



2nd International Congress on Marine Energy

CEMIE-Océano



August 22-24, 2022
Mexico City, Mexico

Programme

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GENERAL PROGRAMME

Mexico City time	Monday – August 22, 2022	Location
08:30 - 09:00	Registration and delivery of PPT files	Lobby
09:00 - 09:20	Opening	Auditorium / Online
09:20 - 11:20	<u>Special Session 1 - Environment</u>	Auditorium / Online
11:20 - 11:50	Coffee break	Lobby
11:50 - 13:30	<u>Technical session 1 - Ocean Thermal Energy Conversion (OTEC) I</u>	Auditorium / Online
13:30 - 15:00	Free time	-
15:00 - 16:40	<u>Technical session 2 - Tidal/Current energy converters</u>	Auditorium / Online
	<u>Technical session 3 - Environmental issues</u>	Room 1 / Online
16:40 - 17:10	<u>Posters session 1</u>	Auditorium / Room 1 / Online
	Coffee break	Lobby
17:10 - 18:50	<u>Technical session 4 - Offshore wind energy</u>	Auditorium / Online
	<u>Technical session 5 - Biomaterials</u>	Room 1 / Online
19:00 - 20:30	Welcome cocktail	Building 17



Mexico City time	Tuesday – August 23, 2022	Location
08:30 - 09:00	Registration and delivery of PPT files	Lobby
09:00 - 11:00	<u>Special Session 2 - Technology development</u>	Auditorium / Online
11:00 - 11:30	<u>Posters session 2</u>	Auditorium / Room 1 / Online
	Coffee break	Lobby
11:30 - 13:30	<u>Technical session 6 - Salinity gradient energy / Integration to the network</u>	Auditorium / Online
	<u>Technical session 7 - Waver energy converters</u>	Room 1 / Online
13:30 - 15:00	Free time	-
15:00 - 17:00	<u>Special Session 3: Current energy</u>	Auditorium / Online
17:00 - 17:30	<u>Posters session 3</u>	Auditorium / Room 1 / Online
	Coffee break	Lobby
17:30 - 18:30	<u>Technical session 8 - Ocean Thermal Energy Conversion (OTEC) II</u>	Auditorium / Online
	<u>Technical session 9 - Integral aspects of ocean energy projects I</u>	Room 1 / Online
18:30 - 20:00	CEMIE-Océano Assembly, A.C.	Auditorium / Online

Mexico City time	Wednesday – August 24, 2022	Location
08:30 - 09:00	Registration and delivery of PPT files	Lobby
09:00 - 11:00	<u>Technical session 10 - Energy resources: waves and currents</u>	Auditorium / Online
	<u>Technical session 11 - Technological development: materials and devices</u>	Room 1 / Online
11:00 - 11:30	<u>Posters session 4</u>	Auditorium / Room 1 / Online
	Coffee break	Lobby
11:30 - 13:30	<u>Technical session 12 - Integral aspects of ocean energy projects II</u>	Auditorium / Online
	<u>Technical session 13 - Marine and coastal processes</u>	Room 1 / Online
13:45 - 15:00	Free time	-
15:00 - 17:00	<u>Special session 4: Technology implementation / Closing Ceremony</u>	Auditorium / Online
17:00 - 17:30	Coffee break	Lobby
17:30 - 19:00	Student meeting	Auditorium / Online

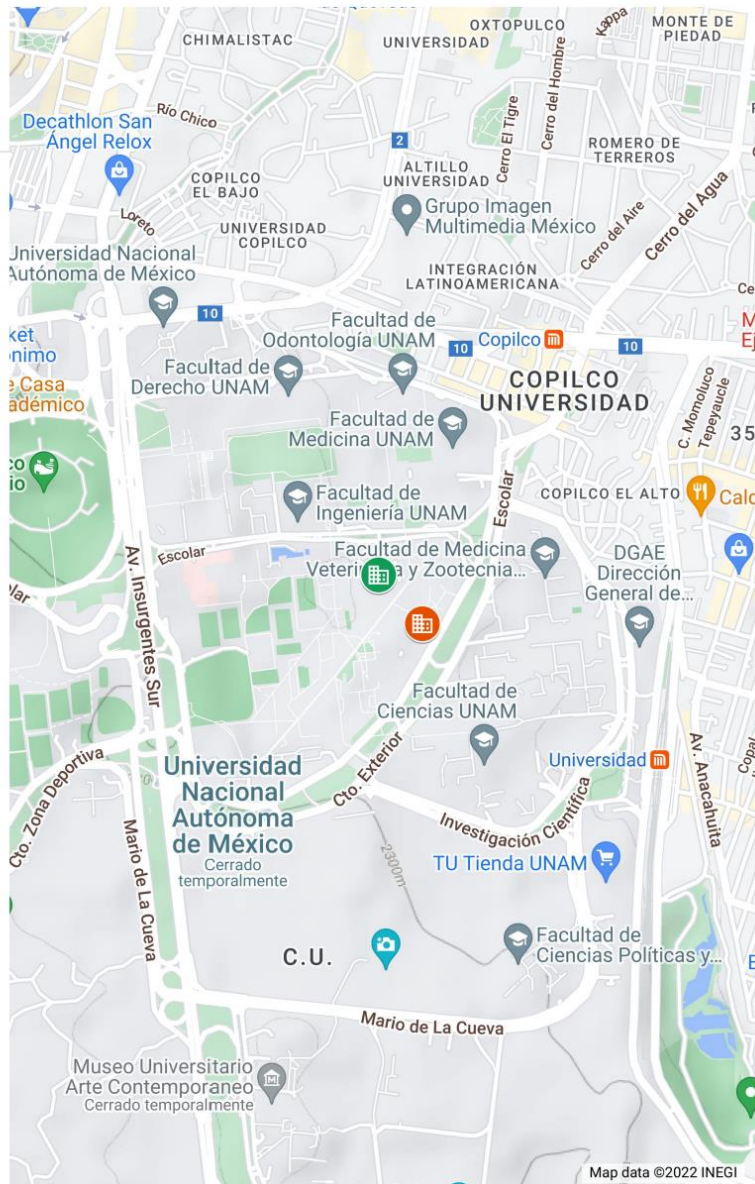
LOCATIONS

Lobby	Lobby of the auditorium of the Engineering Tower UNAM
Auditorium	“José Luis Sánchez Bribiesca”, Engineering Tower UNAM
Room 1	Multiple uses room in the Engineering Tower UNAM (next to the auditorium)
Building 17	Terrace next to Building 17 of Engineering Institute UNAM
Online	Link to access via ZOOM will be shared via email

Locations

-  Edificio 17 - CEMIE Océano
-  Torre de Ingeniería, UNAM

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TECHNICAL SESSIONS

Monday – August 22, 2022

Mexico City time	Technical session 1 Ocean Thermal Energy Conversion (OTEC) I	
	Auditorium	
11:50 - 12:10	THE CRUISE OTEC-1 IN THE MEXICAN PACIFIC OF THE CEMIE-O Miguel Angel Alatorre Mendieta	
12:10 - 12:30	GENERATION TEST OF OTEC-CC-MX-1KWE PROTOTYPE PLANT Jessica Guadalupe Tobal Cupul	
12:30 - 12:50	SIMULATION OF AN OPEN CYCLE OTEC PLANT FOR HIDRIC SUPPLY IN THE TOURISM SECTOR OF COZUMEL Jesús Florido Ortega	
12:50 - 13:10	DETERMINATION OF SITES OF INTEREST FOR THE IMPLEMENTATION OF THE OTEC SYSTEM (OCEAN THERMAL ENERGY CONVERSION) IN THE MEXICAN PACIFIC OCEAN Alejandro García Huante	
13:10 - 13:30	NATIONAL ATLAS OF THERMAL GRADIENT: TOOL TO DETERMINE SITES OF INTEREST FOR THE IMPLEMENTATION OF THE OTEC SYSTEM Yandy Rodríguez Cueto	

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Monday – August 22, 2022

Mexico City time	Technical session 2 Tidal/Current energy converters	Technical session 3 Environmental issues
	Auditorium	Room 1
15:00 - 15:20	EFFICIENCY ESTIMATION OF THE HIPA HYDROGENERATOR UNDER FIELD CONDITIONS Andres Orlando Cuen Ulloa	A FRAMEWORK FOR THE PROBABILISTIC ENVIRONMENTAL IMPACT ASSESSMENT OF MARINE RENEWABLE ENERGY POWER PLANTS Pamela Andrea Flores Balbuena
15:20 - 15:40	NUMERICAL ANALYSIS OF A DUCTED WATER CURRENT TURBINE FOR LOW ENERGETIC FLOW CONDITIONS Gerardo Cano Perea	A SYSTEMATIC REVIEW ON THE ENVIRONMENTAL IMPACTS FOR OCEAN CURRENT MARINE RENEWABLE ENERGY Alejandra Alamillo Paredes
15:40 - 16:00	QUALITY FUNCTION DEPLOYMENT METHODOLOGY FOR SUSTAINABLE DESIGN OF HYDROKINETIC TURBINE BLADES Selef García Orozco	ENVIRONMENTAL CRITERIA FOR THE CONSTRUCTION OF A MARINE POWER PLANT María Carmen Espinosa Espinosa
16:00 - 16:20	EXPERIMENTAL STUDY ON THE PERFORMANCE OF WINGLETS ON THE BLADES OF HORIZONTAL AXIS TIDAL TURBINES Rodolfo Olvera Trejo	WAVE ENERGY IN THE GREATER ANTILLES: A SATELLITE RECOGNITION FOR ITS USE AND SOCIAL BENEFIT IN SMALL COASTAL SETTLEMENTS José Ramón Hernández Santana
16:20 - 16:40	EXPERIMENTAL AND NUMERICAL RESULTS ON THE HIPA HYDROGENERATOR WITH HELICAL AND STRAIGHT ROTORS Sergio David Barranco	DISTRIBUTION AND ABUNDANCE OF WHALES AND DOLPHINS IN THE SOUTHERN CALIFORNIA CURRENT ECOSYSTEM, 2017-2021 Gisela Heckel Dziendzielewski

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Monday – August 22, 2022

Mexico City time	Technical session 4 Offshore wind energy	Technical session 5 Biomaterials
	Auditorium	Room 1
17:10 - 17:30	OFFSHORE WIND POWER IN THE PENINSULA OF BAJA CALIFORNIA Héctor García Nava	WEAK SHOCK WAVE-MEDIATED FUcoxanthin EXTRACTION FROM SARGASSUM spp. AND ITS ELECTROCHEMICAL QUANTIFICATION Gustavo Andrés Molina Labastida
17:30 - 17:50	ASSESSING THE OFFSHORE WIND ENERGY IN THE GULF OF TEHUANTEPEC AND THE DYNAMIC OF A FLOATING PLATFORM Diego Fernando Bernal Camacho	DRUG REMOVAL USING AN ECOFRIENDLY FILTRATION SYSTEM BASED ON SARGASSUM José Luis López Miranda
17:50 - 18:10	NUMERICAL SIMULATION OF THE HORIZONTAL AXIS WIND TURBINE ROTOR AERODYNAMICS Alan Saih Hernández Acosta	SARGASSUM INFLUX ON THE MEXICAN COAST: A SOURCE FOR SYNTHESIZING SILVER NANOPARTICLES WITH CATALYTIC AND ANTIBACTERIAL PROPERTIES Miriam Rocio Estevez González
18:10 - 18:30	A REVIEW OF GREEN HYDROGEN PRODUCTION FROM OFFSHORE WIND POWER AND MARINE ENERGIES Malinalli Pérez Viguera	EVALUATION OF THE THERMAL AND MECHANICAL PROPERTIES OF SARGASSUM spp-BASED COMPOSITE Fabian Mares Briones
18:30 - 18:50	TIME AND FREQUENCY DOMAIN COLLECTOR DESIGN APPLIED TO A COMPUTATIONAL TOOL Paulina Lizeth Cuevas Muñoz	CARBON DOTS SYNTHESIZED FROM SARGASSUM spp. AN EFFICIENT ANTIBACTERIAL NANOMATERIAL AND BACTERIAL DETECTOR Marlen Alexis González Reyna

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Tuesday – August 23, 2022

Mexico City time	Technical session 6 Salinity gradient energy / Integration to the network	Technical session 7 Wave energy converters
	Auditorium	Room 1
11:30 - 11:50	CONCEPTUALIZATION OF THE DESIGN OF A RED PLANT FOR SALINE GRADIENT ENERGY PRODUCTION Montserrat Karina Ortiz Salcedo	HYDRODYNAMIC ANALYSIS OF A WAVE ENERGY CONVERTER (WEC) FOR THE AREA WITH THE HIGHEST POTENTIAL IN THE GULF OF MEXICO María José Peralta Espinoza
11:50 - 12:10	RAPID PROTOTYPING IN REVERSE ELECTRODIALYSIS CELLS USING 3-D PRINTING Elier Sandoval Sánchez	WAVE ENERGY FOCUSING USING A SUBSURFACE CONCAVE PLATE Manuel Gerardo Verduzco Zapata
12:10 - 12:30	CHARACTERIZATION OF REVERSE ELECTRODIALYSIS PROCESS PART II: CONDUCTIVE AND STABLE ELECTRODES FOR RED APPLICATIONS Jesus Nahum Hernandez Perez	NUMERICAL SIMULATION OF AN OSCILLATING WAVE SURGE CONVERTER USING THE SPH METHOD Yesenia Morgado Peláez
12:30 - 12:50	USE OF SARGASSUM FOR NANO-STRUCTURED POLYMER MEMBRANE IN ION EXCHANGE DEVICES Daniela Rodríguez Sogamoso	METHODOLOGY OF THE EXPERIMENTAL TESTING OF AN OSCILLATING WATER COLUMN DEVICE IN A WAVE BASIN Ayrtón Alfonso Medina Rodríguez
12:50 - 13:10	PEM ELECTROLYSER DESIGN FOR TEST ELECTRODES MEMBRANE ASSEMBLY Carlos Ruben Navarro Castillo	SIMULATION OF A WAVE ENERGY CONCENTRATING LENS Sandra Guadalupe Torres Mendoza
13:10 - 13:30	PROTECTION SCHEME FOR FREQUENCY AND VOLTAGE VARIATIONS IN MARINE TURBINE FARM Abraham Reveles Pinedo	RECENT ADVANCES IN THE DEVELOPMENT OF THE WEC-SGP: FROM NUMERICAL SIMULATIONS TO LABORATORY TESTING Diego Eduardo Galván Pozos

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Tuesday – August 23, 2022

Mexico City time	Technical session 8 Ocean Thermal Energy Conversion (OTEC) II	Technical session 9 Integral aspects of ocean energy projects I
	Auditorium	Room 1
17:30 - 17:50	OTEC-1, RESULTS OF CTD, DRIFTING BUOY AND ADCP Juan Francisco Bárcenas Graniel	WAVE ENERGY ASSESMENT IN CABO SAN LUCAS, BAJA CALIFORNIA SUR Víctor Mauricio De la Cruz Juárez
17:50 - 18:10	COLLECTING OF SEDIMENTS, BIOLOGICAL, AND WATER SAMPLES DURING THE OTEC-1 CRUISE WITH THE GOAL OF BETTER UNDERSTANDING THE ENVIRONMENT OF SITES SELECTED FOR IMPLEMENTATION OF OTEC TECHNOLOGY Ricardo Efraín Hernández Contreras	NEW ASSESSMENT OF WAVE ENERGY IN RELATION TO GEOMORPHOLOGICAL AND DEMOGRAPHIC CHARACTERISTICS ON THE PACIFIC COAST OF BAJA CALIFORNIA, MEXICO Yudisleyvis Ventura Díaz
18:10 - 18:30	POTENTIAL FOR ENERGY HARVESTING AT TWO SITES IN BAJA CALIFORNIA SUR Armando Trasviña Castro	ECO WAVE POWER MANZANILLO I Grecia Malitzin Flores Altamirano

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Wednesday – August 24, 2022

	Technical session 10 Energy resources: waves and currents	Technical session 11 Technological development: materials and devices
	Auditorium	Room 1
9:00 - 9:20	EFFECTS OF MARINE TURBINE FIELDS ON OCEANIC CURRENTS AND ASSOCIATED PROCESSES OF ECOLOGICAL RELEVANCE (UPWELLING AND DISPERSION PATTERNS): NUMERICAL MODELLING STUDY OF THE COZUMEL CHANNEL Cecilia Enriquez Ortiz	STRUCTURE-PROPERTY RELATIONSHIP OF POLYMETHACRYLATES FOR COATING APPLICATIONS Angel Ramon Hernandez Martinez
09:20 - 09:40	RECENT RESULTS OF THE ENERGY POTENTIAL OF MARINE CURRENTS IN BAJA CALIFORNIA SUR María Yesenia Torres Hernández	USE OF PROCESS-MICROSTRUCTURE-PROPERTIES-PERFORMANCE MAPS (PMPP) TO DEVELOP ANTIMICROBIAL SUSCEPTIBILITY OF AISI 304 STAINLESS STEEL Francisco Jose Martinez Baltodano
09:40 - 10:00	WAVE POWER IN MEXICAN WATERS: A NUMERICAL ESTIMATE USING HIGH SPATIAL RESOLUTION Germán Barrera Martínez	ANALYSIS OF ALTERNATIVES FOR SURFACE MODIFICATION OF STAINLESS STEEL TO AVOID ITS DETERIORATION THROUGH THE USE OF PROCESS-MICROSTRUCTURE-PROPERTY-PERFORMANCE MAPS (PMPP) Gregorio Vargas Gutierrez
10:00 - 10:20	ANALYSIS OF WAVE POWER IN THE PACIFIC OCEAN WATERS NEAR THE COASTAL REGION IN THE NORTHWEST OF MEXICO: ESTIMATION OF RELEVANT PARAMETERS FOR LABORATORY EXPERIMENTS Francisco Javier Ocampo Torres	ELECTRODEPOSITION OF SILVER AND COPPER IONS ON AISI 304 STEEL SURFACES PREVIOUSLY MODIFIED BY OXI-NITROCARBURATION Coraquetzali Magdalena Lopez
10:20 - 10:40	LONG-TERM TREND AND EXTREME WAVE ANALYSIS IN MEXICAN SEAS USING NUMERICAL RESULTS: IMPLICATIONS FOR THE ESTIMATION OF WAVE POWER AND WEC DESIGN José Pedro Osuna Cañedo	TECHNOLOGY READINESS LEVEL (TRL) MAPPING OF CEMIE-OCÉANO PROJECTS Lizsandra López Ojeda
10:40 - 11:00	THE FUTURE OF WAVE ENERGY HARVESTING ON EXTRATROPICAL COASTS Itxaso Odériz Martínez	

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Wednesday – August 24, 2022

	Technical session 12 Integral aspects of ocean energy projects II	Technical session 13 Marine and coastal processes
	Auditorium	Room 1
11:30 - 11:50	MARINE ENERGY BIOTOPES IN COZUMEL ISLAND: A CONVERGENCE BETWEEN OCEAN ENERGY, ENVIRONMENT AND TOURISM Juan Carlos Alcérreca Huerta	A 30-YEAR WAVE AND WIND ENERGY CLIMATOLOGY FOR COSTA RICA SURROUNDING WATERS Rodney Eduardo Mora Escalante
11:50 - 12:10	COMPARISSON OF THE ASSESSMENT OF THE FINANCIAL FEASIBILITY OF TWO DIFFERENT OTEC PROJECTS: A CASE STUDY AT COZUMEL ISLAND Erika Paola Garduño Ruiz	HUMAN BIOCLIMATIC ATLAS FOR SPAIN: PRESENT AND FUTURE 2050 Álvaro Muela Pérez
12:10 - 12:30	POTENTIAL AREAS FOR THE HARNESSING OF OCEAN ENERGY IN THE MEXICAN CARIBBEAN USING SOCIAL AND ENVIRONMENTAL DATA Gabriela Mendoza González	ASSESSMENT OF HYDRODYNAMIC FORCES CAUSED BY TSUNAMIS ON STRUCTURES Omar Salvador Areu Rangel
12:30 - 12:50	PLANNING GUIDE FOR THE PRE-FEASIBILITY STAGE AND CASE STUDY OF A WAVE ENERGY PROJECT IN ENSENADA, BAJA CALIFORNIA Maria Fernanda Loaiza Valdes	EFFECTS OF TIDES AND TROPICAL CYCLONES ON GROUNDWATER LEVELS IN ARID ZONES Miguel Angel Imaz Lamadrid
12:50 - 13:10	WAVE ENERGY ECOPARKS: TECHNO-ECONOMIC FESIBILITY IN BAJA CALIFORNIA, MEXICO Emiliano Gorr Pozzi	SPATIO-TEMPORAL VARIABILITY OF SHORELINE IN PUERTO MORELOS REEF NATIONAL PARK Laura R. de Almeida
13:10 - 13:30	ATTITUDES ABOUT MARINE RENEWABLE ENERGIES OF RESIDENTS IN LA PAZ, BAJA CALIFORNIA SUR Astrid Wojtarowski Leal	

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POSTER SESSIONS

Mexico City time	Posters session 1	
	Monday – August 22, 2022	
	Auditorium / Room 1 / Online	
16:40 - 16:50	DESIGN AND SIMULATION OF A 50KWE HYDROKINETIC TURBINE FOR THE CURRENTS OF THE COZUMEL CHANNEL Adriel Johanam Canul Arévalo	
16:50 - 17:00	LOSS MODEL OF A GENERATION PLANT BY MARINE CURRENTS Lissette Valdivia Díaz	
17:00 - 17:10	SCALE VALIDATION OF AN ELECTRICAL GENERATION SYSTEM FROM OCEAN CURRENTS Ubaldo jasso Ruiz	

Mexico City time	Posters session 2	
	Tuesday – August 23, 2022	
	Auditorium / Room 1 / Online	
11:00 - 11:10	CHARACTERIZATION OF OFFSHORE WIND POTENTIAL IN THE YUCATAN PENINSULA Estefanía García Caballero	
11:10 - 11:20	SELECTIVE ELECTRODISSOLUTION OF AISI 304 STAINLESS STEEL TO REDUCE CORROSION, WEAR AND MICROBIAL SUSCEPTIBILITY Halima Valeria Suarez Miranda	
11:20 - 11:30		

Mexico City time	Posters session 3	
	Tuesday – August 23, 2022	
	Auditorium / Room 1 / Online	
16:20 - 16:30	COLDAG TECHNOLOGY (COLD WATER AGRICULTURE) AND ITS DEVELOPMENT IN DIFFERENT COUNTRIES WITH THE IMPLEMENTATION OF THE OTEC SYSTEM Alejandro García Huante	
16:30 - 16:40	BATHYMETRIC EXPLORATION OF THREE AREAS WITH POTENTIAL FOR OTEC IN THE MEXICAN PACIFIC Francisco Ponce Núñez	
16:40 - 16:50	MODELATION, EVALUATION AND ESTIMATION OF THE GEOTHERMAL POTENCIAL FOR THE ELECTRIC ENERGY GENERATION IN THE WAGNER BASIN Oscar López Villagómez	

Mexico City time	Posters session 4	
	Wednesday – August 24, 2022	
	Auditorium / Room 1 / Online	
11:00 - 11:10	COASTAL ZONE MANAGEMENT APPROACH FOR THE INCORPORATION OF MARINE ENERGY: CASE STUDY LA PAZ, BCS Graciela Rivera Camacho	
11:10 - 11:20	DIVERSITY OF ORGANISMS SIGHTED AND COLLECTED DURING THE OTEC-I OCEANOGRAPHIC CAMPAIGN IN THE MEXICAN PACIFIC OCEAN AND THE POSSIBLE IMPACTS OF AN OTEC PLANT ON THESE Cecilia López Chávez	
11:20 - 11:30	GOLDEN ARRIVALS TO THE BEACH OF PUERTO MORELOS, MEXICO Evelyn Raquel Salas Acosta	

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SPECIAL SESSIONS

Mexico City time	Special Session 1 - Environment	
	Monday – August 22, 2022	
	Auditorium / Online	
09:20 - 09:50	Keynote lecture: ENVIRONMENTAL EFFECTS OF MARINE RENEWABLE ENERGY – GOING BEYOND “ONE ANIMAL-ONE DEVICE” INTERACTIONS Andrea Copping	
09:50 - 10:05	ECOHYDROLOGIC REHABILITATION AS A STRATEGY TO RECOVER THE BIODIVERSITY OF COASTAL LAGOONS INDIRECTLY IMPAIRED BY ELECTRICAL ENERGY INFRASTRUCTURE Jorge Alejandro López Portillo Guzmán	
10:05 - 10:20	MARINE RENEWABLE ENERGY PLANTS AND THEIR POTENTIAL EFFECTS ON MARINE MAMMALS IN MEXICO Vianey Cabello Figueroa	
10:20 - 10:35	SOCIOECONOMIC NEEDS, ENVIRONMENTAL RESTRICTIONS AND OPPORTUNITIES FOR MARINE RENEWABLE ENERGY IN MEXICO M. Luisa Martínez Vázquez	
10:35 - 11:20	Q&A	

Mexico City time	Special Session 2 - Technology development	
	Tuesday – August 23, 2022	
	Auditorium / Online	
09:00 - 09:30	Keynote lecture: <i>TITLE TO BE CONFIRMED</i> Frank Neumann	
09:30 - 09:45	THREE-DIMENSIONAL HYDRODYNAMIC MODELLING OF AN OSCILLATING WATER COLUMN DEVICE BASED ON A HELMHOLTZ RESONATOR Ayrton Alfonso Medina Rodríguez	
09:45 - 10:00	SALINITY GRADIENT POWER SYSTEMS FOCUSED ON WATER DESALINATION Ziomara De la Cruz Barragán	
10:00 - 10:15	NUMERICAL SIMULATION OF THERMOFLUIDS OF A CENTRIFUGAL PUMP FOR A 1 KWE OTEC PROTOTYPE IN THE MEXICAN CARIBBEAN SEA Víctor Manuel Romero Medina	
10:15 - 10:30	ENERGY STORAGE REQUIREMENTS IN A STAND-ALONE PV-MARINE CURRENT HYBRID SYSTEM Jorge Olmedo González	
10:30 - 11:00	Q&A	

Mexico City time	Special Session 3: Current energy	
	Tuesday – August 23, 2022	
	Auditorium / Online	
15:00 - 15:30	Keynote lecture: TIDAL ENERGY – CONSIDERATIONS WHEN HARVESTING ENERGY FROM LOWER ENERGETIC FLOWS Cameron Johnstone	
15:30 - 15:45	TURBULENCE AND WAVE-RELATED VARIABILITY ON THE OCEANIC CURRENT RESOURCE IN THE COZUMEL Ismael Mariño Tapia	
15:45 - 16:00	KEY PARAMETERS TO DESIGN TIDAL STREAM TURBINES Tim O'Doherty	
16:00 - 16:15	EXPERIMENTS TO CHARACTERISE A VERTICAL AXIS HELICAL TURBINE Carlos Echeverría Arjonilla	
16:15 - 16:30	EXPERIMENTAL ANALYSIS OF HORIZONTAL AXIS TURBINE USED FOR LOW FLOW VELOCITY SITES Stephanie Ordoñez Sánchez	
16:30 - 17:00	Q&A	

Mexico City time	Special session 4: Technology implementation / Closing Ceremony
	Wednesday – August 24, 2022
	Auditorium / Online
15:00 - 15:30	Keynote lecture: LOGROS Y RETOS DEL CEMIE-OCÉANO Rodolfo Silva
15:30 - 16:00	Guest speakers
16:00 - 16:30	Q&A
16:30 - 17:00	Closing ceremony

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