![IALA AISM logo]

International Association of Marine Aids to Navigation and Lighthouse Authorities

ANNUAL REPORT 2013

IALA
AISM

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2013

"Successful voyages, sustainable planet."

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About IALA

Established in 1957, IALA is a non 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 achievements and to improve and harmonise aids to navigation services worldwide.

Our Purpose.....

"To foster the safe and efficient movement of vessels through the improvement and harmonisation of marine aids to navigation worldwide, and by other appropriate means."

Our Team....

"A 12 person permanent Secretariat along with assistance provided by many national authorities and international organisations."

Our Goals to 2026.....

◆ Ensure that aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services and emerging technologies are harmonized through international cooperation and the provision of standards.

◆ All coastal states have contributed to an efficient global network of aids to navigation and services for the safety of navigation, through capacity building and the sharing of expertise.

A Message from the IALA President

It is a privilege to introduce IALA's Annual Report for 2013.

This report provides an opportunity for all of us to reflect on the significance that IALA has played, not only in carrying out its mandate of bringing together services and organisations involved in the development, provision and maintenance of aids to navigation, but also by promoting increased awareness and co-operation globally.

We are committed to remaining at the forefront of developments and transformation in the industry and will continue to create the enabling environment necessary to promote continued co-operation between our stakeholders. We are proud of the competence and excellence that exists within our sector as well as the wealth of knowledge and immense support from all who share a passion for the industry.

IALA as an organisation has undergone some restructuring with the aim of becoming an even more efficient and streamlined organisation, with an increased focus on internal governance, transparency and service delivery.

This reflection would not be complete without acknowledging the valued contribution of individuals, committees and working groups, as well as the many volunteers from our member organisations and maritime associates.

Thanks must also go to the Secretary General, the IALA Council and the Secretariat for their tireless work to ensure the sound and efficient administration of the organisation that is IALA.

With this dedication and support, IALA can only continue to grow from strength to strength.

David Gordon
PRESIDENT

Secretary General's Report

2013 was a year of growth and development for IALA – a year which saw the IALA Council reconsider IALA's legal status and formally commence a process that could result in IALA changing from that of a non-governmental organisation (NGO) to an inter-governmental organisation (IGO), if ultimately endorsed by the General Assembly and member Government actions.

IALA's sphere of influence and standing in the maritime community is growing. We have more members than ever before, we host more meetings, seminars and workshops than we have in the past and we have accepted responsibility for delivering training and capacity building to national authorities through the establishment of the IALA World Wide Academy. We are seen as the peak body for developments in the vital areas of e-navigation and vessel traffic services and we achieve results both together with, and independently from, our partner IGO's.

IALA will be best placed to carry out this expanding role if it has a strong international legal framework that ensures transparency and good governance and one that positions IALA to work in close cooperation with governments, and as equals with other international organisations. I am grateful for the support formally expressed by the Secretary's General of the International Maritime Organization (IMO) and the International Hydrographic Organization (IHO) regarding IALA's move toward change of status to an IGO.

With an expanding role for IALA, it is vital that our planning processes are able to identify our objectives and priorities and the methods by which we intend to achieve our goals. The IALA Executive has dedicated considerable time during the year to developing a clear strategy for IALA's future. Details of IALA's strategic plans can be found in this report at ▷ Appendix 2 and 3.

I am particularly pleased with the continued growth and international acceptance of the IALA World Wide Academy. The Academy conducted numerous needs assessments, awareness seminars and capacity building initiatives during 2013 and has in place a plan for further activities across the globe in the years to come. A summary of the work of the IALA World Wide Academy can be found on pages 30 to 33.

I would like to acknowledge and thank the staff of the IALA Secretariat for their tireless contributions throughout the year. I have been particularly impressed by their enthusiasm to embrace the need for change and their continued dedication to the core business and goals of IALA.

I would also like to acknowledge the immensely important role played by our members and volunteers and the large number of individuals who attend and contribute each year to our many committees, working groups, conferences and seminars.

Gary Prosser
SECRETARY GENERAL

The IALA Year

IALA Activities

2013 was an extremely busy year for IALA. Below is a 'snapshot' of key activities and events conducted by IALA during the year. Further details of many of these activities are contained throughout this report.

Code : [   ] IALA Activities   [   ] IALA World Wide Academy Activities

Month	Activities / Events	
January	1. e-Navigation Underway Conference - DENMARK	
February		1. North Indian Ocean Hydrographic Commission - MYANMAR
March	2. 36th meeting of the VTS Technical Committee – IALA HEADQUARTERS	2. Stage Two Needs Assessment Mission – MAURITIUS
	3. 13th meeting of the e-Navigation Technical Committee – IALA HEADQUARTERS	3. Regional Organisation for the Protection of the Maritime Environment Sea Area Hydrographic Commission – SAUDI ARABIA
April	4. 20th meeting of the Engineering, Environment and Preservation Technical Committee – IALA HEADQUARTERS	
	5. 20th meeting of the Aids to Navigation Management Technical Committee – IALA HEADQUARTERS	
May	6. 55th IALA Council - KOREA	
	7. Marine Spatial Planning Workshop – IALA HEADQUARTERS	
	8. Portrayal of Data and Information at a VTS Workshop – GERMANY	

June	9. Preservation of Lighthouse Heritage Seminar – GREECE	4. Level 1 Awareness and Risk Seminar – THAILAND
	10. Developing S-100 Product Specification for e-Navigation Workshop – IALA HEADQUARTERS	
July		5. VTS Operators Training – Part I - INDONESIA
August		
September	11. 14th meeting of the e-Navigation – IALA HEADQUARTERS	6. Level 1 Awareness Seminar - MAURITANIA
	12. 37th meeting of the VTS Technical Committee – IALA HEADQUARTERS	
	13. Simulation in VTS Training – NETHERLANDS	
October	14. 21st meeting of the Aids to Navigation Management Technical Committee – IALA HEADQUARTERS	7. Southern Africa Regional Cooperation Group - KENYA
		8. VTS Forum - SINGAPORE
		9. Stage 2 Needs Assessment Mission - CAMEROON
November	15. 21st meeting of the VTS Technical Committee – IALA HEADQUARTERS	10. South-West Pacific Hydrographic Commission - VANUATU
	16. Challenges of Providing Aids to Navigation Services in Polar Regions Workshop – GREENLAND	11. Risk Management Training Seminar – SPAIN
		12. Training Course for AtoN Managers – PAPUA NEW GUINEA
December	17. 56th IALA Council - INDIA	13. VTS Operators Training – Part II – INDONESIA
		14. Meso-America and Caribbean Hydrographic Commission – WEST INDIES

Membership Participation

The success of IALA relies on the large number of individuals who attend and contribute to the many committees, working groups and seminars offered each year. Below is a summary of attendance at some of our key events during 2013:

IALA Activities	Representatives of National Members	Representatives of Industrial Members	Representatives of Associate Members	Sister Organisations	Observers	TOTAL
IALA Technical Committees	185	72	38	19	13	327
IALA World-Wide Academy Events						426
IALA Conferences			Not applicable			141
IALA Workshops						89
IALA Seminars						137
TOTAL Attendees						1,120

The IALA Team

IALA operates a 12 person Secretariat which comprises a combination of full-time and part-time staff. IALA headquarters is based in Saint Germain en Laye, France. The Secretariat is supported by a number of technical and administrative officers seconded from our Member States.

IALA's Secretariat is led by a Secretary General, who works closely with the Deputy Secretary General, the Dean of the IALA World Wide Academy and other senior staff to shape the direction of the organisation and apply sound governance to its operating processes. Several changes to the IALA team took place in 2013. After many years of valuable service, Paul Ridgway and Michael Hadley left the organisation. Two new staff joined to provide secretariat services to the IALA technical committees, Mr Wim van der Heijden and Mr Seamus Doyle.

At 31 December 2013, the structure of the IALA secretariat is:

Mary Dean
National Member
(Seconded Officer)

Gary Prosser
Secretary General

Michael Card
Deputy Secretary General

Wim van der Heijden
Committee Secretary

Seamus Doyle
Committee Secretary

Marie-Hélène Grillet
Manager Administration

Virginia Butler
Executive Assistant

Christophe Laglenne
General Duties Officer

Jean-Charles Leclair
Dean, IALA World Wide Academy

Stephen Bennett
Programme Manager

Jacques Manchard
Senior Adviser

Christine Philip
Membership / Finance Executive Officer

Lorraine Mbong
Membership / Finance Officer
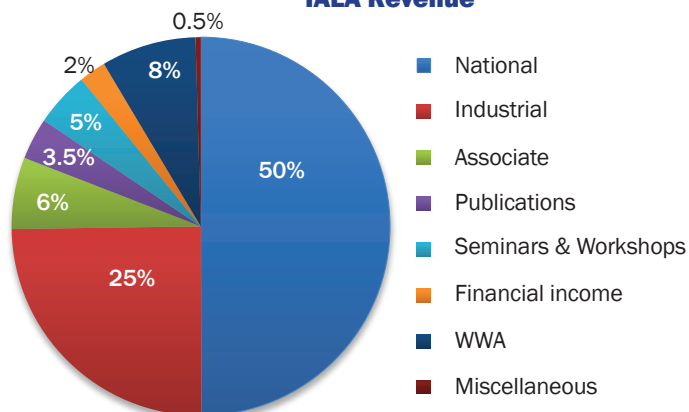
Financial Position

IALA's annual accounts show a net consolidated surplus of € 233 552 for 2013. The financial result includes 84 670€ of net surplus from the World Wide Academy. This year, IALA cash positions include I.M.C funds since it has been decided that they will be administered and controlled by IALA.

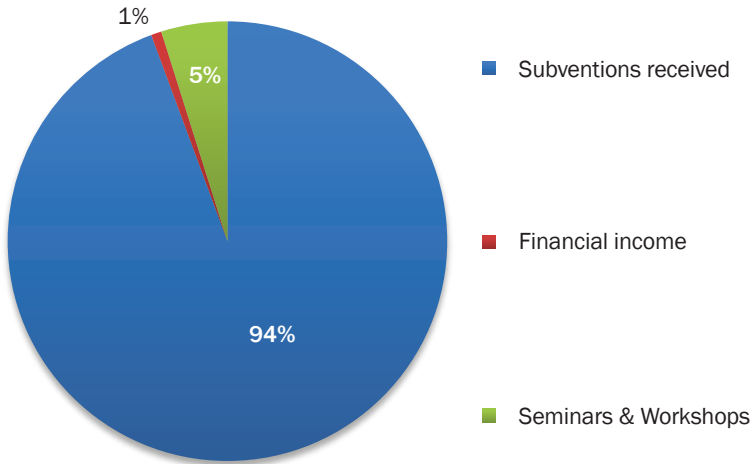| Consolidated Income Statement (Eur)	2013	2012	Variance %
IALA			
- Income	1 964 242	1 957 751	+ 0,3%
- Expenditure	1 885 757	1 900 011	- 1%
	78 485	*57 740*	+ 36%
World Wide Academy			
- Income	582 846	559 512	+ 4%
- Expenditure	498 176	439 928	+ 13%
	84 670	119 584	- 29%
Total Operating Result	*163 155*	*177 324*	*- 8%*
Financial Income	52 945	34 326	+ 54%
Financial Charges	24 361	63 621	- 62%
Total Financial Result	*28 584*	*- 29 295*	
Exceptional Income	50 234	92 328	- 46%
Exceptional Charges	5 577	49 930	- 89%
Total Exceptional Result	*44 657*	*42 398*	*+ 5,3%*
Income tax	2 845	0	
Net consolidated result of the year	*233 552 €*	*190 429 €*	*+ 23%*

Revenue

The organisation expected to receive 1 695 875€ in 2013 for membership contributions, with 94 per cent of all contributions recovered. 212 145€ remains outstanding.

IALA Revenue

- National — 50%
- Industrial — 25%
- Associate — 6%
- Publications — 3.5%
- Seminars & Workshops — 5%
- Financial income — 2%
- WWA — 8%
- Miscellaneous — 0.5%

World Wide Academy Revenue

1%

5%

94%

■ Subventions received

■ Financial income

■ Seminars & Workshops

Expenditure

In 2013 IALA focused its efforts on reducing its level of debt and improving cost efficiencies within the organisation. Some significant initiatives include:

● Repaying the loan for the purchase of the IALA headquarters in Saint Germain en Laye.

● Concerning the edition of the Bulletin, an "*in-house*" solution has been found to reorganize the staff workload

● Introducing more cost effective and efficient IT equipment and services, such as the release of the new IALA website.

IALA Expenditure

10%

5%

6%

3%

58%

18%

■ Personnel costs

■ Running expenses

■ Building costs

■ Workshops & Meetings

■ Publication

■ Travel costs - Missions
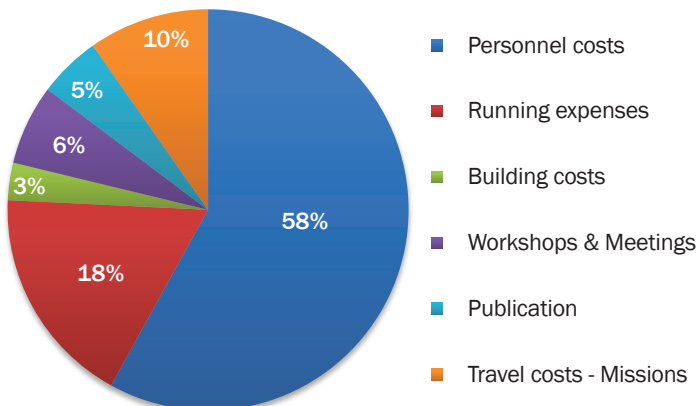
World Wide Academy Expenditure

- Salaries & consultant fees
- Taxes & security charges
- Secretariat support
- Workshops & Meetings
- Travel costs - Missions

28%
6%
34%
2%
30%
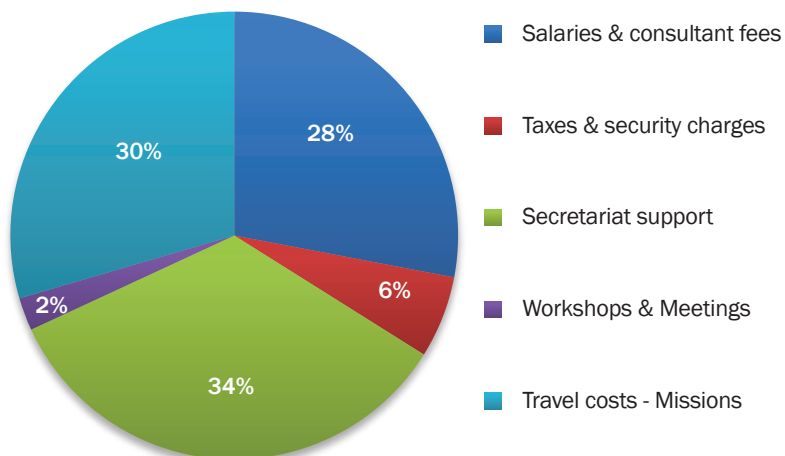
Future Projections

IALA continues to closely monitor the financial activity of both IALA and the World Wide Academy. More time will be allocated to the implementation of new policies and procedures. Concerning investments costs, IALA needs to keep on investing in IT solutions and equipment to improve the work within the Secretariat. Consolidation of IALA's staffing structure will be also considered to enhance the functioning of the organisation.

All detailed financial statements are available on the ▷ IALA web site.

Strategic Planning

IALA Strategic Vision

In December 2012, the IALA Council considered the need for IALA to develop a clear strategy for the future, underpinned by high-level visions, goals and strategies.

The IALA Council Strategy Group, Chaired by Mr Christian Forst, in consultation with IALA's Policy Advisory Panel (PAP) and Secretariat, was tasked to create a plan for achieving these outcomes. Two special meetings were convened in 2013 to develop draft documents for submission to the IALA Council. Denmark kindly offered the services of Mr Bjørn Borbye Pedersen who provided expert advice and facilitated discussion at both meetings. Representatives from a number of National Members and PAP members were present at both meetings.

A final draft Strategic Vision was created, along with the addition of a complementary committee structure and work plan to carry-out the vision's strategies and supporting work plan. The Strategic Vision covers three work periods from 2014 to 2026, with specific focus on the objectives and priorities for first of these, 2014 to 2018. The Strategic Vision was endorsed at the 56th session of the IALA Council in December 2013.

Formal announcement of the IALA Strategic Vision will be made at the IALA Conference in A Coruña, Spain in May 2014.

IALA's Strategic Vision and short-term strategies and priorities for the next four years can be found at:

> ▷ **APPENDIX 2 – IALA Strategic Vision 2014 - 2026**

> ▷ **APPENDIX 3 – IALA Short Term Strategies and Priorities 2014 - 2018**

IALA – an International Organisation

IALA is currently recognised as the international peak body in relation to marine aids to navigation. However, IALA's official legal status is one of a non-government organization (NGO) created under French charity law.

The membership, activities and responsibilities of IALA are growing. Consequently, the IALA Council has been considering whether IALA could better meet its aims if it were an international intergovernmental organization (IGO).

Changing the status of IALA to that of an IGO involves the creation of a multilateral treaty between IALA Member States, a move which could generate benefits for the work of IALA and its members to enable them to further contribute to the safety and efficiency of navigation and protection of the maritime environment. In particular, a change of status could:

● provide IALA with equivalent status to those IGOs with which we work most closely, thereby fostering improved standing with Governments and benefactors;

● allow IALA to create international standards in its own right and to encourage its Member States, who would be directly involved in their development to implement them;

● foster international consistency, integration and certainty for the maritime industry through direct adoption of those standards in the legislation and deliberations of governments; and

● provide improved resourcing arrangements by allowing IALA to have a workforce reflective of its international nature and reduce the overhead operating costs of its headquarters in France.

At Council's request the Secretariat developed a statement of the circumstances creating the environment for a change in status, with IALA's President and Vice President providing words of encouragement in the Foreword of the resulting brochure IALA – an International Organisation - Safely Navigating the Future, which was released in August 2013. Council also requested its Legal Advisory Panel Chair to invite all National Members to an Extraordinary Legal Advisory Panel meeting, which took place in Copenhagen in October 2013. An excellent group of 33 participants representing 20 National Members gathered for three days of deliberation about the scope, impact and text of the draft International Agreement, and much was achieved. The Legal Advisory Panel then advised Council at its December meeting about practical matters to be addressed, including changes to the IALA Constitution and the briefing of the IALA Assembly. Council endorsed the continuation of this important work.

IALA is committed to the improvement and harmonisation of aids to navigation world-wide. In the current environment this may best be achieved if IALA has a strong international legal framework that ensures transparency and good governance and fosters close cooperation with governments and other IGO's.

The Secretary General of the International Maritime Organization (IMO), Mr Koji Sekimizu, indicated his support for the change by stating *"I believe that such a move can only serve to strengthen the cooperation that already exists between our two organisations"*. Similar sentiments have also been expressed by the Secretary General of the International Hydrographic Organization (IHO).

Becoming an IGO is a worthwhile and achievable goal for IALA to consider.

IALA Members

Membership Categories

IALA Membership comprises a large number of national authorities, agencies, private companies and individuals involved in the provision and management of aids to navigation across the globe.

IALA Membership comprises four different categories. Details of these, and the global reach of IALA, are displayed in the tables and charts below:

Membership Category	Description
National	National membership is generally applied for by the national authority of a country which has the responsibility for the provision, maintenance or operation of marine aids to navigation within that country.
Industrial	Industrial membership is for manufacturers, distributors or consultants involved in the field of aids to navigation.
Associate	Associate membership is open to other services, organisations or scientific agencies involved in the field of aids to navigation.
Honorary	Honorary Membership may be conferred for life to an individual who is considered by IALA Council to have made an important contribution to the work of IALA.

We are pleased to report that overall membership continues to grow steadily, up by 3 per cent from 2012 and 34 percent since 2004. The table and chart below illustrates the growth of IALA membership over the past 10 years and the global reach of IALA's national membership base:

Membership Statistics

Year	National	Industrial	Associate	Total
2004	70	73	30	173
2005	73	78	37	188
2006	74	81	39	194
2007	72	80	41	193
2008	72	87	45	204
2009	73	100	45	218
2010	74	98	47	219
2011	75	104	48	227
2012	77	101	46	224
2013	77	105	49	231

Member Assistance to IALA Secretariat

IALA continues to welcome the assistance of its National Members to assist in the day to day work of IALA, and with special projects, by way of secondment.

In 2013, the IALA Secretariat was actively involved in the consideration of IALA becoming an international intergovernmental organisation. Generous assistance with this project was provided by the Australian Maritime Safety Authority, who released a senior lawyer to assist with the project. Mary Dean visited IALA on three occasions for a total of seven weeks and led:

● the development of the draft international organisation agreement and related regulations;

● the preparation of IALA's brochure IALA – an International Organisation – Safely Navigating the Future; and

● the planning and delivery of the Extraordinary Meeting of IALA's Legal Advisory Panel and National Members.

Work on this project is continuing and Mary will again assist IALA in 2014.

IALA welcomes opportunities to discuss with its National Members ways in which they can contribute to the day-to-day work of IALA and help build its capacity into the future.

IALA IN THE WORLD

Non member countries

Member countries
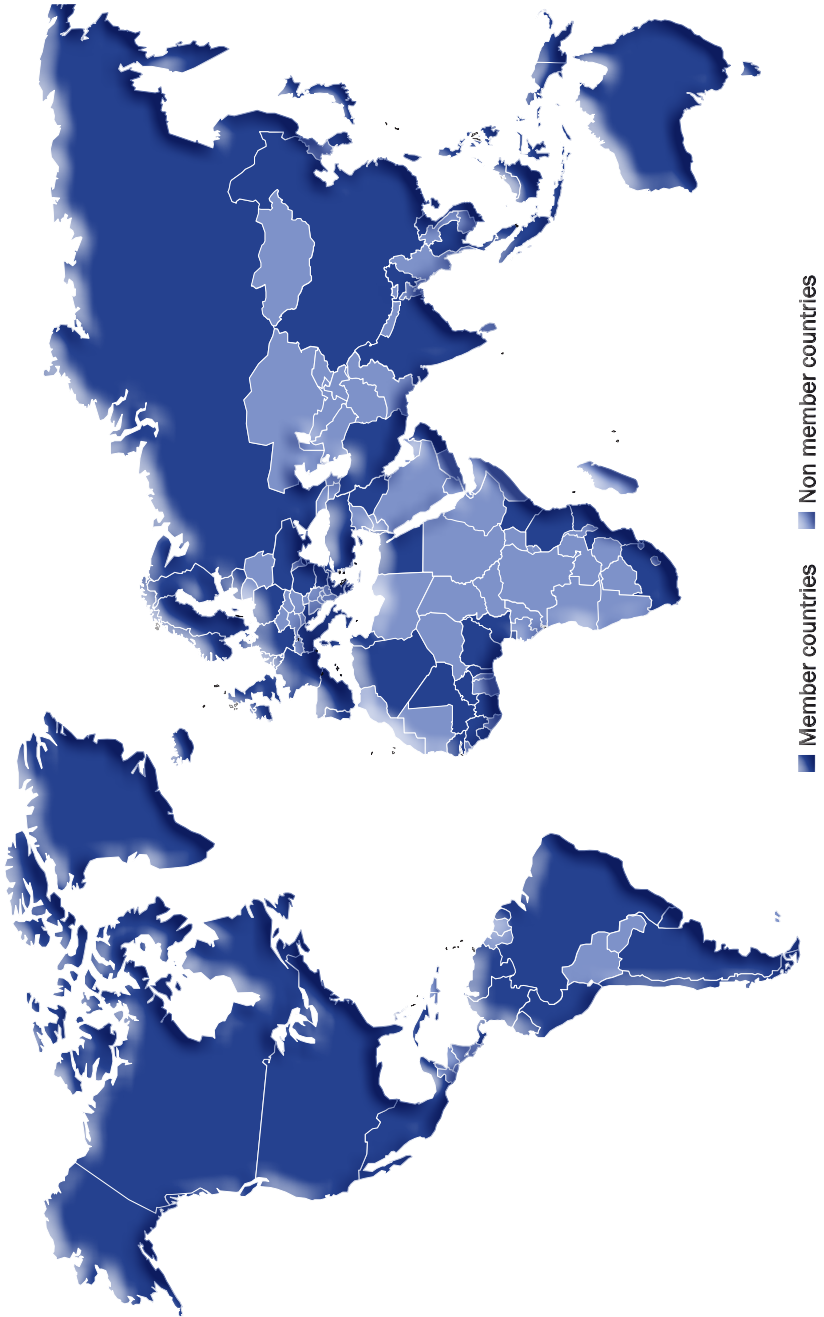
IALA General Assembly

The IALA General Assembly brings together members from all its membership categories every four years and these meetings are usually held in conjunction with an IALA Conference. At the General Assembly, National Members:

- determine the overall policy direction of IALA;
- elect members to the IALA Council; and
- decide upon changes to the IALA Constitution.

IALA is headed by a President, who is chosen by members of the newly elected IALA Council. The current President is Mr David Gordon, who has held this position since 2010. The IALA General Assembly is next due to meet and decide upon the make-up of its Council in Spain in May 2014.

IALA Council

The Council is comprised of 22 elected and two non-elected Councilors and meets twice each year. The membership of the Council during 2013 was decided at the last General Assembly which was held in Cape Town in March 2010.

Nation	National Agency
Elected	
Australia	Australian Maritime Safety Authority
Brazil	Centro de Sinalizacao Nautica e Reparos Almirante Moraes Rego
Canada	Canadian Coast Guard
Chile	Armada de Chile, Directemar
Peoples Republic of China	Maritime Safety Administration
Denmark	Danish Maritime Authority
England and Wales	Trinity House Lighthouse Service
Finland	Finnish Transport Agency
France	Direction des Affaires Maritimes
Germany	Wasser-und Schifffahrtsdirektion Nord/NordWest
India	Department of Lighthouses and Lightships
Ireland	Commissioners of Irish Lights
Japan	Japan Coast Guard
Republic of Korea	Ministry of Oceans and Fisheries

Malaysia	Light Dues Board Peninsular Malaysia
The Netherlands	Ministry of Transport
Norway	Norwegian Coastal Administration
Russia	Principal Department of Navigation and Oceanography
Senegal	Port Autonome de Dakar
Sweden	Swedish Maritime Administration
Turkey	Directorate General of Coastal Safety
United States of America	US Coast Guard

Nation	National Agency
Non-Elected	
Spain	Puertos del Estado
South Africa	Transnet National Ports Authority

The Council held its 55th meeting in Korea in May at Nurimaru APEC House, Busan and its 56th meeting in India in December at the Hotel Vivanta by TAJ, Fort Aguada, Goa.

At both meetings the work included consideration of, among other things, an IALA strategy. A Strategic Plan for the period 2014-2026 was approved at the 56th meeting.

IALA Technical Activities

IALA coordinates the technical aspects of its work through the establishment of formal technical committees and the hosting of a range of conferences, workshops and seminars. Technical committees normally meet twice per year.

For the four year work period ending in 2013, there were four IALA technical committees in operation:

- Aids to Navigation Management.

- E-Navigation.

- Vessel Traffic Services.

- Engineering, Environment and Preservation.

The primary objective of each committee is to develop IALA guidance documents, manuals and recommendations. These documents are the principal way in which IALA harmonises the establishment and operation of aids to navigation systems globally, and are used by navigation authorities worldwide. IALA guidance documentation is approved by the IALA Council before being released to the public.

Each IALA technical committee is directed by a chair and vice-chair, each chosen from among the National Members for his or her technical competence and management skills.

A committee chair will normally establish working groups within that committee as a means of allocating the technical tasks to smaller groups. The chair is empowered to decide the working groups, their responsibilities, and their leaders.

The IALA Secretariat supplies a committee secretary for each meeting of a committee, and also for each workshop or seminar arranged by a committee. The committee secretary's duties include making preparations, managing documents, writing the event or meeting report, and taking follow-up action as required. IALA benefitted from the experience and skills of three committee secretaries during the year.

Workshops and seminars are instigated, with the approval of the IALA Council, when the leadership of a committee wishes to make progress on a specific aspect of its work. These events are conducted on formal lines. Workshops usually produce draft guidance documents for consideration by the committee.

A new committee structure will apply for the new four-year work period 2014-2018. There will still be four committees in operation, but with changes to their names and purpose. Details of the new committee structure and their technical domains are provided on ▷page 27.

IALA Committees 2013

Aids to Navigation Management (ANM)

The ANM Committee dealt with the management of aids to navigations services, with its focus being the development and review of issues such as channel design, correct use of aids-to-navigation, management of services relating to AIS networks, and the maritime buoyage system. The committee is also responsible for editing and reissuing the IALA Navguide and IALA Questionnaire every four years.

The committee met twice in 2013 and completed work on:

● guidance for Aids to Navigation on the user requirements and practical applications of e-Navigation;
● updating the existing IALA Guideline 108 (Risk Management) to include the impact of advances in e-Navigation on risk control measures;
● guidance on the application of maritime surface picture for analysis in risk assessment and the provision of aids to navigation;
● a supplementary guideline to provide technical detail for simulator providers and procurers to ensure high quality and appropriate AtoN components and features;
● reviewing IALA Recommendation O-139 on the marking of man-made off-shore structures;
● co-ordinating a limited review of the IALA NAVGUIDE to incorporate amended Recommendations and Guidelines;
● guidance on issues derived from revision of the MBS, such as the clarification of auxiliary marks;
● Quality Management and Training guidance for AtoN services and service providers in an e-Navigation environment;
● reviewing and updating Guideline 1004 on the level of service that should be provided by AtoN authorities;
● developing a supplementary Guideline to 1058 to provide technical detail for simulator procurers and providers;
● revision of the IALA questionnaire on the types and numbers of aids-to-navigation operated by IALA's members; and

A workshop was also held in May 2013 to support the continuing work of the AMN Committee on marine spatial planning.

ANM Committee Attendance (average over two meetings)

National Members represented	Industrial Members represented	Associate Members represented	Sister Organisations represented	Observers	TOTAL		TOTAL average number of participants
26	2	3.5	0	0	31.5		42.5

E-Navigation (ENAV)

E-Navigation is a vision for the integration of existing and new navigational tools to enable the transmission, manipulation and display of navigational information in electronic form. It is aimed at improving the safety and efficiency of maritime transport.

The ENAV Committee addressed aspects of e-navigation relating to aids to navigation and works closely with other international organisations, especially the IMO and IHO, to develop the concept of e-navigation.

During 2013, the Committee:

● contributed greatly to the IMO e-Navigation correspondence group and played a prominent role in the development of the IMO e-Navigation Strategy Implementation Plan;

● contributed to the development of a Polar Guideline;

● developed the IALA Maritime Radio Communications Plan;

● updated the International Telecommunications Union (ITU) Recommendation on technical characteristics for AIS (M.1371);

● updated IALA Recommendations A-124 (AIS Shore Stations) and A-126 (AIS aids to navigation).

● developed a series of 'Frequently Asked Questions' (FAQs) and updated IALA Recommendation e-Nav140 on e-Navigation architecture;

● developed the structure of the IALA e-Navigation Maritime Service Portfolios;

● prepared guidance on producing an IALA S-100 product specification and revised IALA Guideline 1087 on Procedures for Management of the IALA domains under the IHO GI Registry;

● developed guidance on the reporting of results of e-Navigation testbeds;

● created an IALA e-Navigation forum on testbeds via the website LinkedIn; and

● completed work on:

◆ an IALA Guideline on the portrayal of e-Navigation information on electronic chart displays;

◆ the IALA World Wide Radio Navigation Plan;

◆ an IALA Recommendation on strategy for maintaining racon service capability; and

◆ IALA guidance on the performance and monitoring of a Differential Global Navigation Satellite Systems (DGNSS) service in the band 283.5 – 325 kHz 121;

Under the new committee structure, the ENAV Committee looks forward to 2014 with continued work on maritime service portfolios, finalising several product specifications for the exchange of data, further developing the VHF data exchange system (VDES), expanding the e-navigation shore-side technical infrastructure and harmonising the results of e-navigation test-beds.

ENAV Committee Attendance (average over two meetings)

National Members represented	Industrial Members represented	Associate Members represented	Sister Organisations represented	Observers	TOTAL		TOTAL average number of participants
26	16	5	6.5	4.5	58		107

Vessel Traffic Service (VTS)

The VTS Committee focused on all aspects of VTS, including the expanding role of vessel monitoring for maritime safety, environmental protection and security. The committee aims to develop and review VTS related IALA documentation on issues such as the training of personnel, operational procedures, equipment requirements, the impact of AIS on VTS and the role of VTS in security and global traffic monitoring systems. Key responsibilities of the VTS Committee included:
● preparing recommendations and guidelines for the planning, implementation and operation of VTS;
● monitoring developments in VTS, ship reporting systems and emerging technologies and recommending actions for IALA;
● editing and reissuing the IALA VTS Manual; and
● providing robust and timely guidance to those involved in VTS matters.

The Committee met twice in 2013, with significant achievements including:
● development of three IALA guidelines:
    ◆ No. 1101 on Auditing and Assessing VTS.
    ◆ No. 1102 on VTS Support and Interaction and Allied Services.
    ◆ No. 1103 on Train the Trainer.
● updating of two recommendations:
    ◆ No. V-103 on Standards for Training and Certification of VTS Personnel.
    ◆ No. V-120 on VTS in Inland Waters.

Considerable progress was also made on the revision of IALA recommendation V-128 on Operational and Technical Performance Requirements for VTS Equipment and development of a strategy paper titled Future Delivery of VTS. The Committee's work in 2014 will focus on completing these work areas as well as developing a plan for future delivery of aids to navigation relating to VTS and further developing guidance on information management, portrayal and new technologies for VTS.

VTS Committee Attendance (average over two meetings)

National Members represented	Industrial Members represented	Associate Members represented	Sister Organisations represented	Observers	TOTAL		TOTAL average number of participants
22.5	9.5	5	2.5	1.5	41		76

Engineering, Environment and Preservation (EEP)

The EEP Committee focused on engineering, design, maintenance and conservation issues related to aids to navigation. The committee aimed to develop and review related IALA documentation on issues such as optics, light and colour for aids to navigation, design and maintenance of related equipment, remote control and monitoring and environmental considerations. In addition, the work of the committee strengthened the role of IALA through promotion of international research and development on issues such as light measurement and conspicuity. The committee also provided guidance on the conservation and alternative use of traditional aids to navigation.

During 2013, the Committee:

- contributed to the revision of the IALA Navguide.
- facilitated workshop's in Greenland and Greece on the challenge of providing aids to navigation services in polar regions and preservation of lighthouse heritage.
- developed new guidance documents on:
  - the hydrostatic design of buoys.
  - the provision of aids to navigation services in polar regions.
  - theft and vandalism deterrents for aids to navigation.
  - the application of AIS aids to navigation on buoys.
- updated existing guidance documents on:
  - the protection of lighthouses and other aids to navigation equipment against damage from lightning.
  - the surface colours used as visual signals on aids to navigation.
  - plastic buoys and painting of aids to navigation buoys.
  - aids to navigation signal light beam vertical divergence.
  - environmental management in delivering aids to navigation services.

The Committee also assisted the work of the IALA World Wide Academy with:

- development of a new guideline on the accreditation and approval process for aids to navigation personnel training.
- development of a Level 2 Aids to Navigation Technician training model course overview and 17 new Level 2 technician training model courses.
- development of 2 new Level 1 aids to navigation Manager training model course.

EEP Committee Attendance (average over two meetings)

National Members represented	Industrial Members represented	Associate Members represented	Sister Organisations represented	Observers	TOTAL		TOTAL average number of participants
18	8.5	5.5	0.5	0.5	33		53

New IALA Committees 2014-18

A new IALA Committee structure for the work period 2014 to 2018 was agreed by Council at its meeting in India in December 2013. The new structure retains four technical committees with a number of technical domains contained within.
The new committee structure is:

Committee Title	Technical Domains
AtoN Requirements and Management Committee (ARM)	1) Requirements for AtoN systems 2) Management of AtoN Services 3) Marine spatial planning 4) International coordination and liaison (new function)
e-Navigation (ENAV)	1) Data modelling and message systems 2) e-Navigation communications 3) Shore technical infrastructure 4) e-Navigation test beds 5) Maritime service portfolios
AtoN Engineering and Sustainability (ENG)	1) Light and vision physics 2) AtoN design and maintenance 3) Global capacity building and training 4) Civil engineering and environment
Vessel Traffic Services (VTS)	1) Operations 2) Technology 3) VTS Training

Other IALA Events

In addition to the regular Technical Committee meetings, IALA also hosted a number of other events during 2013. Some of the more significant events include:

Workshops

Marine Spatial Planning Workshop
A workshop on navigational safety matters within marine spatial planning was held at IALA headquarters in 21 to 24 May 2013. The workshop was attended by 35 delegates from 14 countries and generated considerable interest outside the normal IALA community.

Attendees considered a number of matters around marine spatial planning and provided suggested input into a future IALA guideline on the issue. The workshop also focused on reviewing the draft revised IALA Recommendation O-139 (Marking of Man-Made Offshore Structures) in preparation for its completion at the ANM committee meeting in 2014.

Portrayal of Data and Information at a VTS
A workshop on Portrayal of Data and Information at a VTS was held in conjunction with the Federal Waterways and Shipping Administration and Jacobs University, Bremen,

Germany from 6 to 9 May 2013. An exhibition, consisting of tabletop displays and posters by three IALA Industrial Members was also held at Jacobs University in conjunction with the workshop.

The workshop was attended by 25 delegates representing 10 countries and one sister organisation. Technical visits were also organised to the Bremen Maritime Rescue Coordination Centre, the Bremen VTS and the Hochschule, Bremen's bridge simulator.

The workshop:
- Identified a number of emerging issues;
- Established the need for international guidance;
- reviewed existing documentation;
- recommended improvements to IALA documentation; and
- provided output on what needs to be done with portrayal of data and information at a VTS.

The Workshop concluded with the development of fourteen portrayal and eight non-portrayal conclusions and seven principles.

Seminars

Simulation in VTS Training
An IALA Seminar on Simulation in VTS Training was held in Wageningen, the Netherlands, from 9 to 13 September 2013, a week prior to the 37th meeting of the VTS technical committee.

50 delegates representing 20 countries attended the seminar, which aimed to:
- promote best practice in VTS simulator training;
- demonstrate how simulator training may be established; and
- provide input to the review of IALA Guideline 1027 - Simulation in VTS Training.

Attendees were also provided with a technical tour of the VTS Centre at the Port of Rotterdam. The seminar was kindly sponsored by MARIN, NNVO (the Dutch VTS Training Foundation Bureau) and the Port of Rotterdam.

Other Events

IALA also hosted a number of other key events during 2013. Details of these are shown in the table below:

Date	Event	Location
29-31 January	e-Navigation Underway Conference	Copenhagen, Denmark
3-7 June	Preservation of Lighthouse Heritage Seminar	Piraeus, Greece
18-21 June	Developing S-100 Product Specification for e-Navigation Workshop	IALA Headquarters
30 September to 4 October	Challenges of Providing Aids to Navigation Services in Polar Regions Workshop	Illulisat, Greenland

Cooperation with other International Bodies

The work of IALA requires cooperation with a number of international bodies, both inter-governmental and non-governmental. Some of the larger organization in which IALA engages include:

International Maritime Organisation (IMO)
IALA has observer status at the IMO. IALA contributes to the technical work of the IMO as well as cooperating on capacity building projects via the IALA World-Wide Academy.
During 2013, IALA participated in meetings of the IMO Council, the Maritime Safety Committee and the Sub-Committee's on Safety of Navigation and Communications and Search and Rescue.
IALA's e-Navigation Committee contributed greatly to the IMO Correspondence Group on e-Navigation.

International Hydrographic Organisation (IHO)
IALA's work on data modelling for e-Navigation requires close cooperation with the IHO to establish an IALA Domain within the IHO's GSIS S-100 registry. It is planned that this domain be populated with world-wide data on aids to navigation, including vessel traffic services, to provide a global database accessible by all vessels.
The IALA World-Wide Academy also has close relationships with the IHO's Regional Hydrographic Commissions.

International Telecommunications Union (ITU)
The development of the IALA VHF Data Exchange System involves close cooperation with the ITU through its Working Party 5B. During the year, IALA was fortunate to have the services of Mr Stefan Bober of the German Federal Waterways to act as the IALA expert and representative at ITU meetings.

Other International Bodies
Other international bodies with which IALA is associated include the Comite International Radio Maritime (CIRM), the International Commission on Illumination (CIE) and the International Electrotechnical Commission (IEC).

IALA World-Wide Academy

Overview

The IALA World-Wide Academy (the Academy) is the vehicle by which IALA delivers training and capacity building to national authorities. On 31 December 2013, the Academy completed its second full year of operation.

During the year the Academy's three-man part-time team, ably supported by the IALA Secretariat and subject matter experts, continued to build on the achievements of its first year to establish the Academy as a well-recognised independently funded division of IALA.

Structure

The Academy is governed by a Board of five members under the Chairmanship of Rear Admiral Jean-Charles Leclair. The Academy Board reports to the IALA Council, which has responsibility for approving its activities on an annual basis.

The Academy Board with IALA WWA Programme Manager

left to right:
Mr Gary Prosser, Mr Tamotsu Ikeda, Rear Admiral Sir Jeremy De Halpert,
Rear Admiral Jean-Charles Leclair, Mr Omar Eriksson with Mr Stephen Bennett

Delivery of the Academy's day to day operations and overall work plans are coordinated by:

Rear Admiral Jean-Charles Leclair
Dean, IALA World Wide Academy
As Chair of the Academy Board Admiral Leclair holds the end responsibility of the Academy and overlooks its programmes, functioning and deliveries.

Mr Stephen Bennett
IALA World Wide Academy Programme Manager
Mr Bennett has responsibility for the coordination and implementation of the IALA World Wide Academy Action Plan.

Mr Jacques Manchard
IALA World-Wide Academy Senior Advisor
Mr Manchard is responsible for providing expert advice in relation to capacity building initiatives and on development of marine aids to navigation systems in developing countries, with a particular focus on French speaking countries.

Funding

The Academy is an independently funded division of IALA.
Generous financial support from the Academy's principle sponsor, the International Foundation for Aids to Navigation (IFAN), helped exceed expectations during 2013. Additional sponsorship was also gratefully received from Australia, Denmark and France, with the Republic of Korea confirming it will provide sponsorship from 2015. The financial security of the Academy remains sound.

Capacity Building Strategy

The Academy has adopted a capacity building model which groups together both Member and potential Member States into regions of most need. The regions have similar geographical limits to those defined by the International Hydrographic Organization (IHO). Of the 15 IHO regions, seven have been identified by the IALA World-Wide Academy for capacity building initiatives.
The Academy's capacity building strategy is based on a four-stage process:
Stage 1   Raising the awareness of executives in Ministries and senior managers of aids to navigation service providers.
Stage 2   Conducting an assessment of needs for States or groups of States based on a visit by Academy-sponsored experts.
Stage 3   Producing an analysis of requirements, based partly on available AIS data.
Stage 4   Producing a list of actions to meet the requirements identified during Stage 3.

Principle Achievements in 2013

Under the umbrella of the United Nations *"Delivering as One"* capacity building initiative, The Academy reinforced its relationship with the International Maritime Organization (IMO), the International Hydrographic Organization (IHO) and other authorities to develop a joint capacity building strategy to improve the safety of navigation world-wide. This strategy was highlighted during the IMO Technical Cooperation Committee in July and reviewed at the 7th IMO annual Joint Capacity Building Meeting held in Monaco in November.

Working closely with the four standing IALA technical committees, the Academy assisted in:

- the drafting of a new edition of Recommendation E-141;

- new IALA Guideline 1100 on Aids to Navigation Training and Accreditation;

- two new Level 1 AtoN manager model courses and the final nineteen new

  Model Courses on specific aspects of Technician Training.

All were subsequently approved or endorsed by Council and were published on the new IALA website during 2013.

The Academy also delivered their annual risk management workshop to 32 participants in Madrid in November 2013. The Academy uses a risk-based strategy to achieve the maximum possible level of awareness by its 78 target States in 7 regions. By the end of 2013, 31 target States had attended 'Level 1+ Awareness' seminars. Two more awareness seminars are planned before May 2014.

In November 2013 the Academy conducted a five day Level 1 Aids to Navigation Manager training course in Papua New Guinea (PNG) for aids to navigation personnel from the south-west Pacific region. The Australian Maritime Safety Authority (AMSA) assisted IALA in delivering the course with eleven participants from Papua New Guinea, Kiribati, Tonga, Solomon Islands, Fiji and Tuvalu. The training included topics such as aids to navigation management, service delivery, risk management, review and planning, performance management, quality and heritage matters. Nine participants completed the course successfully and gained an IALA Certificate of Competence.

In 2013, the Academy was granted *"Observer"* status at the seven Hydrographic Commissions (HC) covering its target regions. Academy participation at four Commissions proved to be valuable capacity building opportunities. The table below shows the Joint or Academy-led capacity building events delivered during 2013. These are also illustrated in the world map found at ▷APPENDIX 3.

Event	Location	Month	Participants	Target States
North Indian Ocean HC	Myanmar	February	55	4
ROPME Sea Area HC	Saudi Arabia	March	46	4
Stage 2 Needs Assessment Mission	Mauritius	March	Conducted by IALA experts and an Academy Board Member, Mr Omar Frits Eriksson	
Level 1+/risk seminar	Thailand	June	54	7
Level 1+ seminar	Mauritania	September	33	9
VTS forum	Singapore	October	36	6
SAGNEP-4	Kenya	October	22	1
Stage 2 Needs Assessment Mission	Cameroon	October	Conducted by the Dean of the Academy and Mr Jacques Manchard	
South-West Pacific HC	Vanuatu	November	40	4
Meso-America and Caribbean HC	West Indies	December	59	5

Planned Activities for 2014

The Academy's plan for 2014 includes the delivery of and/or participation in the following training and capacity building initiatives:

- a Vessel Traffic Service (VTS) forum in India;
- the final two 'Level 1+' awareness seminars planned for English-speaking African States and the Meso-America and Caribbean region;
- three potential 'Stage 2' needs assessment missions, one confirmed for Fiji;
- the first one-month Level 1 AtoN manager course in IALA Headquarters;
- the first 'introduction to e-Navigation' course in IALA Headquarters;
- the annual risk management workshop in Istanbul;
- a joint Risk/VTS/AIS seminar in Japan; and
- participation in five regional Hydrographic Commissions.

IALA Governance Arrangements

IALA continues to place considerable emphasis on strong governance arrangements for which become increasingly important as it considers changing status to an international organisation. The following report details the groups and functions established to ensure IALA remains accountable for its actions and is in a position to respond to the changing needs of its members and the global maritime community as a whole.

IALA Assembly and Council

The IALA Assembly and Council provide strong oversight and direction of the organisation's governance arrangements.

The IALA Council, which comprises 22 elected and two non-elected members, approves IALA's strategic direction, annual budget and sets the rates for contributions each year. It also authorises any major financial purchases or bank loans required for the running of IALA.

Of specific note in 2013, the Council requested the Secretary General to report on what a modern and efficient Secretariat would look like, for the present form of the Association. This request was made in the context of the new Strategic Vision, recognizing that IALA needs to be appropriately resourced to deliver against the goals and priorities that have been agreed. The outcomes of this review, which will be appropriate for both the current IALA and for an IGO, given that good governance and sound support structures are equally applicable, will be delivered to Council during 2014.

Finance and Audit Committee

The IALA Finance and Audit Committee (FAC) operates under direction of the IALA Council. Under the Chairmanship of the IALA Treasurer Captain Ian McNaught, the FAC is responsible for reviewing and overseeing the financial aspects of IALA. The FAC provides briefs to IALA Council every six months on the status of IALA's finances and makes recommendations regarding fee adjustments, investment policies and other financial matters. The FAC now assumes responsibility for the oversight of the external auditor process and the management of its findings. In 2013 IALA received an 'unqualified' audit statement from its independent financial auditor (see Appendix 1 – IALA Financial Statement 2013).

Legal Advisory Panel

The IALA Legal Advisory Panel (LAP) also operates under direction of the IALA Council. Acting under the Chairmanship of Mr Francis Zachariae, its primary role is to advise IALA Council on legal matters pertaining to the organization including, legal issues associated with the provision of aids to navigation services and respond to concerns raised by IALA technical committees.

A particular focus for LAP during 2013 was IALA's consideration of a change of legal status from that of a French charity organisation to an intergovernmental organisation.

An Extraordinary Legal Advisory Panel meeting was held in Copenhagen in October 2013 to discuss the scope, impact and text of the draft International Agreement. The IALA Council was advised of the outcomes from the meeting including the practical matters to be addressed, including proposed changes to the IALA Constitution. The LAP will continue work on this project in 2014.

The LAP also maintains a risk register for IALA, with continual monitoring reported to Council every six months.

IALA Secretariat

In 2013, the IALA Executive introduced several structural changes to the Secretariat with the aim of providing greater expertise and transparency in relation to key technical and administrative functions. In particular, two new staff were engaged to provide secretariat services to the IALA technical committees - Mr Wim van der Heijden and Mr Seamus Doyle.

2013 also saw a continuation of efforts to review IALA's internal governance arrangements, particularly those which affect the way IALA's financial and administrative functions are managed. Some of the processes reviewed during 2013 included:

- the procurement of goods and/or services;
- contract management
- credit card and other payment methods;
- staff travel;
- the handling of membership fees;
- debt recovery and other financial processes; and
- staff leave arrangements;

Information Technology and Communications

2013 was a significant year for IALA's Information Technology (IT) and Communication infrastructure and services. A number of key projects were completed focussed on improving both IT and communication provision for the benefit of members and the organisation.

Following a comprehensive external audit of IALA's IT and Communication services a number of areas were identified for establishment and improvement. A summary of completed projects includes:

- New IALA website ▷ *www.iala-aism.org*. IALA now has a totally revised website for the access of members and the general public. The new look IALA website is built on the latest contemporary technology and provides IALA membership with a central repository for all current and historical information. The new website also features a separate sub-domain for the IALA World-Wide Academy and members only access area. With its inbuilt publication sales features and download tracking capability the enhanced website allows IALA to monitor information downloads and track use. The new website also incorporates much improved committee document access features and will continue to be optimised over the coming years for the benefit of members.

● The IALA Secretariat also now has an internal Intranet facility, which acts as a central location for the storage and access of all policy, procedure and other staff related information. The new IALA Intranet will assist IALA and the Council in ensuring good governance for the organisation.

● An area that has received considerable attention and resourcing over 2013 has been Headquarters Internet connectivity for attending members. With the rapid reliance on real time information access and sharing, IALA has devoted considerable resources to upgrading Internet capability and access with new fibre optic communications lines and state of the art Wi-Fi systems.

● IT security is also an area that has received considerable management attention during 2013 with new information storage and backup facilities and a review of all software licencing and support arrangements.

As a lot of members would be aware, the IALA Secretariat has no in-house IT expertise and is reliant on contracted services and in part the generous support of our members and volunteers. In particular, during 2013 the Trinity House Lighthouse Service, Denmark and The Netherlands were strong contributors to enhancing IALA's IT and Communication infrastructure framework.

It is recognised by the IALA Secretariat that further upgrades and capabilities are required for a modern and effective organisation and planning is well underway to continue with the significant inroads that have been made during 2013.

Appendices

Appendix 1 – IALA Financial Statement 2013

GVA

**International Association of Marine Aids
to Navigation and Lighthouse Authorities (IALA)**

**10, rue des Gaudines
78100 SAINT GERMAIN EN LAYE**

**STATUTORY AUDITOR'S REPORT ON
THE FINANCIAL STATEMENTS**

For the year ended December 31st, 2013

To the Members,

In compliance with the assignment entrusted to us by your Council, we hereby report to you, for the year ended 31 December 2013, on:

- the audit of the accompanying financial statements of International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA)

- the justification of our assessments

- the specific verification and information required by law.

These financial statements have been approved by your Secretary General.
Our role is to express an opinion on these financial statements based on our audit.

GVA

I. OPINION ON THE FINANCIAL STATEMENTS

We conducted our audit in accordance with professional standards applicable in France; those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit involves performing procedures, using sampling techniques or other methods of selection, to obtain audit evidence about the amounts and disclosures in the financial statements. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made, as well as the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

In our opinion, the financial statements give a true and fair view of the assets and liabilities and of the financial position of the organization as at 31st December 2013 and of the results of its operations for the year then ended in accordance with French accounting principles.

Without qualifying the opinion given above, we wish to draw your attention to the 'Change of method' and 'Association Funds' Notes from the Exhibit, explaining the change of accounting method in relation to the provision for retirement severance pay for Association employees.

II. JUSTIFICATION OF OUR ASSESSMENTS

Applying the provisions in article L. 839-2 of the Code of Commerce on the justification of our assessments, we wish to disclose the following:

As stated in the first part of the report herein, the 'Change of method' and 'Association Funds' Notes from the Exhibit explain the change of accounting method carried out during the year in relation to the accounting of pension liabilities.

Within the scope of our assessment of the accounting rules and policies followed by your Association, we assured ourselves of the appropriateness of the change and the presentation thereof.

These assessments were made as part of our audit of the financial statements taken as a whole, and therefore contributed to the opinion we formed which is expressed in the first part of this report.

4

GV·A

III. SPECIFIC VERIFICATIONS AND INFORMATION

We have also performed, in accordance with professional standards applicable in France, the specific verifications required by French law.

We have no matters to report as to the fair presentation and the consistency with the financial statements of the information given in the management report of the Secretary General and in the documents addressed to members with respect to the financial position and the financial statements.

Paris, April 23rd 2014

The Statutory Auditor

SCP GVA

Muriel NOUCHY

5

Appendix 2 – IALA Strategic Vision 2014 to 2026

IALA's STRATEGIC VISION 2014-2026 (Draft for Council 56)

Purpose

The aim of IALA is to foster the safe and efficient movement of vessels through the improvement and harmonisation of marine aids to navigation worldwide, and by other appropriate means.
Our motto - «Successful voyages, sustainable planet.»

Goals for 2026

G1 - Harmonise aids to navigation systems and related services, including e-Navigation, Vessel Traffic Services, and emerging technologies, through international cooperation and the provision of standards

G2 - Ensure that all coastal states contribute to an efficient global network of aids to navigation and services for the safety of navigation, through capacity building and the sharing of expertise

Strategy for 2014-2026

G1 S1 - Develop standards suitable for direct citation by States in areas deemed important by the General Assembly, and continue to improve strong governance, including document policy and procedure for standards

G1 S2 - Improve and harmonise the delivery of VTS globally and in a manner consistent with international conventions, legislative frameworks and public expectations

G1-S3 - Harmonise the information structure, Maritime Service Portfolios, and communications for e-Navigation by creating standards, and by cooperation with other IGOs, to achieve worldwide interoperability of shore and ship systems

G1 S4 - Work towards the transformation of IALA into an IGO, to enable the organisation to better fulfil its objectives, subject to General Assembly decision

G2 S1 - Position IALA as the source of standards, knowledge, and expertise that will enable States to undertake and share the technical development of aids to navigation, in accordance with UNCLOS, SOLAS, and other obligations

G2 S2 - Continue to develop capacity building activities to improve the global operations and management of aids to navigation systems and related services including VTS

G2 S3 - Coordinate the further development of VTS, e-Navigation, and short range aids to navigation, taking into account new technologies and sustainability

G2 S4 - Create standards for the design and analysis of aids to navigation systems in areas where increasing environmental and economic developments are affecting navigable waters

IALA's Strategic Domain
The term 'Marine Aid to Navigation ' means a device, system, or service, external to a vessel, designed and operated to enhance safe and efficient navigation of all vessels and/or vessel traffic
The organisation shall have a consultative, recommendatory, and technical nature

Appendix 3 – IALA Short Term Strategies and Priorities 2014 to 2018

IALA'S STRATEGIC PLAN 2014-18 (Draft for Council 56)

To attain our goals we will pursue a strategy, over the next four years, of focusing on our product structure, including creating a limited suite of standards to strengthen their usefulness and effectiveness. The content will emphasise coordination of the development and harmonisation of VTS, e-Navigation, and short range aids to navigation We will work to build capacity for managing and operating aids to navigation around the world in order to raise the current level of provision. Subject to approval of the General Assembly, the status of the organisation will change from a NGO to an IGO in order to strengthen its impact on the safety of navigation and better facilitate the activities of the organisation.

Priorities 2014-2018

Our Priorities for the four-year work period 2014-2018 are the following:

P1 - Transform the IALA product line by redefining and restructuring existing documentation to meet the future needs of the organisation, including document content, the approval process, and accessibility

P2 - Deliver a limited suite of high level standards suitable for direct citation by States and by other international organisations

P3 - Develop guidance on positioning, communications, Maritime Service Portfolios, and data modelling for e-Navigation

P4 - Develop guidance for the delivery of VTS, including communications, human factors, qualifications, and training

P5 - Develop guidance on aids to navigation in navigable waters affected by operational limitations

P6 - Develop a forward plan for future delivery of aids to navigation systems and related services including VTS, taking account of developments in technology and changing needs

P7 - Continue to improve guidance on light and vision aspects of marine signalling, consolidating documentation

P8 - Provide guidance on management, engineering, and sustainability in aids to navigation, particularly concerning modern materials and light sources

P9 - Promote the demonstration of e-Navigation services, through the provision of test beds, and the harmonisation of results

P10 - Develop guidance on information management, portrayal, and new technologies for VTS

P11 - Develop funding sources, programs and delivery options for The World Wide Academy

P12 - As part of the WWA Master Plan, prioritise and conduct needs-assessment missions and related capacity-building activities, and further the use of Model Courses by national authourities

P13 - Define common metrics and evaluation techniques, including risk analysis methodologies, for use in determining aids to navigation solutions

P14 - Promote technology transfer and knowledge sharing concerning aids to navigation

Appendix 4 – IALA World-Wide Academy Activities in 2013

SPAIN
Risk Management
Training Seminar
(November)

MAURITANIA
Joint IMO/IALA/IHO
Awareness Seminar
(September)

KEN
Southern Afri
Cooperatio
(Octo

WEST INDIES
Meso-American and
Carribean Hydrographic
Commission (December)

CAMEROON
Stage 2 Needs Assessment
Mission (October)

SAUDI ARABIA
Regional Organization for the protection of the Maritime Environment Sea Area Hydrographic Commission (March)

MYANMAR
North Indian Ocean Hydrographic Commission (February)

THAILAND
Joint IM/IALA/IHO Level 1 Awareness and Risk Seminar (June)

NYA
ca Regional
on Group
ber)

PAPUA NEW GUINEA
Preliminary Stage 2 Needs Assessment Mission (November)

INDONESIA
Indonesian VTS forum (July & December)

SINGAPORE
Singapore VTS forum (October)

MAURITIUS
Stage 2 Needs Assessment Mission (March)

VANUATU
Preliminary stage 2 Needs Assessment Mission (November)

Appendix 5 – Publications

IALA produces a large range of publications, recommendations and guidelines for use by the world wide aids to navigation community.

In 2013, a number of new and/or revised publications were released to the public. These included:

Recommendations

- O-143 - Virtual AtoN
- E-108 - Surface Colours used as Visual Signals on AtoN
- V-120 - Vessel Traffic Services in Inland Waters
- V-103 Ed2 - Standards for Training and Certification of VTS Personnel (amendment)
- O-139 Ed2 - The Marking of Man-Made Offshore Structures

Guidelines

- 1004 Ed2 - On Level of Service
- 1006 Ed3.1 - On Plastic Buoys
- 1012 Ed3 - On Lightning Protection
- 1015 Ed2 1 - On Painting Aids to Navigation Buoys
- 1018 Ed3 - On risk management
- 1036 Ed2 - On Environmental Management in Aids to Navigation
- 1052 Ed3 - Quality Management Systems for AtoN Service Delivery (Revision)
- 1065 Ed2 - On Aids to Navigation Signal Light Beam Vertical Divergence
- 1081Ed1.1 - On virtual AtoN
- 1087 Ed2 - On Procedures for the Management of the IALA Domains under the IHO GI Registry
- 1095 - On Harmonized implementation of Application-Specific Messages
- 1096 - On user requirements and practical applications of e-Navigation from berth to berth
- 1097 - On technical features and technology relevant for simulation of AtoN
- 1098 - On the Application of AIS - AtoN on Buoys
- 1099 - On Hydrostatic Buoy Design
- 1100 - On AtoN Training and Accreditation
- 1101 - On Auditing and Assessing VTS
- 1102 - On VTS Interaction with Allied and Other Services
- 1103 - Train the Trainer
- 1104 - On the Application of the Maritime Surface Picture for Analysis in Risk Assessment and Provision of AtoN
- 1105 - On Shore-side Portrayal Ensuring Harmonisation with e-Navigation Related Information

- 1106 - On Producing an IALA S100 Product Specification
- 1107 - On the Reporting of Results of e-Navigation Testbeds
- 1108 - On the Challenges of Providing AtoN Services in Polar Regions
- 1109 - On Theft and Vandalism Deterrents

Model courses

- WWA L1.4 - Aids to Navigation Manager training – Use of IALA Risk Management Tools
- WWA L2.1.9 - Introduction to buoy positions
- WWA L2.1.14 - Introduction to shore marks
- WWA L2.3.1-3 - Introduction to marine signal lanterns
- WWA L2.3.4-6 - Light flashers, lamp changers and self-contained marine lanterns
- WWA L2.3.7-8 - Rotating beacons and classical lenses
- WWA L2.3.10 - Range, sector and precision direction lights
- WWA L2.4.1-2 - Sound signals
- WWA L25.1-2 - Surface preparation before coating
- WWA L2.8.1 - AIS-AtoN operations
- WWA L2.0 Ed2 - Overview of IALA World-Wide Academy
- WWA L1 - Introduction to e-Navigation
- WWA L2.1.5 - Buoy Handling
- WWA L2.2.4 - Wind Generators
- WWA L2.2.5-6 - Mains AC Power Systems and Diesel Generators
- WWA L2.2.7 - Lightning Protection
- WWA L2.10.1-2 - Remote Monitoring of Aids to Navigation
- WWA L2.11.1-5 - Aids to Navigation Structures, Materials, Corrosion and Protection
- WWA L2.11.6 - Preservation of Structures
- WWA L2.11.7 - Maintenance planning and records Ed 1 Dec 2013

For a full list of IALA publications, recommendations and guidelines, please visit our Internet site at: ▷*http://www.iala-aism.org/publications/*.

Glossary of Terms

AIS	Automatic Identification System
AMSA	Australian Maritime Safety Authority
ANM	IALA technical committee on Aids to Navigation Management
APHoMSA	Asia Pacific Heads of Maritime Safety Agencies
ARM	IALA technical committee on Aids to Navigation Requirements and Management
AtoN	Aids to Navigation
CIE	International Commission on Illumination
CIRM	Comité International Radio Maritime
DGNSS	Differential Global Navigation Satellite Systems
EEP	IALA technical committee on Engineering, Environment and Preservation
E-NAV	IALA technical committee on e-Navigation
ENG	IALA technical committee on Aids to Navigation Engineering and Sustainability
FAC	IALA Finance and Audit Committee
IALA	International Association of Marine Aids to Navigation and Lighthouse Authorities
IALA-NET	IALA's Maritime Data Exchange Service
IEC	International Electrotechnical Commission
IFAN	International Foundation for Aids to Navigation
IGO	Inter-Governmental Organisation
IHO	International Hydrographic Organization
IMO	International Maritime Organization
ITU	International Telecommunications Union
LAP	IALA Legal Advisory Panel
NGO	Non-Governmental Organisation
PAP	IALA Policy Advisory Panel
S-100	International Hydrographic Commission technical performance standard
SOLAS	International Convention on Safety of Life at Sea
UNCLOS	United Nations Convention on the Law of the Sea
VTS	Vessel Traffic Service
WWA	IALA World Wide Academy

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