



Tuesday 19th June

Time	Item	Notes
Due Time	Arrival of Delegations	
18.00	Registration	
18.30	Official Opening	Location: Open Area
19.00	Authorities visit to exhibition area	
20.00	Welcome Cocktail	Location: o/b ITS FASAN – ITS RIZZO

Wednesday 20th June

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Conference Room 1



Exhibition Area



Conference Room 2



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Time	Item	Notes
08.30/12.00	SEMINAR “A comprehensive approach to Maritime Security”	STRATEGIC/POLITICAL seminar Organized by Italian Navy Head of Navies delegations requested Detailed Agenda in Annex 1.a
09.00/12.00	“STRATUS – Environmental strategies for sustainable tourism” Project Steering Committee Meeting	RESTRICTED meeting Organized by ENEA <i>Participation of Navies delegations representative on a voluntary basis</i>
09.30/13.00	Advanced Bilateral Meetings	
09.30/11.30	SEMINAR “Life Cycle Management Organized by means of Operational Availability (OA) and Life Cycle Cost (LCC)”	TECHNICAL seminar Organized by Systecon and Italian Navy Logistic Command <i>Participation of Navies delegations representative requested</i> Detailed agenda in Annex 1.b
10.00/13.00	WORKSHOP “Blue Growth Funding Opportunities: Horizon2020 & Beyond _for creating a leadership in maritime industry”	TECHNICAL workshop Organized by EEN, Alps Liguria <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed agenda in Annex 1.c
13.00/14.00	<i>Lunch Break</i>	
14.00/18.00	Advanced Bilateral Meetings	
14.00/18.30	SEA DAY (ITS Euro, ITS Aviere, ITS Driade)	<i>Head of Navies delegations requested</i>
14.00/18.30	“STRATUS – Environmental strategies for sustainable tourism” Advisory Board members workshop	RESTRICTED meeting Organized by ENEA <i>Participation of Navies delegations representative on a voluntary basis</i>

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Time	Item	Notes
14.15/14.30	SEAFUTURE International Prize “Blue Economy”	OPEN EVENT <i>Participation of Navies delegations representative on a voluntary basis</i>
14.30/17.00	SEMINAR “The Mediterranean multimodal corridor: connecting Europe with the support of the TEN-T network”	STRATEGIC/POLITICAL seminar Organized by Italian Transport and Infrastructure Ministry (MIT) <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 1.d
14.30/17.15	SEMINAR “International Naval Safety Association - The First 10 Years”	TECHNICAL seminar Organized by International Naval Safety Association (INSA) <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 1.e
14.30/17.15	WORKSHOP “The Italian technological defence research”	TECHNICAL workshop Organized by SGD <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 1.f
18.00	<i>CLOSING TIME</i>	
20.30	Networking Dinner	Private event only with invitation. <i>Head of Navies delegations requested (entire delegation welcome)</i> Location: Lerici

Thursday 21st June

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Time	Item	Notes
09.00/13.00	SEMINAR “Electromagnetic spectrum control onboard military vessels”	TECHNICAL seminar Organized by ATENA- UNIPI Detailed Agenda in Annex 2.a
09.30/13.00	Advanced Bilateral Meetings	
09.30/13.00	SEMINAR “Industry Day - Facing global challenges through innovation technologies towards SHIP 4.0”	STRATEGIC/POLITICAL seminar Organized by Industry members and Nautica Italiana <i>Head of Navies delegations requested</i> Detailed Agenda in Annex 2.b
09.30/13.00	Innovation Fair “STRATUS, environmental strategies for sustainable tourism” – Section 1	TECHNICAL meeting Organized by ENEA Detailed Agenda in Annex 2.c
13.00/14.00	<i>Lunch Break</i>	
14.00/18.00	Advanced Bilateral Meetings	
14.00/14.30	SEMINAR Project presentation “Improving on board Safety: the Italian Navy & Martec partnership”	TECHNICAL seminar Organized by NAVARM <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 2.d
14.30/16.30	SEMINAR “Industry Day Refitting and Demolition Experiences”	STRATEGIC/POLITICAL seminar <i>Head of selected Navies delegations requested</i> Detailed Agenda in Annex 2.i
14.30/18.00	Innovation Fair “STRATUS, Environmental strategies for sustainable tourism” – Section 2	B2B Session Organized by ENEA

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Time	Item	Notes
14.45/15.15	SEMINAR Project presentation “Lithium Batteries - an Italian solution for their application in U212A Submarine class propulsion.	TECHNICAL seminar Organized by NAVARM <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 2.e
15.30/16.00	SEMINAR Project presentation “Guided Ammunition technologies: steps forward from initial studies to the current national programs”	TECHNICAL seminar Organized by NAVARM <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 2.f
15.30/17.15	WORKSHOP “Use of unmanned systems in underwater warfare”	RESTRICTED workshop (by invitation only) Organized by Italian Navy – CSSN <i>Participation of Navies delegations representative on a voluntary basis</i>
16.15/16.45	SEMINAR Project presentation “Implementing the Human Centred Design: use Virtual Reality into the Design Process”	TECHNICAL seminar Organized by NAVARM <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 2.g
16.45/18.30	WORKSHOP “European strategic Technologies Foresight”	STRATEGIC/POLITICAL workshop Organized by SGD (in cooperation with Engineering Ingegneria Informatica and Zanasi and Partners). Detailed Agenda in Annex 2.1
17:00/17:30	SEMINAR MARAMASP Initiative “3D Printed Spare Parts Production”	TECHNICAL seminar Organized by DRAGONFLY <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 2.h
18.00	<i>CLOSING TIME</i>	

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Time	Item	Notes
18:00	GOSP Concert by Giovane Orchestra Spezzina and Conservatorio Puccini Orchestra. (European Music Day)	Location: Teatro Civico - Piazza Mentana, 1, 19121 La Spezia SP.
20.45	Concert of Italian Navy Band and Conservatorio Puccini Orchestra. (European Music Day)	<i>Head of Navies delegations requested</i> Location: Teatro Civico - Piazza Mentana, 1, 19121 La Spezia SP.

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Friday 22nd June

Time	Item	Notes
09.00/10.40	SEMINAR “Naval design for everybody”	DISSEMINATION seminar Organized by CSSN and DLTM OPEN EVENT Detailed Agenda in Annex 3.c
09.30/13.00	Advanced Bilateral Meetings	
09.30/13.00	WORKSHOP “Use of unmanned systems in underwater warfare”	RESTRICTED workshop (by invitation only) Organized by Italian Navy – CSSN <i>Participation of Navies delegations representative on a voluntary basis</i>
09.30/11.00	SEMINAR ROLE PLAY “Cyber crisis management”	TECHNICAL seminar Organized by SGD Detailed Agenda in Annex 3.a
09.30/13.00	SEMINAR “Excellence in defence Procurement”	STRATEGIC/POLITICAL seminar Organized by OCCAR <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 3.b
10.15/11.00	SEMINAR Maritime structural research at TU Delft	TECHNICAL seminar Organized by TU Delft <i>Participation of Navies delegations representative on a voluntary basis</i> Detailed Agenda in Annex 3.d
10.40/11.00	PRIZE Science Book Award	DISSEMINATION event Organized by WWF La Spezia/FAI/Cinque Terre Academy OPEN EVENT

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Time	Item	Notes
10.45/11.00	<p>“SEAFUTURE stands up for young generations”</p> <p>The young sailors will arrive with their little Optimist boats to race in the roadstead of the Navy Base. They will be the symbol of a healthy and protected sea, the ideal environment to grow.</p>	DISSEMINATION event Organized by DLTM and CSSN OPEN EVENT
11.00/11.30	SEMINAR “Haruspex suite - An Innovative technology to counter Cyber attacks”	TECHNICAL seminar Organized by Prof. Fabrizio BAIARDI Detailed Agenda in Annex 3.e
11.00/13.00	SEMINAR “Understanding our marine universe: economic, scientific implications” Part 1: The experts’ point of view	DISSEMINATION seminar Organized by DLTM OPEN EVENT Detailed Agenda in Annex 3.f
11.00/13.00	SEMINAR “Environmental quality, coastal and port development: through eco-dredging, the necessary coexistence is now possible!”	TECHNICAL seminar Organized by DECOMAR and DLTM Detailed Agenda in Annex 3.g
13.00/17.00	SEMINAR “Water in the Mediterranean region”	TECHNICAL seminar Organized by DLTM, ULPGC, University of Sfax, Suez Canal University, Université Sidi, University College Dublin – Marine Technology Society Detailed Agenda in Annex 3.h
13.00/14.00	<i>Lunch Break</i>	
14.00/18.00	Advanced Bilateral Meetings	

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Time	Item	Notes
14.00/15.00	SEMINAR “Understanding our marine universe: economic, scientific implications” Part 2: The institutional point of view	STRATEGIC/POLITICAL seminar Organized by DLTM Detailed Agenda in Annex 3.i
14.00/15.00	SEMINAR “Naval Warfare and Maritime Operations: operational and technical aspects of Rotary Unmanned Aerial System (RUAS) deployment”	STRATEGIC/POLITICAL seminar Organized by LEONARDO
14.30/17.00	WORKSHOP “Use of unmanned systems in underwater warfare”	RESTRICTED workshop (by invitation only) Organized by Italian Navy – CSSN <i>Participation of Navies delegations representative on a voluntary basis</i>
15.00/17.00	SEMINAR “STAND FAST! 40 years on the side of the sea”	DISSEMINATION seminar Organized by SEASHEPHERD - Premio Montale Fuori di Casa, SKIRA’ editore FAI/WWF La Spezia Detailed Agenda in Annex 3.1
17.15/18.00	SEAFUTURE Awards	
18.00	<i>FAREWELL GREETINGS</i>	<i>Head of Navies delegations requested</i>

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Saturday 23rd June

Time	Item	Notes
09.00/18.00	5 Terre National Park Regatta – “SEAFUTURE is here for everybody”	REGATTA Start: Scuola di Mare S. Teresa – Lerici Details in Annex 4.a
09.30/13.00	SEMINAR FORUM EIEAD 2018 “The New Playgrounds of Industrial Global Power: The Eurasian Economic Union and the Black Sea Region”.	STRATEGIC/POLITICAL seminar Details in Annex 4.b

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CULTURAL EVENTS

a) Special Exhibitions at the Technical Naval Museum

- “The Great War on the Sea: Past and Present”
- “A World of Plastic / Plastica(mente)” - Organized by ISPRA (Italian National Institute for Environmental Protection and Research), DLTM, Blue Hub and Rotary Club of la Spezia (Club Rotary Distretto 2031)

Special visits may be organized for the foreign Navies (please ask at the desk for more informations).

b) World Music Day - 21st June - Concert of Italian Navy Band and La Spezia Conservatoire at Teatro Civico della Spezia (Piazza Mentana, 1, 19121 La Spezia SP).

ANNEXES

1.a SEMINAR “A comprehensive approach to Maritime Security”

1.b SEMINAR “Life Cycle Management Organized by means of Operational Availability (OA) and Life Cycle Cost (LCC)”

1.c WORKSHOP “Blue Growth Funding Opportunities: Horizon 2020 & Beyond_ for creating a leadership in maritime industry”

1.d SEMINAR “The Mediterranean multimodal corridor: connecting Europe with the support of the TEN-T network”

1.e SEMINAR “International Naval Safety Association – The First 10 Years”

1.f WORKSHOP “The Italian technological defence research”

2.a SEMINAR “Electromagnetic spectrum control onboard military vessel”

2.b SEMINAR “Industry Day - Facing global challenges through innovation technologies, towards SHIP 4.0”

2.c INNOVATION FAIR Project “Environmental Strategies for Sustainable Tourism STRATUS”

2.d Project presentation “Improving on board safety: the Italian Navy & Martec partnership”

2.e Project presentation “Lithium batteries – an Italian solution for their application in U212A Submarine class propulsion”

2.f Project presentation “Guided Ammunition technologies: steps forward from initial studies to the current national programs”

2.g Project presentation “Implementing the Human Centred Design: use Virtual Reality into the Design Process”

2.h MARAMASP Initiative “3D Printed Spare Parts Production”

2.i “Industry Day Refitting and Demolition Experiences”

2.l “European strategic Technologies Forecasting”

3.a ROLE PLAY “Cyber crisis management”

3.b SEMINAR Excellence in defence procurement



3.c SEMINAR Naval Design for Everybody

3.d SEMINAR Maritime structural research at TU Delft

3.f SEMINAR “Understanding our marine universe: economic, scientific implications” Part 1: The experts” point of view.

3.g SEMINAR “Environmental quality, coastal and port development: through eco-dredging, the necessary coexistence is now possible!”

3.h SEMINAR “Water in the Mediterranean Region”

3.i SEMINAR “Understanding our marine universe: economic, scientific implications” Part 2: The institutional point of view

3.l SEMINAR “STAND FAST! 40 years on the side of the sea”

Wednesday 20th June

Main Theme:

A comprehensive approach to Maritime Security

Executive Summary:

A forum dedicated to analyse modern threats in the Maritime Domain linked to National economic interests and worldwide traffics security and stability, through a think-tank approach with the support of main actors of the Italian maritime cluster in order to stress traditional and modern point of views (POVs), including the increasing interconnection between Maritime and Cyber domains.

Period	Time	Item/Speaker
08.30/11.40	08.30	Administrative Remarks
	08.35	Chairman Introduction Rear Admiral / Captain (N) Italian Navy
	Geo-Strategic Assessment	
	08.40	CeSI (Mr. DI LIDDO, Senior Analyst Desk Africa, Balcani and Ex URSS)
	09.00	MAECI (Couns. Daniele BOSIO, Coordinator for Maritime Security Affairs – Direction General for Political Affairs and Security)
	National POVs	
	9.20	CINCPNAV (RDML VIRDIS, COMDINAV UNO)
	9.40	Major. Alberto LIPPOLIS GdF
	10.00	MARICOGECAP (RDML) CARLONE

Period	Time	Item/Speaker
	10.20 – 10.40	<i>Coffee Break</i>
	International POVs	
	10.40	SOPHIA (RADM CREDENDINO – OP COMMANDER)
	11.00	IT Navy (RDML Gianfranco ANNUNZIATA, <i>Deputy Chief of the Plans, Operations and Maritime Strategy Dept.</i>) “Broader Maritime Security: the role of multinational initiatives”
	New threats in the Global commons’ interconnection (Maritime and Cyber)	
	11.20	Cyber Security (Dr Umberto RAPETTO) “Human Knowledge as Opportunity”
11.40/12.10	Final Discussion	
12.10/12.15	Closing Remarks	

Wednesday 20th June

Main Theme:

Life Cycle Management Organized by means of Operational Availability (OA) and Life Cycle Cost (LCC)

Executive Summary:

Budgets for defence equipment are shrinking and human resources are becoming more critical, while the life cycle needs to face new threats are increasing. This requires a tailored life cycle management approach for Warships development, production and in-service support, in order to achieve the best balance between effectiveness and costs all along the life cycle. Since this objective can be embodied Organized by the “ratio” between the Operational Availability of the Primary System (e.g. the ship) and the Life Cycle Cost of the Operating System (e.g. ships plus associated support system), these two figures were identified as requirements and control measures for the "through-life management" of the Fleet. To evaluate and provide for the financial sustainability of the operating system requires proper design processes, methods, models and the adoption of analytic, simulation-and statistic SW tools. The Italian Navy has developed the specific knowhow and its concrete application put in place in the new constructions.

Period	Time	Item/Speaker
09.30/11.30	09.30	Chairman Introduction Captain (N) Luigi SCHINELLI , Research Strategy & Programs and Planning Office Head. <i>Secretariat General of Defence / National Armaments Directorate – 5th Directorate “Technological Innovation”</i>
	09.45	“The Cornerstones of Life Cycle Management” Tomas ERIKSSON, Chief Executive Officer <i>Systecon Group</i>
	10.10	“Life Cycle Cost” Captain (N) Carlo ALIBERTI , Integrated Logistic & International Cooperation Office Head <i>Italian Navy Logistic Command</i>
	10.35	“Operational Availability” Eng. Armando VENDITTELLI , TGS FREMM Program Supply Coordinator <i>Orizzonte Sistemi Navali</i>
11.00/11.30	Final Discussion	

Wednesday 20th June

WORKSHOP “Blue Growth Funding Opportunities: Horizon2020 & Beyond_for creating a leadership in maritime industry”.

Main Theme:

Funding opportunities at EU level for research and innovation activities in the field of “blue growth/blue economy”

Executive Summary:

This workshop – in the framework of the INTERREG EUROPE CLIPPER Project (Creating a leadership for maritime industries New opportunities in Europe) - is focused on the opportunities available for the period 2018-2020 in the field of blue growth for investments in research and innovation. The workshop targets SMEs, corporates, research centres, Clusters, Public Authorities willing to develop initiatives at EU level allowing the “blue economy” to grow in competitiveness and innovation.

Period	Time	Item/Speaker
10:00/13.00	10.00	Opening session Organized by main organizers
	10.10	The EEN Network and the services in support of research and innovation activities - Unioncamere Liguria
	10.20	Horizon 2020: the EU framework programme for research and innovation – Focus on SME Instrument and Fast Track to Innovation Measures - Alessia ROTOLO – APRE
	10:50	Dott. Giuseppe TORTORA – V Reparto - Segredifesa
11:30/13.00	Bilateral meetings with companies/research centres/public authorities interested in developing project proposals at EU level. The meetings have to be requested by e-mail to alpsliguria@lig.camcom.it by providing a short presentation of the project idea (DEADLINE 18 th June 2018).	

Wednesday 20th June

Main Theme:

The Mediterranean multimodal corridor: connecting Europe with the support of the TEN-T network

Executive summary:

The development of European logistics through an increase in the connections of European rail networks, made possible through the integration of TEN-T and last mile national connections with ports. The goal is to promote the modal transfer of goods from road to sea and railways in a new vision of integrated logistics and intermodal transport system. It's necessary to build a European transport network, ranging from the sea to inland waterways and railways, through a sustainable development of the various transport means, in a bid to significantly reduce emissions and the high social costs of road transport. Under this new strategy, rail freight transport can play a major role in favoring interconnection among other types of transport.

CPMR will talk about the current revision of the CEF (regulation in which the routes of the TEN-T priority corridors are defined as the Mediterranean Corridor) and the territorial dimension of the CEF and TEN-T, and the CPMR political positions on this subject.

Period	Time	Item
14.30/17.00	14.30	Ing. Giulia COSTAGLI – Head of Studies and Innovative projects - Italian Railway Network Rete Ferroviaria Italiana (RFI)
	14.50	Dott. Enrico Maria PUJIA - General Manager - Directorate General for Transport and Railway Infrastructures - Ministry of Infrastructures and Transport
	15.10	Guillaume MORENO – Policy Analyst - CPMR
	15.30	Dott. Emanuele GRIMALDI – CEO – Grimaldi Group
	15.50	Ing. Marco TERRANOVA - FER CARGO
16.15/17.00	Final Discussion	

Wednesday 20th June

Main Theme:

International Naval Safety Association - The First 10 Years

Executive Summary:

Over the last 10 years and in response to a request from NATO's Ship Design Capability Group the International Navy Safety Association (INSA) - a team of international Navies and Classification Societies - has been developing and now published a safety code for warships, known as the Naval Ship Code and published as ANEP 77. The code is now used Organized by navies to inform procurement plans and Organized by Classification Societies to benchmark their naval ship rules and Classification Services. This presentation will celebrate and discuss the code's development, its use on a number of recent warship projects to examine both technical and practical application aspects, and the future plans for the code. It will also present the other activities of INSA and invite participation from conference attendees in the work programme of INSA.

Period	Time	Item/Speaker
14.30/17.15	14.30	Nico BRUNI – RINA C.F. Tommaso RUSSO – Italian Navy

Wednesday 20th June

Main Theme:

“The Italian technological defence research”

Executive Summary: Scientific research, together with the resulting technological innovation, is the ideal measure to define the level of social and economic progress of the entire national system, significantly affecting the welfare and quality of life of the entire national economic and innovation system. As part of certain scientific fields, the ability/skills to dominate specific technologies, making advancements, exploiting their potential for national needs, and at the same time, using them as a starting point for further and continued technological and industrial progress is the essential base on which to lay the foundations for the whole development strategy, current and future, of the nation in terms of expanding the wealth of knowledge and know-how, production, employment prospects, and, in general, quality of life. The great challenge of defence research is to foresee the future battlespace, or the theatre of operations in general, in order anticipate the future needs of the warfighter. This knowledge allows us to guide defence research initiatives today that will keep the country relevant in the future.

The current and future funding opportunities for companies in the field of defence technological research in the national military defence plan, which is divided into several strategic lines, as follows:

- in the national context, through the National Plan of Military Research;
- in the European context, through the European Defence Research Plan and the Preparatory Action carried out Organized by the Preparatory Action on Defence Research;
- in NATO, through collaborations with the Science and technology Organization;
- at international level, through bilateral cooperation with countries that want to share technological research with Italy.

Period	Time	Item/Speaker
14.30/17.30	14.30	Opening Remarks – The National Military Research Strategy – Secretary General of Defence/National Armaments Directorate – Captain (N) Luigi SCHINELLI
	14.50	The Italian NATO and international R&T collaboration – Secretary General of Defence/National Armaments Directorate – Lieutenant Colonel Giovanni SEMBENINI
		The Italian technological defence research: success stories
	15.00	OCEAN 2020: the Leonardo led innovative EU defence research project – LEONARDO – Dr. Andrea NATIVI

Period	Time	Item/Speaker
14.30/17.30	15.15	DIRCM: from simulation to operational use on avionics and naval platforms - ELT- Eng. Andrea USAI
	15.30	Cyber Attacks in an embedded and wireless connected world – CY4GATE – Eng. Andrea POMPILI
	15.45	Experiments and applications in Fincantieri for the national Air Independent Propulsion – FINCANTIERI - Eng. Gerardo BORGOGNA
	16.00	Ship simulation: from design to training - CETENA – Eng. Aldo ZINI
	16.15	A strategic approach to Cyber Defense: prevention, training, attribution and organization - Selta – Dr. Antonio CAPORALE
	16.30	Sniper & Drone Detection Systems based on innovative technologies – INTECS – Dr. Mario CIMMINO
	16.45	Automatic Interpretation of SAR Images to support Operative and Tactical Missions (TACTIC) - IDS – Eng. Gianpaolo PINELLI
	17.00	RADAR Solutions for Future Maritime Surveillance Missions - Thales Alenia Space Italia - Eng. Arturo INTELISANO
	17.15	Electric technologies for future complex surface ships: from (new) concepts to proof (in ship design) – University of Trieste – Prof. Giorgio SULLIGOI.
	17.30	Propagation of the magnetic signal in low density ionic solutions (sea water): numerical formalisms and technological applications to port/coast protection – University of Genova – Prof. Osvaldo FAGGIONI.
17.30/17.45	Final Discussion	

Thursday 21st June

Main Theme:

Electromagnetic spectrum control and management – electronic warfare – signature control

Executive Summary:

The strategic plan 2015-2020 of the US Fleet Cyber Command – 10th Fleet includes the following definitions: Electromagnetic Maneuver Warfare (EMW): The Navy’s warfighting approach to gain decisive military advantage in the electromagnetic spectrum (EMS) and enable freedom of action across the range of military operations. Electronic Warfare (EW): Any action involving the use of the electromagnetic spectrum or directed energy to control the spectrum, attack an enemy, or impede enemy assaults via the spectrum.

The electromagnetic spectrum is now assumed to be a domain in its own, as space or cyberspace, whose dominance allows to carry out military actions and to deny this possibility to the adversaries. The traditional concept of electronic warfare evolved and today coincides with the dominance of the em spectrum. The management of electromagnetic problems on board the naval vessels, large metal structures with a very high concentration of em emitters and receivers has always received a high level of attention. New materials, such as gallium arsenide and gallium nitride electronic components, metamaterials and graphene, together with advances in cybernetics, allow performance unthinkable a few years ago, both in the realization of the sensors and in the reduction of the signatures of the platforms. Although in this sector the US technology is undeniably and by far the most advanced, several important Italian industrial companies offer cutting-edge solutions; in this symposium we will try to present some of them.

Period	Time	Item/Speaker
09.00/09.10	09.00	Chairmen Introduction
	09.10- 09.30	Captain F. RUTTERI Maristat N3 Maneuvering within the EMS – the impact of the “Electro Magnetic Spectrum” factor on naval operations and projects.
09.30/11.00	1 st part Chairmen: AIR GIOIA PASSIONE and Admiral C. BOCCALATTE	
	09.30	S. CELENTANO, A. FARINA, G. FOGLIA, L. TIMMONERI - LEONARDO/ ELT Co-existence of AESA (Active Electronically Scanned Array) radar and Electronic Warfare (EW) systems on board of a military ship.

Period	Time	Item/Speaker
09.55/11.00	09.45	M. DONFRANCESCO, M. PATINI - Leonardo - Cyber EM Activities and future solutions for MMI
	10.00	A. MONORCHIO - University of Pisa Challenges in Electromagnetic Design of Future Military Ships
	10.15	Lt. Cdr L. LEMBO - CSSN – ITE Distributed coherent MIMO radar network based on photonics
	10.30	G. PERCIVALE - I.D.S. An innovative modelling procedure for integrated masts design and accurate control of ElectroMagnetic Spectrum related risks
	10.45	A. POMPILI – CY4GATE . The Electronic Warfare meets the Cyber domain
	11.00	<i>Coffee break</i>
11.50/13.30	2 nd part Chairmen. Prof. A. MONORCHIO CV A. GIOVAGNOLA	
	11.30	S. FIRPI MBDA High Power Impulsive RF radiation measurement
	11.45	R. SACCHI - KEYSIGHT Innovative soluzioni for the ‘Spectrum Monitoring’
	12.00	D. PISTOIA - ELT Group Cognitive Spectrum Dominance in Naval Environment
	12.15	A. CAPRIA - CNIT-RaSS Passive radars for maritime surveillance
	12.30	L. SALVANI - CETENA Ship Signature Analysis in Infrared Domain
	12.45	Lt. Cdr. U. DE CEGLIE - CISAM Resolution techniques for image exploitation

Thursday 21st June

Main Theme:

Industry Day - Facing global challenges through innovation technologies, towards SHIP 4.0

Executive Summary:

Shaping new Navies with an overall effort aimed at emphasizing the National Defence Industries excellence – IT Navy FREMM Project Case Study

The participation of companies in the Industry Day has the main purpose of outlining to a highly qualified audience the industrial strategies and priority programmes which will see them as central players on international markets.

Period	Time	Item/Speaker
09.00/12.20	09.00	Chairman Introduction Rear Admiral / Captain (N) <i>Italian Navy</i>
	09.10	IT Navy
	09.30	AIAD
	09.50	FNC “Towards the global dimension of shipbuilding: business - technological innovation and new operational scenarios”
	10.10	LEONARDO Eng. BARATTI
	10.30	MBDA
	10.50	ELETTRONICA
	11.10	<i>Coffee Break</i>
	11.20	CALZONI
	11.40	Cluster P.M.I.
12.00/12.20	Dual Usability of the technological exchange between Leisure Boats and Navy Units Shipbuilders (NAUTICA ITALIANA)	
12.20/12.40	Final Discussion	

Thursday 21st June

Main Theme:

Programme Interreg Italie-France Maritime 2014-2020

Project “Environmental Strategies for Sustainable Tourism – STRATUS”

2° Innovation Fair - in the framework of the 6° edition of SEAFUTURE

Executive summary:

STRATUS project actions (2/2017-2/2019) include the organization of an Innovation and Sustainability Fair, which aims to highlight SMEs good practices for the environmental sustainability (e.g. waste, energy, water, transport, natural resources). In addition, a business to business session (B2B) will facilitate meetings and exchange between SMEs working in innovation and touristic sectors.

For the STRATUS project event, a workshop will be organized, with a morning session dedicated to the presentation of STRATUS project and examples of good innovative practices and technologies - related to sustainability with impact on tourism activities - Organized by invited speakers from the territories (Sardinia, PACA, Liguria) involved in project. A buffet lunch will be offered to participants. The afternoon session will be dedicated to B2B events, bridging 'eco-enterprises' – that provide technical/technological innovative services to improve sustainability in the tourism sector - with companies from Sardinia, PACA, Liguria, needing to improve sustainability of their services. About 20 enterprises representing the Ligurian (10), Sardinian (5) and PACA (5) territory will be invited. Working languages will be Italian and French; a simultaneous translation system (Italian-French) will be available.

Period	Time	Item/Speaker
09.30/13.00	09.30	Welcome and workshop opening (Roberta DELFANTI, PROTER Division Head, ENEA) STRATUS project: objectives and achieved results (Luca SANTAROSSA, STRATUS Project Manager, CRENOS-UniCa)

Period	Time	Item/Speaker
09.30/13.00	10.00	<p>Round-table “Coastal territories and tourism: which models for a sustainable management?”</p> <p>Chairperson: Giacomo DEL CHIAPPA (project STRATUS Scientific coordinator, University of Sassari)</p> <p>Participants:</p> <ul style="list-style-type: none"> - Paolo ASTI (Councelor for Turism, Municipality of La Spezia) - Patrizio SCARPELLINI (Director Cinque Terre National Park, Liguria) - Stefano SENESE (General Secretary Chamber of Commerce 'Riviere Liguria') - Andrea NATERI (President Consortium for touristic operators of Villasimius, Sardinia)
	11.00/11.30	<i>Coffee break</i>
	11.30	<p>Presentation of innovative good practices and technologies for tourism sustainability:</p> <ul style="list-style-type: none"> - WateRevolution platform: ‘Blue solutions’: a strategic approach for blue growth opportunities (Vienna ELEUTERI, Eulabor Institute – VSY) - Sustainable management in the hospitality industry in Liguria and PACA (Samuele PRIMICERI, NH Hotels Group) - Circular economy pathways for tourism sustainability (Claudia BRUNORI, ENEA) - Environmental efficiency and service quality (Gian Carlo LUCCHETTI, Municipality of Varese Ligure) - SME from PACA Region
13.00/14.00	<i>Buffet Lunch</i>	

Thursday 21st June

Main Team:

Project presentation: Improving on board Safety: the Italian Navy & Martec partnership - Organized by NAVARM

Executive Summary:

- Passive Protection: composite ballistic protection systems –BPS
- Active Protection: automatic fire protection systems – AFSS
- Resilient and Redundant Systems: “Safe Return to Port Concept” and shock proof hardware
- Damage Control: manpower reduction (People Tracking System – Breathing Apparatus telemetry)
- Safety oriented Ship knowledge improvement: on board patrol management system, On Line manual, Room and Compartment kill cards, etc..
- Optimized Human Machine Interface and improvement of the ship status presentation: Touch Screen Electronic Incident Board, Portable Terminal Unit, etc..
- Optimized and tailored operator workstations for the key users and for the main control rooms: Commander console, Bridge Tactical Table, etc.

Period	Time	Item
14.00/14.30	14.00	Introduction (Italian Navy: C.F. (Commander) Marco FRACASSI)
	14.05	Improving on board Safety (Martec: Ing. Giuseppe Sergio GRIVA)
14.20/14.30	Final Discussion	

Thursday 21st June

Main theme:

Project presentation: LITHIUM BATTERIES – an Italian solution for their application in U212A Submarine class propulsion - Organized by NAVARM

Executive Summary:

Operational requirements (extended battery endurance and increased high speed capability when submerged, reduced maintenance and extended mean time between battery replacements) –“Far Seas”, a MoD funded research project on Lithium Ion Batteries and Battery Management System: Main Project Guidelines (safety risk reduction, managing risk events, availability in critical conditions, maintainability); Module main technical characteristics; System Architecture – A Lithium Ion Batteries solution “made in Italy” with a “Submarine Concept”.

Period	Time	Item
14.45/15.15	14.45	Administrative Remarks
	14.50	Chairman Introduction Commander <i>Italian Navy</i>
	15.00	Contribution of M. MARIANI Fincantieri/FAAM/Sapienza
15.05/15.15	Final Discussion	

Thursday 21st June

Main Theme:

Project presentation: Guided Ammunition technologies: steps forward from initial studies to the current national programs – Organized by NAVARM

Executive Summary:

Naval Artillery Systems still keep a relevant role in the operation capabilities of the present and future warships. The affordability of new technology in miniaturized sensors, electronic and motors allow the naval artillery rounds to evolve into a new generation of guided ammunitions. This progress will cancel the historical limits of artillery rounds in terms of precision and ranges. The long term collaboration between Italian Ministry of Defence and Leonardo S.p.A. Defence Systems lead the guided ammunitions programs in a wider European team to delivery these new capabilities to the Naval and Land Forces.

Period	Time	Item
15.30/16.00	15.30	Introduction (CF TORTORELLA, PM Vulcano Integrated Project Team)
	15.35	Initial Studies of Guided Ammunition and the Technologies applied.
	15.45	The new capabilities of Guided Ammunitions.
	15.50	Status of Strales and Vulcano Programmes.
15.50/16.00	Final Discussion	

Thursday 21st June

Main Theme:

Project presentation: Implementing the Human Centered Design: use Virtual Reality into the Design Process – Organized by NAVARM.

Executive Summary:

- Systems Usability: a key to project failure or success.
- Introduction to the Human Centered Design Process. IMO Guideline for HCD for E- Navigation
- HCD process as a risk reduction activity.
- Implementing the HCD process: Serious Gaming and Virtual Reality into the design process.
- The General Directorate of Naval Armaments “VR Test equipments”.
- Case studies.

Period	Time	Item
16.15-16.45	16.15	Introduction to the Human Centred Design
	16.30	Case Studies – Ship Design Evaluation with Virtual Reality
16.35/16.45	Final Discussion	

Thursday 21st June

Main Theme:

MARAMASP Initiative “3D Printed Spare Parts Production at La Spezia Arsenal”: Current results and future outlook.

Executive Summary:

Between January and March 2018, the Maritime Military Arsenal of La Spezia has developed, together with Dragonfly, the Phase 1 of the MARAMASP Project, with the aim of experimenting 3D Printing technology as a possible solution for the rapid production of spare parts to reduce the obsolescence risks and long lead times.

Six spare parts have been selected and submitted to the experimentation process with reverse engineering and production with 3D printing. The first six prototypes of the Arsenal were made of alloys of steel, aluminum and titanium.

The complete process (Reverse Engineering with 3D scanning and production with Additive Manufacturing technology) has proven to be able to realize a spare part within 10-20 days. A supply lead time of 30 days is estimated from a "3D Printing" supply chain.

A Financial Business Case has been developed and the results have shown that 3D Printing is an efficient solution to reduce the costs and time of supply of MMI spare parts.

Period	Time	Item/Speaker
17.00/17.30	17.00	Claudio GIARDA – DRAGONFLY

Thursday 21st June

Main Theme:

Industry Day – Refitting and demolition experiences

Executive Summary:

Exploitation of the successful refitting projects of the last decade – IT Navy Corvettes and Patrol boats: Bangladesh Coast Guard and Peruvian Navy Case Studies – Demolition of decommissioned vessels – Italian Agencies for Defence (AID) main experiences.

Period	Time	Item/Speaker
14.30/15.45	14.30	Chairman Introduction Rear Admiral / Captain (N) <i>Italian Navy</i>
	14.40	FNC G. CORBETTA, FINCANTIERI DPV, “Life Cycle Management - Integrated approach to product and service management ”.
	14.55	AID Green ship recycle management Eng. Gian Carlo ANSELMINO – Direttore Generale Agenzia Industrie Difesa CV Mario DE VICO– Capo Business Unit Attività Navali Agenzia Industrie Difesa CV Raffaele SANUA – Chief La Spezia Unit
	15.10	<i>Coffee Break.</i>
	15.15	Cluster P.M.I.
	15.30	Peruvian Navy
	15.45	Eng. FARAONE – Confitarma
16.00/16.30	16.00	LEONARDO

Thursday 21st June

Main Theme:

European Strategic Technology Forecasting

Executive Summary:

The workshop will present the results of a survey carried out within the context of the PYTHIA project, funded Organized by the European Commission in the Preparatory Action on Defence Research framework, aimed at assessing what are the most commonly used technology foresight methodologies in both the military and the industrial domains. All the methodologies identified will be thoroughly analysed, extrapolating several interesting findings that will be described during the speech.

Period	Time	Item/Speaker
16.45/18.30	16.45	Opening Remarks – Secretary General of Defence/National Armaments Directorate – Captain (N) Luigi SCHINELLI –
	16.50	R/T and maritime capability to act at sea– European Defence Agency – Mr Eric GIRARD
	17.10	Project Overview – Eng. Giuseppe VELLA
	17.30	Questionnaire on methodologies for defence and security forecasting – Dr. Fabio Ruini
	17.50	Strategic Technology Foresight with Big Data Analytics – Eng. Alessandro Zanasi
18.00/18.30		Final Discussion

Friday 22nd June

Main Team:

ROLE PLAY “Cyber crisis management”

Executive Summary:

Role Play game "Cyber Crisis Management" is a tool designed to promote and stimulate attention on the issues of cyber security. The participants will play as the management of a small energy provider that runs a smart city operating in the city of Fribourg (Germany): this company will be object of an IT attack perpetrated Organized by a competitor in order to access company data and in particular to find confidential documents, including those of a large competition in which both companies are participating.

Period	Time	Item
09.30/11.30	09.30	Opening Remarks – Commander Carmelo ROMEO
	09.40	Chairman Introduction TBD
	09.50	STEP 1: * Attack on the internet perimeter * Various activities are carried out to identify the company assets directly exposed on the internet. These assets are searched for vulnerabilities that allow access to the internal network. In this phase, however, there is no serious breach that allows access. Anyhow, the attack is not only focused on the systems of the energy producer, but also on the internet provider that offers connectivity. In this case, instead, a serious problem is found that allows access to the network devices that provide connectivity.
	10.10	STEP 2: * MiTM Attack * Thanks to the breach found on the provider, the network configuration is changed and the traffic is duplicated so that it can be analysed Organized by attackers. During this analysis, attackers discover that some production equipment make communications through channels not protected Organized by encryption. This allows attackers to discover the administrative passwords of these devices, thus guaranteeing access.

Period	Time	Item
09.30/11.30	10.30	<p>STEP 3: * DDoS Attack *</p> <p>From 9 AM of this morning (21/05) our company is receiving a very large number of TCP SYN packets that are filling our internet link. From what we could understand, there seems to be an attack distributed from various parts of the world that send on our main systems a traffic of 10 gigabits per second. We tried to contact our provider but unfortunately the attack is causing serious problems for them and, even Organized by applying firewalling rules, IP addresses that are driving the attacks change too fast and we cannot stop them. The main problem is that this attack is basically blocking our VPNs towards the energy production sites and therefore we cannot remotely control the equipment on site. In addition, our load forecasting systems cannot contact the market for the purchase / sale of energy and therefore it is possible that, until we can solve the problem, we will be substantially cut off from the sale, because we cannot book the sales lots. We are moving to another provider so that we can activate secondary connectivity, trying to solve the problem within 48 hours.</p>
09.30/11.30	10.45	<p>STEP 4: * Malware *</p> <p>4 months after the DDoS attack, malware was detected on some PCs Organized by the company. An in-depth analysis made it possible to identify how this was introduced and disseminated in the company. The secretary inadvertently opened a false PDF invoice that proceeded to exploit a client side vulnerability Organized by essentially installing the same malware on the PC. This was subsequently replicated within the network thanks to some weak credentials that we had on the active directory, compromising numerous workstations and some servers. The reverse engineering carried out Organized by a third-party malware company made it possible to identify that this was planned to spread on 21/05, recovering some confidential documents and subsequently sending them through an encrypted UDP connection to a host residing in Russia. Unfortunately, due to the DDoS attack, IDS / IPS systems have not detected the transfer of 10GB of documents to the internet. We hypothesize that the DDoS attack may have been used as an owl attack to deter us from what was actually doing the malware on our internal network.</p>



Period	Time	Item
11.00/11.30		Final Discussion

Friday 22nd June

Main Theme:

Excellence in defence procurement

Executive Summary:

Presentation and description of the Organisation, pointing out mission, vision and founding values, overview on the programmes managed and the participating states. Presentation of the Naval programmes managed with a focus on the ones with the participation of Italy. Relationship between OCCAR and NAVARM (Italian Naval Armament Directorate) in the management of the Naval programmes. How to integrate a programme into OCCAR and its management with the continuous engagement of the participating States. Advantages and opportunities for the participating states and the industry coming from the integration of a programme into OCCAR; High level management, opportunities to expand the cooperation, higher visibility for the industry, cost reduction of development phase, sharing of industrial know how. The future of military procurement in Europe.

Period	Time	Item/Speaker
09.00/12.40	09.00	Administrative Remarks/ Participants' registration
	09.15	Introduction of the Member of European Parliament and Defence Committee Brando BENIFEI
	09.30	Chairman Introduction OCCAR-EA Director, Major General Arturo Alfonso MEIRIÑO Presentation and description of the Organisation, its history and its business model, with an overview on the 13 programmes of its portfolio, and its role in the European defence landscape.
	10.00	NAVARM's Director Vice Admiral Matteo BISCEGLIA Presentation of the managed Naval programmes, with a focus on the ones with the participation of Italy, relationship between OCCAR and NAVARM (Italian Naval Armament Directorate) in the management of Naval programmes, advantages coming from the integration of a programme into OCCAR
	10.30	<i>Coffee Break</i>

Period	Time	Item/Speaker
	10.45	<p>ROUND TABLE with the participation of: OCCAR EA Director NAVARM Director Industry representatives - Chief Commercial Officer Eng. Lorenzo MARIANI (Leonardo), Managing Director Eng. Angelo FUSCO Executive Vice President Naval Vessels Business Unit – Direttore Divisione Navi Militare, Eng. Maurizio MARIANO Managing Director, Executive Group Director, Sales & Business Development & Managing Director Eng. Pasquale DI BARTOLOMEO (MBDA IT) Moderator: Prof. Michele NONES.</p>

Friday 22nd June

Main Theme:

Naval Design for Everybody

Organized by CSSN and DLTM

Executive summary:

The sea is without barriers: someone confronts it, like Andrea Pendibene, with very small boats in which technological evolution is combined with the expertise of the sailor. Someone else uses technology to eliminate barriers and make the sailboat usable even for those with a disability. Disability and sailing, therefore, is not a difficult combination: there are countless projects that make it possible for everyone to go by sea. From the story of Andrea Stella and the catamaran that he built specifically to that of Andrea Brigatti with his Cadamà (the first historic sailing boat without barriers) and many other interventions illustrating sailing as a "vehicle" for social inclusion in the most inclusive environment we have: the SEA. The sailboat becomes, then, a space where sharing is fundamental, where the collaborative spirit is essential, but also where even the beauties of the territory (as in the Sailing Day that will take place the next day) can be seen from a new point of view.

Period	Time	Item/Speaker
09.00/10.30	09.00	Carmelo BONFIGLIO
	09.20	Andrea BRIGATTI (Una barca accessibile – Cadamà)
	09.40	Marco ROSSATO (Timonieri Sbandati Asd) - via skype/ Gotomeeting
	09.50	Alessio BERNABÒ (Diversamente Marinai ASD)
	10.10	Andrea PENDIBENE (Sport Velico MMI, skipper)

Friday 22nd June

Main Theme:

Maritime structural research at TU Delft

Executive summary:

The Ship and Offshore Structures section of the Technical University of Delft, The Netherlands, will present its research areas and vision in the field of Smart structures, Structural integrity and Energy transition. The main themes are multiaxial fatigue of welded joints, crack detection and monitoring with acoustic emission and magnetic sensors, FRP propeller blades, metal composite, fracture mechanics. Hexapod, an innovative machine for fatigue, ultimate capacity and dynamic multiaxial test will be described. Possibilities of joint research and partnership for the different projects will be proposed and discussed.

Period	Time	Item/Speaker
10.15/11.00	10.15	Gabriele BUFALARI Lecturer & Researcher of Ship and Offshore Structures
	10.45	Final Discussion

Friday 22nd June

Main Theme:

Haruspex suite - An Innovative technology to counter Cyber attacks

Executive summary:

Haruspex is an innovative technology to forecast the attack chains that may be implemented against an ICT system and to select a cost-effective set of countermeasure to stop all these chains before they are actually exploited. Besides its ability in forecasting and stopping the attacks, a further innovative feature is that Haruspex works on a computer model of the ICT system. This guarantee that Haruspex does not disturb the normal behavior of the target system.

The technology has led to the definition of an innovative set of tools to fully automate the assessment of ICT risk and the deployment of the proper countermeasures.

The suite has been validated in three editions of Locked Shields, the largest and most complex international live cyber defence exercises Organized by NATO. Among others, the tools of the suite have been applied to anticipate the attacks against the ICS systems to manage and control ship operations and put in place the necessary remediation to harden the defence of on-board cyber systems.

The talk will present the suite tools, their application and exemplify how their adoption can defend against crackers, insiders and ransomware.

Period	Time	Item/Speaker
11.00/11.30	11.00	Prof. Fabrizio BAIARDI - University of Pisa

Friday 22nd June

Main Theme:

“Understanding our marine universe: economic, scientific implications” Part 1: The experts’ point of view

Executive Summary:

A special event will be organized on for sharing, cooperation and raising awareness about environmental sustainability. The event is intended to promote effective actions related to marine preservation and launch an international dialogue on ocean sustainability, creating a network of “intelligence” and identifying best practices in order to raise awareness about the issues affecting the marine ecosystem.

Moderator: Mariasole BIANCO (Worldrise e IUCN - World Commission on Protected Areas WCPA)

Period	Time	Item/Speaker
11.00/13.00	11.00	Patrizio SCARPELLINI (Parco Cinque Terre)
	11.15	Jan-Bart CALEWAERT (EMODnet Secretariat)
	11.30	Maria RAPINI (Marevivo)
	11.45	Eleonora De SABATA (MedSharks / Clean Sea LIFE)
	12.00	Armido MARANA (ECOZEMA)
	12.15	Franco BORGOGNO (European Research Institute)
	12.30	Marco FAIMALI (CNR-ISMAR) and Giuseppe Spada

Friday 22nd June

Main Theme:

“Environmental quality, coastal and port development: through eco-dredging, the necessary coexistence is now possible!”

Organized by DECOMAR and DLTM

Executive Summary:

In the Italian port scenario, dredging is one of the main issues which creates too often an impasse situation. The main cause is the lack, so far, of an effective operating system which can guarantee environmental sustainability of dredging activities. In fact, technologies so far adopted have shown to be ineffective and unable to face such an important challenge. This technological failure has led to a series of regulations and indications aimed at limiting environmental damages, which however ended up paralyzing the entire sector. At the same time, we have noticed a growing erosion along our coasts, which affects 40% of them and compromises and erodes year after year the potentialities of our tourism sector, which has a unique potential in the global scenario. Several solutions could combine port development and fight against coastal erosion and may represent a turning point for the entire country. Thanks to this technology, Italy would benefit from the extraordinary opportunity to be at the cutting edge in the world sector of ecologically sustainable dredging. Eco-dredging, which combines the requirements of port development connected to trade with coastal tourism interests, shows that today the symbiotic coexistence of two apparently distant realities is not a dream anymore, but a virtuous reality, able to relaunch the entire sector of the Blue Economy.

Moderator: Andrea Zamariolo.

Period	Time	Item/Speaker
11.00/13.00	11.00	Gian Maria FARA (President Istituto Eurispes)
	11.15	Davide BENEDETTI (President DECOMAR)
	11.30	Silvia PAPPARELLA (Project Manager RemTech)
	11.45	Silvia MASSIMI (SOGESID- MINAMBIENTE)
	12.00	Francesca BENEDETTI (Expert in environmental law)
	12.15	Maria Elena PICCIONE (ISPRA)
	12.30	Giuliano GABBANI (University of Florence)
	12.45	Final Discussion

Friday 22nd June

Main Theme

“Water in the Mediterranean region”

Organized by DLTM, Universidad de Las Palmas de Gran Canaria, University of Sfax, Suez Canal University, Université Sidi, University College Dublin – Marine Technology Society

Executive Summary

Can drinking water be a renewable resource? Dual use and water management. Water is called "blue gold" because it is a precious, although limited, resource. Nevertheless it is fundamental for our life and for the natural equilibrium always linked to our subsistence. An unavoidable "virtuous" circle, which, due to climate change, the increase in the world population and the consequent exploitation of this resource is seeking for a new balance.

Whether they are real engineering jewels or prototypes in search of funds, there are more and more technologies designed to have clean and drinkable water available to solve the current water crisis. There are many solutions that try to solve the problems related to water scarcity, especially in arid countries or where drinking water remains a mirage such as: technologies for the recovery of gray waters and desalination (with 70% of surface of the planet covered with water, desalination of seas and oceans could be a turning point for global water emergencies).

Moderator: Lavinio GUALDESI (LAVIMAR).

Period	Time	Item/Speaker
13.00/17.00	13.00	Giampiero BROZZO (ACAM ACQUE SpA). Introduction. “Vulnerability and protection of drinking water resources in the Province of La Spezia”
	13.10	Michael MAX (University College Dublin Marine Technology Society) - NEW TECHNOLOGICAL SOLUTIONS: Create new high quality water. 1) The chemical engineering approach to seawater desalination Use the CO2 emitted by the plants and confine it in abysmal tanks (abyssal confinement of the Kyoto protocol). Fresh water produced by the crystallization of sea water with CO2 hydrates. 2) Condensation of water from the air with a sustainable and high efficiency procedure (CWA-Tech) Brief history of the HERSE team and its application to address water problems

Period	Time	Item/Speaker
13.00/17.00	13.50	<p>Abdelhak KHERBECHE (Université Sidi Mohammed Ben Abdellah) - Water management in Morocco. For years, Moroccan research laboratories have been working on catalysis and on new eco-sustainable materials (LCME) in association with European and North African partners. Among the objectives: the research of innovative techniques for water treatment, the photo-disinfection of natural waters by means of photo-catalysis, catalysis through oxidation in a diluted aqueous medium, as well as the development of less expensive and more performing seawater desalination processes.</p>
	14.30	<p>Michael P. MAX (University College Dublin - Marine Technology Society) - Water from the Air. Extract the water from the air using a new high energy efficiency condensate designed to work with renewable energy. The water produced at the point of use, no transport, competes in terms of quality with bottled water, minimum conservation / treatment requirements, concept of energy and water. Sustainable housing Sustainable villages Transportable systems (ships) Water transport problems Disposable water bottles are expensive and non- environmental Shortage of drinking water Technology: Specific condensation evaporators. Specific thermodynamic models of condensation to control energy efficiency according to the production of water. Renewable energy-water solution.</p>
	14.50	<p>Amel HAMZA CHAFFAI (Sfax University) - The battle for water for a better quality of life. Tunisia is less endowed with water resources than many other Mediterranean countries. The water potential is controlled by a very unbalanced geographical distribution and a strong inter-annual variability. In recent decades, water has become a decisive factor in spatial planning and economic and social development. The analysis and monitoring of surface and ground water are necessary to ensure the quality of water for human consumption and agriculture. Some areas with limited water resources have a high humidity (67% -75%). The extraction of water from the air through a new highly energy-efficient condensation has the potential to provide a solution to local water shortages.</p>

Period	Time	Item/Speaker
13.00/17.00	15.10	<p>Michael P. MAX (University College Dublin - Marine Technology Society) - Closed Agriculture (EnAg). Manage the CO₂ / gas balance of greenhouse agriculture to optimize food production with well-balanced nutrients and growth (for plant quality without sacrificing growth rates). Controlled plant growth consumes CO₂ and produces oxygen through growth photosynthesis. The carbon sequestered by the accelerated growth of plants is both food and solid waste. EnAg buildings near the sea can also produce irrigation water using passive solar heating. The use of solar as an energy source for EnAg coordinates the normal growth times of plants, creating further energy availability. A fraction of positive energy is stored in the batteries by necessity during the night. At night, plants convert oxygen into CO₂ through a process called breathing. Breathing can be minimized while CO₂ consumption can be maximized.</p> <p>Technology: Application of CWA-Tech Infrastructure and adaptive practices for CWA-Tech. Thermodynamic models for plant growth (specific for individual plant species) Control of gas levels and injection / extraction to maximize growth and minimize CO₂ Scientific / economic model of all pre- and post-growth processes.</p>
	15.20	<p>Mohamed TAWFIC AHMED (Suez Canal University) Water scarcity in Egypt, the search for sustainable solutions. Introducing sustainable water production from the environmental point of view from the abundant and renewable atmospheric humidity reserve. This would also include the use of advanced technologies, including hydration-based methods to recover wastewater as a sustainable approach to increasing water scarcity in Egypt. This presentation highlights Egypt's water footprint, water resource profile and approaches used to promote sustainable use water. It also examines the possible challenges that the new Grand Ethiopia Renaissance dam could represent for Egypt.</p>
	15.50	<p>Jésus CISNEROS AGUIRRE (University of Las Palmas de Gran Canaria) Water treatment. Use the same polluted CO₂ from power plants to compress and purify contaminated water and wastewater. Use of other technologies.</p>
	16.10	Final Discussion



Main Theme:

“Understanding our marine universe: economic, scientific implications” Part 2: The institutional point of view.

Organized by DLTM

Executive summary:

A special event will be organized on for sharing, cooperation and raising awareness about environmental sustainability. The event is intended to promote effective actions related to marine preservation and launch an international dialogue on ocean sustainability, creating a network of “intelligence” and identifying best practices in order to raise awareness about the issues affecting the marine ecosystem.

Moderator: Daniele Moretti (Sky TG 24)

Period	Time	Item/Speaker
14.00/15.00	14:00	Walter MAZZITI (Italian Ministry of Environment)
	14.10	Enrico GRANARA (Ambassador, Minister Plenipotentiary, Ministry of Foreign Affairs of Italy)
	14.20	Francesca COZZANI - Confindustria
	14.30	Capitaneria di Porto Roma/Genova TBC Patrizio SCARPELLINI (Parco 5 Terre)
	14.40	Eng. Roberto PORCARI (DLTM)
	14:50	Final Discussion

Friday 22nd June

Main Theme:

STAND FAST! Celebrating 40 years on the frontline of marine conservation.

Executive summary:

Over the past forty years, Sea Shepherd has continued to practice innovative tactics of direct action to investigate, document and take action when necessary to expose and prevent illegal activities on the high seas. As we mark they 40th Anniversary protecting the world's oceans - let us look back at some of the most significant achievements in our history. These would not have been possible without the passionate dedication of their incredible volunteers and generous donations from individuals, families and businesses.

Period	Time	Item/Speaker
15.00/16.00	15.00	Skirà Editore SpA (40 years of Sea Shepherd)
	15.20	Patrizia MAIORCA
	15.40	Alex CORNELISSEN (Captain and CEO Sea Shepherd)
	14.45	Andrea MORELLO
16.00/17.00	16.00	Captain Paul WATSON - founder of Sea Shepherd (via Gotomeeting)
	16.15	Final Discussion
	16.30	Speech on Montale and the Mediterranean Special Prize "Sezione Mediterraneo" - Premio Montale Fuori di Casa to Sea Shepherd. Adriana BEVERINI, President Barbara SUSSI, Vice President Giorgio MORI, President Sepor SpA