

**CURRICULUM VITAE**  
**Lic. Miguel A. REY SOSA**

**PERSONAL DATA**

Full name: REY SOSA, Miguel Angel

Place and date of birth: Montevideo - Uruguay, 14.07.1953

Work address: Department of Fisheries Biology, National Directorate of Aquatic Resources (DINARA), Montevideo, Uruguay.

**I. TITLE**

Degree in Biology

University of Uruguay, School of Humanities and Sciences (Montevideo - Uruguay) 1979.

**II. CHARGES**

**Current:**

Acting Director of the Technical Division of the National Directorate of Aquatic Resources (DINARA). Surrogate office since 16/05 / 2008.

Head of the Department of Fisheries Biology, National Directorate of Aquatic Resources (DINARA).

Uruguayan delegate to the Joint Technical Commission for Maritime Front (CTMFM) since 14/07/2005.

**Held:**

Advisor of the Uruguayan delegation to the Joint Technical Commission Maritime Front (CTMFM) until June 2005.

Acting Director of the Technical Division of DINARA (December 2002)

Director of Fisheries Research INAPE Programme - UNDP (URU/92/003) until 31/12/2000 (end of project).

Scientific Coordinator of INAPE Fisheries Research Program - UNDP (URU/92/003) since October 15, 1993.

Head of Resources Assessment in the National Institute of Fisheries (INAPE) since June 1992.

INAPE - Scientific Coordinator of the preparation phase of the Plan of Fishery Research URU / 92/003/A/01/99 (1992).

Sub - Acting Director of the Division of Fisheries Biology (INAPE.), Ministry of Livestock, Agriculture and Fisheries (M.G.A.P). (1990-1992).

Director of Demersal Resources in the National Institute of Fisheries (INAPE). (1983-1990).

Chief of the Section of Coastal Demersal Resources, National Institute of Fisheries (INAPE). (1981 1983).

Assistant of the Section of Offshore Demersal Resources of the National Institute of Fisheries (INAPE). (1979 1981).

Assistant Professor (Grade 3), Oceanography Department, Faculty of Humanities and Sciences, University of the Republic. (1985 1987).

Assistant (Grade 2), Department of Oceanography the Faculty of Humanities and Sciences, University of the Republic. (1983 1985).

Assistant (Grade 1) Oceanography Department, Faculty of Humanities and Sciences at the University of the Republic. (1980 1982).

#### **Honoraries:**

Honorary Collaborator in the Division of Fisheries Biology, National Institute of Fisheries (INAPE). (1976 1979).

Honorary Collaborator of the Department of Invertebrate Zoology, Faculty of Humanities and Sciences, University of the Republic. (1977 1979).

### **III. AREAS OF WORK AND RESEARCH**

Development and monitoring of projects aimed at evaluating and obtaining results that allow the management of fisheries resources.

Monitoring of statistical procedures and data processing for analysis of population dynamics.

Development and application of measures for the protection and management of demersal resources in the Common Fishing Zone Argentine-Uruguayan.

Campaign planning and monitoring evaluation of demersal resources in the Common Fishing Zone Argentine-Uruguayan.

#### **IV. SCHOLARSHIPS AND COURSES**

F.A.O. - DANIDA, for the "Regional Training Course on Evaluation of Fishery Resources "at the Instituto del Mar del Peru (IMARPE). Lima - Peru, 14<sup>th</sup> to 31<sup>st</sup> October 1996.

MINISTRY OF FOREIGN AFFAIRS OF THE ORIENTAL REPUBLIC OF URUGUAY, on official mission to get results with a high degree of reliability of the state of resources hake, croaker, weakfish and hawkfish. Fisheries Lowestoft Laboratory. United Kingdom of Great Britain and Northern Ireland. May 1995.

MINISTRY OF LIVESTOCK AGRICULTURE AND FISHERIES, to take the course on "Promotion of senior managers" at the National Civil Service program for officials from the ladders "A" (Professional Universitario) and "B" (Technical) with a vocation for promotion to positions of Deputy Director of Division and Director of Division or equivalent ", December 1993. Montevideo, Uruguay. Approved with Very Good.

British Embassy to do an internship on research of discards and closed areas on fish stocks. Fisheries Laboratory Lowestoft. Suffolk - England, 1991.

F.A.O. - DANIDA, for the "Regional Training Course on Evaluation of Fishery Resources" at the Universidad de Oriente, Oceanographic Institute of Venezuela. Cumana - Venezuela, 1989.

OAS, to conduct a research journey on "Fishery Resources Administration" at the Centre for Research and Advanced Studies. National Polytechnic Institute Merida. Yucatan - Mexico, 1987.

UNESCO - FAO INAPE, for the course on "Selected Topics in Modern Fishing Science". Centre for Research and Advanced Studies. National Polytechnic Institute Merida. Yucatan - Mexico, 1985.

FAO to conduct field studies on Population Dynamics of *Merluccius gayi peruanus*, the Marine Institute of Peru. Lima-Peru, 1981.

FAO, to entitle studies on Training in Population Dynamics of Fish, under the supervision of Dr. David Armstrong, at the Marine Laboratory. Aberdeen - Scotland, 1981.

## **V. CONSULTANCIES**

FAO-DANIDA, Instructor of the Course - Workshop on "Evaluation of Fishery Resources" held at the Department of Marine Sciences of the Universidad Arturo Prat. Iquique - Chile, 1996.

F.A.O. - DANIDA, Instructor in the Regional Course "Evaluation of Fishery Resources". CEPENE Tamandaré. Pernambuco - Brazil, 1995.

Joint Technical Commission of the Maritime Front (CTMFM), Scientific Advisor of the Uruguayan delegation. Montevideo - Uruguay, since 1993.

ECLAC (Economic Commission for Latin America) to join the Regional Group of Experts on Fishing on High Seas. Santiago de Chile, 25-26 November 1993.

IDRC (International Research Center for Development). Coordinator of the Institution (INAPE) in the planning phase of the project ECO - PLATA. Montevideo-Uruguay, 1993.

F.A.O. - DANIDA, Instructor in the Regional Course "Evaluation of Fishery Resources". CEPENE Tamandaré. Pernambuco - Brazil 1991.

F.A.O. - DANIDA, Instructor in Training national technicians in the use of computing for fishery resource assessment, the National Fisheries Institute. Montevideo - Uruguay, 1991.

F.A.O. - DANIDA, Instructor at the National Training Course of Evaluation of Fishery Resources. Ministry of Agriculture and Livestock. San Lorenzo - Paraguay, 1991.

F.A.O. - DANIDA, Instructor at the National Training Course on Assessment of Fishery Resources, National Fisheries Institute. Montevideo - Uruguay, 1990.

UNITED NATIONS, hake fisheries consultant at Peru Marine Institute, in the framework of the Programme of Technical Cooperation between the Republica Oriental del Uruguay and the Republic of Peru under the Project URU/87/017 "technical cooperation among Developing countries" (TCDC) 1988.

## **VI. VISITS TO STUDY CENTRES**

Fisheries Research Center Yucalpeten to dictate a workshop course on use of electronic spreadsheet on computers PC. Mexico, 1987.

Field Station at Lock Ewe (Marine Laboratory), to monitor pollution studies in fish and shellfish. Scotland, 1981.

Fisheries Laboratory, Lowestoft, for studies on Cohort Analysis under supervision of Dr. John Pope. England, 1981.

## VII. PUBLICATIONS

### Posted:

Rey M. Uruguayan trawler fleet: Analysis of Targeted Fisheries 84 pp. 28/Oct./2003, DINARA. ISBN 9974 - 563 - 24 - 0 ([www.dinara.gub.uy](http://www.dinara.gub.uy))

Arena G. and M. Rey. Maximum sustainable catch of Corvina (*Micropogonias furnieri*) exploited in the Rio de la Plata and the Common Fishing Zone. (Period 1986-2002). 40 pp. July 2003. DINARA. ISBN 9974 - 563 - 22 - 4 ([www.dinara.gub.uy](http://www.dinara.gub.uy))

Rey M. Basis for awarding fishing quotas. 109 pp. June 2003. DINARA, ISBN 9974 - 563 - 20 - 8 ([www.dinara.gub.uy](http://www.dinara.gub.uy))

Rey M., G. Arena. Potential for releases of some species caught in this fishery targeting hake, when using DEJUPA. 11 dpp. January 2002. ([www.dinara.gub.uy](http://www.dinara.gub.uy))

Rey M., G. Arena. Instructional Booklet for controls on fishing. Ministry of Agriculture and Fisheries, National Directorate of Aquatic Resources. 51pp. July 2001. ([www.dinara.gub.uy](http://www.dinara.gub.uy))

Rey M., E. Chiessa, S. Bezzi et al. 2001. Results of the Joint Campaign "Aldebaran" Cr. 2001 - 01 to delineate areas of concentration of juvenile hake (*Merluccius hubbsi*). Fall 2001. Com. Téc Mix. Fr. Mar. Circular 1 / 01. 11 pp. ([www.ctmfm.org.uy](http://www.ctmfm.org.uy))

Arena G. and M. Rey. Maximum sustainable catch of Corvina (*Micropogonias furnieri*) worked in the Rio de la Plata and the Common Fishing Zone (period 1986-1997). In Rey M., G. Arena 2000. Surplus Production Models for resources Croaker and Weakfish. URU/92/003 Project. ISBN 9974 - 563 - 15 - 1. 150 pp. ([www.dinara.gub.uy](http://www.dinara.gub.uy))

Rey M., S. Bezzi et al. 2000. Results of the Joint Campaign "Aldebaran" Cr 2002 to delineate

areas of concentration of juvenile hake (*Merluccius hubbsi*). Spring 2000. Com. Téc Mix. Fr. Mar. Circular 2 / 00. 12 pp. ([www.ctmfm.org.uy](http://www.ctmfm.org.uy))

Rey M., S. Bezzi et al. 2000. Results of the Joint Campaign "Aldebaran" Cr 2001 to delineate areas of concentration of juvenile hake (*Merluccius hubbsi*). Fall 2000. Com. Téc Mix. Fr. Mar. Circular 1 / 00. 19pp. ([www.ctmfm.org.uy](http://www.ctmfm.org.uy))

Arena G. and M. Rey. 2000. Report on fisheries management by quotas. Information INAPE Téc 49, 12pp.

Rey M., M. I. E. Lorenzo Páez. 2000. Indirect Calculation of Coastal Discards. INAPE Technical report 48, 49pp. ISBN 9974-563-12-7. ([www.dinara.gub.uy](http://www.dinara.gub.uy))

Rey M. and G. Arena. 1999. Assessing the importance of closed areas in fisheries management of the resource hake (*Merluccius hubbsi*). In Rey M., G. Arena 1999. Hake (*Merluccius hubbsi*) Studies in the Common Fishing Zone Argentine – Uruguayan under the Fisheries Research Plan. URU/92/003 Project. ISBN 9974 - 563 - 02 - X. 211pp. ([www.dinara.gub.uy](http://www.dinara.gub.uy)).

Rey M., S. Bezzi, J. Oribe and G. Verazay. 1996. Closed areas to protect juvenile hake (*Merluccius hubbsi*) in the Common Fishing Zone, until December 1993. Com. Téc Mix. Fr. Mar. Vol 16, Section A: 7-27 (1996).

Ehrhardt, N. and M. Rey 1996. Calculation of discards of juveniles in the fishery for hake (*Merluccius hubbsi*) in the western South Atlantic. Com. Téc Mix. Fr. Mar. Vol 16, Section A: 29-37.

Rey M. and S. Bezzi. 1996. Closed areas to protect the hake resource in the Common Fishing Zone Argentine - Uruguayan.

Part I: Analysis of data from Spring 1995 campaign for the detection and delineation of areas of concentration of hake and some species of bycatch.

Part II.: Results obtained in the combined summer campaign for the demarcation of areas of concentration of juvenile hake in the Common Fishing Zone. Summer 1996. Com. Téc Mix. Fr. Mar. Circular N ° 1 / 96: 1-37.

Rey M. and S. Bezzi. 1994. Results obtained during the campaign for the detection and delineation of areas of concentration of juvenile hake (*Merluc hubbsi*) (Fall 1994). Com. Téc Mix. Fr. Mar. Circular No. 7: 1-19.

Rey M., J. Cascudo, P. Grunwaldt, G. Verazay and S. Bezzi. 1993. Analysis of some populations of by-catch on hake fishery. Distribution ranges, concentration and yields. Period

Fall 1986- Summer 1987. Com. Téc Mix. Fr. Mar. Circular No. 4: 1-13.

Rey, M. and S. Bezzi. 1993. Report on the results of the joint campaign to delimitate the closed area of juvenile hake (*Merluccius hubbsi*) (Fall 1993). Com. Téc Mix. Fr. Mar. Circular No. 5: 1-13.

Bezzi, S. and M. Rey. 1992. Report on the results of the joint survey for the assessment of hake (*Merluccius hubbsi*) during the spring of 1992. Com. Téc Mix. Fr. Mar. Circular No. 3: 1-13.

Defeo O., M. Rey and J. Cascudo. 1988. Estimates of stock for the resource yellow clam *Mesodesma mactroides* based on the analysis of Cohorts (Pope 1972). Publ. Com. Téc Mix. Fr. Mar. Vol 4: 41-54.

Rey M. and P. Grunwaldt. 1986. Assessment of Hake (*Merluccius hubbsi*) in the Common Fishing Zone Argentine – Uruguayan. Summer 1982. Publ. Com. Tec Mix. Fr. Mar. 1 (1): 121 134p.

Rey, M. and J. Cascudo. 1986. Relationship between parasitism and biological behavior on hake (*Merluccius hubbsi*). Publ. Com. Téc Mix. Fr. Mar. 1 (1): 240 251p.

Arena G., M. Rey and J. Cascudo 1985. Unconventional methodology for calculating the Z through a prolonged period, on a resource which is only partially accessible. Publ. Com. Tec Mix. Fr. Mar. vol 3: 51P 37.

Rey M., J. Cascudo and O. Defeo. 1985. Preliminary evaluation of a share resource based on the analysis of cohorts (Pope 1972) in the Common Fishing Zone Argentine – Uruguayan. Publ. Com. Tec Mix. Fr. Mar. vol 3: 57p 53.

Rey M. and M. Meneses. 1985 A new species of Monogenea parasite of "Saborin" *Seriolela punctata* Haedrich, 1967. Contribution Dep. Oceanography. (Faculty of Humanities and Sciences). Montevideo, 2 (5): 107 114.

Rey M. and A. Alonso. 1985. New species of Monogenea Dicliphoridae, parasiting the gill chambers of *Umbrina canosai* Berg, 1895. Contrib. Depto. Oceanogr. (Faculty of Humanities and Sciences) Montevideo, 2 (5): – 99 106.

Fernández A., W. Norbis and M. Rey 1983. Detection of an area of reproduction of "Papamosca" *Cheylodactylus bergi* (Norman, 1937) in the Common Fishing Zone Argentine – Uruguayan. Res Com. III Jorn. C. Nat. : 93 95 Montevideo.

Rey M. and J. Cascudo. 1983. Preliminary study on indicators of ecto-parasitism in hake, *Merluccius hubbsi* Marini, 1933. (Campaign Spring 1981). Res Com. III Jorn. C. Nat: 101 102 Montevideo.

Arena G., A. Abella, N. Moratorio and M. Rey. 1980 – Assessment of the Demersal Offshore Resources of the Common Fishing Zone Argentine – Uruguayan 1978. INAPE. Inf. tech. 15, 91 pp.

Arena G., A. Abella, N. Moratorio, M. Rey and J. Cascudo. 1980. Assessment of the Demersal Offshore Resources of the Common Fishing Zone Argentine – Uruguayan 1979. INAPE. Inf. tech. 16, 60 pp.

Ehrhardt, N., G. Arena, A. Abella, C. Ríos, N. Moratorio and M. Rey. 1979. Preliminary Evaluation of Demersal Resources in the Common Fishing Area Argentine – Uruguayan 1977. INAPE. Inf. tech. 13, 186 pp.

#### **Reports:**

Analysis on size data and captures in samples obtained from landing samples of the fleet for hake (*Merluccius hubbsi*) in the Common Fishing Area Argentine – Uruguayan. (CTMFM).

Comparative study of the abundance and availability of population of Rouget (*Helicolenus dactilopterus*) in the Common Fishing Zone Argentine – Uruguayan. Period 1986-1988. (CTMFM).

Planning and development of joint campaigns for the evaluation of the resource Hake (*Merluccius hubbsi*) and its accompanying fauna in the Common Fishing Zone. Period Fall 1986 – Summer 1987. (CTMFM).

*Tatiana polipriensis* n.g. and n. sp. (Monogenea: Capsalidae) from *Polyprion americanus* (Schneider, 1801) Jordan, 1885 in the Common Fishing Zone Argentine – Uruguayan, South Atlantic. Systematic Parasitology.

*Choricotyle micromesistii* (Monogenea: Diclidophoridae) parasite of the "Polaca" *Micromesistius australis*. Systematic Parasitology.

Studies of possible relationships between total mortality values (Z) of hake (*Merluccius hubbsi*) founded by the B / I "Lmatra" and "Cruz del Sur" and vessels of the commercial Uruguayan fleet (Period 1976 1984). (CTMFM).

Study of hake discards produced by the Uruguayan fishing fleet in the Common Fishing Zone Argentine – Uruguayan. (Period November-December 1988). (INAPE).

Annual Reports of the Fisheries Research Plan INAPE - UNDP, Project URU 92/003, Objective N° 1,2,3,4,6,7. 1995.

Semi-annual reports of INAPE Fisheries Research Plan - UNDP, Project URU 92/003, Objective N° 1,2,3,4,6,7. 1994.

Report on the results of the joint campaign to define the closed area of juvenile hake (*Merluccius hubbsi*) Fall 1993. CTMFM. Montevideo - Uruguay. 04/93.

Report on results of sampling conducted between Montevideo and Punta del Este in the coastal strip of 6 miles (2nd Stage). INAPE. Montevideo - Uruguay. 02/93.

Report on the evaluation of the maximum sustainable catch of Croaker and Weakfish in the ZCPAU. INAPE. Montevideo - Uruguay. 02/93.

Report of the income distribution and spatio - temporal Rouget (*Helicolenus dactylopterus lahillei*) and its interface with the same parameters of the population in the ZCPAU Hake. INAPE. Montevideo - Uruguay. 01/93.

Report on results of sampling conducted between Montevideo and Punta del Este in the 6-mile coastal strip (Stage 1). INAPE. Montevideo - Uruguay. 08/92.

Report on the feasibility of moving part of the coastal fishing fleet in Montevideo harbor to the port of La Paloma. INAPE. Montevideo - Uruguay. 02/92.

Report on analysis of resources Croaker and Weakfish in the Uruguayan coast. INAPE. Montevideo - Uruguay. 02/92

Report on the campaigns for the delineation and evaluation of areas of concentration of juvenile hake in the ZCPAU. INAPE. Montevideo - Uruguay. 10/91.

Report on activities carried out in the Regional Training Course on Evaluation of Fishery Resources in the University of Oriente. Oceanographic Institute of Venezuela. Cumana - Venezuela. (16 / 10 / 89 - 10/11/1989).

Report on activities carried out during the consultancy held at the Instituto del Mar del Peru, under the Technical Cooperation Programme between the Republic of Uruguay and the

Republic of Peru. Callao - Peru. (04/01/1988 to 04/30/1988).

Report on research visit to "Administration of Fisheries Resources." Research and Advanced Studies Center. National Polytechnic Institute Mérida. Yucatan - Mexico. (06.01.1987 - 31 / 09/87).

Report on the population dynamics training at the Marine Laboratory. Aberdeen - Scotland. (10/04/1981 to 12/21/1981).

**Reports to the General Directorate of DINARA for making decisions:**

- Operational and extractive mode of Croaker by the Uruguayan fishing fleet. 02/04/2009
- Analysis of the capture of some fishing units operating on coastal resources. 07/07/2006
- Closure of Croaker fishery in 2005. 16/06/2006
- Analysis of the information on the verification campaign hake closed area autumn 2006. 30/05/2006
- Catch quotas to be allocated to the Uruguayan trawler fleet aimed at Croaker. 12/08/2003
- Diagnosis of hake resource in the Common Fishing Zone Argentine – Uruguayan. 11/11/2002
- Analysis of the activity of fishing units on the different resources. 07/11/2002
- Bases for awarding fishing quotas. 13/09/2002
- Current state of the hake resource. 03/04/2002
- Considerations of Uruguayan researchers regarding the management of the hake resource. 31/03/2002
- Maximum sustainable catches (CMS) and Total Allowable Catch (TAC) of some Uruguayan fishery resources. 29/05/2001
- Uruguayan Fishing Fleet, target species and permits issued. 30/04/2001
- Report on Menhaden ("Lacha") mortality in the Uruguayan coastline. 13/04/2001

- Commercial species of Uruguay. 21/12/2000
- The fisheries sector in Uruguay. 15/05/2000
- Current status of fishery resources. 24/04/2000
- History of the fishery for hake (*Merluccius hubbsi*) in the Common Fishing Zone Argentine – Uruguayan. 29/12/1999

**Editor of the following publications:**

Rey M. 2000. Considerations on the incidental catch produced by the activity of the tuna fleet targeting large pelagic species. URU/92/003 Project. ISBN 9974-563-17-8. 60pp. (www.dinara.gub.uy)

Rey M. 2000. Nontraditional Fishery Resources: Mollusks, Crustaceans, Marine Benthic Fish. URU/92/003 Project. ISBN 9974-563-16-X. 104pp. (www.dinara.gub.uy)

Rey M., G. Arena. 2000. Surplus Production Models for resources Croaker and Weakfish. INAPE Fisheries Research Plan - UNDP Project URU/92/003. ISBN 9974 - 563 - 15 - 1. 150pp. (www.dinara.gub.uy)

Arena G., M. Rey. 2000. Capture of big pelagic fish (swordfish and tuna) in the Southwest Atlantic and its interaction with other populations. INAPE Fisheries Research Plan - UNDP Project URU/92/003. ISBN 9974 - 563 - 14 - 3. 96pp.

Rey M. 2000. Nontraditional Fishery Resources: Marine Benthic Molluscs. URU/92/003 Project. ISBN 9974-563-13-5. 157pp. (www.dinara.gub.uy)

Rey M., F. Amestoy 2000. Synopsis of the biology and ecology of the populations of fur seals and sea lions from Uruguay. Guidelines for management and administration. INAPE Fisheries Research Plan - UNDP URU/92/003. ISBN 9974-563-10-0. 117 pp.

Rey M., F. Amestoy, G. Arena 1999. Measures and Mechanisms for Resource Management of Coastal Lagoons on the Atlantic coast of Uruguay. (Laguna Jose Ignacio, Garzón, de Rocha and de Castillos. INAPE Fisheries Research Plan - UNDP URU/92/003. ISBN 9974-563-11-9. 165pp. (www.dinara.gub.uy)

Arena G., M. Rey. 1999. Studies on the Elasmobranchii in the Río de la Plata and the Common Fishing Zone Argentine – Uruguayan under the "Plan for Fisheries Research" Project

URU/92/003. ISBN 9974 - 563 - 05 - 4. 86pp. (www.dinara.gub.uy)

Rey M., G. Arena 1999. Hake (*Merluccius hubbsi*) Studies in the Common Fishing Zone Argentine – Uruguayan under the Fisheries Research Plan. URU/92/003 Project. ISBN 9974 - 563 - 02 - X. 211pp. (www.dinara.gub.uy)

### **VIII. OTHER PROFESSIONAL ACTIVITIES**

Member of the chondrichthyans Working Group of the Joint Technical Commission for Maritime Front (CTMFM), 2005.

Member of the anchovy Working Group of the Joint Technical Commission for Maritime Front (CTMFM), 2005.

Member of the Coastal Working Group of the Joint Technical Commission for Maritime Front (CTMFM), 2005.

Member of the Hake Working Group of the Joint Technical Commission for Maritime Front (CTMFM), 2005.

Member of the Multidisciplinary Working Group of experts on the topic of coastal fishery resources of the Joint Technical Commission Maritime Front (CTMFM), 2005.

Member of the Working Group of Integral Fisheries Information System of the Joint Technical Commission for Maritime Front (CTMFM), 1999.

A member of the roster of aspirants to work as expert (No. 06 636) from FAO, 1996.

Member of the Assessment Working Group Fisheries Joint Technical Commission of Maritime Front (CTMFM), 1992.

Member of the Working Group on Living Resources of the Joint Technical Commission for Maritime Front (CTMFM), 1992.

He joined the promotion board for the career ladder, INA – PE, 1989.

He joined the Court of Qualifications for the career ladder, INAPE, 1989.

He joined the Working Group Ad - hoc measures for the preservation of fishery resources in the Joint Technical Commission for Maritime Front (CTMFM), 1988.

He joined the Working Group joint campaigns and hake of the Common Fishing Zone Argentine – Uruguayan of the Joint Technical Commission of Maritime Front (CTMFM), 1985.

He joined the Working Group Argentine – Uruguayan for the evaluation of the demersal offshore resources of the Common Fishing Zone Argentine – Uruguayan. (CTMFM), 1985

He joined the Working Group Argentine – Uruguayan for the assessment of demersal coastal resources of the Common Fishing Zone Argentine – Uruguayan. (CTMFM), 1985.

He joined the Working Group Argentine – Uruguayan for standardization of the fishing power of the BIP "Dr. HOLMBERG" and "Cruz del Sur". (CTMFM), 1985.

He joined the Working Group 11 of the Joint Technical Commission for Maritime Front. (CTMFM), 1979.

#### **Commissions:**

For CTMFM, to develop the "Workshop on standardization of the indices of abundance of croaker and weakfish from the commercial fleet and research campaigns" Institute for Fisheries Research and Development INIDEP, Mar del Plata - Argentina. December 2009.

For CTMFM, to discuss the report "Evaluation of the ZCPAU Hake Resource" developed with the Hake Group and to make an executive summary of it, allowing both Delegations in CTMFM measures for administration and management. Institute for Fisheries Research and Development INIDEP, Mar del Plata - Argentina. December 2009.

For DINARA, as a member of the International Commission CCAMLR - URUGUAY to participate, on an official mission of the "XXVIII Meeting of the Commission for the Conservation of Antarctic Marine Living Resources", held in Hobart (Australia) from 23 October to November 7, 2009.

For CTMFM, to carry out the exchange of information for each country's hake resource, information regarding landings and obtained from research vessels of each country. This will be used in the Diagnosis of action requested by the CTMFM hake. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. August 2009.

For DINARA, representing the Competent Authority of the Party for the fish resources at the headquarters of the Administrative Commission of the River Uruguay (CARU) to evaluate the proposal submitted by CARU for the reconciliation of conservation rules and regulation of

fishing activity in the River Uruguay. CARU headquarters in the city of Paysandu, Oriental Republic of Uruguay. June 2009.

For CTMFM, to implement a common system of satellite monitoring of fishing fleets (VMS) in the area of the Treaty of Rio de la Plata and its Maritime Front. CTMFM headquarters, Montevideo, Oriental Republic of Uruguay. May 2009.

For CTMFM, to establish the type of information, the activity of fishing vessels and research of each country to be exchanged within the framework of the implementation of a joint database. This information will allow the derivation of summary indices of abundance for use in the settings of the models used in the Working Groups CTMFM. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. May 2009.

For CTMFM, to analyze the evolution of the catches of rays conducted by trawling and longline fleets of both countries. Based on historical catch records and biological aspects of the different species involved, a precautionary manner to suggest a value of total allowable catches for these species for the year 2007. Foreign Ministry Headquarters Argentina, Buenos Aires, Argentina. April 2008.

For CTMFM, to establish the schedule of activities that allows the execution of the program of marking and recapture of croaker in the short term. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. March 2008.

For CTMFM, for a proposed management measures Chondrichthyes in the Treaty area, to assess the possibility of a campaign of survival of these species and analyze the documents submitted by both parties on fishing areas and distribution of juveniles and adults of these species. Foreign Ministry Headquarters Argentina, Buenos Aires, Argentina. December 2007.

For CTMFM to diagnose the current state of the weakfish resource (*Cynoscion guatucupa*) and assessing the standards to apply to obtain a short-term recommended biological catch. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. November 2007

For CTMFM to discuss coastal fisheries conducted in the area of the Treaty in order to define a scheme of management of these resources to enable operative continuity in fleets throughout the year. CTMFM headquarters in Uruguay, Montevideo. November 2007.

For CTMFM to recommend measures for the protection of species of Chondrichthyes subject to a directed fishery and as bycatch in the Common Fishing Zone Argentine – Uruguayan. Foreign Ministry Headquarters Argentina, Buenos Aires, Argentina. September 2007.

For CTMFM to assess the current status of northern hake stock and evaluate historical information in both countries that should be analyzed in order to establish the current condition of that resource. Foreign Ministry Headquarters Argentina, Buenos Aires, Argentina. September 2007.

For CTMFM to establish the maximum recommended Capture of croaker in the Common Fishing Zone Argentine - Uruguayan for both countries. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. September 2007.

For CTMFM, to evaluate the possibility of a closed area for fishing with trawl croaker in the area of Punta Piedras. Setting catch levels croaker species throughout its range. Explore the possibility of a mark and recapture program of this species. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. August 2007.

For CTMFM, to recommend, based on cohort analysis developed a biologically acceptable value capture for the species anchovy for the year 2007 for a biological risk of exploitation or less than 10%. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. August 2007.

For CTMFM, to analyze the information and models used for the assessment of the resource corvine and suggest a value of Biologic Recommended Catch for 2007. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. June 2007.

For CTMFM, to analyze the results of the evaluation campaign for anchovy in spring 2006, analyze the areas of operation of the fleets and the available information on the sampling of the species in order to use a model of VPA which allows obtaining results on the recommended biological catch of the species. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. May 2007.

For CTMFM, to analyze the trend of the catches made by both countries of resources rays, angel shark, sea bream, sole, grouper and flathead, and set a precautionary catch for them. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. April 2007.

For CTMFM to implement models to establish the recommended biological catch of croaker resource and exchange scientific information in each country leading to the award of the numeral. Foreign Ministry Headquarters Argentina Buenos Aires, Argentina. March 2007.

For CTMFM, to make a diagnosis of the current resource Hake in the Common Fishing Zone Argentine – Uruguayan. Montevideo, Oriental Republic of Uruguay. September 2006.

For CTMFM, to establish joint guidelines for the regulation of multispecies coastal fisheries to

Common Fishing Zone Argentine – Uruguayan. Buenos Aires, Argentina. August 2006.

For CTMFM, to standardize the information on croaker of both countries to obtain results of maximum recommended Capture for the Common Fishing Zone Argentine – Uruguayan. Montevideo, Oriental Republic of Uruguay. August 2006.

For CTMFM, to produce a document on measures to adopt in the regulation and management of fishery of chondrichthyans in the Common Fishing Zone Argentine – Uruguayan. Buenos Aires, Argentina. April 2006.

For CARP (Administrative Commission of the Río de la Plata) to assess the maximum sustainable catch of croaker resource in the Rio de la Plata and its Maritime Front. Buenos Aires, Argentina. May 2003.

For DINARA, to carry out a census and registration of fishing (on magnetic support), artisanal fishermen settlements located in the Uruguayan Atlantic coastal lagoons (Laguna de Rocha, Castillos, Garzón and José Ignacio). February 2002.

For CTMFM, to evaluate the benefits of implementing a selection device (DEJUPA) for croaker, weakfish and hake on trawlers operating in the Common Fishing Zone Argentine – Uruguayan. Institute for Fisheries Research and Development INIDEP, Mar del Plata - Argentina. November 2001.

For CTMFM to determine the criteria to be applied in order to delimit areas of concentrations of juvenile weakfish that enable the implementation of closed areas to protect the resource in the Common Fishing Zone Argentine – Uruguayan. Institute for Fisheries Research and Development INIDEP, Mar del Plata - Argentina. November 2001

For CTMFM, to associate the existing information, oceanographic and biological - fisheries, and implement a Geographic Information System, in order to encourage decision making by the CTMFM. Buenos Aires - Argentina. March 2000

For CTMFM, to standardize a database Argentine - Uruguayan for joint management of fisheries. Buenos Aires - Argentina. September 1999

For CTMFM, to delimitate the spring closed area to protect juvenile hake in the ZCPAU based on data collected in the BIP "Dr. E. Holmberg". Mar del Plata - Argentina. September 1998

For CTMFM to generate a joint database that allows the use of surplus production models in the populations of croaker and weakfish in ZCPAU. Institute for Fisheries Research and

Development. Mar del Plata - Argentina. May 1998

For CTMFM, to delimitate the autumn closed area to protect juvenile hake in the ZCPAU. Institute for Fisheries Research and Development. Mar del Plata, Argentina. April 1998

For CTMFM to reconcile joint methodologies for assessing of coastal resources of the ZCPAU, mainly croaker and weakfish. Institute for Fisheries Research and Development. Mar del Plata - Argentina. March 1998.

For Ministry of Agriculture and Fisheries (MCAP), on official mission, to participate in the workshop as Author on the Workshop Pesca'97 held in Havana, Cuba. November 1997

For Ministry of Agriculture and Fisheries (MCAP), on official mission, to participate in the "1997 International Oil Spill Conference" Improving Environmental Protection - Progress, Challenges, Responsibilities. Fort Lauderdale, Florida - U.S.A. April 1997

For Ministry of Agriculture and Fisheries (MCAP), on official mission, to participate as a delegate of the United Kingdom of Great Britain in the "ICES Annual Science Conference 1996." Reykjavík - Iceland. September 1996.

For Ministry of Agriculture and Fisheries (MCAP), on official mission, to participate in the negotiations of a draft convention on Fisheries between the Governments of Chile and Uruguay. Santiago de Chile - Chile. May 1996.

For CTMFM for projecting evaluation campaigns of coastal resources, Institute for Fisheries Research and Development. Mar del Plata - Argentina, 1996.

For CTMFM, to reconcile the laws relating to coastal resources, mainly croaker. Institute for Fisheries Research and Development. Mar del Plata - Argentina, 1996.

For CTMFM, to analyze the information available from Argentina and Uruguay of the resource Hake in the Common Fishing Zone Argentine - Uruguayan, to carry out a Virtual Population Analysis, aiming to take bi-national management measures. Mar del Plata - Argentina Republic, 1993.

For CTMFM, to delimitate areas of concentration of juvenile hake in the Common Fishing Zone Argentine – Uruguayan, aiming to take bi-national management measures. Mar del Plata - Argentina, 1993.

For CTMFM, to delimitate areas of concentration of juvenile hake in the Common Fishing Zone

Argentino - Uruguay, aiming to take bi-national management measures. Mar del Plata - Argentina, 1992.

For CTMFM, to develop the research plan Argentine – Uruguayan to be held Turing 1992. Buenos Aires - Argentina, 1991.

For CTMFM, to produce a document on measures to be made in the regulation and management of demersal resources in the Common Fishing Zone Argentine – Uruguayan, with special emphasis on hake *Merluccius hubbsi*. Buenos Aires - Argentina, 1989.

For CTMFM, to produce a document on methodology used in the evaluation campaign of hake and bycatch action on board the BIP "Capitán Oca Balda ", period 1986-1987. Montevideo - Uruguay, 1988.

For CTMFM, to design the eighth joint campaign of demersal offshore resources assessment, Institute for Fisheries Research and Development (INIDEP). Mar del Plata - Argentina, 1988.

For CTMFM, to design the fourth joint campaign of demersal offshore resources assessment, Institute for Fisheries Research and Development. Mar del Plata - Argentina, 1987.

For CTMFM to conduct evaluation studies of offshore resources (with special emphasis on the species *Merluccius hubbsi*) on board the BIP "Capitán Oca Balda". Institute for Fisheries Research and Development. Mar del Plata - Argentina. Summer 1987.

For CTMFM, to design the fifth joint campaign of demersal offshore resources assessment, Institute for Fisheries Research and Development. Mar del Plata - Argentina, 1987.

For CTMFM, to design the sixth joint campaign of demersal offshore resources assessment, Technical Commission of the Maritime Front. Montevideo - Uruguay 1987.

For INAPE, as biologist of the advisory counterpart made by Peru in the context of technical cooperation between both countries in the hake fishery area, October-November 1987.

For Ministry of Agriculture and Fisheries, as alternate delegate of INAPE to the Commission of Study created by ANEP, to put in work the vessel "Santa Marina". 1986

For CTMFM, to design the first joint campaign for the evaluation of demersal offshore resources, Institute of Fisheries Research and Development. Mar del Plata - Argentina, 1986.

For CTMFM to conduct evaluation studies of offshore resources (with special emphasis on the

species *Merluccius hubbsi*) on board the BIP "Capitán Oca Balda". Institute of Fisheries Research and Development. Mar del Plata - Argentina. Fall 1986.

For CTMFM, to design the second joint campaign for evaluation of demersal offshore resources. Institute of Fisheries Research and Development. Mar del Plata - Argentina, 1986.

For CTMFM to conduct evaluation studies of offshore resources (with special emphasis on the species *Merluccius hubbsi*) on board the BIP "Capitán Oca Balda". Institute of Fisheries Research and Development. Mar del Plata - Argentina. Winter 1986.

For CTMFM, to design the third joint campaign for the evaluation of demersal offshore resources. Institute of Fisheries Research and Development. Mar del Plata - Argentina, 1986.

For INAPE, as a member of staff resource management and fisheries management in large and small scale, during the stay of research carried out by Mr. Ricardo Molinet (INTECMAR, Caracas, Venezuela) in the INAPE. Montevideo - Uruguay, 1986.

For CTMFM to conduct evaluation studies of offshore resources (with special emphasis on the species *Merluccius hubbsi*) on board the BIP "Capitán Oca Balda". Institute for Fisheries Research and Development. Mar del Plata - Argentina. Spring 1986.

For CTMFM for projecting evaluation campaigns of coastal resources and hake. Institute for Fisheries Research and Development. Mar del Plata - República Argentina 1985.

For CTMFM, for assessment studies on coastal resources on board the BIP "Dr. E. Holmberg". Institute of Fisheries Research and Development. Mar del Plata - Argentina Republic, 1985.

For INAPE, for assessment studies of coastal resources on board the BIP "Capitán Cánepa", Institute of Fisheries Research and Development. Mar del Plata - Argentina, 1983.

For INAPE, for management courses in computers PC WANG in Comsys S.A. Montevideo - Uruguay, 1983.

## **IX. TEACHING EXPERIENCE**

Professor responsible for the course of Population Dynamics of the career in Biologic Oceanography. Faculty of Humanities and Sciences - University of the Republic. (1982 -1987).

Member of the examining tables of Population Dynamics and Nekton. Faculty of Humanities and Sciences - University of the Republic. (1980 -1987).

Assistant in the Biological Oceanography course III (nekton) of the career in Biological Oceanography. Faculty of Humanities and Sciences - University of the Republic. (1980-1982).

Assistant in the course of Fish Population Dynamics of the career on Biologic Oceanography. Faculty of Humanities and Sciences - University of the Republic. (1980-1981).

Collaborating in the teaching of the workshops of Zoology of Invertebrates of the career in Biological Sciences. Faculty of Humanities and Sciences - University of the Republic. 1978.

Guidance on the following thesis to obtain the degree in Biological Oceanography. Faculty of Humanities and Sciences - University of the Republic:

"Differentiation of populations of the genus *Micropogonias* (Pisces, Sciaenidae)". Martha Alamón.

"Contribution to the knowledge of the juvenile phase of the anchovy *Engraulis anchoita* Hubbs & Marini, 1935 (Engraulidae, Clupeiformes)". Cecilia Bayssé.

"Preliminary comparative study of the instantaneous rate of Mortality (Z) of hake based on data from research vessels and the Uruguay's commercial fleet. Period 1976-1984". Alvaro Fernández.

"Movement of the Uruguayan fleet in pairs and species fished for years 1978, 1979, 1980". Gabriela Gallego.

"Study of the growth of hake (*Merluccius merluccius hubbsi*) during 1976, 1977, 1978 and 1981". Nelly García.

"Spatial-temporal changes in the population structure of *Umbrina canosai* (Berg, 1895) in the oceanic front of the Rio de la Plata". Silvana Giordano.

"Contribution to the knowledge of fertility and nature of the spawning on hake *Merluccius merluccius hubbsi* (Marini)". Patricia Grunwaldt.

"Study of euphausiids collected in the Common Fishing Zone Argentine – Uruguayan". María Lemaire.

"Analysis of the morphological changes in the larval stage of the anchovy, *Engraulis anchoita*". Gabriela Mantero.

"Some aspects of the biology of Rouget *Helicolenus dactilopterus lailhei* Norman, 1937 in the Common Fishing Zone Argentine – Uruguayan". Alex Schwed.

"Qualitative and quantitative analysis of the feeding of the hake *Merluccius merluccius hubbsi* in the Common Fishing Zone Argentine – Uruguayan". Walter Ubal.

Member of the following courts of thesis for obtaining a degree in Biological Oceanography.  
Faculty of Humanities and Sciences - University of the Republic:

"Movement of the Uruguayan fleet in pairs and species fished for years 1978, 1979, 1980".  
Gabriela Gallego (October 8, 1986).

"Preliminary comparative study of the instantaneous rate of Mortality (Z) of hake based on data from research vessels and the Uruguay's commercial fleet, 1976 1984 Period". Alvaro Fernández (June 30, 1986).

"Population Structure and biological aspects of *Cheilodactylus bergi* Norman, 1937 Perciformes: Cheilodactyidae) in the Common Fishing Zone Argentine – Uruguayan". Walter Norbis (June 30, 1986).

"Study of some ecological characteristics of phytoplankton of surface on the Uruguayan Continental Shelf (Summer 1984)". Martin Parietti (June 30, 1986).

"Biometric comparative study between males and females of South American fur seal *Arctocephalus australis*". Mauricio Lima Arce (February 7, 1986).

"Analysis of Uruguayan offshore fishery in the period 1975-1982". Helena Amorín (May 24, 1984).

"Introduction to cytology and histology of the ovary of *Micropogonias furnieri* Desmarest, 1823 (Teleostei, Sciaenidae)". Eduardo López (May 3, 1984).

"Study of the growth of hake (*Merluccius merluccius hubbsi*) during 1976, 1977, 1978 and 1981". Nelly García (April 12, 1984).

"Early experiences growing *Brachionus quadridentatus* Herman, 1783 (Rotifera) in the laboratory". Mónica Spinetti (April 9, 1984).

"Study of the growth of Weakfish (*Cynoscion striatus*) of the Common Fishing Zone Argentine – Uruguayan during 1976, 1977 and 1978". Pilar Antúnez (December 16, 1983).

"Contribution to the knowledge of fertility and nature of the hake spawning *Merluccius merluccius hubbsi* (Marini)". Patricia Grunwaldt (December 16, 1983).

"Study of euphausiids collected in the Argentine – Uruguayan Common Fishing Zone." María Lemaire (December 16, 1983).

"The Community of mussel *Mytilus edulis platensis* (d'Orbigny, 1846) in Punta del Chileno (Maldonado, Uruguay)". Luis Batallés (November 25, 1983).

"Contribution to the knowledge of the biology of the mussel *Mytilus edulis platensis* (D'Orbigny, 1846) on the coast of Maldonado, Uruguay". Oscar Berocay (November 25, 1983).

"Differentiation of populations of the genus *Micropogonias* (Pisces, Sciaenidae)". Martha Alamón (August 5, 1983).

"Considerations on the fauna of polychaetes of the Uruguayan Continental Platform". María Faget (July 27, 1983).

"Contribution to the knowledge of the juvenile phase of the anchovy *Engraulis anchoita* Hubbs & Marini, 1935 (Engraulidae, Clupeiformes)". Cecilia Bayssé (June 3, 1983).

"Some aspects of the biology of Rouget *Helicolenus dactilopterus lailhei* Norman, 1937 in the Common Fishing Zone Argentine – Uruguayan". Alex Schwed (May 23, 1983).

"Qualitative and quantitative analysis of the feeding of hake *Merluccius merluccius hubbsi* in the Common Fishing Zone Argentine – Uruguayan". Walter Ubal (March 20, 1983).

"Study of the growth of the anchovy, *Engraulis anchoita* for the years 1975-1981." Oscar Pin (December 22, 1982).

## **X. FIELD WORK EXPERIENCE**

Effective 566 days of on board research working, discriminated in the following way:

On board the B.I.P. "Dr. E. Holmberg" (Argentina) as Uruguayan counterpart for the detection and delimitation of areas of concentration of breeding Croakers for the further implementation of areas closed to trawling. (Summer 1996)

On board the B.I.P. "Dr. E. Holmberg" (Argentina) as Uruguayan counterpart for the detection

and delineation of areas of concentration of juvenile hake for further implementation of areas closed to trawling. (Summer 1994)

Two surveys in the B / I "Aldebaran" (Oriental Republic of Uruguay) as Scientific Chief for assessment and monitoring in areas with concentration of juvenile hake to establish closed areas to protect the resource. (Spring 1991)

On board the B.I.P. "Capitán Oca Balda" (Argentina) as Uruguayan counterpart for evaluation of high demersal resources in the Common Fishing Zone Argentine – Uruguayan. (Fall 1991)

On board the B.I.P. "Capitán Oca Balda" (Argentina) as Scientific Chief, for the assessment of demersal offshore resources (with special emphasis on the species *Merluccius hubbsi*) in the Common Fishing Zone Argentine – Uruguayan. (Summer 1987)

On board the B.I.P. "Capitán Oca Balda" (Argentina) as counterpart of Uruguay, for demersal offshore resources evaluation (with special emphasis on *Merluccius hubbsi*) in the Common Fishing Zone Argentine – Uruguayan. (Spring 1986)

On board the B.I.P. "Capitán Oca Balda" (Argentina) as Scientific Chief for the assessment of demersal offshore resources (with special emphasis on the species *Merluccius hubbsi*) in the Common Fishing Zone Argentine – Uruguayan. (Winter 1986)

On board the B.I.P. "Capitán Oca Balda" (Argentina) as Uruguayan counterpart, for demersal offshore resources evaluation (with special emphasis on *Merluccius hubbsi*) in the Common Fishing Zone Argentine – Uruguayan. (Fall 1986)

On board the B.I.P. "Dr. Eduardo Holmberg" (Republic Argentina) as Uruguayan counterpart, for the evaluation of coastal demersal resources in the Common Fishing Zone Argentine – Uruguayan. (Fall 1985)

15 surveys on board the B / I "CRUZ DEL SUR FAO 39" (Oriental Republic of Uruguay) with the position of Scientific Chief for the evaluation of fishery resources in the Common Fishing Zone Argentine – Uruguayan. (1983 -1985)

On board the B.I.P. "CAPITAN CANEPA" (Argentina) as a scientific observer, for the assessment of coastal demersal resources in the Common Fishing Zone Argentine – Uruguayan. (1983)

20 surveys on board the B / I "LAMATRA FAO 60" (Oriental Republic of Uruguay) with the position of Scientific Chief for the evaluation of fishery resources in the Common Fishing Zone Argentine - Uruguayan. (1980 1983)

On board the "PROMOPES II" (Uruguayan commercial fleet) with the position of Scientific Chief for the evaluation of the natural demersal offshore resources. (1982)

15 surveys on board the B / I "LAMATRA FAO 60" (Oriental Republic of Uruguay) with the position of Scientific Assistant for the evaluation of fishery resources in the Common Fishing Zone Argentine - Uruguayan. (1976 1980)

## **XI. PARTICIPATION IN COURSES, CONFERENCES AND SEMINARS**

Participation in November 2000 as an author in Fifteenth Symposium Scientific - Technological CTMFM. Mar del Plata - Argentina.

Participation in May 2000 as an exhibitor at the Meeting on Fisheries Resources and Management held in INAPE. Montevideo - Uruguay.

Participation in November 1998 as moderator at the Conference on fishing techniques and Selectivity in PescAL '98. Expo Maritima del Mercosur. Buenos Aires - Argentina.

Participation as an exhibitor at the Pesca'97 Workshop held in Havana, Cuba. November 1997.

Participation in November 1997 as Author in "Twelfth Symposium Scientific - Technological CTMFM." Montevideo - República Oriental del Uruguay.

June 1997 Participation in the seminar "Leadership Transformation" COVEY LEADERSHIP CENTER LATIN AMERICA. Montevideo - República Oriental del Uruguay.

Participation as speaker in the seminar "Commercial Fishing" May-June 1997. Instituto Superior San Fernando de Maldonado. Montevideo - República Oriental del Uruguay.

Participation in December 1994 on the "Eleventh CTMFM Scientific Symposium." Mar del Plata - Argentina.

Participation in July 1991 as an instructor in the Regional Seminar on Fish Production in the Cuenca del Plata and the First National Symposium of Fishworkers, M.G.A. Asunción - Paraguay.

Participation in April 1989 as an Expert Participant at the "Expert Consultation on Economic Advice to Administrators of Demersal Pelagic Fisheries of Selected Countries of Latin America". INAPE. Montevideo - Uruguay.

Participation in November 1988 as Author in the "Fifth Scientific Symposium of the CTMFM".  
Mar del Plata - Argentina.

Participation in December 1988 as Author in the "Fourth Workshop for Entrepreneurs Fisheries"  
(CTMFM). Mar del Plata - Argentina.

Participation in November 1987 as Professor in the "First Workshop of the Maritime Front Joint  
Technical Commission" on Population Dynamics and Management of Fisheries. Montevideo -  
Uruguay.

Participation in November 1987 as a Lecturer at the Discussion Board on Cohort Analysis and  
Virtual Populations in the "Fourth Scientific Symposium CTMFM." Ministry of Foreign Relations.  
Montevideo - Uruguay.

July 1987 Participation in the "Seminar Mexico – Australia on Marine Sciences" Centre of  
Research and Advanced Studies of IPN. Mérida Unit. Merida, Yucatan - Mexico.

November 1986 Participation in "Third Scientific Symposium of CTMFM", Institute of Fisheries  
Research and Development. Mar del Plata - Argentina.

December 1985 Participation in the "Second Scientific Symposium of CTMFM". Ministry of  
Foreign Affairs. Montevideo - Uruguay.

Participation in February 1985 on "Regional Technical Workshop on Planning of Fisheries  
Development in Latin America". Montevideo - Uruguay.

Participation in November 1984 at the "First Scientific Symposium of CTMFM". Institute of  
Fisheries Research and Development. Mar del Plata - Argentina.

Participation in September 1981 in the "Second Meeting on Natural Sciences". Biological  
Research Institute Clemente Estable, Montevideo, Uruguay.

Assistance in October 1980 to the "First Meeting on Natural Sciences". Biological Research  
Institute Clemente Estable, Montevideo, Uruguay.

September 1980 Participation in the Course of Post-Grade of the Regional Post-Graduate  
Training Program in Biological Sciences of the United Nations for the Development (UNESCO -  
UNDP). Faculty of Humanities and Sciences, University of the Republic. Montevideo, Uruguay.

Participation in September 1980 in the course "Systematic, Etology and Ecology of

Vertebrates", provided by the Regional Post-Graduate Training Program in Biological Sciences of the United Nations for the Development (UNESCO - UNDP). Montevideo - Uruguay.

Assistance in May 1978 to the "Latin American Seminar on Benthic Ecology and sedimentation of the Continental Shelf of the South Atlantic". Montevideo - Uruguay.

Participation in October 1977 at the "First Meeting of the Latin American Hake", organized by FAO INAPE. Montevideo - Uruguay.

Participation in 1977 in the "Seminar on Conservation of the Environment ", organized by the OAS. Montevideo - Uruguay.

Participation in 1975 in the "Seminar and Conference of Species and Evolution ", issued by Dr. K. Erben (Professor of Paleontology, University of Bonn, Federal Republic of Germany). Montevideo - Uruguay.

## **XII. LANGUAGES**

**Spanish:** mother language.

**English:** 3-year intensive course at the ANGLO – URUGUAYAN Institute.

**Portuguese:** 2 Year course (particular).