

The Nautical Institute Annual Report – 2022



John Lloyd FNI
 Chief Executive and Company
 Secretary on behalf of the
 Executive Board



Objectives and activities

This report provides an insight into the activities of the NI during 2022 and provides a key operational and performance review.

The work of the Institute is not only a service to members but also a public benefit to maritime professionals, the industry and society in general worldwide, by improving safety and the protection of the marine environment through the sharing of knowledge in nautical science and the raising of professional standards.

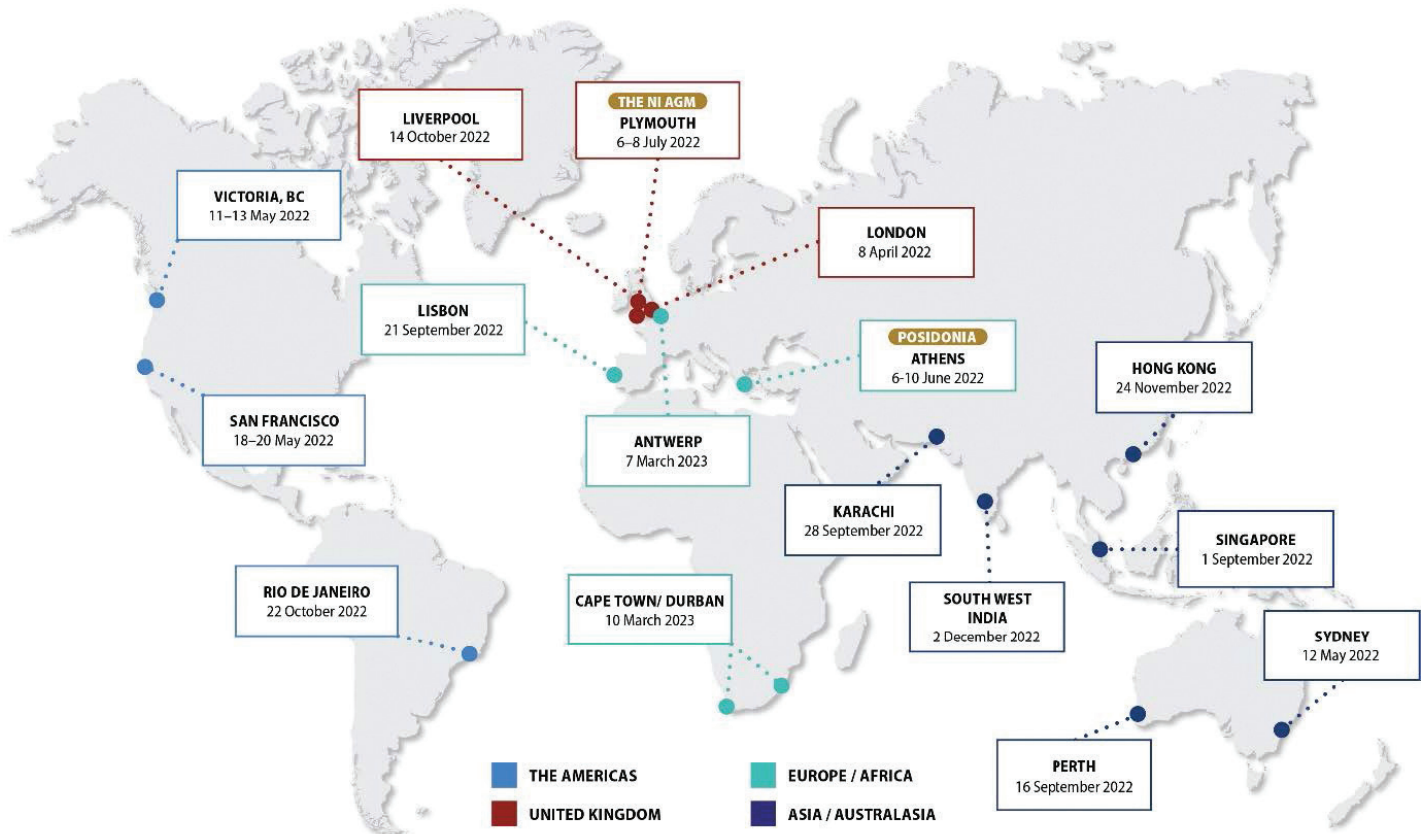
MEMBERSHIP & BRANCHES

Total membership at the end of 2022 stood at 8,321 – up from 7,230 the previous year. Key factors behind this growth were the introduction of free student membership in late 2022 and the continuing success of the DPO conversion programme. It is believed the introduction of new member benefits has also contributed.

The Nautical Institute profile in 2022 was dominated by 50th Anniversary engagement on a global scale. The lifting of Covid restrictions enabled physical meetings to take place almost unimpeded by previous restrictions.

In all 16 events were held (see map below), and the regional nature of the engagement allowed matters of local importance to be addressed in a global context.

The leading highlight for the year was the Annual General Meeting event hosted in Plymouth. With Royal patronage and an exciting programme the event drew attention worldwide and helped confirm The Nautical Institute as a world-class organisation committed to leading the professional debate.



Free student membership

In October 2022, the NI introduced free digital-only membership for those in initial maritime training or education. Following completion of their studies, students have a grace period of up to a year in which to establish their career. Towards the end of this period they are actively encouraged to upgrade to full membership of the NI, initially at half price. Uptake has been brisk, with 674 student members at the end of 2022, compared with approximately 200 immediately before the launch of the scheme.

Learn@Sea courses from MSSC

In mid 2022 The Nautical Institute partnered with leading seafarer charity MSSC, with the generous support of the International Foundation for Aids to Navigation (IFAN), to offer NI members free access to a range of practical online courses. Topics covered range from core English to leadership skills, meteorology and environmental protection. So far over 100 NI members have taken advantage of this new membership benefit.

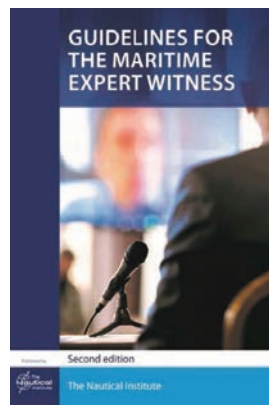
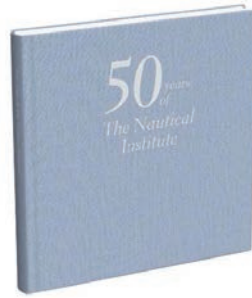
New app for members

A new app introduced in July last year has provided members with a handy way of accessing a range of useful content. Members can use the app to catch up on the Institute's latest news, view upcoming events, read MARS reports, watch NI webinars, record their CPD and read *Seaways* and *The Navigator*.

NI Branches

NI branches around the world played a leading role in helping The Nautical Institute mark its 50th anniversary. Highlights included the attendance of HRH the Princess Royal at the afternoon session of the Institute's 50th anniversary event in Plymouth, a two-day conference in British Columbia bringing together an array of experts to discuss the challenges and opportunities of the Maritime Arctic and a truly global gathering in Singapore with an audience of close to 200.

The majority of branches continued member engagement activities, including technical and social events. A new branch was launched in Germany, the Malta Branch was given HQ support for 're-establishing' an annual conference in Valletta, and additional effort was placed on developing new or re-developing dormant branches in the Netherlands, Turkey, Georgia, the Baltic region, Indonesia and others.



Regular contact with branches via telephone and video calls was prioritised in 2022 to re-engage members post-Covid, and to encourage more engagement and reporting from branches.

Younger Members' Council (YMC)

New members were appointed to the YMC in February 2022 as some founding members stood down due to age or other commitments.

Much of the year was spent re-establishing priorities and working arrangements following the Covid hiatus. The group otherwise focussed on technical outputs in the form of *Seaways* articles, social media content and support for branch activities, with many engaged in independent outreach to schools and colleges and through other maritime associations. Over the year, every single member of the group contributed tangibly to its aims.

The group re-established a quarterly meeting schedule and revived its WhatsApp group.

INFORMATION and PUBLICATIONS

The Information and Publications area underwent quite some change during 2022 with a new Head of area introducing ideas for a revised organisational structure and arrangements for the development of publications. One key milestone was the release of our celebratory publication. The 50th Anniversary book reflected on half-a-century of development in the NI; a publication widely welcomed by our members.

Other books did not progress in the way we had hoped, with titles under development now deferred until 2023. An organisational review has been undertaken for this area to enable us to build for the future. New arrangements will include a dedicated sales executive and a revision of the book development process.

The other significant launch in 2022 was *The Guidelines for the Maritime Expert Witness* publication brought to the community in March 2022.

Development work on other key publications has progressed and will result in three significant book launches in the first half of 2023.

Seaways



Seaways continues to cover a wide range of topics, reflecting both new and long-standing concerns of our members, from the emerging risks of lithium-ion battery carriage to the training implications of new technologies. A particular highlight in 2022 was the chance to showcase the technical and social highlights of the Golden Anniversary events.

In 2022, for the first time, we have begun regularly sharing selected articles from *Seaways* online to help the industry at large benefit from NI technical expertise and promote the work of the Institute. Work is ongoing to improve the online search facility and make the archive fully accessible.

RESEARCH AND RELATIONSHIPS

The Navigator Magazine

The Navigator magazine continues to inspire professionalism in marine navigators. Its impact is evident from testimonials illustrating changes of behaviour, improved teamwork and a focus on mentoring.

With generous funding from IFAN, Ocean Technologies Group, Excelerate and Skuld P&I Club, we were able to deliver thousands of paper copies of *The Navigator* and many thousands more copies through the app and free downloads. Users particularly appreciate that the app is fully searchable across all issues.

During this year we were able to catch up on the gap in mass paper distribution caused by Covid (NI Members continued to get their copies with *Seaways*). In a very special edition we bundled six issues together (issues 25-30) to meet the demand for paper copies internationally without overwhelming distributors with individual copies. Topics covered in 2022 included:

- Pilots and pilot safety;
- Fatigue and fatigue management;
- Ship/shore collaboration.

Virtual Reality and Shiphandling

During 2022 the NI concluded a collaboration with Lloyds Register SafetyTech Accelerator (STA) programme on the use of Virtual Reality to provide low cost easily accessible training in shiphandling.

The proof of concept showed huge potential but also some weaknesses and limitations. Bearing in mind the costs of building and using full mission simulators in maritime training, tetherless VR will be a very affordable and credible gap filler pitched between 2D digital training packages and the ultimate full mission simulators – and increasingly available both at home and on board ship.

A report in May 2022 *Seaways* concluded that this particular project showed huge potential but that the hydrodynamic model needed more development to be credible. The NI will keep an active watch on the potential for VR and its role in the use of simulation for maritime training and education.

OCEAN Project

The NI became partners in an EC funded project for Operator-Centred Enhancement of Awareness in



Navigation (OCEAN). The OCEAN project is focused on enhancing operator awareness in navigation to:

- Reduce the frequency of severe accidents like collision and grounding;
- Mitigate ship-strike risks to marine mammals;
- Mitigate the risk presented by floating obstacles to ships.

This will be a three year project working with leading maritime partners coordinated by the Western Norway University of Applied Sciences. The funding from this project will allow the NI to focus on defining good navigation practices and offering practical feedback into the design of new navigation technology for improving decision making.

ATAG

The Autonomous Technology Advisory Group (ATAG) is a group of NI members who are familiar with evolving technology as developers and users, and who wish to share that knowledge and experience.

In 2022 this group met many times and produced a range of CPD materials, including articles in *Seaways*, a Round Table discussion in July at the AGM and a webinar in October (the latter two events are recorded on the NI website). Further learning material is planned for 2023.

Industry engagement/IMO

The NI continues its involvement with the IMO as a non-governmental organisation (NGO), attending a broad spectrum of meetings to address the wide range of our Members' interests. 2022 saw a return to physical meetings at the IMO in London returning to an increased capacity for meeting content. For at least a year these meetings will be available in hybrid format while the IMO assesses the value of this way of operating. For the NI, the hybrid format has increased ability to participate and network while retaining the option of engaging remote members with specialist technical knowledge.

We attended the meetings of 10 different IMO Committees in 2022. Issues of priority were safety of navigation, the human element, marine autonomous surface ships (MASS), greenhouse gas emissions, training, fatigue, and of course the welfare of seafarers. These issues and meeting notes have been regularly reported in *Seaways*. The Executive Board particularly thanks our IMO Committee Chair Capt Robert McCabe, FNI for his commitment to this work.

The Board also thanks our Immediate Past President Jillian Carson-Jackson, FNI for her commitment to IALA, in particular on the subjects of eNavigation and VTS. The NI continues to engage with many other international organisations with staff and volunteers, operating remotely and in person.

Webinars

During 2022, NIHQ webinars attracted over 10,000 registrants and many thousands more took advantage of the recordings. The most popular subjects were pilot ladder safety, mooring safety and Augmented Reality (AR).

QUALIFICATIONS

ACCREDITATION STATUS

JANUARY 2022 TO DECEMBER 2022



CENTRES

- 81 centres (Americas 18, Asia & Australasia 28, Europe and Africa 35)
- 3 training centres opted out from the scheme
- 2 new training centres: MOL Japan and Lerus Malaysia
- 25 Centres accredited for STR Course



COURSES

- 46 Revalidation Courses
- 5 Shuttle Tanker Courses
- 4 DP Emergency Ship Handling Recognition Courses
- 10 Refresher Courses
- 17 DPVM Scheme



LOGBOOKS

- 3907 DP Offshore logbooks
- 989 DP Revalidation logbooks
- 784 DPVM logbooks
- 39 Ship handling logbooks



TESTREACH ONLINE EXAM ACTIVITY 2022

- 3846 Induction Course online exams at the training centre
- 115 Induction Course remote online exams
- 2252 Simulator Course online exams
- 748 DPVM online exam at training centre
- 69 DPVM Remote online exams
- 217 Revalidation Course exams
- 7247 TestReach online exams during 2022

Dynamic Positioning (DP) Accreditation

Since travel restrictions eased in the second quarter of 2022, the NI accreditation audit team has resumed onsite audits. The team completed 36 audits, including nine online audits where travel was restricted. We approved 12 new DP instructors in 2022, bringing the total number to 174 worldwide. All new instructors were interviewed before issuing the approval to ensure the maintenance of high-quality DP training. Regional Training Providers and Dynamic Positioning Training Executive Group (DPTEG) meetings were conducted online without disruption.

The NI introduced temporary measures to deliver a 'blended' induction course during the global Covid pandemic. A number of training centres requested that the blended solution should remain available when Covid restrictions were lifted. Following working group meetings with our stakeholders, provision for this course is available in the 2022 standards with DPTEG approval.

The Nautical Institute hosted its second face-to-face global regional training providers' meeting in Rio de Janeiro, Brazil. The two-day conference discussed safe DP operations, improvements in training standards and the NI's mandatory CPD Scheme.

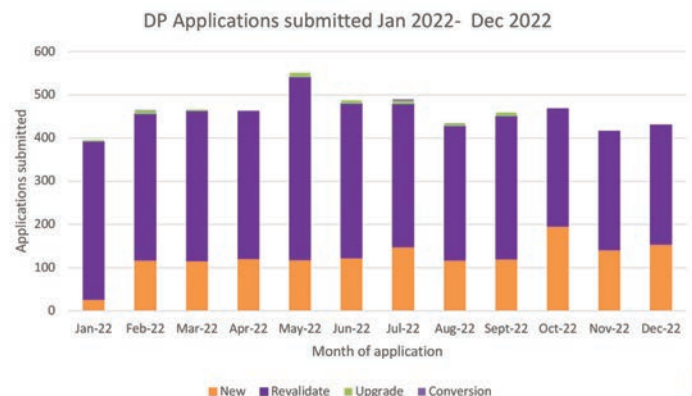
A total of 5,942 DPO applications were processed, including new applications, upgrades and renewals.

The DP Vessel Maintainer Training and Certificate Scheme (Engineers), introduced in 2021, progressed very well in 2022. 1450

DPVM logbooks have been issued since the launch of the scheme, demonstrating its popularity in the industry.

The NI works closely with the Marine Autonomous Systems Regulatory Working Group (MASRWG). A qualification for remote DP station-keeping operations was developed and published in our training and certification standards 2022.

The Nautical Institute's Ballast Control Operator (BCO) Scheme is stable, and we have issued 38 BCO certificates this year.



Recognition and accreditation

The NI provides recognition and accreditation for courses by third party providers delivering maritime professional development programmes in our areas of expertise. In 2022 we:

- Approved 11 new recognised courses;
- Renewed recognition for 59 existing courses;
- Renewed recognition for 2 existing services.

Oil Spill Response

The Oil Spill Response training accreditation scheme continues its growth with three new companies added in 2022. The NI is the only company providing this service internationally and is recognised by the IMO.

Some 5000 certificates were issued in 2022 by NI accredited providers.

2022 saw a return to site visits as Covid restrictions came to an end. Attendance at the 2022 international oil spill conference provided an opportunity to meet with many accredited providers.

The delivery of the NI's Oil Spill Response Organisation services was successfully audited by the MCA in November 2022

Three oil spill responder companies were re-accredited in 2022 to the MCA Standards. This scheme provides an opportunity for growth into 2023 and beyond.



Location of NI accredited Oil Spill Response training companies

EDUCATION AND TRAINING

The short courses developed and delivered by The Nautical Institute continue to be offered under the 'NI Academy' logo and branding.

During the year, the course subjects and the number of course dates continued to grow. This has had a positive effect in terms of income generation. Popularity of the courses is such that it remains a challenge to meet demand with capacity. All courses continue to be delivered virtually and student feedback across the year has confirmed that this is the preferred mode of delivery. Continuous review and development cycles are in place to ensure the NI Academy remains responsive to industry and student needs.

We now deliver the following courses:

- Navigation Assessor Part A & B;
- Onboard Competency Assessment;
- Marine Incident Investigation;
- Blockchain for Maritime Professionals – The Fundamentals;
- Introduction to Shipping;
- Behavioural Competency Assessor;
- Casualty Management Course;
- ISM Lead Auditor;
- ISM Lead Auditor Fishing;

- Marine Insurance;
- Marine Salvage;
- Criminalisation of the Mariner.

Additionally, the following courses are scheduled to reach market by the end of Q2/23:

- DPA;
- DPA (Fish).

To reinforce the credentials of the NI Academy, an application was made to become an accredited Institute of Leadership and Management (ILM) Training Centre. The aim is to gain Level 7 accreditation for the Command and Harbourmaster Schemes, with further rollout to the 'career orientated' courses such as ISM Lead Auditor and DPA. Final approval from the ILM is due in March 23. The development of the Academy will be further enhanced with the creation of post-graduate academic courses, in partnership with an appropriate Higher Education organisation (to be confirmed).

Another key objective for the year was to improve the experience from enrolment to delivery, streamlining the process for students. Maintaining a holistic approach remains key in championing learning and ensuring the NI Academy maintains its high-quality output. Considerable efforts continue to be made in ensuring customer feedback is closely monitored and improvements made where necessary.

These developments included workshop-style interactions, videos and quizzes to complement traditional delivery and the implementation of on-line assessments and exams.

The Self-Study Command Scheme:

The Command Diploma Scheme saw a 24% increase in student numbers in 2022. Significant work has been undertaken in 2022 to accredit the Command Diploma Scheme with an ILM Level 7 – Leadership and Management Qualification. The NI Academy aims to 're-launch' The Command Diploma Scheme with the ILM Accreditation in March 2023.

FINANCE AND STAFFING

In early 2022, the NI re-located its headquarters to an adjacent property at 200B Lambeth Road, while remaining tenants of the Marine Society and Sea Cadets. The physical move was undertaken without incident although the migration of technology, specifically effective internet connections delayed routine occupation until the middle of the year.

Blended working arrangements were introduced to reflect common working principles and while largely successful are being kept under close watch with some adjustments planned from 2023.

The Executive Board maintained its pattern of regular meetings providing close oversight to operational and financial matters as well as progress with the Strategic Plan.

Revenue for 2022 was above budget as activity levels post-Covid remained strong. This was made possible through the diverse range of activities undertaken by the NI and by the huge support given by event sponsors to support our 50th Anniversary engagement. This sponsorship was sometimes in kind, technical and very often financial. The NI is extremely grateful for the confidence key industry leaders have shown in this regard and we look forward to continuing these strong relationships.

The management of the investment portfolio was kept under regular review in what was generally a good market for growth after some uncertainty in the early part of the year. The balanced low-medium risk portfolio invested through Rathbones performed well against market comparators. The solid financial performance enabled a further investment to be made in savings. Careful consideration was given to the investment profile, mindful that the NI has strong cash flow and an ongoing healthy bank balance.

The surplus of £366,375 is a reflection of these circumstances,

though it is expected that a return to physical meetings will result in greatly increased travel costs during 2023 and beyond.

The Reserves policy has proved to be effective and ensures the NI has adequate cover as a going concern.

The Capital Reserve Fund value at year end was £2,868,059, reflecting a total return of -£206,530 for the financial year. During the financial year an additional £500,000 was invested.

The ISO 9002:2015 QM certification audit was held on site. The auditor was impressed by the new premises and the smooth transfer of operations. He noted the ambitious profile of events planned for 2022 and wished the NI every success for the 50th anniversary. No non-conformances were identified, and the auditor was highly appreciative of the running of the quality management processes during the pandemic.

THE NAUTICAL INSTITUTE FOUNDATION

The Nautical Institute Foundation is independent of The Nautical Institute. It is governed by five trustees, three of whom are independent trustees and two who are officials of The Nautical Institute [CEO and the Hon Treasurer]. The Foundation CEO is the only employee currently.

The Foundation's role is to be supportive of Nautical Institute programmes and ethos but plays a unique role in being able to support educational needs for the wider maritime community, not just the needs of NI members. It aims to raise funds from industry participants and other maritime NGOs to develop and deliver its programmes. It has no recourse to permanent funding from the NI itself.

The NI Foundation seeks to engage with industry leaders/partners to identify educational needs and develop learning solutions to meet these needs. Of particular interest at this time is a programme of activities designed to understand and provide visibility of the challenges of leadership today, both at sea and in the office.

The NI Foundation aims to conduct a large cross-industry research study this year to understand the challenges more clearly and on the back of that data develop tools to prepare the industry to thrive once again. The work will lead to improved work styles and reduce the stress being levied on senior leaders, including Masters and Chief Engineers,

energising them for this new world of disruption and change, and helping to address employee attrition in the industry.

The industry survey will throw up many other opportunities for the NIF and NI to develop tools for the shipping community. Working with the wider community is the only way to understand the challenges and opportunities that lie ahead.

Understanding the values of the Foundation is important and readers should read last year's report to remind themselves of those values.

LOOKING AHEAD

The Nautical Institute has developed an exciting and challenging Strategic Plan for the period 2021 to 2026.

Development of membership and increasing our technical contributions to the industry will remain central to our activities and we look forward to the ongoing support and engagement from our community.

List of Trustees:

Mr Peter Hinchliffe FNI (Chair)
 Capt Duncan Telfer FNI (Hon Treasurer)
 Capt Graham Cowling FNI
 Mr Frank Coles FNI
 Capt Zillur Bhuiyan FNI
 Capt John Menezes FNI
 Capt Kuba Szymanski FNI
 Capt Ian Mathison FNI
 Mr Allen Brink FNI
 Mr George Lang FNI
 Mr Moin Ahmed FNI
 Capt Karl Austin FNI
 Capt Ivor Goveas MNI
 Capt Duke Snider FNI
 Ms Deirdre Lane FNI
 Capt Nicholas Nash FNI

All financial results are provisional pending final approval of the accounts.

