



IALA·2014·AISM

XVIII Conference · A Coruña · Spain

25-31 May 2014

AIDS TO NAVIGATION KNOWLEDGE AND INNOVATION

From the Torre de Hercules to e-Navigation and beyond

www.iala2014spain.com

CONFERENCE PROGRAMME

Puertos del Estado



GOBIERNO
DE ESPAÑA

MINISTERIO
DE FOMENTO





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Conference Programme

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WELCOME





WELCOME

From the Minister of Public Works and Transport



Since the first General Plan for Maritime Signals (now called marine aids to navigation) was promulgated in 1847, the exclusive competency in this matter has rested with the State. Today this is confirmed in Article 149.1.20 of the Spanish Constitution.

For the Government of the Kingdom of Spain – and especially for this Ministry, in which reside the competencies related to aids to navigation and maritime safety – it is an honor to be able to organize, together with the International Association of Marine Aids to Navigation and Lighthouse Authorities, the 18th Conference and General Assembly of the Association, to be held in the city of A Coruña from 25th to 31th May 2014.

As Minister of Public Works and Transport it is my pleasure to invite anyone in the international community linked to the aids to navigation to join us in A Coruña, in the spirit of moving forward together with the important task of improving navigation safety all over the world.

Ana Pastor Julián

Minister of Public Works and Transport



WELCOME

From Puertos del Estado



Ten years ago, when Spain presented its bid to host the 18th Conference and General Assembly of the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA), we saw it as an opportunity to showcase our experience in this field, as well as our notable technical, industrial and, of course, cultural heritage in lighthouses and other aids to navigation matters. Today, the 2014 IALA Conference is a tangibility that has been invested with absolute dedication and an enormous excitement, in order to attain the stated objectives and the required level of excellence in its organization.

We are preparing a conference in line with present times, with austerity but maintaining the standards of quality and innovation – a concept that is part of the theme of the Conference. There will also be a pre-conference seminar devoted to training in aids to navigation, where the work and action points of the World Wide Academy (WWA) of IALA will be presented.

The city of A Coruña is ready to welcome delegates and guests to this new edition of the IALA Conference in the last week of May 2014, coinciding with the commemoration of the 5th Anniversary of the Proclamation of the Tower of Hercules Lighthouse as a World Heritage Site by UNESCO.

As President of Puertos del Estado, the national authority on marine aids to navigation in Spain, I am honoured to invite experts worldwide in this matter to join us at this event, contributing their knowledge and experience, always with the aim of improving navigation safety and facilitating passenger and freight traffic in all the seas and oceans of the world. Spain and Galicia, land called Finis Terrae for many centuries “the end of the earth”, await you, and are sure to amaze you.

José Llorca Ortega
President of Puertos del Estado



WELCOME

From IALA Secretary General



On behalf of the Council of IALA I welcome you to A Coruña, to our 18th Conference, the first time we have gathered for such an event on mainland Europe for some years.

The Kingdom of Spain has been a valuable contributor to the activities of IALA at all levels for many years and Puertos del Estado is a highly respected and capable organisation.

We are going to meet at a significant venue and are certainly aware of the importance of the Tower of Hercules in aids to navigation development over two millennia, a subject in its many forms, which will be debated when we gather in Galicia.

A broad agenda has been assembled across the various disciplines we bring together at IALA, experts from the four corners of the earth to deliver their knowledge for the benefit of our membership and, in turn, the world's maritime community. At the same time our Industrial Members will be able to show their products and services in an exclusive exhibition and take benefit from this unique opportunity to meet and discuss with their customers and clients.

There are exciting times ahead in the field of aids to navigation and the related sciences and I do not doubt that all seventy presentations, carefully selected amongst more than 150 received will be just fascinating. I am assured you will not be disappointed.

At the Conference we will hold the General Assembly and elections to the Council will take place to ensure the governance of IALA for the following four years span until we gather again in the Republic of Korea in 2018.

I look forward to greeting our membership, some members who we will welcome for the first time to an IALA Conference; others who we have not seen since Cape Town in 2010.

The 18th IALA Conference to be held in A Coruna, Spain in 2014, is I am sure going to be another memorable event in the history of IALA.

Gary Prosser
IALA Secretary General



WELCOME

From the Conference Director



As someone who came into the field of marine aids to navigation 20 years ago, it is a great honour to head up the team who have been organizing an IALA Conference in their country.

I would like to highlight the trust that the IALA has placed in Spain through the Puertos del Estado organization in recognition of the progress made in this field in which numerous professionals have demonstrated their expertise and personal commitment to our Association. This has been especially noteworthy since, in 1994, we started participating actively in both the Council and the different Committees, spearheaded by the Technical Department Manager at that time, Arturo Aguado.

Since the IALA entrusted the organization of this Conference to Puertos del Estado, through Secretary General Torsten Kruise, whose confidence and support through all the years of shared activities on behalf of the IALA I would like to recognise here, other people have taken on the role of Conference Director, namely Manuel Gómez and Xavier Gesé, who I should like to thank for all their hard work on the project which has now reached its crowning moment: the Conference itself.

It would be easy to overlook the many contributions to the project, but its three main cornerstones – Puertos del Estado, IALA and the company entrusted with the material and logistical organization of the event, Orzan Congres – have made it possible through the hard work and input of everyone who has been involved at some phase of the project. I must recognize the input of Eva Miquel and Angustias Lerín, Laura Manzano and Rosa Yubero from Puertos del Estado; of Maika Romero and Marta Bouso from Orzan Congres; and most especially Marie-Hélène Grillet, who needs no introduction, with whom it has been such a pleasure to work on this project. Her contribution, especially in the preparation and coordination of the technical documents, has been vital. Enrique Bernabeu, as president of the IMC Committee, has been tremendously helpful in every aspect of the industrial exhibition.

Naturally none of this would have been possible without the support and leadership of IALA Secretary General, Gary Prosser Gary Prosser, and the President of Puertos del Estado, José Llorca, whose commitment to and involvement in the project have provided us with support and guidance throughout.

We have tried to put together a Conference which lives up to its slogan: Knowledge and Innovation. In this sense, we have created the first paperless conference, using new mobile technologies and the internet; a tablet will be our tool for following the technical sessions. Meanwhile, after a quick look at the presentations, I can confirm that the standard is extremely high, so the Conference reflects the current level of technical excellence in contemporary aids to navigation, not just the new technologies that fall under the umbrella of e-navigation, but also the classic ones.

I would like to thank all the delegates and IMC exhibitors for their support, and I hope that this Conference will meet your expectations. This has been our motivation throughout the whole process.

Finally, I would like to join in the celebration of the 500th anniversary of Trinity House, which is the reason why the Conference and the IALA family will have the honour of hosting a visit by HRH Princess Anne of England as the Master of this institution.

My thanks once again to you all, and I look forward to seeing you in A Coruña.

Juan Francisco Rebollo
Project Manager of IALA-2014

COMMITTEES MEMBERS





Honorary Committee

President of Honour

HRH Felipe de Borbón y Grecia, the Prince of Asturias

Vice-presidents

Mr. Alberto Núñez Feijoo

President of the Galician Regional Government

Ms. Ana Pastor Julián

Minister of Public Works and Transport

Members

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Mr. Carlos Negreira Souto

Mayor of A Coruña

Mr. Rafael Catalá Polo

Secretary of State for Infrastructures, Transport and Housing, Ministry of Public Works and Transport

Mr. Jaime Muñoz-Delgado Díaz del Río

Admiral Chief of Naval Staff of the Spanish Navy

Ms. Rosa Quintana Carballo

Regional Minister for Agriculture Rural Development and Maritime Affairs. Galician Government

Mr. José Llorca Ortega

President of Puertos del Estado

Mr. Enrique Losada Rodríguez

President of the Port Authority of A Coruña

Mr. Rafael Rodríguez Valero

Director-General of the Merchant Marine and President of the Spanish Maritime Safety Agency (SASEMAR)

Mr. Koji Sekimizu

Secretary-General of the International Maritime Organization, IMO

Mr. Robert Ward

President of the International Hydrographic Organization, IHO

Mr. David Gordon

President of the International Association of Marine Aids to Navigation and Lighthouse Authorities, IALA

Mr. Gary Prosser

Secretary-General of the International Association of Marine Aids to Navigation and Lighthouse Authorities, IALA



National Organizing Committee

President

Mr. José Llorca Ortega

President of Puertos del Estado

Vice-president

Mr. Juan Francisco Rebollo Lledó

Head of the Spanish Marine Aids to Navigation Service, Puertos del Estado

Conference Director

Members

Mr. José Juan Durán Hermida

President of Puertos de Galicia

Mr. Enrique Losada Rodríguez

President of the Port Authority of A Coruña

Ms. M^a Luisa Cid Castro

Deputy Mayor of Employment and Enterprise at the A Coruña City Council

Mr. Álvaro Rodríguez Dapena

Technical Director of Puertos del Estado

Ms. Eva Miquel Subías

Corporate Communication Manager of Puertos del Estado

Mr. Juan Luis Pedrosa Fernández

General Director of the Spanish Maritime Safety Agency (SASEMAR)

Mr. José Ramón Fernández de Mesa Temboury

Commander Director of the Naval Hydrographic Institute. Spanish Navy

Mr. Manuel Gómez Martín

Deputy Director of Customer Service of Puertos del Estado

IALA Vice-President

Ms. Nuria Gaitón Redondo

Head of Department International Relations of Puertos del Estado

Mr. Ramón Castro González

Head of Communications and Public Relations of the Port Authority of A Coruña

Ms. Angustias Lerín del Abril

Head of Department External Relations and Business Development of Puertos del Estado

Mr. Enrique Bernabéu Dolz

Product Manager of La Maquinista Valenciana

President of the IALA Industrial Members Committee

Ms. Rosa María Yubero Sierra

International Relations Department of Puertos del Estado

Secretary of the Organizing Committee



IALA Conference Steering Committee

Committee, Panel and WWA heads:

Chair, EEP Committee

Mr. Omar Frits Eriksson

Danish Maritime Authority

Chair, ANM Committee

Captain Phil Day

Northern Lighthouse Board, Scotland

Chair, VTS Committee

Capt. Tuncay Cehreli

Directorate General of Coastal Safety, Turkey

Chair, e-NAV Committee

Mr. William R Cairns

US Coast Guard

Chair, Legal Advisory Panel

Mr. Francis Zachariae

Danish Maritime Authority

Dean, IALA WWA

R-Adm. Jean-Charles Leclair

IALA

IALA Secretary General (Chairman)

Mr. Gary Prosser

IALA Administration Manager (Secretary)

Ms. Marie-Hélène Grillet

IALA Deputy Secretary General

Mr. Michael D. Card

IALA Committee Secretary

Mr. Seamus Doyle

IMC

Mr. Enrique Bernabéu

La Maquinista Valenciana SA, Spain

Mr. Steve J Nell

Marine Data Solutions, South Africa

Host country

Mr. Juan Francisco Rebollo

Puertos del Estado, Spain



IALA Papers Selection Committee

Committee Chairs and Vice Chairs:

Vice Chair, EEP Committee

Mr. David Jeffkins

Australian Maritime Safety Authority

Chair, ANM Committee

Captain Phil Day

Northern Lighthouse Board, Scotland

Vice Chair, ANM Committee

Mr. Michael Skov

Danish Maritime Authority

Chair, VTS Committee

Capt. Tuncay Cehreli

Directorate General of Coastal Safety, Turkey

Vice Chair, VTS Committee

Mr. Neil Trainor

Australian Maritime Safety Authority

Chair, e-NAV Committee

Mr. William R Cairns

US Coast Guard

Vice Chair, e-NAV Committee

Dr. Nick Ward

GLA – RRNAV, United Kingdom

IALA

IALA Deputy Secretary General

Mr. Michael D. Card

PROGRAMME AT A GLANCE





PROGRAMME AT A GLANCE

PRE-CONFERENCE	COUNCIL	CONFERENCE	
<i>Saturday 24th</i> <i>Pre-Conference Seminar</i>	<i>Sunday 25th</i> <i>Council and Registration</i>	<i>Monday 26th</i> <i>Opening day and IALA report</i>	<i>Tuesday 27th</i> <i>Aids to Navigation Provision</i>
<i>Arao Auditorium: 2nd floor</i>	<i>Room 8: 2nd floor</i>	<i>Gaviota Auditorium: Ground floor</i>	<i>Gaviota Auditorium: Ground floor</i>
08:30-09:15 Registration		09:00-10:00 Registration	09:00-10:30 Session 1.1
09:30-10:00 Session 1			
10:00-11:00 Session 2 Session 3	10:00-11:00 Council	10:00-10:30 Opening show	
		10:30-11:00 Coffee break	10:30-11:00 Coffee break
11:00-11:30 Coffee break		11:00-11:30 Keynote speech	11:00-12:30 Session 1.2
11:30-12:30 Session 4	11:30-12:00 Coffee break	11:30-12:30 IALA activities	
12:30-13:30 Session 5	12:00-13:30 Council	12:30-14:00 Lunch break	12:30-14:00 Lunch break
13:30-15:00 Lunch break	13:30-15:00 Lunch break	14:00-16:00 IALA activities	14:00-15:30 Session 1.3
15:00-17:00 Session 6		16:00-16:30 Coffee break	15:30-16:00 Coffee break
		16:30-17:00 Official Opening Conference and Industrial Exhibition	16:00-16:30 Group photo
17:00-17:30 Coffee break		17:00 Visit the exhibition	16:30-18:00 General Assembly Session 1 <i>Arao Auditorium</i>
17:30-18:00 Session 7			
	18:30 Welcome Reception	20:00 Conference Dinner <i>Pazo de Santa Cruz de Mondoí</i>	

Delegate Registration: Palexco - ground floor

CONFERENCE

<i>Wednesday 28th e-Navigation & beyond</i>	<i>Thursday 29th Global navigation</i>	<i>Friday 30th Management</i>	<i>Saturday 31th Heritage</i>
<i>Gaviota Auditorium: Ground floor</i>	<i>Gaviota Auditorium: Ground floor</i>	<i>Gaviota Auditorium: Ground floor</i>	<i>Gaviota Auditorium: Ground floor</i>
09:00-10:30 Session 2.1	09:00-10:30 Session 3.1	09:00-10:30 Session 4.1*	09:00-11:00 Heritage session
10:30-11:00 Coffee break	10:30-11:00 Coffee break	10:30-11:30 The 500th Anniversary of The Corporation of Trinity House	11:00-11:30 Coffee break
11:00-12:30 Session 2.2	11:00-12:30 Session 3.2	11:30-13:00 Session 4.2	11:30-12:30 Conclusions and venue next Conference Korea
12:30-14:00 Lunch break	12:30-14:00 Lunch break	13:00-14:00 Lunch break	12:30-14:00 Lunch break
14:00-15:30 Session 2.3	14:00-15:30 Session 3.3	14:00-15:30 Session 4.3	14:00-15:30 General Assembly Session 2 (elections) and (during the time for results) venue VTS-2016 Malaysia <i>Arao Auditorium</i>
15:30-16:00 Coffee break	15:30-16:00 Coffee break	15:30-16:00 Coffee break	15:30-16:30 58th IALA Council <i>Room 8</i>
16:00-17:30 Session 2.4	16:00-17:30 Session 3.4	16:00-18:30 Best practices session	
20:00 IMC Evening <i>Marina Coruña</i>		* 09:00-12:30 Attendance by H.R.H. The Princess Royal, Princess Anne, Master, The Corporation of Trinity House	20:00 Gala Dinner <i>Hesperia Finisterre Hotel</i>

CAPACITY BUILDING PRE-CONFERENCE SEMINAR





24 Training and Certification of Aids to Navigation (AtoN) and Vessel Traffic Service (VTS) personnel

08.30-09.15

Registration

09.15-10.00

Session 1: Introduction to the seminar

Opening Ceremony

Objectives of the Seminar

Maritime Safety, Safety of Ships/Safety of Navigation

Mr. Gary Prosser. IALA SG

Mr. Juan-Francisco Rebollo. Puertos del Estado

Mr. Jean-Charles Leclair. Dean IALA World-Wide Academy

10.00-11.00

Session 2: IALA and other International Organizations concerned - Legislation

IALA and the IALA World-Wide Academy

International Organizations involved in Safety of Navigation

Obligations of a Coastal State

International Regulations - Conventions, Recommendations, Guidelines National Legislation

Mr. Jean-Charles Leclair. Dean IALA World-Wide Academy

Session 3: IALA's International Standards

The IALA Maritime Buoyage System

The IALA Recommendations and Guidelines

Mr. Jacques Manchard. IALA Senior Adviser

11.00-11.30

Coffee

11.30-12.30

Session 4: AtoN Personnel Training and Certification

The Level 1+ Awareness Seminar

Training for AtoN Services Personnel

AtoN Training and IALA Model Courses Level 1 and Level 2

Accreditation of Training Organizations

Mr. Stephen Bennett. Programme Manager. IALA World-Wide Academy

12.30-13.30

Session 5: VTS Personnel Training and Certification

Training for VTS Personnel

VTS Training and IALA Model Courses

Accreditation of Training Organizations

Mr. Tuncay Cehreli. Chair IALA VTS Committee

13.30-15.00

Lunch

15.00-17.00

Session 6: Practical examples

Spain - VTS and AtoN: *Mr. Juan F. Rebollo and Mr. Carlos Fernández Salinas*

Australia: *Ms. Jillian Carson-Jackson*

Brasil: *Captain Alberto Piovesana Junior*

Chile: *Commander James Crawford*

France: *Captain Vincent Denamur*

Japan: *Commander Hideki Noguchi*

Republic of Korea: *Professor Doctor Seung-Gi Gug*

17.00-17.30

Coffee

17.30-18.00

Session 7: Final Discussion and debrief

Discussion, Conclusions and Recommendations

Closing Ceremony

Mr. Gary Prosser. IALA SG

Mr. Juan-Francisco Rebollo. Puertos del Estado

Mr. Jean-Charles Leclair. Dean IALA World-Wide Academy

OPENING DAY & IALA REPORT



- 09:00-10:00 Registration
- 10:00-10:30 Opening show
- 10:30-11:00 *Coffee*
- 11.00-11.30 Keynote speech
Mr. Koji Sekimizu. IMO Secretary General
- 11.30-11.50 IALA activities by Secretary General and introduction of Committee overview sessions
Mr. Gary Prosser
- 11.50-12.10 IALA activities: Committee ANM
Mr. Phil Day
- 12.10-12.30 IALA activities: Committee EEP
Mr. Omar Fritz Eriksson
- 12:30-14:00 *Lunch*
- 14.00-14.20 IALA activities: Committee ENAV
Mr. Bill Cairns
- 14.20-14.40 IALA activities: Committee VTS
Mr. Tuncay Cehreli
- 14.40-14.55 IALA activities: IMC
Mr. Enrique Bernabéu
- 14.55-15.10 IMO/ITU & other international organizations
Mr. Michael Card
- 15.10-15.25 IALA activities: LAP (explaining change of status)
Mr. Francis Zachariae
- 15.25-15.40 e-Navigation SIP
Ms. Kirsti Slotsvik
- 15.40-15:50 IALA Activities: IALA-NET and Risk Assessment Tool
Mr. Jean-Charles Leclair
- 15.50-16.00 IALA Activities: WWA
Mr. Jean-Charles Leclair
- 16.00-17.00 Official Opening Conference and Industrial Exhibition
Chaired by: *Ms. Ana Pastor. Minister of Public Works and Transport*
- 17.00 Visit the Exhibition

TECHNICAL SESSIONS





TUESDAY

27

Aids to Navigation Provision

09.00-10.30

Session 1.1

Chair: *Mr. Omar Fritz Eriksson*, Danish Maritime Authority, Denmark

ViceChair: *Mr. Amadou Ndiaye*, Port Autonome de Dakar, Senegal

84 'Effective Intensity – Is it Effective?'

Mr. Malcolm Nicholson, General Lighthouse Authorities, United Kingdom & Ireland

602259 Integrated AtoN information system (I-ATONIS Service) and added value applications

Mr. Eduardo González, *Mr. Antonio Cebrián*, Port Authority of Barcelona, Spain

Mr. Juan-Francisco Rebollo (Speaker), *Mr. Enrique Tortosa*, Puertos del Estado, Spain

Mr. Carlos Calvo (Speaker), Port Authority of Santander, Spain

Mr. Marcos López (Speaker), GMV, Spain

19 Conversion of light buoys in the North and Baltic Sea on compact lighting units with LED and solar technology, AIS and remote monitoring

Mr. Peter Schneider, Federal Waterways and Shipping Administration, Germany

109 Laser Technologies for Visual Aids to Navigation

Mr. G A Kaloshin, Zuev Institute of Atmospheric Optics, Russian Academy of Sciences, Russia

37 Implementing a new modularly designed Radar Service during continuous nautical operation

Mr. Mark Thumann, *Mr. Sascha Heesch* (Speaker), Federal Waterways and Shipping Administration, Germany

10.30-11.00

Coffee: Exhibition areas

11.00-12.30

Session 1.2

Chair: *Mr. Carlos Calvo*, Port Authority of Santander, Spain

ViceChair: *Mr. Adam Hay*, Nawae Construction Ltd., Papua New Guinea

39 New lighthouse at the northern enlargement of Valencia harbour

Mr. Ignacio Pascual, Port Authority of Valencia, Spain

20 The Processes in the Maritime Transport Chain and how to link them

Mr. Dirk Eckhoff, Federal Waterways and Shipping Administration, Germany

81 Evolution of remote monitoring systems. Examples of systems at A Coruña and Ferrol Port Authorities (Galicia region, Spain)

Mr. Antonio Martínez, Mediterráneo Señales Marítimas S.L.L. (MSM), Spain

118 A-to-N project management for deep-water navigation channel at Yangtze River Estuary

Mr. Liu Jiahua (Speaker), Shanghai Maritime Safety Administration, China

Ms. Yang Jianyun, CCCC Shanghai Waterway Engineering Design and Consulting Co., Ltd., China

86 E-200 Explained

Mr. Malcolm Nicholson, General Lighthouse Authorities, United Kingdom & Ireland



TUESDAY

27

Aids to Navigation Provision

12.30-14.00

Lunch: Palexco ground floor

14.00-15.30

Session 1.3

Chair: Mr. David Jeffkins, Australian Maritime Safety Authority, Australia

ViceChair: Mr. Kribashin Coopoo, Transnet National Ports Authority, South Africa

99 A new radio system for the German coast - Innovative applications for conventional VHF

Mr. Ralf Oppermann. Schnoor-INS GmbH & KG, Germany

15 Implementation of the Voice/DSC VHF Radio Communication Service with Simulcast Broadcasting at the German Coast

Mr. Heinz Park. Federal Waterways and Shipping Administration, Germany

27 Aids to Navigation and Automatic Identification System: a winning combination for safety support. The Italian experience

Mr. Piero Pellizzari. Italian Coast Guard - Headquarters, VII Department "ITC and Maritime Traffic Monitoring", Italy

3547 VHF Data Exchange System (VDES). A new means for data communication to support e-Navigation

Mr. Hideki Noguchi (Speaker). Navigational Safety System Development Office, Aids to Navigation Engineering Division, Maritime Traffic Department, Japan Coast Guard, Japan

Mr. Stefan Bober (Speaker). Federal Waterways and Shipping Administration, Germany

125 Advances in radar aids to navigation

Mr. Paul F Mueller. Tideland Signal Corporation, USA



WEDNESDAY

28 e-Navigation & beyond

09.00-10.30

Session 2.1

Chair: *Mr. Bill Cairns*, US Coast Guard, USA

ViceChair: *Mr. Min-Su Jeon*, Korea Association of Aids to Navigation, Republic of Korea

8798 e-Navigation and the ACCSEAS project

Mr. Alwyn I. Williams. General Lighthouse Authorities, United Kingdom & Ireland

66 Performance Simulation of the Future Korean eLoran System

Mr. Joon Hyo Rhee (Speaker), *Mr. Jiwon Seo*. Yonsei University, Republic of Korea

46 Recapitalization of the MF radio beacon system based on VRS

Mr. Michael Hoppe (Speaker). Federal Waterways and Shipping Administration, Germany

Mr. Jesper Bäckstedt (Speaker). Swedish Maritime Administration, Sweden

69 Ship domain observed in AIS data

Mr. Tue Lehn Schiøler. Rambøll, Denmark

91 The Implications of Using Non-Approved PNT Devices at Sea

Mr. Jan Šafář, *Mr. Alan Grant* (Speaker), *Mr. Martin Bransby*, *Mr. Nick Ward*, *Mr. David Last*. General Lighthouse Authorities, United Kingdom & Ireland

10.30-11.00

Coffee: Exhibition areas

11.00-12.30

Session 2.2

Chair: *Mr. Mike Sollosi*, US Coast Guard, USA

ViceChair: *Mr. Michael Skov*, Danish Maritime Authority, Denmark

30 AIS Aids to Navigation: Development of IMO Policy and New Symbols

Mr. Hideki Noguchi. Navigational Safety System Development Office, Aids to Navigation Engineering Division, Maritime Traffic Department, Japan Coast Guard, Japan

94 Automatic identification system capabilities to improve U.S. waterway operations

Mr. Jorge Arroyo (Speaker), *Mr. Brian J Tetreault*. U.S. Coast Guard, USA

107 The European Satellite-AIS Data Processing Center developed by CLS for the European Space Agency and European Maritime Safety Agency. How will such infrastructure support e-Navigation?

Mr. Gaëtan Fabritius. Collecte Localisation Satellites CLS, France

67 Behavior recognition assisting maritime situational awareness

Mr. Florian A Gruber. Frequentis AG, Austria

79 Achievement of AtoN in Turkey (finalizing SOTAS project)

Mr. Celalettin Uysal. Aids to Navigation Department, Turkey

12.30-14.00

Lunch: Paalexco ground floor



WEDNESDAY

28 e-Navigation & beyond

14.00-15.30

Session 2.3

Chair: Ms. Peggy Browning, ExactEarth, Canada

ViceChair: Mr. Sebastián Espinar, Puertos del Estado, Spain

2 Communication for e-Navigation

Mr. Rolf Zetterberg, Swedish Maritime Administration, Sweden

63 IALA'S VHF Data Exchange System (VDE). A foundation for e-navigation communications and GMDSS modernization

Mr. William D. Kautz, U.S. Coast Guard, USA

9297 Common Maritime Data Structure for e-Navigation and the Maritime Cloud

Mr. Nick Ward (Speaker), General Lighthouse Authorities, United Kingdom and Ireland

Mr. Thomas Christensen (Speaker), Mr. O Bakman Borup, Danish Maritime Authority, Denmark

31 Improvement of Maritime Information and Communications System (MICS): e-navigation for small ships

Mr. Hideki Noguchi, Navigational Safety System Development Office, Aids to Navigation Engineering Division, Maritime Traffic Department, Japan Coast Guard, Japan

11 Maritime Domain Awareness, the Chilean experience

Mr. James Crawford, Directorate General Maritime Territory and Merchant Marine, Chile

16.00-17.30

Session 2.4

Chair: Mr. Nick Ward, General Lighthouse Authorities, United Kingdom and Ireland

ViceChair: Ms. Catherine Steenberg, Force Technology, Denmark

129 R-Mode using Transmissions from existing IALA Radio beacon installations

Mr. Michael Hoppe, Federal Waterways and Shipping Administration, Germany

105 To infinity and beyond... Whats is the future of maritime communications?

Ms. Jillian Carson-Jackson (Speaker), Mr. Peter Pokorny, Australian Maritime Safety Authority, Australia

61 Product Specifications Demystified

Mr. Peter Hooijmans (Speaker), Rijkswaterstaat National Vessel Traffic Management Centre, Ministry of infrastructure and the Environment, The Netherlands

Mr. Jarle Hauge, Norwegian Coastal Administration, Norway

120 Navigation aids information distribution service in the e-Navigation

Mr. Lu Xiang, Mr Jinxing Shao, Xiamen Aids to Navigation Branch of Shanghai Maritime Safety Administration, China

Ms. Zhiping Ren, Mr. Guojun Peng, Mr. Xinggu Zhang, Ship Navigation Aids Technique Research Institute, China

76 Development of S-100 based new Product Specification for AtoN and Method for Integration with Legacy Systems

Mr. Daewon Park, Mr. Jaeyang Park, Mr. Jong-Uk Kim, Ms. Suhyun Park (Speaker), Dongseo University, Republic of Korea



THURSDAY

29

Global navigation

09.00-10.30

Session 3.1

Chair: *Mr. Tuncay Cehreli*, Coastal Safety, Turkey

ViceChair: *Mr. José Manuel Díaz*, Centro Jovellanos, Spain

29 The Role of Coastal VTS in enhancing maritime safety and marine environment issues in the Strait of Hormuz

Mr. Ahmad Parhizi. Ports and Maritime Organization, Iran

43 VTS Fehmarn Belt - A Danish/German Project

Mr. Harmut Hilmer (Speaker), *Mr. Gerhard Müller Hagen*. Federal Waterways and Shipping Agency, Germany

Mr. Niels Jakob Mygind. Danish Maritime Administration, Denmark

78 Finding solutions before accidents happen

Mr. Cem Gazioglu. Istanbul University, Institute of Marine Science and Management, Turkey

Mr. Hasan Terzi (Speaker). Istanbul VTS Centre, Directorate General of Coastal Safety, Turkey

124 Close quarter situation reporting by Ushant VTS

Mr. Jean-Charles Cornillou. CEREMA, France

128 The Spanish Maritime Safety Agency

Mr. Juan Luis Pedrosa. The Spanish Maritime Safety Agency, Spain

10.30-11.00

Coffee: Exhibition areas

11.00-12.30

Session 3.2

Chair: *Mr. Mahesh Alimchandani*, Australian Maritime Safety, Australia

ViceChair: *Mr. Michael Cousquer*, CEREMA, France

8 A Methodology to allow VTS Centers to monitor, in real-time, the performance of the AIS infrastructure

Mr. Magnus Nyberg, *Mr. Peter Dolan* (Speaker). Pharos Marine Automatic Power, Inc, United Kingdom

21 Analogy between the VTS Centres Human Machine Interface and the Vessels' Integrated Bridge

Mr. Dirk Eckhoff. Federal Waterways and Shipping Administration, Germany

32 The improvement of VTS operation capability with the introduction of Ku-band Solid-Sate Radar

Mr. Hiroaki Tanaka, *Mr. Kazuyuki Tanaka*. Aids to Navigation Engineering Division, Maritime Traffic Department, Japan Coast Guard, Japan

Speaker: *Hideki Noguchi*. Navigational Safety System Development Office, Aids to Navigation Engineering Division, Maritime Traffic Department, Japan Coast Guard, Japan

52 How human factors can help on improving control room performance

Mr. Volker Grantz, *Mr. Gerd Palmetzhofer* (Speaker). Frequentis AG, Austria

72 Reducing operator workload and stress through co-operative human-machine systems

Mr. Todd Schuett. Kongsberg Norcontrol IT, Norway



THURSDAY

29 Global navigation

12.30-14.00

Lunch: Palexco ground floor

14.00-15.30

Session 3.3

Chair: Mr. Thomas Christensen, Danish Maritime Administration, Denmark

ViceChair: Mr. Hideki Noguchi, Japan Coast Guard, Japan

93 Enhancing VTMISS data management with Service Oriented Architecture (SOA)- Case study: FTA's Vessel Traffic Management Systems

Ms. Kaisu Heikonen. Finnish Transport Agency, Finland

100 The shipping industry and marine spatial planning. A professional approach

Mr. David Patraiko (Speaker). FNI, Master Mariner. The Nautical Institute, United Kingdom

Mr. Paul Holthus. World Ocean Council, United Kingdom

103 Holistic marine spatial planning. Safety beyond the environment

Mr. Nick Lemon, Mr. Alec Millet. Australian Maritime Safety Authority, Australia

Speaker: Mahesh Alimchandani. Australian Maritime Safety Authority, Australia

104 Capacity building initiatives in the south west Pacific to enhance the safety of navigation

Mr. Brad Groves. Australian Maritime Safety Authority, Australia

126 Increased sustainability of sea transport by integration of ICT and ITS solutions: The MONALISA 2.0 project

Mr. Anders Brodte, Mr. Ulf Svedberg. Swedish Maritime Administration, Sweden

16.00-17.30

Session 3.4

Chair: Mr. Michael Hoppe, Wasser-und Schifffahrtsdirektion, Germany

ViceChair: Mr. Jorge Teles, Direcção de Faróis, Portugal

7 Innovative use of Aids to Navigation in marking Wave & Tidal Renewable Energy sites

Mr. Peter Douglas. Northern Lighthouse Board, Scotland, United Kingdom

70 VTS a Risk Reducer - A Quantitative Study of the Effect of VTS Great Belt

Mr. Tue Lehn-Schiøler (Speaker), Mr. M.G. Hansen, Mr. K. Melchior, Mr. T.K. Jensen, Mr. S. Randrup-Thomsen, Mr. K.A.K. Glibbery, Mr. F.M. Rassmussen, Mr. F. Ennemark. Rambøll, Denmark

71 The safety of the human element in the maintenance of marine aids to navigation

Mr. James Crawford. Directorate General Maritime Territory and Merchant Marine, Chile

77 Sea peril management and role of VTS

Mr. Ugur Karabay. Ministry of Transport, Maritime and Communication, Turkey

130 Future VTS services in the 6 e Navigation areas, beyond territorial waters

Mr. Jon Leon Ervik. Norwegian Coastal Administration, Norway



FRIDAY

30 Management

09.00-10.30

Session 4.1

Chair: *Mr. Phil Day*, Northern Lighthouse Board, United Kingdom

ViceChair: *Mr. Juan Francisco Rebollo*, Puertos del Estado, Spain

1 The cooperative inland waterways safety programme in South Africa

Mr. James Collocott, SAMSA, South Africa

14 Route Topology Modelling as a potential means to reconcile Marine Spatial Planning with Demands of the Sea Traffic – the North Sea example

Mr. Jan-Hendrik Oltmann, Federal Waterways and Shipping Administration, Germany

4018 Introduction of an Operation & Maintenance Framework for the Coastal Wide Aids-to-Navigation Network at the German Coast and Integrated Management System for Maintenance Processes

Mr. Sascha Heesch (Speaker), *Mr. Thomas Kuckling*, Federal Waterways and Shipping Administration, Germany

34 Lessons on disaster preparedness for Aids to Navigation learned from the Great East Japan Earthquake

Mr. Kazuyuki Tanaka, Aids to Navigation Engineering Division, Maritime Traffic Department, Japan Coast Guard, Japan

Speaker: *Hideki Noguchi*, Navigational Safety System Development Office, Aids to Navigation Engineering Division, Maritime Traffic Department, Japan Coast Guard, Japan

110 The Aids to Navigation (AtoN) Service in Spain

Mr. Javier Martín Santo Domingo (Speaker), *Mr. Juan Francisco Rebollo*, Puertos del Estado, Spain

10.30-11.30

The 500th Anniversary of The Corporation of Trinity House. HRH Princess Royal, Princess Anne, Master, The Corporation of Trinity House

11.30-13.00

Session 4.2

Chair: *Mr. Roger Barker*, Trinity House, United Kingdom

ViceChair: *Ms. Kaisu Heikonen*, Finnish Transport Agency, Finland

50 Maintenance of Aids to Navigation based on knowledge, innovation and integration of IALA guidelines and recommendations

Mr. Nick Goethals, Vlaamse Overheid - Agentschap voor Maritieme Dienstverlening en Kust - Afdeling Scheepvaartbegeleiding, Belgium

51 Risk management in waterways affected by hurricanes

Mr. Julio Fidel Sierra Almaguer, Hydrographic and Geodetic Service of the Republic of Cuba

56 Development, maintenance and provision of AtoN services. Who pays for them?

Mr. Álvaro Rodríguez, Puertos del Estado, Spain

74 Quantitative Risk assessment and the Complimentary use of IWRAP

Mr. Roger Barker, Trinity House, United Kingdom

13.00-14.00 *Lunch: Palexco ground floor*

14.00-15.30 *Session 4.3*

Chair: Mr. Seung-gi Gug, Korea Maritime University, Republic of Korea

ViceChair: Ms. Monica Sundklev, Swedish Maritime Administration, Sweden

83 Atlantic Coast Port Access Route Study and Coastal Marine Spatial Planning

Mr. George H. Detweiler Jr. U. S. Coast Guard, USA

88 'Light Measurement of Tower of Hercules Lighthouse'

Mr. Malcolm Nicholson. General Lighthouse Authorities, United Kingdom and Ireland

Speaker: Link Powell

101 Outsourcing of AtoN maintenance services – innovation in tendering, contracting and managing these services in Australia

Mr. Gerry Brine (Speaker), Mr. David Jeffkins. Australian Maritime Safety Authority, Australia

38 e-Navigation Starts with e-Voyage Planning

Mr. Geir L. Olsen. Jeppesen Norway, Norway

115 Real-time risk assessment for aids to navigation using fuzzy-FSA

Ms. Tingting Chen, Mr. Jinbiao Chen (Speaker), Mr. Chaojian Shi, Mr. Dongxing Jia. Shanghai Maritime University, China

116 Risk assessment of new dangerous wreck marking

Mr. Yongqiang Lu. Shanghai Maritime Safety Administration, China



FRYDAY

30 Best practices

16.00-18.00

Best practices session

Chair: *Mr. Eric Vassor*, CEREMA, France

BP1 Improving daytime visibility of some buoys in Santander Port

Mr. Carlos Calvo (Speaker), *Mr. Luis Álvarez*. Port Authority of Santander, Spain

BP2 IVEF implementation in polish National Maritime Safety System

Mr. Artur Baranowski (Speaker), *Mr. Jan Moltkowski*, *Mr. Michal Burka*. Sprint, S.A., Poland

BP3 Utilisation de sources lumineuses a LED dans les optiques traditionnelles

Mr. Yves-Marie Blanchard, CETMEF, France

Speaker: *Mr. Michel Cousquer*, CEREMA, France

BP4 Handbook for Nautical Studies

Mr. Ernst Bolt. Ministry of Infrastructure and the Environment, The Netherlands

BP5 How to reduce bad habit in VTS operators

Mr. Carlos Fernández Salinas. Spanish National Agency for Maritime Safety and Rescue, Spain

BP6 AtoN's remote monitoring and AtoN's remote control with AIS messages with a dedicated low cost coastal Station

Mr. Pierre-Yves Martin. CETMEF, France

Speaker: *Mr. Jean-Charles Cornillou*, CEREMA, France

BP7 Dynamic Chart Overlays to maximize the safety of navigation and assist in contingency planning

Mr. Jonathon Pearce (Speaker), *Mr. John Finch*. OMC International, Australia

BP8 Handling of echoes using VoIP technology in case of multiple shore reception of maritime communications

Mr. Romain Gallen, *Mr. François Bajard-Jacobs*, *Mr. Patrick Doaré*, *Mr. Thierry Le Podre*.

CETMEF, France

Speaker: *Mr. Jean-Charles Cornillou*, CEREMA, France

BP9 The use of AIS in a mixed area

Mr. Jeffrey Van Gils. Rijkswaterstaat Water, Traffic and Environment, The Netherlands

BP10 Reparation d'une tourelle en mer a l'aide de beton fibre ultra performant (BFUP)

Mr. Nicolas Fady, *Mr. Emmanuel Denarie*. CETMEF-DT/TSMF/PIE, France

Speaker: *Mr. Michel Cousquer*, CEREMA, France



SATURDAY

31 Heritage

09.00-11.00

Heritage session

Chair: *Mr. Bob McIntosh*, Northern Lighthouse Board, United Kingdom

ViceChair: *Ms. Susana Roel*, Port Authority of A Coruña, Spain

10 Heritage preservation, the Chilean experience in its 175th anniversary

Mr. James Crawford, Directorate General Maritime Territory and Merchant Marine, Chile

44 Design and set up of a website about lighthouses of the Balearic Islands

Mr. Jorge Martín, Port Authority of Balearic Islands, Spain

53 Integrated lighthouse value indicator

Mr. Juan Francisco Rebollo, Puertos del Estado, Spain

7355 The Use of Otter Shutters in the Northwest Coast of Spain and the national plan and study of the characteristics and inventory for preservation of historic lighthouses

Ms. Marisa Marco (Speaker), Port Authority of Vilagarcía, Spain

Mr. José Carlos Díez, Puertos del Estado, Spain

575864 Tower of Hércules. Past, present and future

Ms. Ana Goy, *Ms. Dulcemaría Trigo*, *Mr. Juan Manuel Doce*, *Mr. Juan Mario Crecente* (Speaker), Spain

62 Model for identification of complementary uses in lighthouses

Mr. Gervasio Dopico, Port Authority of Ferrol-San Cibrao, Spain

68 Lighthouses and their link to their immediate environment

Mr. Eduardo Blanco, Head of the Department of Fishing and Estate Management, Port Authority of A Coruña, Spain

106 Issues and Innovation in remediation of concrete AtoN structures-including case studies for Hydrographers Passage AtoN structures and historic Cape Don Lighthouse

Mr. Greg Hansen, Australian Maritime Safety Authority, Australia

Speaker: *David Jeffkins*, Australian Maritime Safety Authority, Australia

111 "Mapping our maritime heritage" A method for the documentation and presentation of maritime heritage, reaching it's audience through phones, pads and PC/Mac's

Mr. Jo Van der Eynden, *Mr. Jan Robert Jore*, Norwegian Lighthouse Museum, Norway

Speaker: *Kristi Slotsvik*, Norwegian Coastal Administration, Norway

119 Analysis on protection of historical lighthouses in China

Mr. Zhang Fangshun (Speaker), *Mr. Xu Ming*, *Mr. Li Dan*, *Mr. Xu Shanlei*, Shanghai Maritime Safety Administration, China

11.00-11.30

Coffee: Exhibition areas

11.30-12.30

Conclusions and venue next 19th IALA Conference 2018-Republic of Korea

12.30-14.00

Lunch: Pallexco ground floor

14.00-15.30

General Assembly 2 (elections) and (during the time for results) venue IALA VTS Symposium 2016- Malaysia

15.30-16.30

58th IALA Council session

THE PERSONS



THE PERSONS

ALIMCHANDANI Mahesh

ÁLVAREZ Luis, Mr.

ARROYO, Jorge, Mr.

BÄCKSTEDT Jesper Mr.

BARANOWSKI Artur, Mr.

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DOPICO Gervasio, Mr.

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PEDROSA Juan Luis, Mr.

PELLIZZARI, Piero Mr.

PENG Guojun, Mr.

REBOLLO Juan Francisco, Mr.

RHEE Joon Hyo, Mr.

RODRIGUEZ Alvaro, Mr.

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ALIMCHANDANI Mahesh

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BIOGRAPHY

Mr. Mahesh Alimchandani is the Head of Navigation with the Navigation Safety & International Division of the Australian Maritime Safety Authority (AMSA).

Mahesh is a Master Mariner (Class 1) and has served on ocean-going cargo ships for over fourteen years. He has a Master's degree in Business Administration from the University of Canberra. Mahesh is an Associate Fellow of the Royal Institute of Navigation UK and a Member of the Nautical Institute.

Mahesh leads the development of policies and practices that enhance the safety of navigation in Australian waters. This includes contributing to enhance the effectiveness of AMSA's aids to navigation network through policy and planning initiatives. He also represents AMSA at various national and international marine navigation safety forums.

From 2006 to 2008, Mahesh worked as the Technical Coordination Manager at IALA, the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA, located in France). There, he was responsible for coordinating the work of the various committees and representing the association in a technical capacity. He was also the Secretary to all of IALA's technical committees.

Prior to 2006, Mahesh worked with AMSA for twelve years, and contributed to the development and implementation of policies relating to the safe navigation of ships in Australian waters. His focus was on new technologies such as Automatic Identification System (AIS).

More recently, he has been involved in a review of the maritime safety and environment protection measures in the north-west region of Australia and the north-east shipping management plan. Mahesh is the recipient of an Australia Day achievement award in 2004 and the AMSA Chairman's Award in 2011.

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Mr. Jorge Arroyo has served in the U.S. Coast Guard for 28 years; 13 years as a commissioned officer involved in recreational boating safety, search and rescue, vessel traffic management, polar icebreaking, ship and shore-side operations; and, the last 14 years as a program & management analyst at the Office of Navigation Systems at U.S. Coast Guard Headquarters. He is their regulatory project officer and subject matter expert for Automatic Identification System (AIS). He is an active member of various AIS committees at the International Electrotechnical Committee and Radio Technical Committee for Maritime Services. He is also a U.S. advisor-delegate to the International Maritime Organization's Navigation Sub-Committee, and, chair of their AIS Aids to Navigation Policy Drafting Group; and, also the vice-chair of the AIS Working Group of the International Association of Marine Aids to Navigation and Lighthouse Authorities. He obtained a Bachelor of Science from the University of Illinois, a Juris Doctor from DePaul University School of Law, and, has sailed the seven oceans and made land-fall on every continent.

Author/Speaker of paper No.: 94



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BIOGRAPHY

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François Bajard-Jacobs is a senior technician working in the Information Processing Unit at DTecEMF, Cerema, France. Qualified in electronic and electrical engineering, his expertise is mostly focused on all information exchanges (data, voice communications, alerts) between the ships, the French MRCCs and their partners. He has participated in all projects related to voice transportation between MRCCs and shore stations, with analogic means as well as with digital means.

Co-author of Best Practice No.: 8

BARANOWSKI Artur

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BIOGRAPHY

Mr. Artur Baranowski is M.Sc.Eng. of telecommunication, Technical University of Gdansk. Senior project manager (IPMA). IALA eNavigation Committee Sprint representative.

Operational manager in Sprint S.A. Responsible for maritime related projects. Engineer and project manager in many projects (IT, TELECOM, CCTV, surveillance and low voltage systems). In the past 19 years job carrier Project Manager in many ICT integration projects. In Sprint responsible also for personnel and quality management systems (ISO 9001:2000, AQAP 2110:2003, AQAP 2210:2003 and Internal Compliance Program and Turnover Management System).

Author (with Michał Burka and Jan Młotkowski) of the 'IVEF implementation in Polish National Maritime Safety System' presentation (in English) on the Best Practices Session.

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BIOGRAPHY

Mr. Roger Barker joined the UK Merchant Navy as a Deck Cadet at the age of 16, progressing through the ranks to finally serve as Master. Most of his career was working on roll on/roll off vessels on the Northern Europe trades into the Baltic which gave him a fundamental background in high density shipping as a day job. Having sailed with the same UK shipping company for some 28 years he came ashore as Marine Superintendent in 2000 and was closely involved with the build and bringing into service of 6 Roll on Roll off vessels fitted with the latest integrated bridge systems. In 2005 he joined Trinity House London as Navigation Manager, taking over as Director of Navigational Requirements in 2009. He is closely involved with many aspects of IALA work including being chairman of WG 1 with ANM (ARM) and a member of the IWRAP Steering Group.

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Mr. Yves-Marie Blanchard is a civil engineer, with a degree in mathematics, a degree in science, and a master degree in civil engineering.

He worked for three years as a database administrator in french maritime authorities.

After which he came in 2011 at CETMEF to work as a specialist in the field of optics of lighthouses and beacons for two years.

Since 2013, he has been the chief of the "equipment" service in the CETMEF and now the CEREMA which focuses in energy, automation, and optical signal in the field of aid to navigation.

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Mr. Stefan Bober is a senior engineer within the Traffic Technologies Centre of the German Federal Waterways and Shipping Administration.

Since 1987 he has been working on radio aids and transponder techniques. He has been involved in several projects concerning radio transponder and AIS and is engaged in the AIS standardisation process for maritime and inland waterways applications. Stefan Bober is actively involved in the development and planning of the German AIS Services.

Stefan Bober is member of various national and international working groups dealing with development and standardisation of AIS and radio communication systems. He is member of the AIS and Communication WG within the IALA e-Navigation Committee, chair of IEC AIS WG and chair of the European expert group for Vessel Tracking and Tracing for Inland Navigation.

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Mr. Ernst Bolt studied Maritime Technology at the Delft UT where he graduated in 1985. After that he worked at Delft Hydraulics on various research projects related to ship manoeuvring, shipping safety and mathematical modelling. In 2000 he started work at the Shipping and Transport division of Rijkswaterstaat, Ministry of Infrastructure and the Environment. His area is the development of mathematical models to support waterway design and traffic management and advising on traffic efficiency and safety. Since 2012 he is a member of IALA ANM Committee.

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BIOGRAPHY

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BIOGRAPHY

Mr. Anders Brødje is a Senior Research Coordinator at the Swedish Maritime Administration, where he is involved in several research and development projects, among others the pan-European Accseas project and the MONALISA 2.0 project. Parallel to this, he is also an active researcher at Chalmers University of Technology, Sweden. His main area of research is Human Factors-aspects of VTS, focusing primarily on expertise and the training of VTS-operators.

Mr Brodje has previously served with the Swedish Maritime Administration as Assistant Maritime District Manager as well as VTS Manager. Prior to joining the Swedish Maritime Administration he served as Commissioned Officer in the Royal Swedish Navy holding various onboard positions within the 4th Mine Warfare Flotilla and since leaving active duty he now serves as LtCdr in the Naval Reserve. He holds a Licentiate of Philosophy in Maritime Human Factors, a BSc in Nautical Science and is a Master Mariner.

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Mr. Michal Burka is 25 years of experience in software development and integration projects. Long term experience in software integration projects. Leader of the software development teams and Project Manager of many R&D projects. Responsible for software development in Sprint S.A.

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BIOGRAPHY

Mr. Carlos Calvo is doctor in philosophy from the Complutense University of Madrid was born in 1956.

I started to work in the field of Aids to Navigation in 1992 in Canary Island, working in the maintenance team of the 6 major lighthouses and the buoys and beacons of Las Palmas harbour.

Two years later I moved to the Port of Santander Aids to Navigation Department until today.

In 2005 I was part of the experts team in the European Twinning Project called "Improvement of Maritime Safety in Ports and Coastal Areas in Turkey".

From 2003 to 2009 I was member of the EEP Committee of IALA as part of the Spanish delegation of Puertos del Estado.

Since 1994 I am responsible with two other colleagues for the technical maintenance, design and constant technological renewal of Aids to Navigation of Santander Port.

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Mr. Michael Hoppe received his diploma as a radio engineer in 1990. Since 1991 he has been working for the Traffic Technologies Centre within the German Federal Waterways and Shipping Administration. He is responsible for the field of radio navigation systems for maritime and inland waterways applications. Michael Hoppe is actively involved in the development and planning of the German radio beacon network and the investigation of present and future radio navigation systems. Michael Hoppe is a member of various national and international working groups dealing with development and standardisation of integrated PNT systems. Since 1998 he has been a member of the IALA Radio navigation committee and since 2006 member of the IALA eNavigation Committee. At present he is acting as vice chair of the PNT WG within the IALA eNavigation Committee.

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BIOGRAPHY

Mr. David Jeffkins is the Aids to Navigation Asset Manager in the Navigation Safety & International Division of the Australian Maritime Safety Authority (AMSA).

David has an electrical background specialising in process automation, information systems and plant maintenance. David worked in various technical and management roles at BHP in Australia for 15 years before joining AMSA in 2000. Since then David has been heavily involved in the management, operation and maintenance of AMSA's aids to navigation network and is currently responsible for managing AMSA's outsourced AtoN maintenance contract arrangements.

David has been actively involved in the work of IALA since 2006 and is currently the vice chair of the IALA Engineering Committee, he also chairs the aids to navigation strategy and operations working group in Australia.

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BIOGRAPHY

Mr. Jan Robert Jore is a film-producer and has been working with documentary films for both screen and television, and he has received several awards. He has also been working with the establishment of the national digital film archive of Norway. He has a fascination for maritime history, and has for the last few years been working for the Lighthouse Museum, developing the project Coastlight.net.

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BIOGRAPHY

Mr. Ugur Karabay is Ocean Going Master Mariner who had serviced in LPG, Afra-max and Suez-max Crude Oil tankers in master position for two years after five years sea services in all officer ranks. After that, work as VTS (Vessel Traffic Services) Supervisor for two years and VTS operator four years in Bosphorus / Istanbul Strait, Turkey in Directorate General of Coastal Safety (DGCS). I was IALA (International Association of Marine Aids to Navigation and Lighthouse Authorities) Councilor on behalf of Turkey and IALA VTS Committee Member for three years. I am PIANC (Permanent International Association of Navigation Congresses) In-com Committee Member. I am still master of Oil Recovery Vessel Seyit Onbasi which was owned by DGCS. And also I had been voluntary lecturer one day a week for navigation and electronic navigation lessons in two different maritime faculties in Istanbul for four years.

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CARRIER SUMMARY

2013-2014 DGCS – Head of Maritime Services Department – ORV Seyit Onbasi – Master
2006 – 2013 DGCS – Istanbul VTS Center – Bosphorus VTS Supervisor and Operator
2004 - 2006 DITAS Marine Operations and Tanker Management Co. – M/T Cumhuriyet - Master / Chief Officer
2003 - 2004: Military Service in Turkish Navy (Navigation Officer)
2002 - 2003 GUNGEN Maritime & Trading Corporation - M/T Ottoman Nobility / Dignity – Chief Officer
2000 - 2002 TEEKAY Shipping Incorporated - M/T Koyagi Spirit / Hamane Spirit - Deck Officer
1999 - 2000 BESIKTAS Shipping Incorporated – M/T Beşiktaş and Salih Kalkavan – Deck Officer

ACADEMIC QUALIFICATIONS

Istanbul University, Marine Science Institute - Marine Environment Department Post Graduate (Thesis : “A Presumptive Q-Max LNG Tanker Marine Accident’s Risks in Bosphorus / Istanbul Strait”)

Istanbul Technical University – Maritime Faculty. Department of Maritime Transport and Management. Graduation : 2000 Graduation Average: 3.34 / 4.00

Istanbul Technical University College of Technology. Deck Department
Graduation : 1997 Graduation Average: 3.55 / 4.00

SKILLS

Computer and Language Skills

MS-Office and Applications and web applications
 MPM, Rust Maximo (Planned Maintenance Program)
 MSK (Spare Parts Program)
 Advanced level written and spoken English
 Intermediate level written and spoken Spanish

Personal Skills:

Research in philosophy and psychology fields, reading, research in maritime professional vision developer innovations and new technologies fields, follow up all maritime professional new regulations and procedures, computer and travelling are my interest fields.
 Non-smoker.

Certificates:

Bosphorus / Istanbul Strait VTS Supervisor and VTS Operator Certificates
 Ocean Going Master Mariner Competency
 All necessary STCW and Professional courses certificates
 GOC (GMDSS) Radio Communication Certificate

ACHIEVEMENTS

2014 IALA Conference Speaker on "Sea Peril Management and Role of Vessel Traffic Services."
 2013 11TH TRANSPORTATION FORUM - Intermodal Transportation and Energy Pipe Lines Working Group Member, Republic Of Turkey Ministry of Transport Maritime and Communication
 2013 International Bunker Conference Speaker on "Improving Navigational Safety for Bunker Vessels in Congested Waterways."
 2013 PIANC Annual General Assembly Speaker on "Navigational Safety and Statistics of Turkish Straits."
 2013 MEDITERANEAN SEASPILL Seminar Speaker on "LNG Tankers Risk Management on Environment and Community."
 2012 IALA 12TH INTERNATIONAL VTS Symposium Steering Committee Vice-Chair
 2012 IALA VTS Symposium Speaker on "Fatigue and Stress Management for VTS operator"
 2011-2008 MERMAID International Maritime Students Conference Speaker on "Maritime Education and IMO Model Courses."
 2009 10TH TRANSPORTATION FORUM- Intermodal Transportation and Energy Pipe Lines Working Group Member, Republic Of Turkey Ministry of Transport Maritime and Communication



KAUTZ William

Telecommunications manager. U.S. Coast Guard, USA

BIOGRAPHY

Mr. William (Bill) Kautz joined the United States Navy in 1978 and served 20 years as a Chief Radioman. He is a graduate of the College of Southern Maryland with a degree in Information Technology Services. Currently, he is a Telecommunications Manager and Radio Spectrum Manager on the staff of the Commandant of the United States Coast Guard in Washington D.C. He is the Vice Chair of the e-Navigation Committee's AIS and Communications Working Group and the IALA Rapporteur to the International Telecommunications Union's (ITU) Working Party 5B. He will Chair the e-Navigation Committee's Communications Working Group during the 2014-2018 work session.

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BIOGRAPHY

Professor David Last is a Strategic Advisor to the General Lighthouse Authorities of the UK and Ireland. He is a Past-President of the Royal Institute of Navigation. A Professor Emeritus in the University of Bangor, Wales, he works as a Consultant and Expert Witness on radio-navigation and communications systems for companies, governmental, international and legal organisations. He is an instrument-rated pilot and practising navigator.

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BIOGRAPHY

Mr. Tue Lehn-Schiøler is a specialist in statistics and advanced data analysis, an expertise that is founded in his master studies at the Technical University of Denmark (DTU) and studies at the National Aerospace Laboratory of Japan and the subsequent PhD and postdoctoral research at DTU and the University of Florida.

After leaving the academic environment Tue Lehn-Schiøler founded a statistical consultancy company serving international clients in industries such as transport, finance and medico. In his current position at Rambøll Tue Lehn-Schiøler uses his statistical knowledge to analyse navigational conditions and improve the navigational safety in relation to large offshore infrastructure projects.

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Mr. Nick Lemon joined AMSA in early 2003 and has worked in the areas of aids to navigation provision, nautical advice and policy, and with AMSA's delegated legislation known as Marine Orders. Nick attends relevant technical meetings of the International Maritime Organization and the International Association of Marine Aids to Navigation and Lighthouse Authorities representing AMSA on safety of navigation matters.

Nick's previous career was as a seaman officer and hydrographic surveyor in the Royal Australian Navy. Highlights from his time in the navy include an exchange posting with the Royal Navy working on survey ships around the British Isles and three years in command of an Australian Navy survey ship. Nick also spent several years at the Australian Hydrographic Office in survey planning, operations and management roles.

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Co-author of Best Practices No.: 8

LIU Jiahua

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BIOGRAPHY

Mr. Jiahua Liu has been working with Shanghai Aids to Navigation Department and Donghai Navigation Safety Administration of Ministry for more than 33 years. He is Director of the Shanghai Aids to Navigation Department in 2000. He has devoted himself to aids to navigation development and its technology update in Eastern China Sea area and has made a lot of achievements. With his research team, he carried out more than 10 projects research regarding aids to navigation and four of them have got award for science and technology given by the institute of navigation of China.

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Mr. Marcos López Cabeceira is a professional with 13 years of experience, working in GMV since 2001. Currently, Marcos is Head of the Maritime Section in GMV, managing and working in projects in the areas of AIS/VTs/DGNSS/AtoN, e-Navigation networks, Port management and Multimodal transport, European and International Maritime Safety consultancy and tools. Business Development, Team working and Project Management support are some of his key expertise. Marcos has attended the following trainings/programmes: PMI Project Management Professional (PMP)® course (2014), Master in Terminal Management by the Lloyds Maritime Academy, UK. (2011), Expert in Maritime Traffic and Port Management by the University of Madrid (2008), Master in Electronics Engineering by the University of Valladolid, Spain.(2001) and Master in Physics (M. Sc.) by the University of Valladolid (1999). Marcos is currently participating in European Key organizations playing a role of industrial member as IALA e-Navigation Committee e-Maritime expert for MESA European Commission.

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BIOGRAPHY

Mr. Yongqiang Lu has involved in AtoN management for more than 22 years and made a lot of achievements such as long-term plan, standard, specification etc.. He has been a delegate of IALA ANM/EEP/IALA-NET committee since 2002. He participated in the organizing of IALA Shanghai 2006 Conference, and also acted as vice-chair the 2006 and 2010 Conference. He acted as secretary for IALA president during 2006-2010. He pushed forward the Emergency Wreck Marking Buoy international Standard and was appointed by IALA as the Rapporteur of Emergency Wreck Marking Buoy.

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Ms. Marisa Marco was born in Castellón de la Plana (Spain) in 1973. She graduated with a Master of Science in Civil Engineering at the Universidad Politécnica de Valencia. Her first job was in Castellón Port Authority. Later she started working for the private enterprise, where she was Director of Technical Department in Grupo Franco Obras y Proyectos, a Spain-based company dedicated to infrastructure maintenance. As a result of the company plans to expand its activity, she moved to Panamá, where she worked as manager director for Latin America.

At the moment, she is in charge of Infrastructures and Planning Department in Vilagarcía de Arousa Port Authority, and among her responsibilities, it is the management of ATON.

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BIOGRAPHY

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DEGREE: Civil Engineer (2000) La Plata National University, Argentina; Specialist in Port Engineering (2012) University of Buenos Aires, Argentina

SPECIALIZATION: Aids to Navigation

PROFESSIONAL ACTIVITIES: Since 2005 Technical Department Manager of HIDROVIA SA in charge of:

- Integral co-ordination of the maintenance of Aids to Navigation in a stretch of 1500 Km in the main waterway of Argentina
- Supervision bathymetric surveys in the Parana River
- Implementation and operation of a hydrometric network with 36 remote stations

INTERNATIONAL ASSOCIATIONS: Since 2011 Member of the IALA EEP Committee

COURSES AND SEMINARS

2001 – Bidimensional 2D Modelling with DHI Mike 21 Software

2002 – General dredging Course – TID -. IHC – Kinderdijk – The Netherlands

2003 – Third Inland Navigation Seminar – Sobena - Corumba – Brazil

2003 – Promodel Simulation Processes Course – San Paolo – Brazil

2003 – AIS for Aton Seminar – Royal Institute of Navigation - London

2005 – Fourth Inland Navigation Seminar – Sobena – Belem do Para – Brazil

2007 – International Seminar of dredging and environment – WEDA – Rio de Janeiro – Brazil

2008 – International Seminar on inland ports and waterways – Iquitos - Peru

PUBLICATIONS

Published

- IALA Magazine (2012) – Implementation of an AIS AtoN in Argentine Antarctic

To be published

- IALA Magazine (2014) Implementation of antifouling paints in AtoN and Maritime structures .
- Collaboration with the redaction of IALA Guideline on Prevention and protection of AtoN systems against vandalic actions

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Have played (from 15 October 2012 until November 2013) as Chief Operating, Services and Territory Balearic Islands Port Authority as Head of Department.

He has held the post of Head of Projects and Works Department of the Port Authority of the Balearic Islands

He has held the post of Head of Department of Port and Coastal Infrastructure Management and Environmental Techniques Gathered. (January 2007 to December 2007)

He has held the position of Area Manager Port Services Public State Ports Agency (from April 2005 to January 2007)

He has held the post of Head of Projects and Works Department of the Port Authority of the Balearic Islands (from January 2004 to April 2005), being responsible for the investment of the Port Authority: 24 M€ in 2004 and Director of all the works to be executed in that period.

He has played in the Balearic Islands Port Authority as Head of the ports of Ibiza and Formentera (from July 1998 to December 2003)

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With an Electronics Engineering background, [Mr. Antonio Martínez](#) started his career in the world of Marine Aids to Navigation in 1989. He gained his expertise thanks to hundreds lighthouses installations and repairs, port and harbour beaconing, buoy deployments, beacon electronic circuit designs, production supervising ,maintenance and training programs throughout more than 16 years. Expert in site surveys, his tireless passion for lighthouses has made him sail along the coasts of Spain, China, Vietnam, Indonesia, Philippines, Angola, Cape Verde, Venezuela and Ecuador among others. As founding partner, in 2006, he brought to MSM a wealth of experience from project management to international customer service, and ingenious creativity and a fighting spirit.

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MILLET Alec

Nautical and Hydrographic Advisor. Australian Maritime Safety Authority, Australia

BIOGRAPHY

Mr. Alec Millett joined AMSA in June 2013 from the Port of Fremantle where he was the Deputy Harbour Master and Manager Marine Operations. His responsibilities included the safety of commercial shipping navigation, management of Vessel Traffic Services, management of pilotage requirements and pilot transfer services, buoyage configuration (including floating, fixed and AIS services), incident response, daily stakeholder/Agent/customer management and the supervision and configuration of the Port's real-time under keel clearance (UKC) management system.

With almost 30 years in the greater maritime domain, Alec has been engaged by a number of prominent private sector, government and government trading enterprises including the Royal Australian Navy as a seaman officer, GeoVision Australia, Ports Corp SA and SAAB Systems. Through this extensive experience, Alec's role at AMSA is to provide specialist advice on the safe navigation of commercial shipping and related aids to navigation, guidance to the exploration and off-shore/petroleum industry, assisting in the design of shipping traffic management regimes and identifying associated hydrographic issues. Alec is also involved in AMSA's e-navigation initiative and to investigate related maritime developments including the emergent area of Marine Spatial Planning (MSP) and adapting mainstream Geographic Information System (GIS) technology to the specialised maritime environment.

Alec has formal qualifications in management, maritime operations, business planning and hydrographic surveying. He is a member of a number of principal professional organisations including the International Harbour Masters Association and Australian Institute of Company Directors. He is also the regional Director of the International Federation of Hydrographic Societies.

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MŁOTKOWSKI Jan

Eng., Deputy Director in the Maritime Office in Gdynia, Poland

BIOGRAPHY

Mr. Jan Młotkowski is Eng., Deputy Director in the Maritime Office in Gdynia, Poland.

Coordinator of the Polish National Maritime Safety System project. Since 1993 employed in the Polish maritime administration, initially in Hydrographic Office, as a specialist and senior specialist in the Department of Marine Hydrography, then in Maritime Traffic Department as a manager in Marine Safety Information Exchange Center.

Over 15 years experience related to maritime safety monitoring. He was involved in the in the Gulf of Gdansk VTS (2000 – 2003) project. Since 2009 he is responsible for the Aids to Navigation, technical maintenance and development of IT, radionavigation and maritime monitoring systems in the Maritime Office in Gdynia.

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Mr Paul F Mueller have a Bachelor's of Arts degree in Physics from Ithaca College in Ithaca, New York, USA. I have over thirty-five years of experience designing software and hardware for industrial data acquisition and control (SCADA). For the last twenty-three years I have worked for Tideland Signal Corporation.

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He graduated the Aids to Navigation Course of the Japan Coast Guard School in 1980. He was chosen to the Japanese Government Short-term Fellowship Program Student in 1994 and sent to the United States Coast Guard for 6 months to study floating aids management. In 2005, he was dispatched to Philippine Coast Guard as the expert on SAR and AtoN of the Human Resource Development Project by Japan International Cooperation Agency for 2 years.

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Mr. Magnus Nyberg received his Master of Science from the KTH Royal Institute of Technology. He first started to work with AIS development and AIS standardization in 1997 for the GP&C Sweden AB, a subsidiary of the Swedish Space Corporation that later became part of SAAB Transponder Tech in 2004. There he worked as the Product Manager for the development of the R3/R30 and R4/R40 AIS platforms. He left SAAB in 2004 to start with True Heading AB, where he developed various AIS products and performed consultancy services. He joined Pharos Marine Automatic Power Inc. in 2011, where he took part in the AIS AtoN development for the ATONIS products lines and AIS analyzing software tools. One of the early experts in AIS, Magnus decided to take on new challenges and in 2013 joined the technology company Solace Power to begin a new. Career in the Wireless Power Transfer through resonant electrical field technology.

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OLSEN Geir

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BIOGRAPHY

Mr. Geir Lyngheim Olsen came onboard with Jeppesen in 2011, bringing with him a solid educational background, a wealth of training and practical life experience gained through 11 years of serving vessels at sea. Included in this time were seven years as a seaman and officer on Search and Rescue and offshore vessels (Anchor Handling Tug Supply and Subsea), including two years operating in the volatile maritime regions of Nigeria, Ghana and Angola.

In his current position as Product Manager, Marine in Jeppesen's Stavanger/Egersund, Norway office, Olsen has specialized in the area of voyage, operations and disruption planning solutions. Olsen was instrumental in the Singapore Marine Electronic Highway "S100" sea trials, has served as a delegate and speaker on e-navigation to the International Maritime Organization (IMO) and International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA), and has had several articles published in leading maritime journals.

Olsen's prior experience also includes working as a Marine Logistics Coordinator for ConocoPhillips, providing fleet wide marine operations and logistics management in the company's Onshore Logistics Center.

Olsen's educational background includes a Masters Degree in philosophy and ethics from the University of Bergen and a Bachelors Degree in nautical science from Stord/Haugesund University College specializing in offshore technology and project management.

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With the change to Frequentis in 2007 he came into contact with safety-critical control rooms. There he is part of the human factors team being responsible for user interface design, process analysis and human factor testing for public safety and maritime control rooms.

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Much of this work is aimed at assisting members of the Institute with continuous professional development. He has led research and produced many papers and articles on training, electronic navigation, the associated 'Human Element' effects created by technology, and Marine Spatial Planning. He is currently involved with the international debate on e-Navigation and is Chairman of the IALA e-navigation working group for Strategy and Operations, Chaired the Industry ECDIS Training Group, and is Chairman of the Green Awards Board of Experts.

After a brief period as an independent consultant and surveyor, in 1997 he accepted the position as Project Manager for The Nautical Institute, and became Director of Projects in 2003. A graduate of the Massachusetts Maritime Academy (US), he sailed on a variety of international vessels in his twelve years in the Merchant Navy (1985 – 1997). He holds an Unlimited Master Mariners licence, and was awarded an MBA degree from Henley Management College (UK).

The Nautical Institute is the recognised international professional body for qualified mariners and others with an interest in nautical science. Its purpose is to promote high standards of knowledge, qualifications and competence amongst those in control of sea-going craft, both afloat and ashore. The Institute holds Non-Governmental Organisation status at the International Maritime Organization.

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In 1991, after completing 1800 flight hours, he moved to the Italian Coast Guard.

Since 1996 he has been directly involved in the most relevant Coast Guard projects concerning goods and services supply and updating in the fields of communications, maritime traffic surveillance, radio navigation and new vessel command/control/communication systems.

Rdml. Pellizzari, in his capacity of Chief, Traffic Monitoring and Communication Office, General Headquarters of the Italian Coast Guard, has been involved since the beginning in the activation of both the Italian national AIS system and - in strict coordination with EMSA - of the Mediterranean AIS server for exchange of navigational data among the EU countries of the Mediterranean Sea.

Then, in his current capacity of Head of ICT, Vessel Traffic Monitoring and Radio communications Department at the Italian Coast Guard General Headquarters, has been following outstanding projects in digitalization of port arrival/departure procedures and integration with existing/developing systems in local port communities and other State agencies, and in the realization of the Italian Single Window referred to in the 2010/65/EU Directive.

His international experience includes service as Italy's national representative at IMO COMSAR and NAV Subcommittees in London, at the IALA VTS Committee in Paris and at the 2006 (Shanghai) and 2010 (Cape Town) Conferences, as well as at the 2008 (in Bergen) and 2012 (in Istanbul) Symposiums. He holds a Baccalaureate degree from the University of Trieste in International and Diplomatic Sciences (Faculty of Political Sciences) and a Master degree in Advanced Security Studies from the University of Perugia.

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Degree in physical sciences, began his professional career as teacher of mathematics and physics (1975-1977), later moving to work in the field of physical oceanography and instrumental meteorology from 1977 to 1993 (companies: Thalass,SA, Tecnoceam,SA and Sea & Swell,SA, being founding and director of the last two).

In 1993 he joined the team of Puertos del Estado, like the Head of the Technical Centre for Maritime Signals, being promoted to Head of the Spanish Marine Aids to Navigation Service in 2001, position he holds today. Over the past 20 years, has developed numerous communications and training activities, as well as manage projects on Marine Aids to Navigation in Spain as DGPS Network, Remote Control System, Platform PORTAL-AtoN, SW-AIS Network and IATONIS Service, has been member of IALA-ANM Committee and representative of Puertos del Estado (Spain) in the IALA Council.

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Previously, 9 years in TEMA Consulting Group, involved in transport projects and studies.

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Since earning a graduate degree from the University of Chicago, [Mr. Todd Schuett](#) has traveled throughout the world and visited numerous port and coastal surveillance centers. As the training manager of Kongsberg Norcontrol IT since 2000, he has instructed hundreds of VTS operators from all corners of the earth, as well as developed one of the first interactive online learning solutions for maritime surveillance system operations. Prior to joining Kongsberg Norcontrol IT, Mr. Schuett taught at several universities, including Doshisha University and Ritsumeikan University in Kyoto, Japan. Most recently he has served as Kongsberg's project manager for the EU funded D3CoS project – Designing Dynamic Distributed Cooperative Human Machine Systems – from which was developed the cooperative Path Planner technology described in his paper for the IALA Conference. Todd Schuett is uniquely qualified for this topic, having observed the challenges and diversity in port and coastal VTS operations across the globe. He is a fan of e-Navigation, has been a member of the IALA workgroup on eLearning and is a regular delegate for the IALA V-103 Workshops.

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After he received master's degree of engineering from the Tokyo University of Science, he joined the JCG in 1996. He was engaged in system design and procurement of Radio Aids and VTS. In 2008, he was dispatched to Directorate General of Sea Transportation, Ministry of Transportation, the Government of Indonesia as an expert on Safety Navigation, Preventing marine Disaster and SAR by the Japan International Cooperation Agency for 3 years.

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From 2000 to 2005 worked in the area of IT for Puertos del Estado as Head of Department of Projects and Innovation.

From 1984 to 2000 worked for Ministry of Public Work and Puertos del Estado as Head of Division of Radio navigation Aids to Navigation. During this period, got wide training and experience in Decca System, Loran-C, Differential Omega and Radiobeacons. Between 1995 and 2000, played a relevant role in the design and development of the Spanish Differential GPS Network.

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Mr. Jeffrey van Gils has a longstanding experience in maritime and nautical IT matters. He started his career within the Ministry of Infrastructure and the Environment at an operational site in the Southern part of the Netherlands and acted as conceptual and technical project manager. He was involved with and responsible for the development the Inland Tracking System for Inland Waters.

As from the beginning Jeffrey was engaged in the domestic and regional development of AIS, the last 6 years also on international level.

He was one team members responsible for realisation of the Inland AIS network in the Netherlands and acts as an advisor on AIS for the national port authorities and for the Netherlands Coast Guard.

During the last decade he acts as a Senior Advisor for AIS and other technical e-navigation related aspects, both again on national and international level.

Since 2011 Jeffrey has been appointed as the national coordinator on AIS – including slot management, in close cooperation with the national frequency coordinator. In this capacity Jeffrey also coordinates the work on the development of a national policy framework on the technical implementation, the protection and the use of AIS, Application Specific Messages and its relationships with e-navigation and the River Information Services.

Since 2008 he is a member of IALA e-Navigation Committee, where he started in the Architecture working group and later on joined the AIS and COMMS working groups. Jeffrey is also the custodian of the IALA related website www.e-navigation.nl

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Mr. Lu Xiang has been working with Xiamen Aids to Navigation Department for more than 30 years since he graduated from Dalian Maritime University in July, 1982. He is Director of the unit in 1998 and professorate senior engineer in 2007. He has devoted himself to aids to navigation development and its technology update in Xiamen area and has made a lot of achievements. With his research team, he carried out around 30 projects research regarding aids to navigation and three of them have got award for science and technology given by the institute of navigation of China. And he wrote more than 30 theses concerned with aids to navigation and published in the main domestic magazines.

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XU Ming

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BIOGRAPHY

Mr. Ming Xu has been working at Ningbo Aids to Navigation Department for more than 17 years since he graduated from Dalian Maritime University in 1996. He is a senior engineer . He has devoted himself to aids to navigation administration in the northeastern coastal area of Zhejiang Province. Besides that,, he wrote more than 10 theses concerned with aids to navigation and published in the main domestice magazines.

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BIOGRAPHY

Mr. Xu Shan-lei has been working with Shanghai Maritime Safety Administration for more than 4 years since he graduated from Wuhan University of Technology in July, 2010. He is Master and Assistant Engineer of the Marine Engine Engineering. His master's degree paper "Research on the Methods of Calculation of the New Ship Design CO2 Index" has been quoted widely. He has devoted himself to vessel navigation safety administration. With his research team, he carried out 2 projects regarding vessel navigation safety administration. Besides that, he wrote 4 papers concerned with vessel navigation safety administration and published on the main domestic magazines.

Mailing address: No.190,SiPing Road, HongKou District,
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YANG Jianyun

Professor. Shanghai Waterway Engineering Design and Consulting Co., Ltd., China

BIOGRAPHY

Professor Jianyun Yang is the director and chief engineer of Shanghai Waterway Engineering Design and Consulting Co., Ltd, She had spent 25 years with Aida to navigation engineering, including study and design , She has been closely involved with the national standard of Aida to navigation engineering.

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ZETTERBERG Rolf

Senior Technical Adviser. Swedish Maritime Administration, Sweden

BIOGRAPHY

Mr. Rolf Zetterberg holds a Master of Science degree in Applied Physics and worked for 20 years with technical development and process control systems in different industrial applications. He joined the Swedish Maritime Administration in 1995 and has since then worked with technical support systems, such as AIS and DGPS, in different positions. Rolf has participated in the IALA Committees for Radionavigation, AIS and eNavigation, the last 4 years as chairman for the Working Group AIS & Communication. Rolf has represented Sweden in IMO NAV and other international organisations.

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Author/Speaker of paper No.: 2



ZHANG Fangshun

Director. Ningbo Aids to Navigation Department of Donghai Navigation Safety administration of Ministry of the P.R.China

BIOGRAPHY

Mr. Fangshun Zhang was born in 1958. He worked at the Ningbo Aids to Navigation Department from 1983 till now. He graduated from Hangzhou University in 1991. From 2001 to 2004, he also qualified a law degree in Dalian Naval Academy. Since he joined in this unit, he worked hard and made a lot of achievements. In 2003, he became the director of the unit and has been in this position for about 12 years. With his work team, the unit was the biggest aids to navigation department in China. The number of aids to navigation was more than 1000. Besides, He has made a lot of research about the technology of aids to navigation, such as the research of new material to aids to navigation. The research made great use to the navigation science and Mr. Zhang got the third prize of Scientific and technological progress. Besides, he has wrote about 10 theses about this area and has been published in the main domestic magazines.

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Author/Speaker of paper No.: 119

IALA GENERAL ASSEMBLY

27 MAY
TUESDAY

16:30-18.00 GENERAL ASSEMBLY SESSION 1
Arao Auditorium

31 MAY
SATURDAY

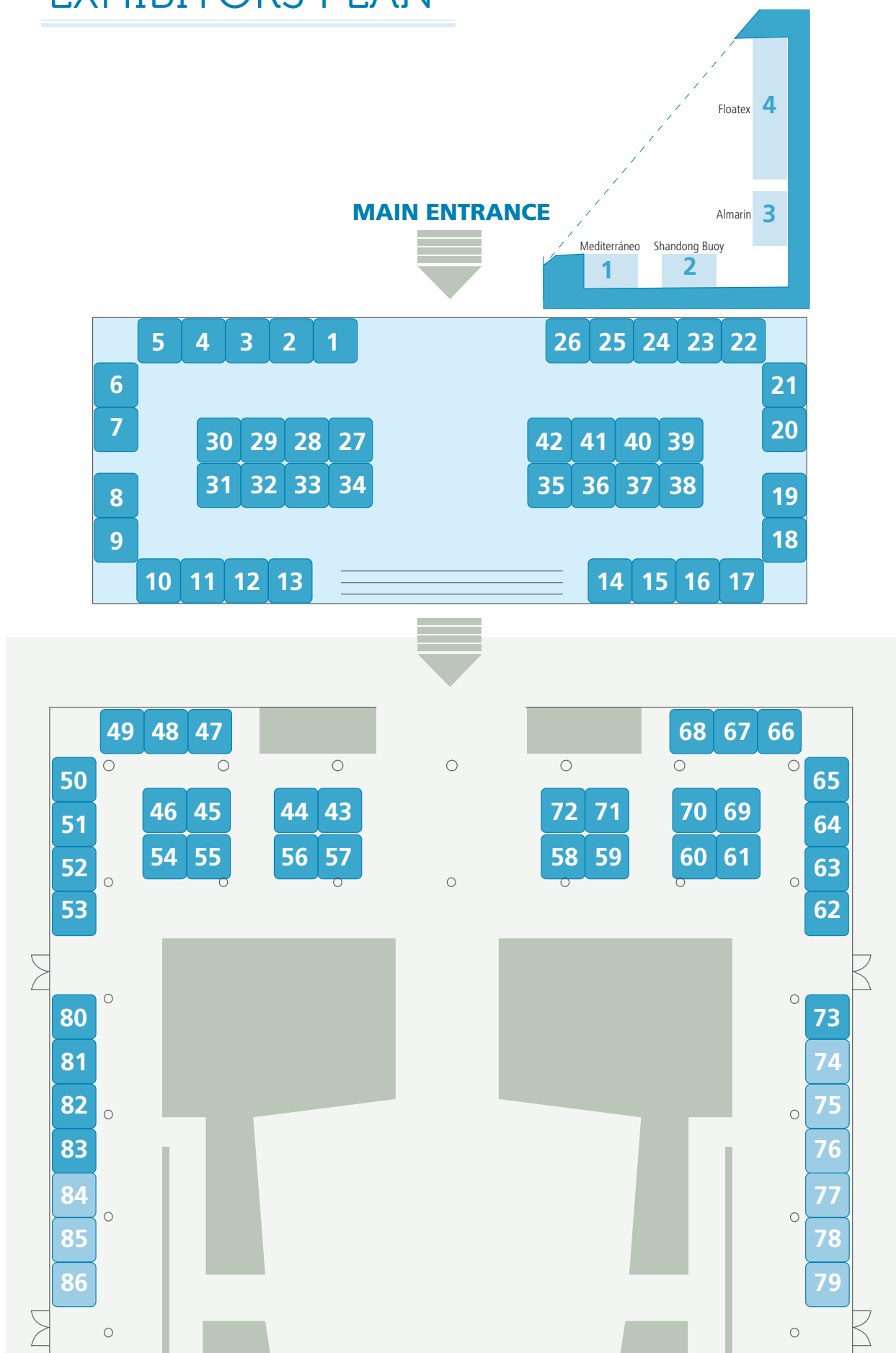
14:00-15.30 GENERAL ASSEMBLY SESSION 2
Election of the new Council
Arao Auditorium



IALA-IMC EXHIBITION



EXHIBITORS PLAN

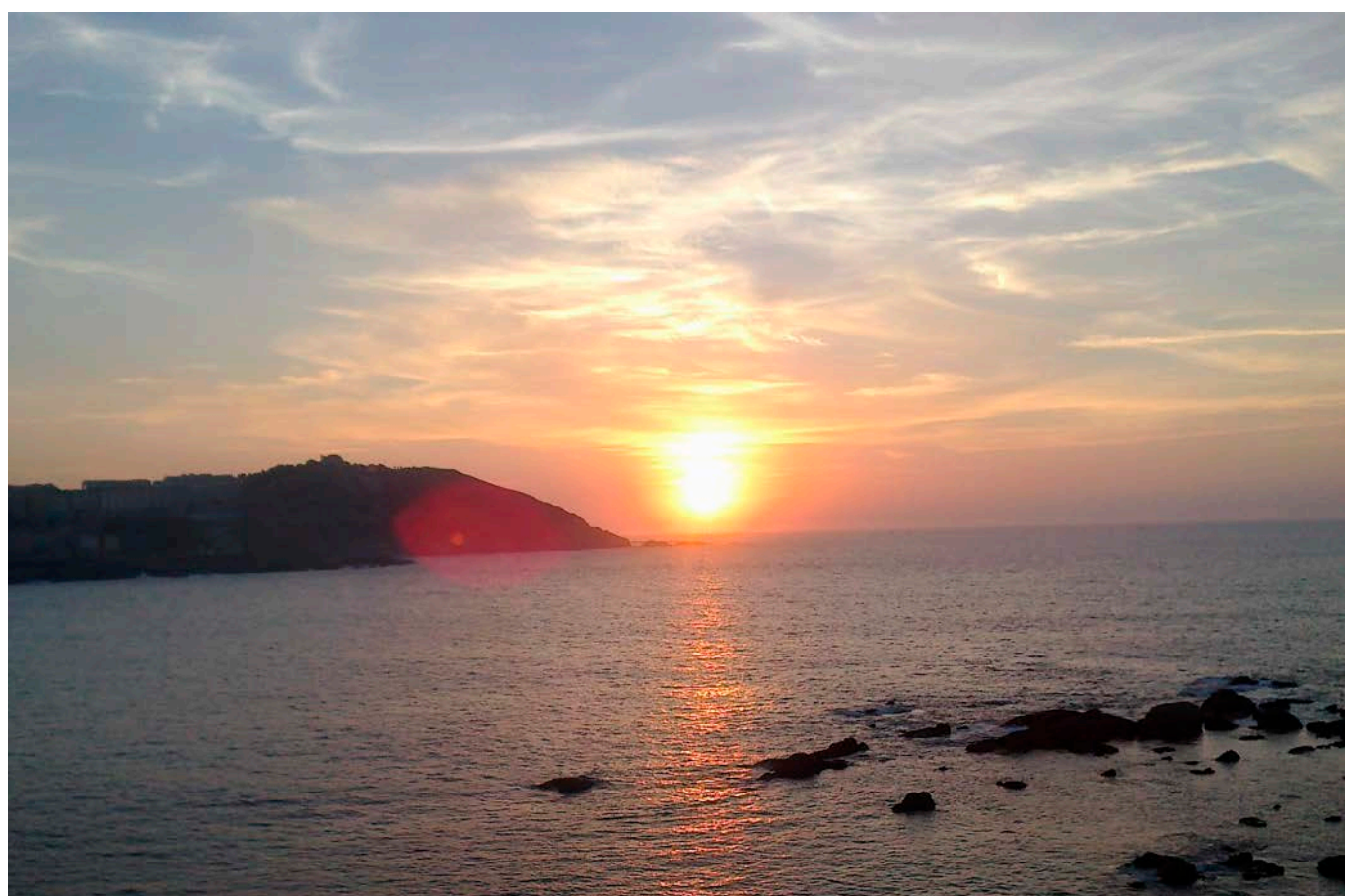


COMPANY NAME	STAND NO.
ALMARIN	52 & 53 (external space 3)
AUSTRALIAN MARITIME SYSTEMS Ltd	28 & 29
Beijing Catonglobal Technology	18
Carmanah - Sabik Oy	45, 46, 54 & 55
CHAOHU YINHUAN NAVIGATION AIDS Ltd	80
DENBRIDGE MARINE Ltd	25
Elman	73
exactEarth Ltd	36
Floatex	5 (external space 4)
GateHouse	21
Gisman	67 & 68
GRUPO MECÁNICA DEL VUELO SISTEMAS SAU	40
iDeal Teknoloji Bilisim Cozumleri A.S.	37
INDRA	19
Japan Radio	10 & 11
JFC Manufacturing Co Ltd	81
JOTRON AS	2
KELVIN HUGHES	66
Kongsberg Norcontrol IT AS	6 & 7
LA MAQUINISTA VALENCIANA	27 & 34
McMurdo Group	38
Mediterráneo Señales Maritimas S.L.L.	43, 44, 56 & 57 (external space 1)
MOBILIS	47, 48 & 4920
NAVIELEKTRO	20

COMPANY NAME	STAND NO.
OMC International	9
Pharos Marine Automatic Power	12 & 13
PINTSCH ABEN B.V.	14
Saab TransponderTech AB	82 & 83
Sabik Oy - Carmanah	45, 46, 54 & 55
SCHNOOR Industrieelektronik GmbH & Co. KG	62, 63, 64 & 65
SeaHow	1
Sealite Pty Ltd	60, 61, 69 & 70
SELEX ES	17
Shandong Buoy&Pipe Industry Co., Ltd	26 (external space 2)
Shanghai Rokem Industrial Co Ltd	3 & 4
Signalis	22, 23 & 24
SRT	8
TERMA A/S	31
TIDELAND SIGNAL	58, 59, 71 & 72
TOKYO KEIKI INC.	39
Transas Marine International	15 & 16
TRIMBLE	41
Vega Industries Ltd	32 & 33
Wealth Marine Pte Ltd	30
Woori Marine Co.,Ltd.	50 & 51
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INSTITUTIONAL	STAND NO.
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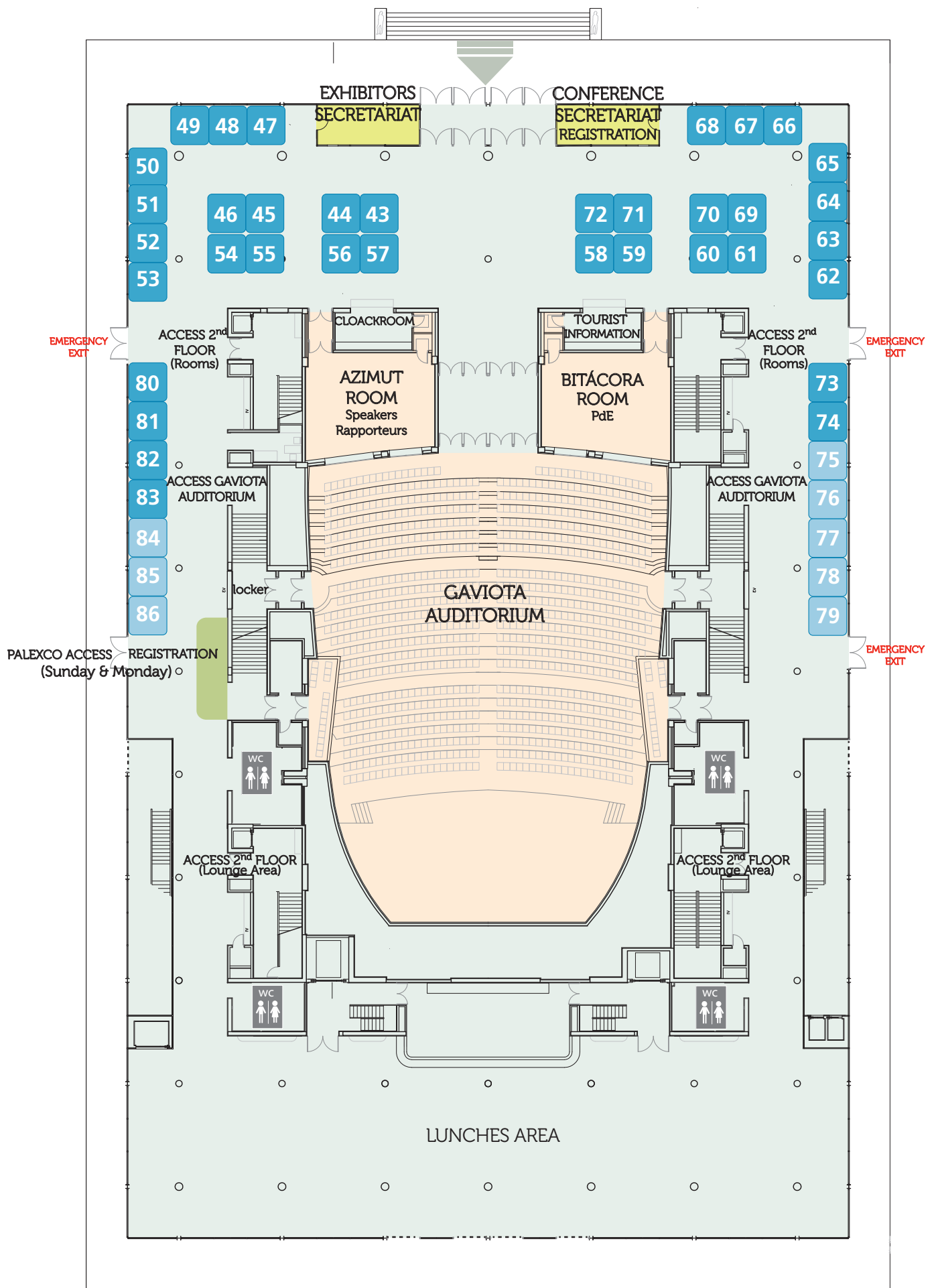




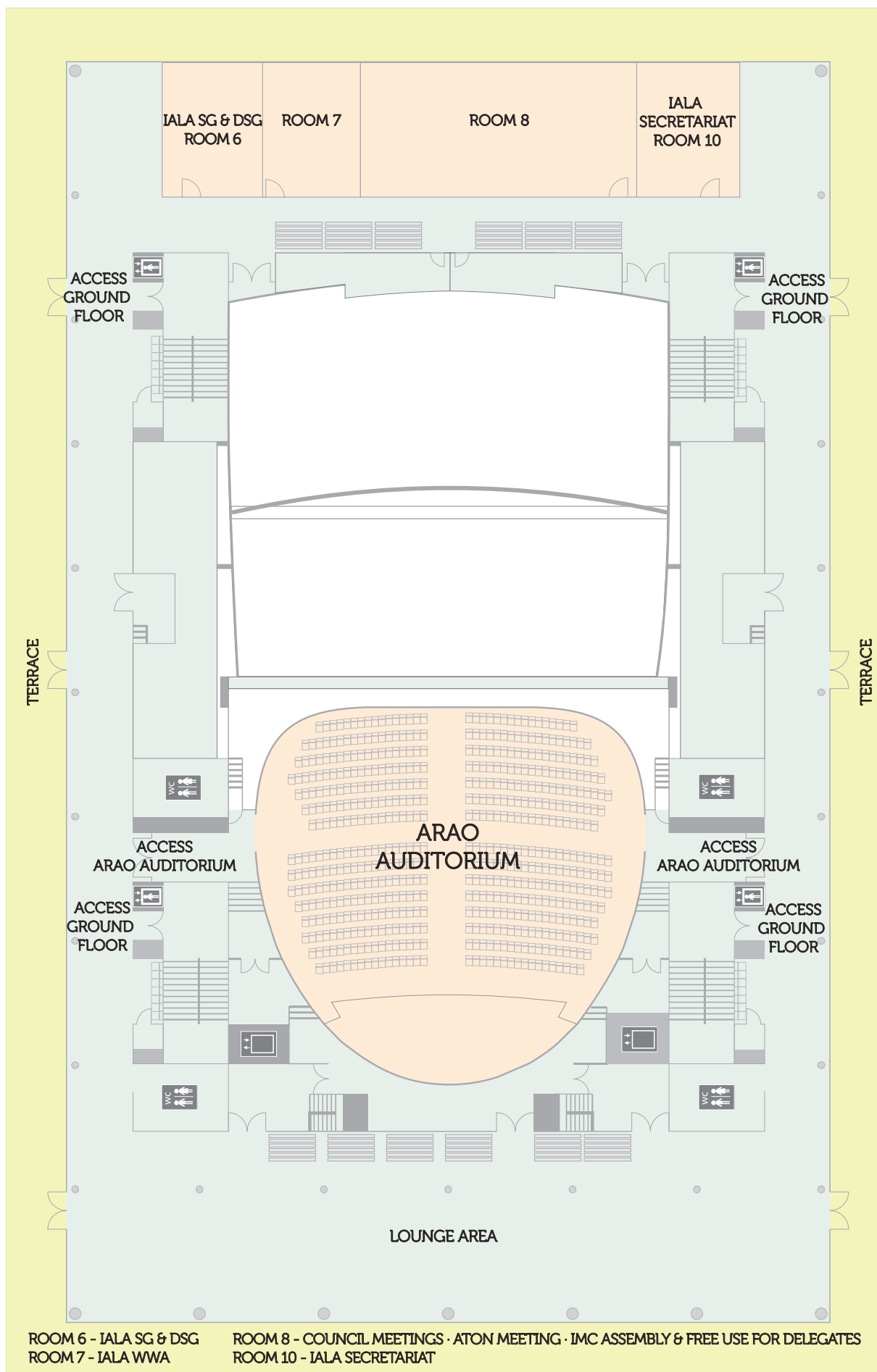
CONFERENCE FACILITIES

Paperless Conference
Simultaneous translation available
English, French, Spanish

GROUND FLOOR PLAN



SECOND FLOOR PLAN



COMPANION PROGRAMME





MAY TUESDAY

27

City tour of A Coruña

Departure at 09.30 from the hotels and return at 17:00 h. approximately

A Coruña is a city surrounded by the sea which almost gives the impression that it will break away from its isthmus to return to the island it once was thousands of years ago. Since Roman times it has made its living from maritime trade. Its large harbours – commercial, fishing and sporting – denote its maritime vocation.

Panoramic city tour: Av. de la Marina, with its famous glass-covered balconies; the seafront promenade; San Antón Castle, which houses a 16th century fortress which, in turn, houses the Museum of Archaeology and History showcasing the city's history from the Middle Ages; and the Tower of Hercules, the oldest working lighthouse in the world, with a history dating back over 900 years.

A walking tour of the Old Quarter takes us along its narrow streets and little paved squares so reminiscent of medieval times; past Baroque mansion houses such as the Cornide Palace and the house of Doña Emilia Pardo Bazán; to military installations such as the Captaincy General; to little taverns and tiny boutiques; to the remains of the old city wall with its three "Gateways of the Sea" where you can still see the medieval remains of the Convent of Santa Bárbara; to a wealth of religious architecture: pointed cross-vault arches in the church of Santiago, the oldest in the city; Romanesque in Santa María del Campo; Baroque in Santo Domingo and the church of the Third Venerable Order; and other delightful spots such as the Gardens of San Carlos.

Visit the Museum of Man. The building was designed by the Japanese architect Arata Isozaki and has over 200 interactive modules to learn and reflect on the characteristics of the human species.

Lunch in a city restaurant and return to the hotel.



MAY WEDNESDAY

28

Excursion to Santiago de Compostela


Departure at 09.00 from the hotels and return at 17:00 h. approximately

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All roads might lead to Rome, but a great many of them also lead to Compostela. Humanity has spent centuries discovering routes for the pilgrims who sought to cleanse their souls in Santiago: the Northern routes via the villages of Acebo, Fonsagrada and Ribadeo; the so-called French Way; the "Silver Way"; the entrance via Tui from Portugal; the "sea routes" from A Coruña or Arousa... pilgrims' ways imbued with faith and mystery which have made Santiago de Compostela three things: a European point of reference, one of the major religious capitals of the world, and a city that seems to have dedicated itself to raising buildings towards heaven.

We start with a panoramic tour of the city followed by a visit to the Cathedral, a Romanesque masterpiece, which was completed in 1211 by Master Mateo and his workshop, featuring the stunning Portico of Gloria, the cloister and the crypt housing the remains of St. James the Apostle. Walking around the outside of the Cathedral you can admire the Platerías and Azabachería façades, the Berenguela and Clock Towers and the Holy Door.

Lunch in a traditional city restaurant and return to A Coruña.



MAY THURSDAY

29

The Pazos de Galicia

Departure at 09.30 from the hotels and return at 17:00 h. approximately

Nobility and refinement combined with the simplicity of the rural world; this describes life in the pazos, the country manor houses of the Galician gentry which were mainly built between the 17th and 19th centuries. These elegant buildings have a story to tell, and many of them also have magnificent gardens which are well worth visiting.

The pazos of Galicia, patrician labyrinths of stonework and foliage which display their history in all its glory.

We start with a brief tour of the rías of As Mariñas, leaving A Coruña alongside the beaches of Santa Cristina, Bastiagueiro and beautiful spots such as Santa Cruz with its little port from which you can see the castle standing on a tiny islet; we then pass by the Pazo de Meirás before reaching the village of Betanzos, whose main attraction is the village itself, which was declared a Historic and Artistic Asset in 1970 for its monuments, walls, houses and old quarter. Betanzos was once one of the seven capitals of Galicia and, as such, is home to some important historic and artistic buildings.

We'll visit the Pazo de Mariñán, next to the mouth of the Betanzos ría on the left-hand side of the River Mandeo, very close to historic towns such as Betanzos and Puentedeume.

The main body of the pazo has Baroque architectural features and the gardens are in the French style of the period.

Return to A Coruña after lunch.



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MAY FRIDAY 30

The Salnés Peninsula: Cambados and Combarro

Departure at 09.00 from the hotels and return at 17:00 h. approximately

Departure from A Coruña by motorway to Cambados, declared a Historic and Artistic Asset, where the noble district of Fefiñanes exists in perfect harmony alongside the maritime flavour of the neighbourhood of San Tomé.

We start with a stroll to the Plaza of Fefiñanes with its pazo of the same name and slab-paved streets. We then embark on a catamaran for a sail along the Ría de Arousa and a close-up look at the bateas, floating structures used to grow mussels, oysters and scallops.

As Cambados is known as the capital of Albariño wine, we'll stop at one of its wineries, to discover for ourselves why this wine is known as the "prince of white wines".

Lunch at the winery.

Finally, we visit the charming seaside village of Combarro, famous for its collection of hórreos (raised granaries) and cruceiros (stone crosses), two of the most characteristic features of Galician architecture.

SOCIAL EVENTS



Welcome reception | Sunday 25th May

It will be held the 25th May at PALEXCO, the Conference venue, from 18:30 h. to 20:30 h.

**Dress code: Casual*

Conference Dinner | Monday 26th May

20.30 - Pazo de Santa Cruz de Mondoí 60, Oza dos Rios - 15319 A Coruña

Departure at 20.00 from the official Conference hotels (Hesperia Finisterre, NH Atlántico, Meliá María Pita, Hesperia Coruña, Hotel Riazor and Tryp Coruña).

The dinner starts at 20.30 in the Pazo de Santa Cruz de Mondoí, an exclusive 16th century estate lying 20 km from A Coruña. This unique and charming location features traditional architecture, beautiful formal gardens and an incomparable setting.

Return to the official Conference hotels after dinner.

**Dress code: Business attire*

IMC Evening | Wednesday 28th May

20.30 - Marina Coruña, Alcalde Francisco Vázquez Seafront Promenade - A Coruña

Departure at 20.00 from the official Conference hotels (Hesperia Finisterre, NH Atlántico, Meliá María Pita, Hesperia Coruña, Hotel Riazor and Tryp Coruña).

In accordance with tradition, this evening is organized by the IMC. On this occasion we have prepared an entertainment Spanish fiesta featuring the best of Spain's different regions.

The dinner starts at 20.30 and will take place at Marina Coruña, located in a special part of the city at the entrance to the bay of A Coruña.

Return to the official Conference hotels after dinner.

**Dress code: Casual*

Gala Dinner | Saturday 31st May

20.30 - Hesperia Finisterre Hotel, Paseo del Parrote 2-4 - A Coruña

Departure at 20.00 from the official Conference hotels (NH Atlántico, Meliá María Pita, Hesperia Coruña, Hotel Riazor and Tryp Coruña).

The Gala Dinner commemorates the 500th anniversary of the Trinity House. The dinner starts at 20.30 in the Hesperia Finisterre Hotel, located at the centre of A Coruña just a few metres from PALEXCO and next to the Marina.

Return to the official Conference hotels after dinner.

**Dress code: Black tie*

** Dress code:*

Casual: MEN and WOMEN: Smart casual

Business attire: MEN: Suit · WOMEN: Short dress or suit

Black tie: MEN: Black tie, dark lounge suit, full dress uniform or traditional dress (National costume)

WOMEN: Cocktail dress, long dress, full dress uniform, traditional dress

OTHER EVENTS

From 27 May to 30 August

EXHIBITION

Lighthouses: The light should never switch off

30 MAY
FRIDAY

Attendance by H.R.H. The Princess Royal,
Princess Anne, Master, The Corporation
of Trinity House
The 500th Anniversary of The Corporation
of Trinity House





Commemoration of the
500th

Anniversary of The Corporation of Trinity House

May 30th, Attendance by H.R.H. The Princess Royal, Princess Anne, Master, The Corporation of Trinity House



In May 2014, the English institution Trinity House marks the 500th anniversary of its foundation. It was created as a charitable organization for seafarers and over the years has become a world reference in the field of the marine aids to navigation, as the body responsible for the service in England, Wales and the Channel Islands.

The organizers of the IALA-2014 Conference are dedicating the Gala Dinner to the commemoration of this anniversary.

The most relevant highlight in the attendance by H.R.H. The Princess Royal, Princess Anne, Master, The Corporation of Trinity House, to the Conference, where a special session will be devoted to the institution on the morning of Friday 30 May.



From MAY 27 to 30 AUGUST

EXHIBITION

Lighthouses: The light should never switch off

Puertos del Estado is inaugurating an exhibition on the history of maritime signalling in Spain entitled "Lighthouses: the light should never switch off", which forms a link with the subtitle of the IALA Conference: From the Tower of Hercules to e-Navigation and beyond.

The exhibition will be open from the week of the Conference through to 30 August 2014 at the headquarters of the NovaCaixa Galicia Foundation (Cantón Grande, 21-23. A Coruña), very close to where the IALA Conference is taking place and will feature historic material on the lighthouses belonging to Puertos del Estado as well as other exhibits on loan from other organizations.

Entrance is free of charge.

VESSELS



Vessels operated by the Hydrographic Institute, Spanish Navy and the Spanish Maritime Safety Agency, SASEMAR

VISIT

Ship visiting will be available from Wednesday 28th to Thursday 30th May.

They will be berthed at Trasatlántico pier with access from the East side, between PALEXCO and the marina.

Opening hours:

"TOFIÑO"

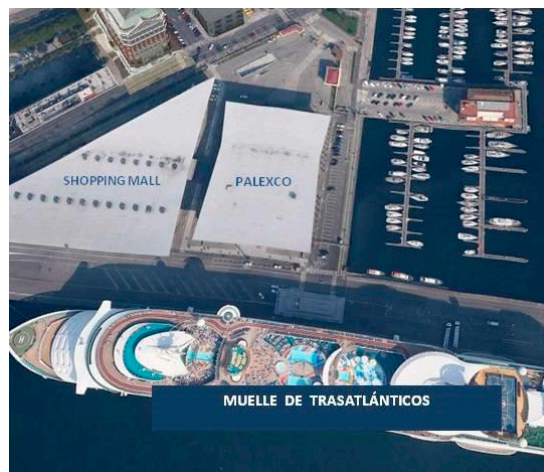
From 11:00 to 13:00 and from 17:00 to 19:00

In groups of 10 to 15 people

"DON INDA"

From 11:00 to 13:00 and from 16:00 to 19:00 In groups of 8 people

The visitors will be attended by the ship's officers in a guided tour of the ship, which will last 20 to 30 minutes.



HYDROGRAPHIC VESSEL "TOFIÑO" (A-32): HYDROGRAPHIC INSTITUTE, SPANISH NAVY



Main characteristics:

- Length o.a.: 57,6 m
- Beam: 11,7 m
- Draft: 5,2 m
- Speed: 15 knots
- Displacement: 1.150 Tons
- Endurance: 4000 miles
- Accommodation: 69 crew

"DON INDA": Multipurpose, Towing, Salvage, Diving & Oil Recovery Pollution Control Vessel SPANISH MARITIME SAFETY AGENCY, SASEMAR



Main characteristics:

- Length o.a.: 80,00 m
- Beam: 18,00 m
- Depth to main deck: 8,25 m
- Draft: 6,00 m
- Speed: 17,5 knots
- Displacement: 228 Tons
- Endurance: 9000 miles
- Accommodation: 18 crew + 6

GENERAL INFORMATION



Venue

The Conference will be held at PALEXCO, the Conference and Trade Fair Centre in A Coruña:

PALEXCO

Muelle de Trasatlánticos s/n - 15004 A Coruña, Spain

Tel: +34 981 22 88 88

Website: www.palexco.com

All the Conference sessions will be held in the rooms located within the ground floor and second floor in Palexco.

Exhibition

The Industrial Members Committee is proud to host an international exhibition featuring 86 exhibitor booths, covering some 774 square meters of exhibit space. The Exhibition is located in the main hall of PALEXCO. Please see the information on the Exhibition section for more information.

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Official Exhibition Opening

Monday 26th May	from 16:30 to 17:30
Tuesday 27th May	from 08:30 to 18:00
Wednesday 28th May	from 08:30 to 18:00
Thursday 29th May	from 08:30 to 18:00
Friday 30th May	from 08:30 to 16:00

Registration hours

Registration will take place in the ground floor of PALEXCO from Sunday 25th May to Saturday 31st May 2014. The registration desk will operate during the following times:

Sunday 25th May	from 11:00 to 18:00
Monday 26th May	from 09:00 to 17:00
Tuesday 27th May	from 08:30 to 18:00
Wednesday 28th May	from 08:30 to 17:30
Thursday 29th May	from 08:30 to 17:30
Friday 30th May	from 08:30 to 16:00
Saturday 31st May	from 08:30 to 10:00

The registration will be located in the ground floor in Palexco

Identification

IALA participants are requested to wear their Conference badge and lanyard at all times. This badge allows access to the sessions, exhibition and lunch areas.

The identification tags will be given together with the documentation. Invitations for social events will be included within the identification tags.

Wifi venue

Wifi network: IALA2014

Password: iala2014

Delegate bag

The IALA-2014 delegate bag has everything you require for a successful Conference

Speakers/Rapporteurs room

The Speakers/Rapporteurs room is located on the ground floor in Azimut room and will be open during the following times:

Monday 26th May	from 08:30 to 17:00
Tuesday 27th May	from 08:30 to 18:00
Wednesday 28th May	from 08:30 to 17:30
Thursday 29th May	from 08:30 to 17:30
Friday 30th May	from 08:30 to 17:30
Saturday 31st May	from 08:30 to 12:00

All speakers must report to the speakers room according to IALA standards distributed for this Conference and which can be requested from the IALA Secretariat. The organisers will not accept any responsibility for the speakers who do not report to the technicians and crew.

Please ensure that you are in the presentation room at least 10 minutes before the start of your session. [Please inform of your presence to the chair of the session.](#)

Coffees and lunches

Coffee break will be served from stations in the Exhibition areas as scheduled in the programme. There may be schedule changes some days.

Working buffet lunches will be served in the *Popa Area* of the ground floor of Palexco between 12:30 and 14:00. Identification tag for lunches is essential to ensure access to the restaurant.

Cloakroom service

A cloakroom service located on ground floor is available within the Conference schedule.

Punctuality

In order to facilitate the organisation and smooth progress of the sessions, punctuality is required.

Conference and Gala Dinners (26th and 31st May)

Invitation dinner for access is required.

Hotels (contact details)

The bus services for the Conference, when necessary, only operate from the official hotels.

Official hotels

Hotel	Address	Telephone number	Walking distance to PALEXCO
Hesperia Finisterre	Paseo del Parrote, 2-4	+34 981205400	5 minutes
NH Atlántico	Jardines Mendez Nunez, s/n	+34 981226500	1 minute
Meliá María Pita	Avda. Pedro Barrie de la Maza, 1	+34 981205000	15 minutes
Hesperia Coruña	Juan Florez, 16	+34 981010300	10 minutes
Tryp Coruña	Avda. Ramón y Cajal, 53	+34 981242711	15 minutes
Riazor	Avda. Ramón y Cajal, 53	+34 981253400	10 minutes

Unofficial Hotels

Hotel	Address	Telephone number	Walking distance to PALEXCO
Sercotel Blue Coruña	Juana de Vega, 7	+34 881888555	10 minutes
Attica21 Coruña	Enrique Mariñas, 34	+34 981179299	more than 30 minutes walking (public transport)
AC A Coruña	Enrique Mariñas, 34	+34 981175490	more than 30 minutes walking (public transport)
Eurostars Ciudad de la Coruña	Juan Sebastián Elcano 13	+34 981211100	more than 30 minutes walking (public transport)
Zenit Coruña	Comandante Fontanes, 19	+34 981218484	10 minutes walking
Carrís Marineda	Crtra Baños de Arteixo, 43 Marineda City Mall	+34 981632436	more than 30 minutes walking (public transport)

Time zone

Spain time Central European Standard Time is 2 hours ahead of Greenwich Mean Time (GMT+2) in summer time.

Climate

This area is frequently known as green Spain as a result of its temperate climate and elevated rain fall. The north of Spain has an average rain fall comparable with that found in the United Kingdom and France and four distinct seasons, although you must always carry an umbrella with you. The reason of this temperate climate is the hundreds of kilometers of coastline.

Currency

Euro. Foreign banknotes and traveler's check can be exchanged at foreign exchange banks and other authorized moneychangers.

Credit cards: Visa, Visa Electron, American Express and Master Card are widely accepted at major services in the larger cities. The best option is to choose a credit card provider who does not charge commission on overseas transactions and uses the current bank rate.

Business hours

At the shopping centers or shopping areas, the main stores don't close at lunch time, just the small traders.

Opening hours at the city center: Monday- Saturday: 10.00 - 20.00
Sunday: Closed

Emergencies and information

112 is the common emergency telephone number that can be dialed free of charge from any telephone or any mobile phone.

For any information about the city, you can call 010 for free.

PHONES OF GENERAL INTEREST



TELEPHONES OF INTEREST

EMERGENCY NUMBERS

AMBULANCE: 061

FIRE BRIGADE: 080 / +34 981 184 343

RED CROSS
+34 981 221 000 / +34 981 222 222

COAST GUARD: +34 981 209 541

TRAFFIC POLICE: 062 / +34 981 637 455

LOCAL POLICE: 092 / +34 981 241 100

NATIONAL POLICE: 091 / +34 981 166 300

CIVIL DEFENSE: +34 981 220 102

S.O.S GALICIA: 112 / 900 444 222

USEFUL TELEPHONE NUMBERS

CITIZENS ADVICE: 010 / +34 981 184 278

HOSPITALS

COMPLEJO HOSPITALARIO UNIV. A CORUÑA (CHUAC): +34 981 178 000
HOSPITAL ABENTE Y LAGO: +34 981 178 000

HOSPITAL DE OZA: +34 981 178 000

PRIVATE HOSPITALS

HOSPITAL USP SANTA TERESA: +34 981 219 800

INSTITUTO MÉDICO QUIRÚRGICO SAN RAFAEL: +34 981 179 000

GRUPO HOSPITALARIO MODELO: +34 981 147 300

MUSEUMS

TORRE DE HÉRCULES

Telephone: +34 981 223 730

<http://www.torredeherculesacoruna.com>

Opening times:

From 10.00 a.m. to 6.00 p.m. (doors close at 5.30 p.m.)

Science Museums

AQUARIUM FINISTERRAE: +34 981 189 842 Ext.: 21005
<http://www.casaciencias.org/aquarium/>

DOMUS: +34 981 189 840 Ext.: 20006
<http://www.casaciencias.org/domus/>

CASA DAS CIENCIAS: +34 981 189 844 Ext: 19100
<http://www.casaciencias.org>

MUNCYT: +34 900 100 134
<http://www.muncyt.es>

Other museums

ARCHAEOLOGICAL MUSEUM, SACRED ART MUSEUM, FINE ARTS MUSEUM, MILITARY MUSEUM, CLOCK MUSEUM, CONTEMPORARY ART and more

TOURIST INFORMATION OFFICES

TOURIST INFORMATION OFFICE - Plaza de M^a Pita
Address: Plaza de María Pita, 6. 15001 A Coruña
Phone: + 34 981 923 093
Web Page: www.turismocoruna.com
Opening Times:
Monday to Friday: 9 a.m to 8:30 p.m.
Saturdays: 10 a.m to 2 p.m and 4 p.m to 8 p.m.

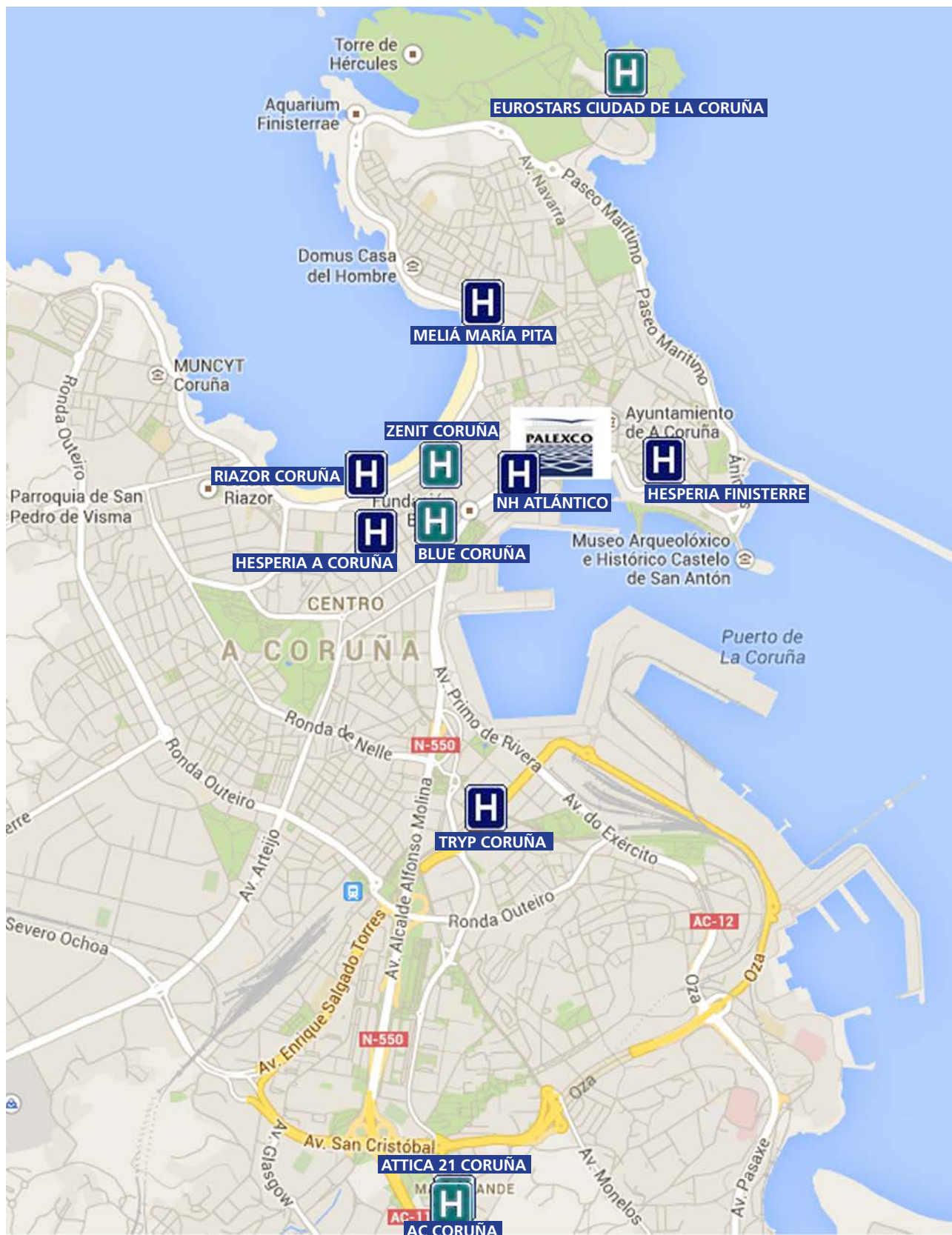
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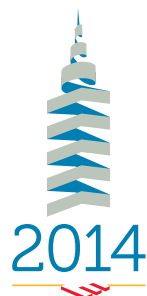
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