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IFOP celebrates its 55th anniversary in a special Fisheries Commission session

A team of workers of Fisheries Development Institute, led by the institution's executive director Luis Parot Donoso, Maritime Interests Commission, Upper Chamber Fisheries and Aquaculture Committee attended to offer senators a report on national fisheries current state. The session was held at the National Congress library, with fisheries and aquaculture undersecretary Eduardo Riquelme's presence.

IFOP develops comprehensive advice for decision making in Fisheries and Aquaculture and research projects on sustainable exploitation strategies status and evaluation, commercial interest resources total allowable quotas estimation, benthic resource management areas evaluation and monitoring, hydrobiological health programs, environment, repopulation and crops and an aquaculture and fishing knowledge node with emphasis on digital preservation, knowledge access and visibility. Thanks to IFOP's work the State has necessary information to manage and regulate resources capture, to establish an integrated fisheries management, to deploy a management model and technical assistance, to develop aquaculture and sustainable fishing, and safeguard documentary scientific heritage.



Parot explained "We requested the fishing commission this special session for IFOP's 55th Years celebration, therefore, it is an acknowledgment to its trajectory to the importance, that the Law itself grants to the Institute as the State permanent adviser in fisheries administration. Institutional issues were discussed, an exposition about what each divisions does, and a relevant vision of the importance and transcendence of actions carried out by the Institute.

Valparaíso's Senator Kenneth Pugh, added "A big greeting to Fisheries Promotion Institute in its 55 years bringing information that allows us to understand and take care of our national fisheries from the knowledge, with its research capacity, with its boats, with its people, with its processes and



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IFOP jointly with Concón Municipality hold ecological talks in schools

WITHIN THE FRAMEWORK OF THE MONTH OF THE SEA, THE FIRST EDUCATIONAL ACTIVITY WAS HELD AT ESCUELA ORO NEGRO, WITH THE FOLLOWING ONES PROGRAMMED AT PUENTE COLMO AND IRMA SALAS SILVA SCHOOLS

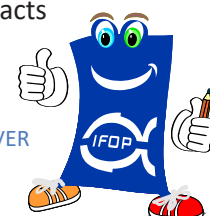
Between May 3rd and 23th, Fisheries Development Institute (IFOP) together with Concón Municipality will hold a series of talks in three schools which belong to the district; Oro Negro, Puente Colmo, Irma Salas Silva. Its objective is to teach students the care about the ocean and resources that inhabit it. In a simple, didactic and entertaining language, IFOP researchers explain to children the damage that garbage produces in the sea and it is about creating awareness in the care of our environment.

The first talk was in charge of researcher María Fernanda Jiménez called Microplastic in the oceans. She commented that "it is important for children to know the main problems that are currently happening in the oceans, students are more receptive to what they learn, so the talk focuses on explaining where the plastic that people leave on the beaches arrives., generating with it a huge damage to fish, since, they can get to eat that plastic generating illness and death in the fish. On the other hand, sea turtles are affected, they get confused and believe that plastic bags are jellyfish and eat them causing their death. The talk aside to teach students aims to raise awareness and that they give a warning voice to adults, ask their parents to collect garbage from the beaches and take care of the environment "

This is IFOP Schedule in Concon

- Escuela Oro Negro, Friday, May 3rd, 11:00 Hrs. Attending 8th graders A and B, 51 Students.-
- Puente Colmo School, Wednesday May 22nd 10:30 Hrs. The Garbage in the Ocean.
- Irma Salas Silva School, Thursday 23rd May, 4th graders A and B, 11:00 Hrs.

Researcher Luis Ossa Medina stressed out that his talk will focus on "the various impacts that inorganic waste can produce in the oceans. "We will explain to the stu-



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with all its scientists IFOP has been a national reference to be able to have a first level public policy, that is why we wanted to leave on Wednesday May 15 in a special senate session the fishing commission to receive IFOP's report about Chilean fisheries current status.

This document is fundamental to understand and make decisions that benefit all Chilean citizens. Today we want to recognize in all men and women who work at IFOP that selfless sacrifice to deliver the best quality of information which allows public policies development practical and real knowledge for IFOP innovation people that has always been marking that, year after year, congratulations to all of you guys"



dents possible places where plastic waste can end up accumulating, and how they can be transformed into microplastics and in this way affect the entire trophic plot to even cause possible harm to the human being as final consumer. The possible solutions to protect and care for the marine environment will be pointed out. The researcher tells us that final purpose intended with these presentations is to generate awareness to encourage care or responsibility to deposit the trash in the right places “.

Finally, researcher Victoria Escobar, who will give the talk What are corals?, said that “Science is an exciting branch, if you look around there is science behind everything that surrounds us allows us to see reality through a window of reasoning. However, scientists use language that is so specific that it escapes from the general public. To spread is to make it easy so something that seems as a difficult thing would be made understandable, that is our task to make it comprehensible, to bring what seems impossible near in order to be reachable, for that reason I chose this subject “corals” is to immerse children in a wonderfully multicolored world, full of life down there in our oceans. These activities with the children, helps them to exercise critical thinking, explains amazing things, creates more scientists and finally reminds us of our commitment to society in general.



Abate Molina Scientific ship set sail to evaluate anchovy and common sardine

RESEARCH CRUISE WILL LAST 31 DAYS AND IT WILL TRAVEL BETWEEN VALPARAÍSO AND THE NORTH OF CALETA MANSA, IN THE LAGOS REGION

Abate Molina scientific vessel, sailed on May 4th, from Valparaíso Port, with a total crew of 25 people, including researchers and crew, to evaluate and characterize anchovy and sardine stock resources which are present between Valparaíso regions and Los Lagos Region, through hydroacoustic method, during maximum recruitment period and immediate fall season.

The project manager and cruise chief is Álvaro Saavedra fishing engineer and the ship's captain is Enrique Quiero

Research area is between the northern limit of the Valparaíso region (parallel 32°10'S) and the north of the parallel Mansa cove (40°20'S), between the coast and the western limit of the continental shelf.



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IFOP holds various activities for its workers for its 55th birthday

On May 26th, IFOP will be 55 years old, it was created in 1964 by Production Promotion Corporation, CORFO, and the National Fisheries Society, through a fisheries matters international technical assistance project between Chilean Government, the United Nations Development Program, UNDP, and the United Nations Organization for Agriculture, FAO.

Currently Fisheries Development Institute of (IFOP), is Fisheries and Aquaculture Law scientific reference, it is a very important milestone for the institution, as it establishes its position as a national reference Institute of information that is required to make decisions about fishery resources management and aquaculture management. It is in charge of maintaining permanent advice to the Undersecretariat of Fisheries.

IFOP workers anniversary programmed activities

On Thursday, May 15th a visit to Valparaíso's Natural History Museum was held for IFOP workers children. The tour included a welcome by Loredana Rosso the Museum's director and a visit to the 14 permanent museography halls. "Fifth region Biodiversity", Loredana Rosso Elorriaga, museum's director, explained "We are very happy as MHNV to work since several years ago on various IFOP initiatives. It is a serious institution and works for the environment, care contributing every single day in the region development, we also prepared a fun activity for families working at IFOP, who will know our facilities, which will awaken adults and children curiosity, touring different Museum rooms. Always our institutions workers should be our work central axis and now we will deliver part of our knowledge to the great IFOP family "

Maira Cortés IFOP Welfare and Quality of Life Analyst referred to the other activities "During May we are celebrating so we have prepared the following entertainments for our IFOP workers

Your B side; On May 23rd a ifopino entrepreneurship fair will be held. 8 Valparaíso's workers will show their projects in the central hall of the company. This is to know the side that many of us do not know about our colleagues.

Did you know?; Its purpose is to make our colleagues findings in their careers at IFOP noticeable and that often are unknown by other Ifopinos.

Photographic Exposition: at IFOP there are a lot of hidden talents, there are some workers that enjoy photography, so we will hold a photography exposition related to IFOP work. In this way we will be able to show our coworkers talent.

IFOP in 100 words; Like the famous contest, we will launch a literary activity so that those who want to tell a story related to their work within the institute can make it known in a story or literary story format, in order to create the first digital book with this theme".



IFOP organizes Informative workshops with schoolchildren in Talcahuano, Arauco and Coquimbo

On Tuesday May 7th, at Arauco Cultural Center, the II Scientific Fair for Oceans Sustainability was held, it was organized by Filidor Gaete Monsalve Technical High School INCAR, Universidad de Concepción, DAEM Arauco and Arauco's Municipality.

The activity's objective is to share knowledge about the oceans with students and the general public to raise awareness about our resources and the care of the oceans. Various institutions and organizations participated in it.

IFOP in its stand showed various fishing resources, answered questions about the ocean's care, IFOP work and our role as advisors to the Fisheries Undersecretariat

Jorge Cornejo, IFOP's Talcahuano chief of base, said "From IFOP, Cristian Villouta, Hector Pastor, Miguel Vega, Daniel Veroiza and Ariel Pinto assisted. They were in charge of delivering the information to the visitors about IFOP scientific observers role and to try to educate attendees about not throwing garbage into the sea because of the irreparable damage that this causes. The participation of the Institute was very well received and we hope to continue participating in more activities in the future."

Cornejo added "The informative activities are permanently carried out in IFOP, now for the Institutional Anniversary Month, which coincides with the month of the sea, the Espiritu Santo School was visited, where approximately 150 kindergarten and pre-kindergarten children listened to Scientific Observer presentations. on marine resources, incidental capture and marine pollution, all adapted for their age. In addition, marine organisms were shown, a drop of puddle of stagnant water through a microscope and dissections of horse mackerel, mackerel, sardines and anchovetas were made "

Activities in Coquimbo

On May 14th, 3 Coquimbo base IFOP's Scientific Observers, Alberto Olivares, Simón Zepeda and Alejandra Valencia attended the "Lucila Godoy Alcayaga school", to support the environmental protection project (of the school) "conscious consumption and reuse of grey



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waters". In the activity the students were explained what are IFOP functions with posters, calendars and different fsamples (some of them could manipulate them).

IFOP scientific observers, showed the environmental damage of throwing garbage to the sea and different images of the ravages that plastics and microplastics provoke in marine organisms.

The Lucila Godoy Alcaayaga school, organized a group with San Rafael School, Colegio Republica de Grecia of Coquimbo and José Manuel Balmaceda School of La Serena to be part of the pioneers in conscious water consumption.

Fisheries Development Institute has new Manager in Arica

Hernán Padilla Esparza, is the new IFOP head in Arica, marine biologist, has worked in different IFOP positions and divisions, from north to south of the country, standing out in Project Headquarters, link with the environment, especially with organisms local and regional public, with whom it has achieved successful relations of cooperation, mainly in the city Aysén.

He has been working for 14 years in this prestigious institution, in charge of preparing scientific and technical information of public value for national fisheries and aquaculture institutions decision making.

Along with assessing the challenge that has been presented to strengthen this Regional Headquarters, the new head said "the emphasis and work guidelines that have been proposed for this year 2019, is to strengthen our relationship with fisheries and aquaculture sector in the zone, to identify local needs in terms of research, and from our institutional mission, to contribute to this important region development".



IFOP held a Red Tide workshop

On May 14th, in Los Alerces auditorium from the Chilean Security Association (ACHS) in Puerto Montt, Los Lagos, Aysén and Magallanes Regions, Red Tide Management and Monitoring program closing XII meeting " was held. Version 2018-2019 ".

The workshop showed carried out work between the period of March 2018 to February 2019 (without prejudice to the results obtained since 1996 in the Monitoring initiated in Punta Arenas), in addition to new results obtained on the basis of research conducted in Puerto Montt, Aysén and Punta Arenas CREAM laboratories. In total, 10 presentations were made, which addressed various issues about *Alexandrium catenella*, main species of toxic microalgae in our country, allowing to know its current spatio-temporal distribution particularly in Corcovado Gulf and adjacent sectors, as well as genetic studies on its plasticity phenotypic and specific molecular markers, eco-physiological rates, and modeling in Patagonian fjords. In addition, topics on genus of microalgae with a high ecosystem impact, such as *Karenia*, *Azadinium*,

Amphidoma and *Pseudochatonella*, were explained. To close, a characterization was made for the second consecutive year about the distribution of inorganic nutrients in surface waters in the regions of Los Lagos, Aysén and Magallanes.

A synthesis was also made referring to researchers high participation from Harmful Algal Studies Center (CREAN) in national (ie Marine Sciences) and international congresses (ie International Conference Harmful Algae, ICHA), talks open to general public work tables, participation, scientific articles publication in high impact journals and alliances with research institutes at national and international level.

The workshop had a considerable assistance, highlighting the participation of the Undersecretariat of Fisheries and Aquaculture (SUBPESCA), Undersecretary of Economy and Small Businesses, SEREMI Salud Los Ríos and Los Lagos, Universidad Austral de Chile, Technical Laboratories, Companies and General Public.

Through Twitter social networks (@crean_ifop) and Facebook (Crean Ifop) the presentations will be available for downloading them.



Researcher Luis Adasme with Christine Bogle Executive Secretary of the Agreement for the Conservation of Albatrosses and Petrels (ACAP)

