mercante de Honduras – Roatán, Honduras

June 2019 Participate as Advisory Delegate of Honduras in the IV COP Meeting of Parties to the Protocol on Pollution from Land-Based Sources (LBS) and Activities in the Wider Caribbean Region - Dirección General de la Marina Mercante de Honduras – Roatán, Honduras

June 2019 Participate as Advisory Delegate of Honduras in the XVIII Intergubernamental Meeting (IGM) about the Action Plan on the Environmental Program of the Wider Caribbean Region and the XV Conference of Parties (COP) about the Protection and the Development of the Marine Environment in the Wider Caribbean Region – Presentation about “Oil and HNS Incidents and Environmental Impacts at the Honduras Coast” - Dirección General de la Marina Mercante de Honduras – Roatán, Honduras

May 2019 Instructor at the Workshop of the Update National Contingency Plan Of Honduras – Dirección General de la Marina Mercante de Honduras – Tegucigalpa, Honduras

November 2018 Course Instructor about Oil and HNS Spill Control – IMO Model OPRC Level I - Operational – First Responders - Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) – Maritime Authority (Dirección General de Marina Mercante – La Ceiba – Honduras

November 2018 Instructor at the Workshop about Contingency Plans for Ports – Maritime Authority (Dirección General de la Marina Mercante de Honduras) – Empresa Nacional Portuaria - Puerto Cortés, Honduras

November 2018 – Technical Coordinator and Speaker at the Workshop about Inland Oil Spills – Maritime Authority (Dirección General de la Marina Mercante de Honduras) – Municipality of Puerto Cortes - Honduras

October 2018 – Speaker at the First Oil & Gas Conference PETROPAN – Panama 2018 – Tema: “Safety and Environment Concens in the Offshore Deepwaters” – Panama City, Panama

October 2018 Instructor of the Course about Oil and HNS Spill Control - IMO Model Course OPRC Level III Strategic – Administrators and Seniors Managers - Updated

OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) – OPC - Maritime Authority of Panama – Panama City, Panama.

September 2018 Course Instructor about Oil and HNS Spill Control – IMO MODEL OPRC Level I - Operational – First Responders - Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*)
- Drills with Response containment and protection tactics - Oil recovery and clean-up tactics and equipment – Port of Cristobal, Panama – OPC Panamá – Corozal – Panama City

June 2018 Speaker at the NINETH ORDINARY MEETING OF THE RAC/REMPEITC-Caribe STEERING COMMITTEE - “Management of Environmental Emergencies in Central America: A Maritime and Coastal Glance” - OMI/RAC-REMPEITC–Caribe - Willemstad, Curacao

May 2018 Instructor at the Workshop about Incident Command System and National Contingency Plan in Honduras – Maritime Authority (Dirección General de la Marina Mercante de Honduras) – Municipalidad de Puerto Cortés, Honduras

April 2018 Instructor at the Workshop about Leadership and Management of Emergencies of Incidents in the Oil Industry - Empresa Petro Terminal de Panamá – Ciudad de David, Panamá

February 2018 Instructor of the Course about Oil and HNS Spill Control - IMO Model Course OPRC Level III Strategic – Administrators and Seniors Managers - Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) – Maritime Authority (Dirección General de Marina Mercante) – San Pedro Sula, Honduras.

February 2018 Instructor Workshop about Contingency Plans for Local Companies with Risks in the Management of Hydrocarbons and HNS – Maritime Authority (Dirección General de Marina Mercante) – Puerto Cortés, Honduras

November 2017 Speaker at APEDE about “*Oil & Gas Offshore Deepwater Exploration in Panama: Status and Perspectives*” – Asociación Panameña de Ejecutivos de Empresas (APEDE) – Ciudad de Panamá, Panamá.

November 2017 Course Instructor about Oil and HNS Spill Control – IMO MODEL OPRC Level I - Operational – First Responders - Updated OPRC Model Training Courses from *IMO PPR 4/21/Add.2 and Add.3 – 14.10.2016*) - Drills with Response containment and protection tactics - Oil recovery and clean-up tactics and equipment – Maritime Authority (Dirección General de Marina Mercante) – Puerto Cortés, Honduras.

July 2017 Speaker about “Management of Environmental Emergencies in Central America & Caribbean: A Port and Coastal Glance” – REPICA XXXIX – COCATRAM – Belize City, Belize.

July 2017 Speaker about “Needs and Potential of OSROs (*Oil Spill Removal Organization*) in the region: A profesional visión for the third decade of the XXI Century” – Grupo OPC – Sercotel – Ciudad de Panamá, Panamá.

July 2017 Technical Coordinator of the Workshop about Oil & Gas Offshore Exploration in Panama – Speaker about: “Introduction of the Oil & Gas Offshore Exploration in Deepwaters” y “Health, Safety and Environment in Offshore Deepwaters” - IMC – Country Inn – Ciudad de Panamá, Panamá.

March 2017 Course Instructor about Inland Oil Spill Response – Operational – First Responders - PETROPAR - Centro de Armadores Fluviales y Marítimos del Paraguay – Asunción, Paraguay.

2016 Instructor Oil Spill Control Course IMO Model OPRC Level I - Operational – First Responders – Updated OPRC Model Training Courses from November 2015 (PPR 3/17) – VT Shipping – Ciudad de Panamá y Ciudad de Colón, Panamá.

2016 Instructor of two Courses about Oil and HNS Spill Control – IMO Level I Operational Staff and First Responders and IMO Level II Supervisors and On Scene Commanders – Drills with Response containment and protection tactics - Oil recovery and clean-up tactics and equipment – Updated OPRC Model Training Courses from November 2015 (PPR 3/17) – OPC Panama – Ciudad de Panamá y Ciudad de Colón, Panama.

2016 Speaker about “The National Contingency Plan for Oil Spills and HNS in the Mexican Maritime Zones” – Marterra – Profepa – Club de Industriales – Tampico, Mexico.

2016 Speaker for the Association of Oil Companies in El Salvador about: “Prevention and Response of Incidents for Oil Spills: Operational Centers for the Response” – PUMA Energy-Cenergica-Chevron – San Salvador, El Salvador.

2016 Instructor of two Courses about Oil and HNS Spill Control – IMO Level I Operational Staff and First Responders and IMO Level II Supervisors and On Scene Commanders – Drills with Response containment and protection tactics - Oil recovery and clean-up tactics and equipment – Maritime Authority (Dirección General de Marina Mercante) and OPC Honduras – Puerto Cortés, Honduras.

2016 Speaker at the EIGHTH ORDINARY MEETING OF THE RAC/REMPEITC-Caribe STEERING COMMITTEE - “The Progress of the Offshore activity and the Safety & Environmental requirements for Central America” – Resume: stressing that prevention, preparedness, and response for offshore activities needs to be advanced in the region. OMI/RAC-REMPEITC–Caribe - Willemstad, Curacao

2016 Course Instructor about Inland Oil Spill Response – Operational – First Responders and Supervisors – Drills with Response containment and protection tactics - Oil recovery and clean-up tactics and equipment – Centro de Armadores Fluviales y Marítimos del Paraguay – Asunción, Paraguay.
<http://marconsult.com.pa/index.php/noticias/item/355-curso-control-de-derrames-fluviales-de-hidrocarburos-y-otras-sustancias-nocivas-o-peligrosas>

2015 Speaker about: “Prevention and Control in Inland Oil Spill: Needs vs. Solutions” – Centro Armadores Fluviales y Marítimos (CAFYM) – Asunción, Paraguay

2015 Instructor of the Manager Workshop about “Lessons Learned 8 years after the Chiriquí Grande Incident” – PTP – David – Panamá

2015 Course Instructor about Oil Spill Control – Operational – First Responders – Drills with Response containment and protection tactics - Oil recovery and clean-up tactics and equipment – Incident Commander – Petro Terminal Panamá (PTP) – Chiriquí Grande, Panamá.

2015 Course Instructor about Oil Spill Control – Operational – First Responders – Drills with Response containment and protection tactics - Oil recovery and clean-up tactics and equipment – Incident Commander – Petro Terminal Panamá (PTP) – Puerto Armuelles, Panamá.

2015 Course Instructor about Oil and HNS Spill Control - Operational Staff and First Responders - Oil & Gas Offshore Exploration Scenarios – Drill with response containment and protection tactics - PETROFAC/MARTERRA - Tampico, México

2015 Speaker at the XXXII REPICA – Ports Authorities Meeting for Central America - “New ports perspectives and for the regional maritime traffic: The offshore advance and its safety and environmental requirements” – Cocatram - Ciudad de Panamá, Panamá

2014 Speaker at the Panamá Bunkering Forum 2014 - “Oil and HNS Spill Prevention: Trends and challenges in Panama” – Ciudad de Panamá, Panamá

2014 Speaker at the “Think Tank” at the Ministry of Foreign Affairs - “Maritimes Challenges in Honduras: Continental Shelf Options and the Development in the Deepwater Offshore” – Tegucigalpa, Honduras

2014 Speaker at the Workshop about the Offshore Activities in Nicaragua - “Introduction to the Deepwater Offshore; Exploration Engineering; Meteocean; Logistics and Services; Safety and Environment in Deepwater Offshore” – Cocatram - Managua, Nicaragua

2014 Speaker at the VI Internacional Conference of Security and Defence in República Dominicana – “New trends in Safety Offshore concerning oil spills: Remarkable Aspects for the Caribbean region” - FUNGLODE – Santo Domingo, República Dominicana

2014 Technical Coordinator and Instructor of the Workshop about “Oil & Gas Deepwaters Offshore Activities” – Presentations about Introduction to the Offshore Activities in Latin America and Uruguay & Safety and Environment in Deepwater Offshore - Organization: Schandy-Brasco – Montevideo – Uruguay

2014 Speaker at the IOSC 2014 - “New Challenge in Latin American & Caribbean Oil Spill Control: Offshore Prevention and Response after the Deepwater Horizon Milestone” – Session 1: “Latin American and Caribbean Issues” - Savannah, USA

2014 Speaker about: “The Deepwater Horizon Case and the Environmental Gulf Disaster: Mexican Consequences” – Instituto Tecnológico de la Ciudad de Madero - Marterra – Tampico, México

2013 Instructor at the Course about “Oil Pollution Control in Port Areas” – National Port Commission - Ciudad de Guatemala-Puerto Quetzal, Guatemala

2013 Course Instructor in the IMO Model Course about “Oil Pollution Training: Preparedness and Response” for Operational Staff – OPRC Level One (First Responder Level) - PETROFAC/MARTERRA - Tampico, México

2013 Speaker at the Professional Conference of the Navy about “Challenges in Offshore Operations” with the subject: “Safety and Environment: the pending task” – Club Naval – Montevideo, Uruguay

2013 Speaker at the VII Jornadas Rioplatenses of Maritime Law about: “Safety and Offshore. Recent Trends” – Maritime Law Uruguayan Association – Montevideo, Uruguay

2013 Speaker at the Uruguayan Maritime Ligue about: “The Offshore Challenge and the Safety in Latin America” – Liga Marítima – Montevideo, Uruguay

2013 Speaker at the CEDIP University about: “The Deepwater Horizon Case and consequences for Mexico” – Marterra – Tampico, México

2012 Speaker in the 22th Annual Clean Gulf - International Efforts & Initiatives: “Control and Prevention of Oil Spills, Deepwater Horizon event impact in Latin America” – New Orleans, USA.

2012 Invited Speaker with the PEMEX Staff of the Refinery of Tampico “Francisco Madero”, Mexico. Subject: “Between Ecology and Engineering: the security and engineering concerning in the disaster of the Deepwater Horizon. Lessons learned to Mexico” - Tampico, Mexico.

2012 Invited Speaker at the Maritime Chamber of Panama. Subject: “Between Ecology and Engineering: the management of the oil company in the disaster of the Deepwater Horizon at the Gulf of Mexico” - Maritime Chamber of Panama – Ciudad de Panama, Panama.

2012 Speaker at the III Conference about Environmental and Port Management about “Environmental Port Protection: Paradigms and Facts”. – May 2012, CIP/OEA - ANP, Montevideo, Uruguay.

PUBLICATIONS

In the last years, he has published many articles in specialized magazines. His last specialized papers are:

- Mesoamerican Notebooks - "Internalization of Projects in Mesoamerica Case Study: Risks to Navigation for Short Distance Shipping in the Gulf of Honduras", Mesoamerica Project, December 2020, San Salvador - <http://www.proyectomesoamerica.org/images/Documentos-de-soporte-CT-CAF-DEPM/cuadernoTMCD/CUADERNOS-MESOAMERICANOS-2020 - Cuaderno-TMCD-3a.pdf>
- Series of 4 English Articles about the “Lessons Learned in Latin America: Forty Years of the Metula Incident” – ISCO Newsletters: N° 451 Set. 2014; N° 452 Oct. 2014; N° 453 Oct. 2014; N°454 Oct. 2014 – Web: <http://www.spillcontrol.org/>
- IOSC 2014 (Savannah, Georgia) – Paper for the Session 1: Latin American & Caribbean Issues – “New challenge in Latin American and Caribbean Oil Spill Control: *Offshore Prevention and Response after the DWH Milestone*”, May 2014, US – Web: <http://ioscproceedings.org/action/doSearch?AllField=sagrera>
- Revista Naval – “Seguridad y Medio Ambiente Offshore en Uruguay: Tarea Pendiente”, Club Naval, Abril 2014, Montevideo, Uruguay – Web: www.revista-naval.com.uy

- Revista Rumbo al Mar – “El desafío del Offshore y la Seguridad en América Latina”, Liga Marítima Uruguaya Año 27 – N° 25 – Diciembre 2013, Montevideo, Uruguay.
- Series of 5 Articles about “Control and Prevention of Oil Spills: Some Outlines of a Reaction in Latin America on the DWH Incident” – ISCO Newsletters: N° 406 Oct. 2013; N° 407 Oct. 2013; N° 408 Oct. 2013; N° 409 Nov. 2013; N° 410 Nov. 2013. - Web: <http://www.spillcontrol.org/>
- Interamerican Ports Commission Magazine (CIP/OEA) 2012 – “Air Pollution and Ports: towards new paradigms” (Spanish-English). Web: <http://es.calameo.com/read/000575046ee845ef0e97b>
- Interamerican Ports Commission Magazine (CIP/OEA) 2009 – “Contamination and Oil Spill Control in Port Areas: Trends, Myths and Facts.” (Spanish-English). Web: <http://es.calameo.com/read/00003879961230af843c1>
- Clean Gulf 2009 (New Orleans, USA) (English) - “International Experiences: Contingency Planning and Operations in the Event of a Tier 2 Oil Spill in the Coast of the Caribbean Sea.”

Language Skills: (Mark 1 to 5 for competence – Mark 5 is top grade, Mark 1 is bottom grade)

Language	Reading	Speaking	Writing
Spanish	<i>mother tongue</i>		
English	5	4	3
Portuguese	5	4	3
French	5	5	4