



**IALA**

# ANNUAL REPORT 2019

**"SUCCESSFUL VOYAGES, SUSTAINABLE PLANET"**





INTERNATIONAL ASSOCIATION OF MARINE AIDS TO  
NAVIGATION AND LIGHTHOUSE AUTHORITIES

# ANNUAL REPORT 2019

**"SUCCESSFUL VOYAGES, SUSTAINABLE PLANET"**





# TABLE OF CONTENTS

<b>A MESSAGE FROM THE PRESIDENT AND THE SECRETARY-GENERAL</b>	<b>P 6</b>
<b>UNDERSTANDING IALA</b>	<b>P 8</b>
<b>IALA'S CORE VALUES</b> <b>P 9</b>	<b>STRATEGIC VISION FOR 2018-2026</b> <b>P 10</b>
<b>MEMBERSHIP</b> <b>P 11</b>	<b>IALA NATIONAL MEMBERS IN 2019</b> <b>P 14</b>
<b>GOVERNANCE</b>	<b>P 15</b>
<b>THE COMMITTEES</b>	<b>P 16</b>
<b>INDUSTRIAL MEMBERS COMMITTEE (IMC)</b>	<b>P 17</b>
<b>FINANCIAL RESULTS</b>	<b>P 18</b>
<b>THE IALA YEAR</b> <b>P 20</b>	<b>MAIN RESULTS</b> <b>P 30</b>
<b>PRE-DIPLOMATIC CONFERENCE</b>	<b>P 31</b>
<b>WORLD-WIDE ACADEMY</b>	<b>P 32</b>

# A MESSAGE FROM THE PRESIDENT AND THE SECRETARY-GENERAL

In presenting the 2019 Annual Report, we take pride in highlighting the steady progress in the execution of the four-year work programme (2018-2022) of the IALA Committees and the continuing success of the World-Wide Academy (WWA) in expanding its global 'footprint'.

It is thanks to the numerous people voluntarily sharing information, knowledge and experience – often giving their own time, beyond the call of duty – that the Committees are able to produce and keep up to date our technical documentation. This extensive body of authoritative guidance fulfils a vital function in marine accident prevention, in terms of both efficient and safe vessel movements and protection of the environment. The WWA, on its part, plays an increasingly important role in raising awareness of IALA standards among coastal States developing their maritime economy, by providing education, training and capacity-building assistance proportionate to their needs.

On the technical front, IALA is driving important work, in close coordination with partner international organizations, with regard to the digital transformation of shore-ship connectivity. Priorities include the development of a common maritime data infrastructure and data modelling, and advanced trialling of enhanced communication technologies. In view of the growing demand for ever-greater volumes of data and their secure, reliable and efficient exchange, in real-time, there is an urgent need for common standards. Harmonization of digital information and communication services is a 'must' given the global nature of shipping. Furthermore, as users of Marine Aids to Navigation (AtoN) and Vessel Traffic Services (VTS) mariners need to feel assured that standards they are expected to meet for the

purpose of safety of navigation are internationally agreed and recognized.

We foresee that all concerned stakeholders will need to redouble efforts to ensure adequate training in digital literacy and related new work practices, both on board ships and in shore-based centres. Meanwhile, the 'package' of existing IALA Recommendations, Guidelines and Model Courses underpins the efforts of the WWA to bring developing countries in particular into the fold of generally accepted and recognized standards for the provision of AtoN and related services, such as VTS.

During the year under review, the Academy has continued to support a growing, worldwide network of Accredited Training Organisations (ATOs) to facilitate the provision of education and training in terms of quality and consistency of delivery. Several ATOs act as regional 'hubs of excellence' for neighbouring countries. The role they fulfil in helping coastal States to maintain sustainable cadres of adequately qualified AtoN and VTS personnel cannot be overemphasized.

The Academy is increasingly instrumental in enlightening high-level decision-makers about the obligations Governments have, under international law, for safety of navigation, commensurate to the volume of traffic and the degree of risk. It has continued to conduct technical needs assessment



missions to help with information and advice on how to overcome practical challenges. This role is likely to grow in importance once IALA becomes an Intergovernmental Organization (IGO), in which coastal States will be able to participate directly, alongside competent authorities and industry stakeholders. The higher the number of coastal States that will join IALA as an IGO, the greater the opportunities will be to improve upon and harmonize AtoN and VTS provision on a worldwide basis.

This report provides an update on progress in completing the IGO Action Plan. During the year under review, the Third Pre-Diplomatic Conference, held in Istanbul in March 2019, was successful in finalizing multilateral negotiations on most provisions of the draft Convention on the International Organization for Marine Aids to Navigation (with exception of those requiring a political decision at diplomatic level). It was thus decided to proceed to the convening of a Diplomatic Conference, in the early part of 2020, in order to agree on the adoption of the draft Convention, which, upon its entry into force following fulfilment of its ratification requirements, will govern IALA as an IGO.

Both IALA and the WWA already cooperate closely with other IGOs, in particular the International Maritime Organization (IMO) and the International Hydrographic Organization (IHO). In doing so, they support the United Nations 'Delivering as One' initiative and its 2015-2030 agenda on Sustainable Development Goals.

The upward trend in both the growth of the IALA membership (in all three categories) and its global spread has continued in the year under review. Three National members, five Associate members and 19 Industrial members joined the Association. The keen participation of our Industrial members is noteworthy and is critical to help ensure not only that the work of the Committees keeps pace with new technological developments, but also that

the agreed technical documentation has the full support of AtoN and VTS equipment suppliers.

We are confident that IALA is on track to fulfil its Strategic Vision for 2026 aimed at establishing unified standards in our maritime technical domain through international cooperation (Goal One), and ensuring that all coastal States contribute to an efficient and sustainable global network of harmonized AtoN by the end of 2026 (Goal Two).

We are indebted to all our members for maintaining their annual contributions in support of the Association's financial stability and robust outlook. We thank the Council for its strong support during the year under review and are pleased that it approved, at its 70th session held in December, the budget for 2020. We are also deeply grateful for the vital funding that the external donors have continued to provide to the WWA, and for the generosity of sponsors, small and large, who have provided direct or in-kind support. Our sincere thanks are also due to the Committees' chairs and vice-chairs, to all the Committee and working group participants, and, last but not least, to the devoted and seemingly never-tiring 'home team' running the Secretariat and the Academy.

We look forward to the annual World Marine Aids to Navigation (WAtON) Day inspiring the wider maritime community and civic society at large for many years to come. The celebration of the inaugural WAtON Day, on 1 July 2019, exceeded all expectations, with members around the world enthusiastically reporting on a variety of educational and other creative events to familiarise the general public and schools with IALA's work and the Council's chosen theme of "Marine Aids to Navigation - Successful Voyages, Sustainable Planet". The Spanish hosts of the splendid main event, held in Palma de Mallorca, set the bar very high for the future of this unique IALA event that was unanimously agreed upon by the 13<sup>th</sup> General Assembly in May 2018 (Resolution A13.04).



**YOUNGSHIN KIM**  
PRESIDENT

**FRANCIS ZACHARIAE**  
SECRETARY-GENERAL

# UNDERSTANDING IALA

Established in 1957, IALA is a not-for-profit, international technical association. It brings together Marine Aids to Navigation authorities, manufacturers, consultants, and scientific and training institutes from across the globe to exchange and compare experiences and knowledge for the improvement and harmonization of maritime navigation services worldwide.

The work of IALA in creating technical guidance documentation, and in training and capacity building, is focused towards achieving the goals of a Strategic Vision by 2026.

IALA encourages its members to work together in a common effort to harmonize AtoN worldwide and to ensure that the movements of vessels are safe, expeditious and cost effective while protecting the environment.

Taking into account the needs of mariners, developments in technology and the requirements and constraints of aids to navigation authorities, a number of technical committees have been established bringing together experts from around the world. Their work ensures that mariners have AtoN which will meet their needs both now and in the future. Thus IALA contributes to a reduction of marine accidents, increased safety of life and property at sea, as well as the protection of the marine environment.







# IALA'S CORE VALUES

## CREDIBLE

To be credible means being recognized, respected, trustworthy and reliable.

- We provide a world-wide and high-quality service.
- We drive the development of state-of-the-art technologies within Marine Aids to Navigation.
- We engage the world's leading experts to develop our products.

## DYNAMIC

To be dynamic means actively and continuously striving to improve.

- We respond quickly to the needs of the maritime community.
- We adopt flexible working arrangements to stay agile.
- We encourage and stimulate innovation through awareness of global maritime developments.

## RESULT-ORIENTED

To be result-oriented means to focus on outcomes rather than processes.

- We set clear objectives and goals with defined timelines.
- We create high-quality technical documents that are practical, usable and easily accessible.
- We produce outcomes that are non-political and non-commercial.

## CONNECTING

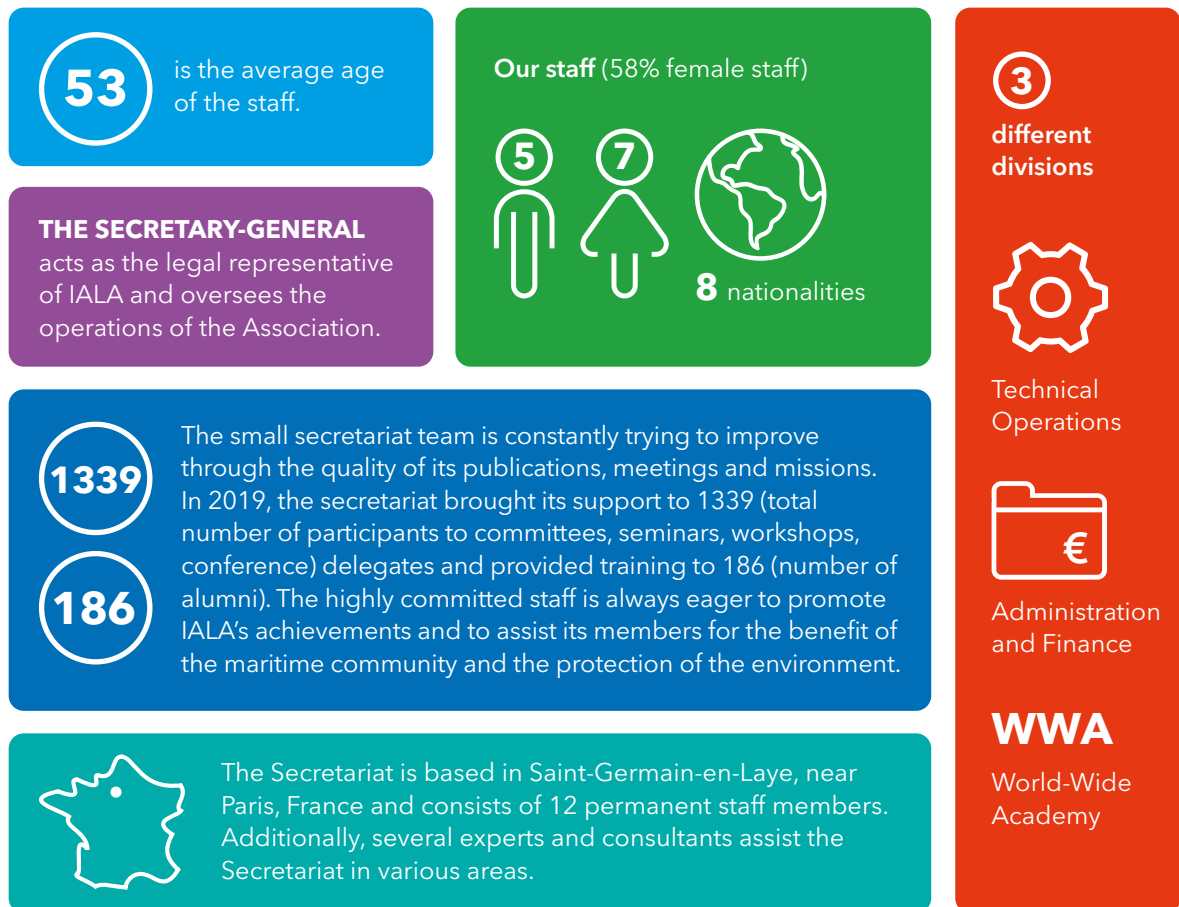
To be connecting means to reach out to individuals and organizations in order to share knowledge and experience and to provide support to achieve common goals.

- We welcome individuals and organizations from around the world.
- We bring together experts and facilitate exchange of knowledge and experience.
- We assist the maritime community in meeting its international obligations.

# STRATEGIC VISION FOR 2018-2026

The Strategic Vision for 2026 sets out two Goals and eight Strategies to facilitate their achievement by 2026. The two Goals are, respectively, that Marine Aids to Navigation are developed and harmonized through international cooperation and the provision of standards (Goal 1), and that all coastal States have contributed to a sustainable and efficient global network of Marine Aids to Navigation through capacity building and the sharing of expertise (Goal 2).

## SECRETARIAT





# MEMBERSHIP

## CATEGORIES

IALA comprises four membership categories:



### **NATIONAL MEMBERSHIP**

National Authorities legally responsible for the provision, maintenance or operation of Marine Aids to Navigation in their countries.



### **ASSOCIATE MEMBERSHIP**

services, organizations, scientific agencies concerned with Marine Aids to Navigation or related matters.



### **INDUSTRIAL MEMBERSHIP**

manufacturers, distributors and organizations providing Marine Aids to Navigation equipment for sale and Marine Aids to Navigation services or technical advice under contract.



### **HONORARY MEMBERSHIP**

conferred for life to individuals who are considered by the Council to have made an important contribution to the work of IALA.

## STATUS

In 2019, IALA was joined by 3 National members, 5 Associate members and 19 Industrial members, bringing the number of applications to 27 which is 2% more compared to 2018.

### The following organizations were accepted as National members:

- o Instituto Hydrográfico e Senalização Maritime in Angola;
- o Agence Portuaire Maritime et Fluviale in Madagascar;
- o Ghana Maritime Authority.

In 2019, IALA counted **87** National members.

### The following organisations joined as Associate members:

- o Dongnan University in China;
- o Vessel Traffic Services Finland Ltd;
- o Finnish Transport and Communication Agency;
- o National Institute of Telecommunication in Poland;
- o Institute of Computing Science in Singapore.

In 2019, IALA counted **67** Associate members.

### IALA has also welcomed the following Industrial members in 2019:

- o Alsic BVBA in Belgium;
- o CSIC PRIDe(Nanjing) Atmospheric & Oceanic Co Ltd and
- o Shanghai Nanhua Electronics Co., Ltd in the People's Republic of China;
- o Marine Works Co., Ltd in the Republic of Korea;
- o Keira Surya Kencana Pt, Pesona Global Teknologi Pt , PT Visi Teknologi Samudra in Indonesia;
- o Pishgam Sanat Tahmin Engineering Co in Iran;
- o ICS Technologies S.r.l in Italy;
- o Navalec S.A de C.V in Mexico;
- o ITO Nav aids in the Netherlands;
- o Navtor in Norway; Jarzoe Builders Inc. in the Philippines;
- o Orion Maritime Systems Ltd. in Singapore;
- o Havelsan A.S in Turkey;
- o Eco coast Manufacturing LLC in the United Arab Emirates;
- o Vissim Renewables Ltd. in United Kingdom.

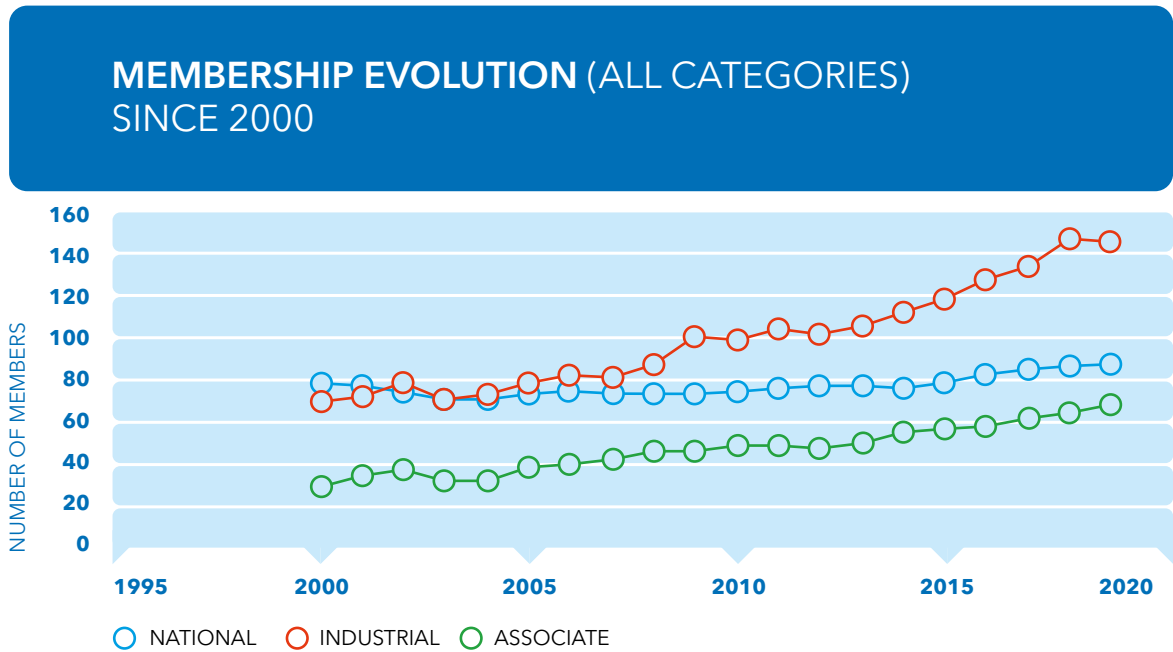
In 2019, Industrial members consist of **146**

The membership growth was nevertheless impacted by some resignations noted along the year and several terminations proceeded by the IALA Council in December for non-payment of contributions after the Secretariat had exhausted all efforts to collect their debts. On 31<sup>st</sup> December 2019; IALA counted 300 members in the above three categories and 42 Honorary members.



## EVOLUTION

The figure below shows the membership evolution in the last 10 years and the map gives an overview of the IALA National membership around the world in 2019.



# IALA NATIONAL MEMBERS IN 2019



- Countries in which IALA has National Members
- Countries in which IALA has no National Members



# GOVERNANCE

## GENERAL ASSEMBLY

The General Assembly brings together members from all the IALA membership categories every four years and usually convenes in conjunction with the four-yearly IALA Conference.

National members attending the General Assembly are entitled to:

- determine the broad policy direction of IALA;
- elect members to the Council;
- decide upon changes to the IALA Constitution; and
- decide on IALA Standards (from 2018 onwards).

Associate and Industrial members are entitled to attend the General Assembly and take part in the discussions, but they do not have the right to vote.

## COUNCIL

IALA is headed by a President elected by the Council. The Council comprises 21 elected and three non-elected members. It approves the strategic direction, the annual budget, and the rates for members' annual contributions. It also authorizes any major financial purchases or bank loans required for the running of IALA. The three non-elected members are a National member of the Host Nation (France), the National member which hosted the previous IALA Conference and the National member which will host the next Conference.

## FINANCE AND AUDIT COMMITTEE (FAC)

The Finance and Audit Committee (FAC) consists of five members who are elected from amongst the members of the IALA Council. The role of the FAC is to provide, twice a year to the Council, recommendations related to financial matters including the execution of the budget; investments; audit observations and the status of membership contributions.

## POLICY ADVISORY PANEL (PAP)

The Deputy Secretary-General chairs meetings of the Policy Advisory Panel (PAP), which advises the Council on strategy and policy matters related to the technical activities. The PAP convenes twice a year and its members include the four Committee Chairs and Vice Chairs, the Chair of the Legal Advisory Panel, the Dean of the World-Wide Academy and a member of the Industrial Members Committee.

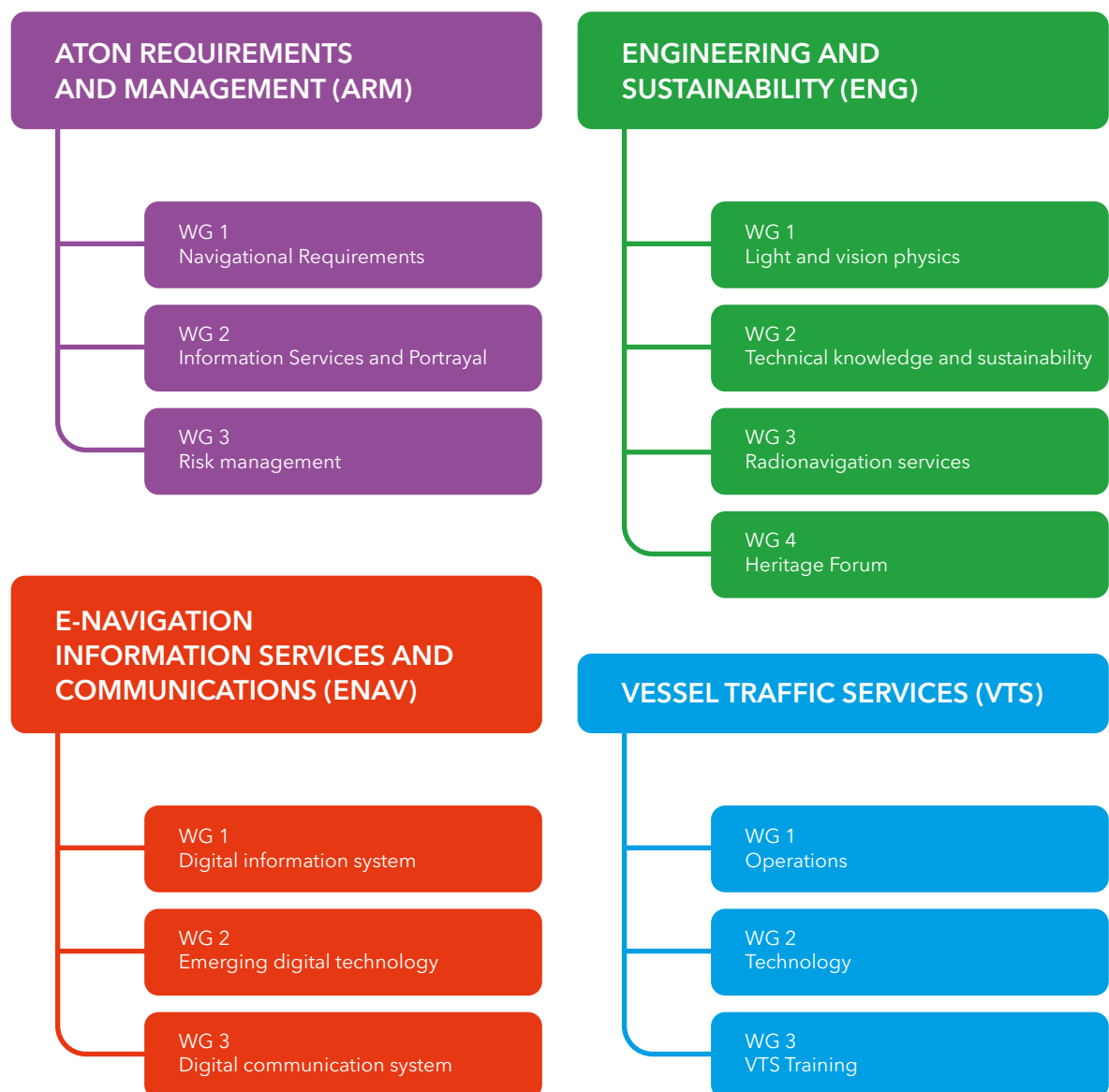
## LEGAL ADVISORY PANEL (LAP)

The Legal Advisory Panel (LAP) is an advisory body to the Council on legal aspects of all technical activities. The LAP also took intensive part in the work on the planned change of IALA status, mainly through extraordinary meetings. During the period under review the LAP was chaired by Ms Christina Schneider of Germany. The LAP meets normally twice a year.

# THE COMMITTEES

## COMMITTEE ARRANGEMENTS FOR THE WORK PERIOD 2018-2022

To face the few problems exhibited by the previous four-Committee arrangement the new structure implemented in the second half of 2018 provided for a re-distribution of work domains to the four Committees and a new name for the ENAV Committee, which nevertheless kept its acronym.



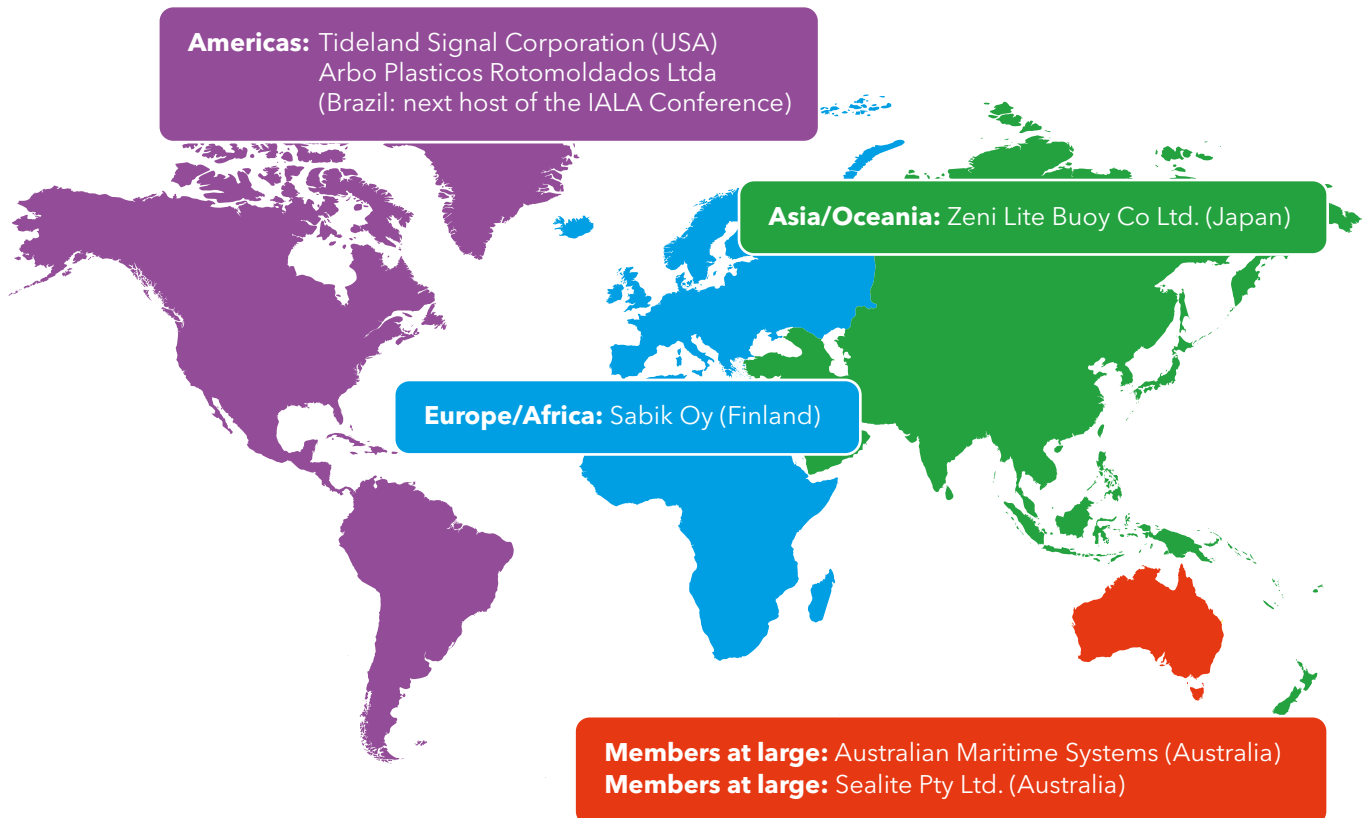




# INDUSTRIAL MEMBERS COMMITTEE (IMC)

The Industrial members form an integral part of the IALA family and the ARM, ENG, VTS and ENAV Committees is where they jointly provide valuable technical knowledge and first-hand experience to IALA. The Industrial Members Committee (IMC), which consists of six elected companies that are Industrial members of IALA, is the organ that takes care of the Industrial members' interests within IALA. The IMC is an observer at IALA Council and at meetings of the Policy Advisory Panel.

The IMC for the year 2019 comprises the following:



# FINANCIAL RESULTS

## FINANCIAL REVIEW

	2019	2018	%
<b>VOLUME DATA</b>			
<b>Number of members (units)</b>	<b>300</b>	<b>295</b>	<b>+2%</b>
National	87	85	+2%
Industrial	146	147	-1%
Associate	67	63	+6%
<b>ANNUAL RATES (€)</b>			
National	16,170	15,700	+3%
Industrial	6,350	6,350	+0%
Associate	3,070	3,070	+0%

## FINANCIAL POSITION

IALA closed its financial year with a net consolidated surplus of €180,146. The Organization continues to evolve, and several qualitative indicators confirm its good financial health:

- An increase in membership of 2% in 2019. The Organization is funded primarily by assessed contributions from its members and, notwithstanding some resignations and terminations, the balance for membership remains positive every year;
- The continued recruitment of personnel in order to support the growth of IALA's activities and support to members;
- The improvement of management efficiency by regularly reviewing the Secretariat procedures and Staff rules;
- A strengthened financial cash-reserve with a view to the future change of status; and
- An increase in the number of sponsorships received for the execution of the World-Wide Academy's activities.

The financial statements prepared by the Chartered Accountant KPMG have been audited by the Paris based company RSMs. The introduction of new French Financial Regulations (ANC n°2018-06) in the 2019 accounts resulted in a more transparent accounting process whereby membership contributions are recognized as income only when they are collected. The detailed financial statements presented in a consolidated form, together with the statutory auditor's report, are available on the IALA website.



## FINANCIAL DATA (IN €)

	2019	2018
<b>INCOME STATEMENT</b>		
Operating income	3,636,740	3,721,830
Operating expenses	3,228,106	3,879,302
<b>Operating result</b>	<b>408,634</b>	<b>(157,472)</b>
Interest and other financial income	17,822	17,378
Interest and other financial expenses	4,189	2,971
<b>Financial result</b>	<b>13,632</b>	<b>14,406</b>
Extraordinary income	31,589	331,391
Extraordinary expenses	11,917	4,517
<b>Extraordinary result</b>	<b>19,671</b>	<b>326,874</b>
<b>Income tax</b>	<b>1,064</b>	<b>1,250</b>
<b>Unused resources from prior years</b>	<b>437</b>	<b>8,785</b>
<b>Commitments on allocated resources</b>	<b>261,165</b>	<b>11,345</b>
Total income	3,686,590	4,079,385
Total expenses	3,506,443	3,899,386
<b>Net result for the period</b>	<b>180,146</b>	<b>179,998</b>

## BALANCE SHEET (AT DECEMBER 31)

	2019	2018
<b>ASSETS</b>		
Fixed assets	2,008,681	2,185,620
Current assets	4,382,397	3,953,288
<b>Total assets</b>	<b>6,391,078</b>	<b>6,138,908</b>
<b>LIABILITIES</b>		
Association funds and reserves	3,131,651	2,951,653
Retained earnings	-568,730	0
Result of the year	180,146	179,998
Subsidies of long-term investments	720,719	752,308
Contingencies and loss provisions	746,446	652,465
Dedicated funds	272,072	11,345
Debts and liabilities	1,908,771	1,591,137
<b>Total liabilities</b>	<b>6,391,078</b>	<b>6,138,908</b>

# THE IALA YEAR

## FEBRUARY

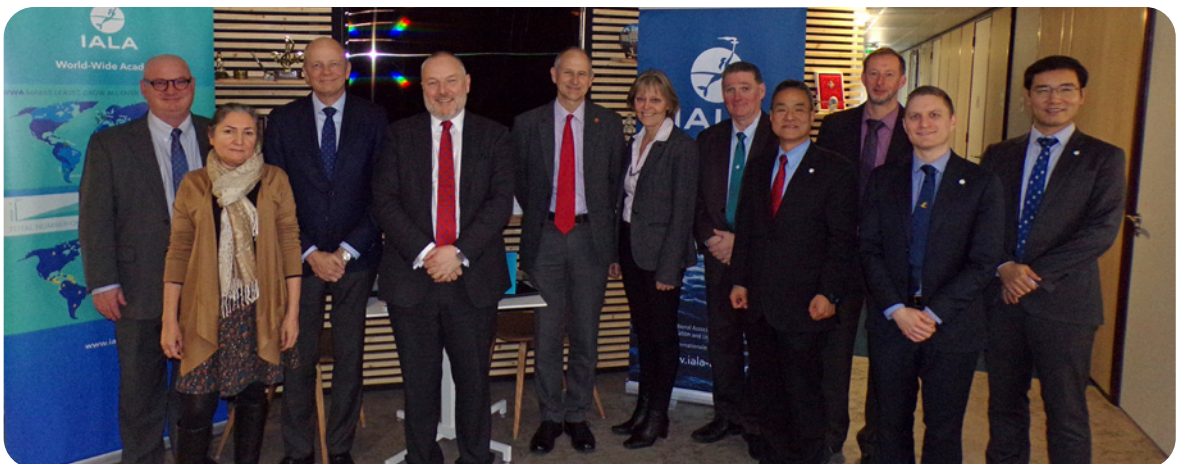
### ENUW INTERNATIONAL, DENMARK

The ninth e-Navigation Underway International conference was held from 6<sup>th</sup> to 8<sup>th</sup> February 2019 on board the DFDS ferry M/S Pearl Seaways, during which time she sailed from Copenhagen to Oslo and then returned to Copenhagen. The theme for the conference was Benefits and Barriers when Implementing New Technologies. The conference was attended by 95 participants.

### PAP37, HQ

The 37<sup>th</sup> session of PAP was held at IALA Headquarters from 12<sup>th</sup> to 13<sup>th</sup> February 2019. The meeting was updated on the latest decisions made at Council that have an impact on the work of the Committees. Progress made in the revision of IMO Resolution A.857(20) on Vessel Traffic Services was noted as nearing completion with a submission to IMO planned for early

2020. There was considerable discussions about the organisation of the work with regard to S-100 and S-200 Product Specifications, both in principle and in practice. Consideration was given to the way in which IALA can contribute to the UN Sustainable Development Goals (UN SDGs) which are relevant to its work. Consideration was given to the update and release of the IALA NAVGUIDE, VTS Manual and Questionnaires.





## WORKSHOP ON HARMONIZATION OF VTS VOICE COMMUNICATION, BUSAN, REPUBLIC OF KOREA

The workshop was held from 19 to 22 February 2019, attended by 33 participants from 13 countries. The topics covered included language and phraseology and training and competency assessment. Participants attended an informative technical tour of Busan port by boat and a visit to Yeongdo maritime cluster that included the VTS training organisation of Korea Institute of Maritime and Fisheries Technology. The workshop concluded that it is vital that VTS

phraseology and voice communication are standardised in order to deliver a harmonized service to mariners worldwide.



## VTS46, BUSAN, REPUBLIC OF KOREA

The 46<sup>th</sup> Session of the VTS Committee was held at the Westin Chosun Hotel in Busan, Republic of Korea between the 25 February and 1 March 2019. The meeting was hosted by the Korea Coast Guard who also arranged a technical tour and social programme. 101 Participants from 25 countries, 3 Sister organisations and 4 observers participated in VTS46. This was the second meeting for the 2018-2022 Work Programme and the VTS Committee considered 55 input papers and produced seven output papers of three Working Groups.

### MARCH

## THIRD PREPARATORY DIPLOMATIC CONFERENCE, ISTANBUL, TURKEY

At the kind invitation of the Minister of Transport and Infrastructure of the Republic of Turkey, a third preparatory diplomatic conference took place in Istanbul from 12 to 14 March 2019 to agree a draft of the Convention that will establish the International Organization for Marine Aids to Navigation. The attendance was higher than in Morocco with 182 delegates representing 53 countries from around the world and one international organization. The delegates studied the changes proposed by the members, which had been collated by the Secretariat, considered by the Legal Advisory Panel at its 4th Extraordinary session and introduced in the draft text. Most articles were agreed but a few articles remained to be decided at the Diplomatic Conference.

## ENG9, HQ

The 9<sup>th</sup> meeting of the ENG Committee (ENG9) was held from 18 to 22 March 2019 in IALA HQ. The session was attended by 76 participants from 22 countries, of which 48 were National members, 14 were Industrial members, 1 Honorary member, 13 were Associate members. There were no observers. 19 participants attended for the first time.



## APRIL

## ARM9, HQ

The 9<sup>th</sup> Session of the ARM Committee was held at IALA Headquarters from 1 to 5 April 2019. The session was attended by 59 participants from 20 countries, of which 40 were National Members, 5 were Industrial Members, 11 were Associate Members, 2 were representing Sister Organizations and 1 was an observer. 9 participants attended for the first time.



## ENAV23, SINGAPORE

The 23<sup>rd</sup> session of the ENAV Committee was held at the InterContinental Hotel, Singapore, between the 1 and 5 April 2019. 123 participants from 27 countries and 3 Sister organisations participated in ENAV23, 30 for the first time. There were 6 observers. This was the second meeting for the 2018-2022 Work Programme and the Committee considered 60 input papers and produced 22 output papers from three Working Groups.



## WORKSHOP ON THE INITIAL OPERATING CAPABILITY PHASE FOR E-NAVIGATION SERVICES, SINGAPORE

The inaugural workshop on the Initial Operating Capability Phase for e-Navigation Services was held in association with the Maritime and Port Authority of Singapore at the InterContinental Hotel, Singapore, between the 8 and 10 April 2019. 235 Participants from 31 countries participated in the Workshop. The workshop focused on Maritime Services (MS) 1 “VTS Information Services”, 8 “Vessel shore reporting” and Digital Communications Technologies in the time frame of 2020 to 2024 in order to commence the development of an initial operating capability phase for e-Navigation services.



### LAP19, HQ

The 19<sup>th</sup> session of the Legal Advisory Panel was held on 16 and 17 April 2019 at IALA Headquarters.

The meeting focused on the revision of the Basic Documents and finalized the fourth edition of

the document for approval by Council. LAP also studied in detail the draft revised IMO Resolution A.857(20) – Guidelines for Vessel Traffic Services and provided legal advice on the draft text for further consideration by the VTS Seminar and VTS Committee. Routine business included the review of the Risk Registers for IALA and the World-Wide Academy.

## COUNCIL69, ROTTERDAM, NETHERLANDS

The 69<sup>th</sup> session of the IALA Council was held on board the historic ocean liner SS Rotterdam in the Port of Rotterdam, The Netherlands, from 18<sup>th</sup> to 21<sup>st</sup> June 2019. All Councillors were either present or represented and the agenda covered the usual wide range of matters, making for an intensive week, which included a detailed report by the Secretary-General on the first day. The fourth edition of the Basic

Documents was approved. The Council decided to keep "Marine Aids to Navigation - Successful Voyages, Sustainable Planet" as the theme for the World Marine Aids to Navigation (WAtON) Day in the coming years. For technical matters, seven guidelines and one model course were approved. The Council approved one National member, eight Industrial members and three Associate members. IALA membership was discontinued for two Industrial members, and two associate members due to their resignation or the non-payment of their annual contributions.

## SEMINAR ON THE REVISION OF IMO RESOLUTION A.857(20) GUIDELINES FOR VESSEL TRAFFIC SERVICES, HQ

The seminar was held from 26 to 27 June 2019 at IALA Headquarters and attended by stakeholders with an interest in Vessel Traffic Services (VTS). The seminar was attended by 77 participants, representing 25 countries and 7 Sister organizations. The seminar was structured with presentations on relevant topics followed by open discussions covering the key issues to address in the revision.





JULY

## WORLD MARINE AIDS TO NAVIGATION DAY

The celebration of the first World Marine Aids to Navigation (WAtON) Day on 1<sup>st</sup> July of this year “exceeded all expectations.” This was the unequivocal conclusion of Secretary-General Francis Zachariae, who praised the collaboration and enthusiastic support from across the membership. Many parallel events took place around the world and hundreds of personal messages of support were posted via IALA LinkedIn. Addressing the main event held in Palma de Mallorca, Spain under the auspices of Puertos del Estado and with the



organizational support of the Balearic Port Authority, Mr Zachariae recalled that the celebration had been the bold initiative of our former President (2014-2018), Mr Juan Francisco Rebollo, Head of the Spanish Marine Aids to Navigation Service at Puertos del Estado. His proposal to the Council, in December 2017, to establish a designated day on an annual basis to make IALA’s technical achievement visible to the general public and focus attention on the importance of international cooperation had led the General Assembly, at its 13<sup>th</sup> session held in Incheon, Republic of Korea in May 2018, to give its unanimous consent through the adoption of the related Resolution A13.04.



## WORKSHOP ON RANGING MODE (R-MODE), HQ

The inaugural workshop on Ranging Mode was held between the 9 and 12 September 2019 at IALA Headquarters, Saint Germain-en-Laye, France. 47 participants from 19 countries participated in the workshop. The workshop participants considered the various presentations that were made and the subsequent discussions in the working groups and concluded that there is international recognition that the GNSS alone is insufficient for critical applications.



## PAP38, HQ

The 38<sup>th</sup> session of PAP was held at IALA Headquarters from 11 to 13 September 2019. The meeting was updated on the latest decisions made at Council that have an impact on the work of the Committees. The progress made in the revision of IMO Resolution A.857(20) on Vessel Traffic Services was noted as nearing completion with a submission to IMO planned for early 2020. The work on the IALA Position Paper on

Marine Aids to Navigation was completed and will be forwarded to Council. Consideration was given to the update and release of the IALA NAVGUIDE, VTS Manual and Questionnaires. Discussions around the WWA looking further into VTS training and accreditation system. A VTS strategy was to be discussed at the Academy board. The Chair of the ENAV committee introduced a new working group concerning the identification and assessment of technologies through a process of initial review.



## VTS47, HQ

The 47<sup>th</sup> meeting of the VTS Committee was held from 23 to 27 September 2019 at IALA Headquarters. 94 Participants from 26 countries and 3 Sister organisations participated in this session. 19 participants attended for the first time. This was the third meeting for the 2018-2022 Work Programme and the VTS Committee considered 55 input papers and produced 24 output papers of three Working Groups.



## OCTOBER

## ENG10, HQ

The 10<sup>th</sup> meeting of the ENG Committee (ENG10) was held from 30 September to 4 October 2019 in IALA Headquarters. The session was attended by 82 participants from 28 countries. 11 participants attended for the first time and there was 1 observer. Working in four working groups, the Committee considered 66 input papers and produced 25 output documents.



## ENAV24, HQ

The 24<sup>th</sup> meeting of the ENAV Committee was held between the 7 and 11 October 2019 at IALA Headquarters. 91 Participants from 26 countries and 4 Sister organisations participated in this meeting. 15 were in attendance for the first time. There were 2 observers. This was the third meeting for the 2018-2022 Work Programme and the Committee considered 61 input papers and produced 21 output papers from three Working Groups.



## ARM10, HQ

The 10<sup>th</sup> Session of the ARM Committee was held at IALA Headquarters from 14 to 18 October 2019. The session was attended by 79 participants from 22 countries and 2 Sister organizations. 10 participants attended for the first time and there were 5 observers. The Committee continued the work for the 2018-2022 work period. Working in three working groups, the Committee considered 52 input papers including presentations and produced 52 output and working documents. The Committee completed the development of the S-201 Aids to Navigation Information Product Specification representing the culmination of a seven-year work.





## LAP20, HQ

The 20<sup>th</sup> session of the Legal Advisory Panel was held on 29 October 2019 at IALA Headquarters. LAP noted the reports from council 69, PAP38 and the latest Committee session. Regarding an enquiry from ESSP on SBAS/EGNOS, LAP confirmed that SBAS can be considered as Marine Aids to Navigation defined in the IALA constitution. The revision of the Basic Documents was postponed to the next meeting as the participants wished to have more time to consider the changes. LAP reviewed the Risk Registers for IALA and the World-Wide Academy.

## DECEMBER

## COUNCIL70, NOUMEA, NEW CALEDONIA

The 70<sup>th</sup> session of the Council meeting was held in Noumea, New Caledonia from 10 to 13 December 2019. The Secretary-General gave a report on IALA's activities which included the Workshop on R-Mode held in September, and the Committee session that followed. The preparation for the Diplomatic Conference in Kuala Lumpur, Malaysia in February 2020 and the Symposium in Rotterdam, Netherlands in May were reported to be on track. A paper on Strategy was developed by the Council Strategy Drafting Group and it will be further developed in a paper entitled "Drivers and Trends 2020". With regards to finance the budget for 2020 was approved and the outline budget for 2021-2023, as well as the cash flow situation as of end of October 2019, were noted. For technical matters, five recommendations, six guidelines and one model course were approved. The Council approved nine Industrial members and two Associate members. IALA membership was discontinued for fifteen Industrial members, and two Associate members because of their resignation or the non-payment of their annual contributions.



# MAIN RESULTS

A number of Technical guidance documents were published in 2019.

## RECOMMENDATIONS

- R0119 on VTS Implementation, Ed 3.0, Dec 2019
- R0111 on Port Traffic Signals, Ed 1.2, Dec 2019
- R1018 on Design and Operation in the Provision of Marine Aids to Navigation, Ed 1.0, Dec 2019
- R1019 on Provision of Maritime Services in the context of e-Navigation in the domain of IALA , Ed 1.0, Dec 2019
- R1004 on sustainability in the provision of marine AtoN, Ed 2.0, Dec 2019

## GUIDELINES

- G1133 on Requirement Traceability, Ed 1.0, June 2019
- G1139 on the Technical Specification of VDES, Ed.3.0, June 2019
- G1143 on Unique Identifiers for Maritime Resources, Ed 1.0, June 2019
- G1145 on Application of Retroreflecting Material on AtoN, Ed 1.0, Dec 2019
- G1091 on Bird deterrents and bird fouling solution Ed 2.0, June 2019
- G1144 on Promulgating the Requirements of a VTS to Mariners, Ed 1.0, June 2019
- G1046 on Response Plan for Marking New Wrecks, Ed 2.0, June 2019
- G1149 on VTS Training for Deck Officers, Ed 1.0, Dec 2019
- G1150 on Establishment of VTS, Ed 1.0, Dec 2019
- G1148 on Determination of required luminous intensity for marine signal lights, Ed 1.0, Dec 2019
- G1151 on Maintenance of AtoN Structures, Ed 1.0, Dec 2019
- G1152 on SBAS Maritime Service, Ed 1.0, Dec 2019
- G1153 on template for the review of emerging technologies for possible use by IALA members, Ed 1.0, Dec 2019

## MODEL COURSES

- Model course Level 1.1 Marine Aid to Navigation Management Course, Ed 3.0
- Model Course Level 1.3 on Risk Management, Ed1.0



# PRE-DIPLOMATIC CONFERENCE

At its XII<sup>th</sup> session held in A Coruña, Spain in May 2014, the IALA General Assembly adopted a resolution stating its firm belief that Intergovernmental Organization (IGO) status will best facilitate IALA's aims in the 21<sup>st</sup> century and determining that the new status should be achieved, as soon as possible, through the development of an international treaty instrument (GA Resolution A.01 of 27 May 2014).

The development of a treaty instrument took six years of international negotiation through three Preparatory Diplomatic Conferences and a Diplomatic Conference, with 200 or more participants each.

The draft Convention that was discussed during the Diplomatic Conference in Kuala Lumpur, Malaysia in February 2020, was prepared at the Preparatory Diplomatic Conference in Istanbul, Turkey, in March 2019. The text discussed in Istanbul was finalized by the Legal Advisory Panel at an extraordinary meeting open to all National members in November 2018. The meeting used comments received from National members after the second Preparatory Diplomatic Conference held in Marrakech, Morocco, in February 2018. The first Preparatory Diplomatic Conference, where the initial discussions with Governments started, was hosted by the French Government in Paris in April 2017.

The development of a set of General Regulations, including Financial Regulations, is well advanced and the final draft is envisaged well before the first General Assembly of the new IGO. Meanwhile, the draft Headquarters Agreement needs to be finalized in cooperation with the Ministry of Foreign Affairs of the French Republic.

The Convention on the International Organization for Marine Aids to Navigation, that was adopted by 50 States the 28<sup>th</sup> February 2020 in Kuala Lumpur, meets the requirements of the Vienna Convention for International Treaties and supersedes, upon fulfilment of agreed entry-into-force requirements (30 instruments of ratification, acceptance, approval or accession), the present IALA Constitution. It will be open for signature by all Member States of the United Nations in November 2020 hosted by the French Government.

# WORLD-WIDE ACADEMY

2019 at a glance:



## STRATEGY - GETTING ALL COASTAL STATES ONBOARD

The IALA World-Wide Academy focuses on facilitating the effective implementation of IALA Standards, Recommendations, Guidelines and Model Courses by coastal States through education, training and capacity building thereby underpinning the second strategic goal of IALA.

The Academy aims to ensure that all coastal States can fulfil the obligations related to Marine Aids to Navigation placed upon them in SOLAS Chapter V and that all coastal States can claim conformance with the relevant IALA Standards.

In order to achieve these goals, the Academy undertakes a wide range of activities based on three simple principles:

- 1 ENLIGHTEN** raise the awareness of high-level decision makers of their international obligations relating to safety of navigation;
- 2 EDUCATE** provide a suite of relevant education and training opportunities for as many as possible; and
- 3 ENGAGE** pursue long-term capacity building activities with coastal States and provide advice on how to overcome challenges.

In support of the United Nations Delivering as One approach, the Academy cooperates with and coordinates its activities with other international organizations, underpinning the United Nations Sustainable Development Goals.





## ENLIGHTENING – RAISING THE AWARENESS OF HIGH-LEVEL DECISION MAKERS

During 2019, the Academy was invited to participate in a number of IMO events. The Regional Senior Maritime Administrators Workshop was held in Jamaica in February. The Academy delivered presentations on Safety of Navigation. During the High-Level Symposium Meeting of Ministers that was organised at the same venue, the Academy was able to brief the Ministers of the Caribbean States with respect to the benefits of compliance with IALA Standards.

The Academy attended the IMO World Maritime Day parallel event that took place at Cartagena Colombia in September 2019. The Academy

also participated as a speaker in a panel of the IMO Network of Women of Maritime Authorities of Latin America.

The Academy was part of the IMO expert team during the High-Level Conference on Sustainable Maritime Development in Jeddah, the Kingdom of Saudi Arabia in November. During this event, the Academy established good relations with representatives from the Kingdom of Saudi Arabia and agreed in principle on organising a regional training course on the use of the IALA Risk Management Tools.

Back to back with the IALA Preparatory Diplomatic Conference in Istanbul, the Academy organized a Seminar on the Effective Implementation of the IALA Standards. Furthermore, the Academy organized an



Awareness seminar on Safety of Navigation at IALA Headquarters and in Morocco in conjunction with the IHO in both the English and French languages.

The Academy contributed to an IHO Awareness Seminar back to back with the Meso American-Caribbean Sea Hydrographic Commission Meeting that took place in Dominican Republic. The Academy was also represented at the Mediterranean and Black Sea Hydrographic Commission in Spain, the North Indian Ocean Hydrographic Commission in Oman and the Southern African and Islands Hydrographic Commission in South-Africa.

The Academy participated to the Asia-Pacific Heads of Maritime Safety Agencies Meeting

in Korea. Furthermore, in Asia, a joint Maritime and Port Authority of Singapore and IALA workshop on the Initial Operating Capability Phase for e-Navigation Services was held during the Singapore Maritime Week which included the attendance of 12 sponsored participants. Additionally, the Ministry of Oceans and Fisheries, Republic of Korea, Korea Institute of Aids to Navigation and IALA hosted a general Safety of Navigation Capacity Building Seminar at IALA.

During all these events the Academy initiated meetings with Marine Aids to Navigation Competent Authorities of coastal States seeking how to support and improve their aids to navigation service delivery and to identify suitable candidates for training.





## EDUCATING – PROVIDING EDUCATION AND TRAINING OPPORTUNITY TO MANY

During 2019 the IALA World-Wide Academy supported a global network of Accredited Training Organisations (ATOs) to facilitate the delivery of high-quality Marine Aids to Navigation Management training. In total, 186 participants from 62 countries successfully completed one of the Academy supported Level 1 Marine Aids to Navigation Manager family of courses in 2019.

The successful Level 1.1 Marine Aids to Navigation Manager course was delivered in eight ATOs, by means of both direct delivery and distance learning, resulting in 110 participants from 46 countries achieving the international qualification. The global network of ATOs continued to grow with Canada, Morocco, the Pacific Community and the United Kingdom attaining approval to deliver the course. Additionally, the established ATOs in China, France, India, South Africa and Suriname successfully delivered well attended courses.

The Level 1.1 course is also available by means of distance learning. During 2019, further development took place on the Academy’s online Learning Management System. Additionally,



significant progress was achieved in the development of dedicated textbooks to support the Level 1.1 programme through the provision of amplifying information and resources.

The China Maritime Safety Administration hosted the second Level 1.2 Master of Marine Aids to Navigation Management course where a group of 23 participants successfully gained the qualification.

The use of IALA Risk Management Tools continues to grow following the active promotion of their demonstrable use in submissions to the IMO, as well as in a range of other projects of navigational significance. 53 participants from 21 countries achieved a qualification in the use of the IALA Risk Management Tools with two Level 1.3 courses being held at IALA Headquarters and in Colombia. The course in Colombia was successfully delivered in both the English and Spanish languages by means of simultaneous interpretation.

The Republic of Liberia hosted a training workshop in the use of the IALA Simplified IALA Risk Assessment Method (SIRA). This training was attended by representatives of a wide range of stakeholders and followed a practical approach using the coast of Liberia as a practical example to equip the Liberia Maritime Authority to implement SIRA around their coastline.

Participants in the Level 1 family of courses were drawn from both Marine Aids to Navigation authorities alongside an increasing number from industry. The Academy was able to sponsor a number of participants from coastal States in need of assistance. Of note, this included the successful training of two participants from Somalia, increasing the number of internationally qualified Level 1.1 Marine Aids to Navigation Managers in the country to three. The Level 1.1 qualification is also of value to countries with well-established Marine Aids to Navigation Management and in 2019 11 participants from the Canadian Coast Guard and two from the United States Coast Guard achieved the qualification by means of distance learning.

Through its VTS plan, the Academy seeks to develop positive relationships with ATOs delivering the VTS model courses to facilitate the provision of harmonised education and training in terms of quality and consistency of delivery.

The Academy continued its proactive relationship with the ASEAN Regional Training Centre for VTS in Kuala Lumpur, Malaysia. The Academy supported the delivery of a V-103/1 VTS Operator course and also the first delivery of the bespoke VTS Planning Manager training programme which is focussed on VTS implementation and the use of the IWRAP MkII IALA Risk Management Tool. Both programmes are designed to enhance VTS training capacity in the region and to assist in the development of ATOs in ASEAN regional countries.

The Maritime Authority of Suriname hosted the first IALA Lecturer Development Programme to equip their national lecturing team with the knowledge and skill necessary to successfully implement and deliver the Level 1.1 Marine Aids to Navigation Manager course by in-country technical experts.



## ENGAGING - PURSUING LONG-TERM CAPACITY BUILDING

Capacity building is the development and strengthening of human and institutional resources. Competent Authorities in developing countries are obliged to deliver Marine Aids to Navigation services, but some lack the capacity to do so. The Academy actively facilitates capacity building through awareness events, missions and reviews supporting both IALA members and non-members, aiming to establish a long-standing commitment. These activities are tailored to the specific needs of a country or region and the Academy seeks partnership with other organisations to achieve its goals.

At the IMO Technical Cooperation Committee meeting in London, the Academy had the opportunity to work with many of its target

countries. During the IMO General Assembly, the Academy organised, together with experts from IMO, a meeting with the Minister of Transport of Somalia in order to align a future mission. The Joint Capacity Building Coordination Group meeting, as part of the UN's "Delivering as One" initiative and the 2030 Sustainable Development Agenda, took place at IMO Headquarters. This was an important meeting for the Academy to align its capacity building strategy and activities with sister organisations.

Technical Needs Assessment Missions to Gambia and Ghana took place in order to assess the adequateness and effectiveness of the system for delivering Aids to Navigation. These missions generate a technical report indicating the level of compliance with IALA Standards. After conducting reviews to Namibia and Liberia both countries have been removed from the Academy list of States in Need.



This work is copyright. Reproduction for the purposes of commercial use or sale requires the written permission of the International Association of Marine Aids to Navigation and Lighthouse Authorities, 10 rue des Gaudines, 78100 Saint Germain en-Laye, France.





**IALA**

10, rue des Gaudines - 78100 Saint Germain en Laye, France  
Tél. +33 (0)1 34 51 70 01- Fax +33 (0)1 34 51 82 05 - [contact@iala-aism.org](mailto:contact@iala-aism.org)

**[www.iala-aism.org](http://www.iala-aism.org)**

International Association of Marine Aids to Navigation and Lighthouse Authorities  
Association Internationale de Signalisation Maritime