



## ***World Confederation of Underwater Activities Zone America***

### ***7th. International Scientific Diving Course CMAS Zone America (FMAS / FCAS)***

"The cultural remains are found submerged part of the heritage of a nation, being possible to do underwater archaeology with the same scientific rigor that is used on the surface. Mexico and Cuba are countries that value and support cultural heritage. People around the world come to wonder at our pre-hispanic and colonial past, but at the bottom of our waters, there is a cultural heritage which we should also be proud "

In Santa María del Mar Playas del Este Cuba, developed the 7th. International Scientific Diving Course CMAS Zone America, in collaboration with UNESCO Havana, Regional Office for Culture in Latin America and the Caribbean, Archaeology Office of the City Historian of Havana, the Mexican Federation of Underwater Activities FMAS and Cuban Federation of Underwater Activities FCAS, with the participation of professionals and researchers specializing in the area of Underwater Archaeology of Mexico and Cuba, from 03 to 08 June 2013, with a workload of 50 hours.

With the presence of Tatiana Villegas, associate specialist Programme Regional Office for Culture in Latin America and the Caribbean of UNESCO, as well as Arrazcaeta Roger Delgado, Director of Archaeology Office of the Historian of Havana Cuba, the instructor Laguardia Octavio Rivero, President of the Cuban Federation of Underwater Activities, Orestes Garcia Maceira, Director of CMAS Sports Committee Zone America and under the direction of CSDI Ma Clotilde Zeckua Ramos Director of Scientific Committee CMAS Zone America, and CSDI Roberto Ferraz Proenza, Director of the Scientific Committee of FCAS, held the opening ceremony, wishing the participants of the course and a week of collaborative work exchange methodology in different areas of underwater archaeological field.





During the development of the course were exposed by special guests and aspiring different degrees of qualification, presentations in the area of Underwater Archaeology. Work began with a presentation on the CMAS and degrees of scientific diving by the Biol Maria Clotilde Zeckua Ramos, Director of Scientific Committee CMAS Zone America. Subsequently the subjects were: "The UNESCO Convention on the Protection of Underwater Cultural Heritage and the collaboration with the world of scientific diving" by Tatiana Villegas specialist culture in the regional office of UNESCO in Havana, "Pottery as underwater sites cronodiagnóstico element" by the Director of the Office of Archaeology Havana Cuba, Roger Arrazcaeta Delgado, "Methodology for recording archaeological pieces" by the Archeologist Antoni Fonollá Sánchez, archaeologist OHC, "Artificial reefs of the Bay of Acapulco as an alternative for diversification of tourism" by the Inst Mario Trevino and Díaz Barriga, researcher at the Academic Unit of Marine Ecology of the Autonomous University of Guerrero. "The photomosaic Registered as a tool of PCS "by Daniel Torres Etayo, assistant professor added researcher at the Center for the Study of conservation, restoration and museum studies at the Higher Institute of Art and National Geographic Award 2012 as a scout in Underwater Archaeology," An underwater exploration view from its principles, constraints and needs, Arrecife case study of Banco Chinchorro Biosphere Reserve, Quintana Roo, Mexico, by Archaeologist Ana Katalina Celis Hernandez, "Underwater archaeological record applied in Archeology , Office of the Historian, "by Monica Pavia Perez, The" Sánchez Barcaíztegui ": a historical reconstruction from the wreck, by Yamile del Carmen Gonzalez Luguera," Underwater Archaeology Jobs variants and study results with minimal resources "for Yoser Martínez Hernández," Wreck Alhajuela, approach to underwater heritage of Manabi, Ecuador "by Maickel Suárez Cáceres and" Gonadas and carronades east of Havana, by Yasser Torres Niebla.

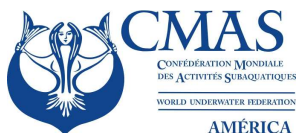






Fieldwork was directed by aspiring Confirmed Scientific Diving Instructor Juan Manuel Gómez Valencia and aspiring Underwater Archaeology Instructor Daniel Torres Etayo, developed based on the topics of the lectures, performing operational planning with group assignment working, diving areas, preparing equipment and safety procedures for the achievement of relevant practices on land and later in the underwater environment to complete the processing of the data obtained.





The applicants of the countries participants obtained the following degrees:

	Name	Country	Degree obtained
1	Juan Manuel Gómez Valencia	Mexico	Confirmed Scientific Diving Instructor
2	Mario Treviño y Díaz Barriga	Mexico	Scientific Diving Instructor
3	Ana Katalina Celis Hernández	Mexico	Underwater Archaeology Instructor
4	Daniel Torres Etayo	Cuba	Underwater Archaeology Instructor
5	Maickel Cáceres Suárez	Cuba	Underwater Archaeology Instructor
6	Yamilé Luguera González	Cuba	Underwater Archaeology Instructor
7	Antoni Fonolla Sánchez	Cuba	Underwater Archaeology Instructor
8	Miguel Ángel León Sánchez	Mexico	Underwater Archaeology Specializing
9	Juan Manuel Gómez Valencia	Mexico	Underwater Archaeology Specializing
10	Mario Treviño y Díaz Barriga	Mexico	Underwater Archaeology Specializing
11	Mónica Pavía Pérez	Cuba	Underwater Archaeology Specializing
12	Yasser Torres Niebla	Cuba	Underwater Archaeology Specializing
13	Yoser Martínez Hernández	Cuba	Underwater Archaeology Specializing





The collaboration with the world of sports and scientific diving in the implementation of measures to protect the underwater heritage is fundamental. Recreational divers worldwide are the guardians of the underwater cultural heritage as it is they who are most often in contact with these vestiges. UNESCO has developed ethical to be considered by divers to the archaeological sites which were endorsed by the States parties to the 2001 Convention and the Scientific and Technical Advisory Body of the Convention standards.

The work of underwater archaeologists and cultural managers from around the world has led many governments and citizens sensitizing the value and importance of underwater heritage, so the joint work of the World Underwater Federation and its associations affiliated with certainly ensure the dissemination and implementation of these measures and encourage continuous professional divers and collaboration of scientists in the field of underwater archaeology.



Report prepared by:

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***Scientific Committee***