Circular Letter No.4025
6 September 2019

To: IMO Member States
     Intergovernmental organizations
     Non-governmental organizations in consultative status

Subject: Blockchain for Maritime Decisionmakers Programme
         (14 and 15 October 2019)

General

1 The Secretariat has invited the Nautical Institute in partnership with Navozyme to deliver their maritime industry specific educational two-day programme titled "Blockchain for Maritime Decisionmakers" (BMD) at IMO Headquarters, 4 Albert Embankment, London, SE1 7SR on 14 and 15 October 2019.

2 The BMD programme's objective is to raise the awareness of maritime leaders of digital transformation issues and specifically the application of blockchain technology in the maritime industry. The programme's larger goal is to equip the global community of maritime changemakers with knowledge, confidence, skills and mindsets that can act as a catalyst to transform and futureproof the maritime industry. For more information, please refer to the draft programme set out in annex 1.

3 The event is open to all IMO Member States and international organizations and will be conducted in English without interpretation.

Registration

4 With a view to facilitating the registration as well as visa applications of those participants who require United Kingdom entry visas, the instructions on registration at IMO meetings and the procedure governing IMO support for visa applications are set out in annexes 2 and 3, respectively.

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Blockchain for Maritime Decisionmakers Programme

IMO EDITION 14TH & 15TH OCTOBER 2019
DEVELOPED BY THE NAUTICAL INSTITUTE IN PARTNERSHIP WITH NAVOZYM
Introduction

The Nautical Institute in partnership with Navozyme have developed a maritime industry specific educational programme titled “Blockchain for Maritime Decisionmakers” (BMD). The BMD Programme’s objective is to raise the awareness of maritime leaders about Digital Transformation issues and specifically about the applications of Blockchain Technology for the maritime industry. The BMD Programme’s larger goal is to equip the global community of maritime changemakers with knowledge, confidence, skills and mindsets that can act as a catalyst to transform and futureproof the maritime industry.

The Programme described in this document has been specifically designed for the IMO and is an adapted and abridged version of the original BMD Programme. The original BMD Programme runs over two full days and has a workshop style format designed for small groups around twenty persons. It is slated to be delivered in Singapore in partnership with the Singapore Management University (19th & 20th September 2019), in London (22nd & 23rd October) and in Barcelona (19th & 20th November). Please click the embedded links to learn more about the original BMD Programme.

Blockchain for Maritime Decisionmakers – IMO Edition

VENUE: IMO London
DATES: 14th (Monday) & 15th (Tuesday) of October 2019

PARTICIPANTS: Open only to IMO’s members (about 150 attendees expected)

FEES AND CONTRIBUTIONS:
There are no fees charged to IMO or its members
- Navozyme
  - bears the speakers’ costs
  - the costs for the design and development of the teaching materials for this Programme.
  - Intellectual Property Rights and Copyright for the materials of this Programme remain with Navozyme.
- IMO
  - contributes by providing the Programme venue.
  - manages the promotion of this Programme to its members and the registration process.
- The Nautical Institute supports this Programme by any or all of the following means as it deems fit;
  - assisting to bring panellists and/or moderating a session, if appropriate
  - dissemination of related information to raise awareness via articles in its own publications

SPEAKERS
(Detailed bios are available in the Appendix):

CONFIRMED
Architect
Anjaney Borwankar (AB) Maritime Blockchain practitioner, Educationist, BMD Programme

CONFIRMED
Designer
Ian Myles (IM) Cyber Security & Digital Identity Expert, Acclaimed Industrial

CONFIRMED
Leonardo Zangrando (LZ) Naval Architect, MBA, Innovation and Maritime Start-up Expert

TENTATIVE
Prof. David Shrier (subject to sponsor availability by 15th September 2019)
Blockchain guru, Cyber Security Expert, MIT & Oxford Professor

PANELISTS to be confirmed by end September 2019
Blockchain for Maritime Decisionmakers Programme
Edition specially designed for

Programme Agenda

Day 1: Monday, 14th October 2019

<table>
<thead>
<tr>
<th>Programme Start</th>
<th>0930h</th>
<th>Welcome remarks by Ms. Heike Deggim, Director - Maritime Safety Division</th>
</tr>
</thead>
</table>
| Session 1: AB   | 0945-1045h | Introduction  
|                 |       | What is Blockchain (BC)  
|                 |       | - Genesis of BC, Brief history  
|                 |       | - How it works- fundamental concepts: the hash, the block, the chain, digital signatures  
|                 |       | - Myths  |
| Session 2: LZ   | 1100-1130h | The Digital Transformation phenomenon and its relation to BC  |
| Session 3: IM   | 1145-1230h | BC Adjacencies: Digital Identity & Cyber Security  |

Lunch Break

| Session 4: AB   | 1430-1545h | BC's Implications for the maritime industry  
|                 |       | - The relevant IMO Instruments  
|                 |       | - E-Certificates, Maritime Single Window, Cyber Security  
|                 |       | - Current Applications  
|                 |       |   - Seafarers Certifications (Philippines example)  
|                 |       |   - Ship Registration (Singapore example)  
|                 |       |   - Port Clearance  |
| Session 5: 1600-1715h | Panel Discussion “Blockchain in the Maritime Industry”  
|                 |       | - Current status of BC in and out of the maritime industry  
|                 |       | - Industry Stakeholders' Voices: Perceived Benefits, Risks & Challenges  |
| Session 6: AB   | 1715-1730h | Debrief  
|                 |       | - Insights from Day 1  
|                 |       | - Assignment for Day 2  |

Day 2: Tuesday, 15th October 2019

| Session 7: AB   | 0930-0945h | Recap of the learnings from Day 1  
|                 |       | Day 2's Objectives  |
| Session 8: IM   | 0945-1015h | Designing for Usability & Adoption  |
| Session 9: LZ   | 1015-1045h | The Digital Transformer’s Toolkit  |
| Session 10: AB  | 1100-1230h | Implementing BC  
|                 |       | - Key considerations (reference to assignment)  
|                 |       | - BC Consortia  
|                 |       | Framework to evaluate maritime BC opportunities  
|                 |       | How to prepare yourself and your organisations  
|                 |       | Wrap Up  |

End of Programme 1230h
Programme Summary

1

Day 1 enables the participant to become aware of the fundamental concepts of Blockchain (BC). Participants would learn to appreciate that BC is a subset of the larger digital transformation phenomenon that could fundamentally change the business models of maritime organisations. Adjacent technologies to BC (related to digital identity and cyber security) are explained. Examples of current maritime BC use cases are described to highlight BC’s direct relevance to the IMO instruments particularly in the areas of E-Certificates, Maritime Single Window and Cyber Security. The panel discussion towards the end aims to bring forth the views of industry leaders about the benefits, risks and challenges brought by BC and digital transformation.

✓ Day 2 builds upon Day 1’s learnings.
✓ It is important for participants to have attended Day 1’s sessions to fully benefit from Day 2.

2

Day 2 focuses on the key aspects of the implementation of BC. A glimpse of the common toolkit for digital transformers is shown and key design principles for ensuring user adoption are highlighted during the presentations. Strategies and key considerations for BC implementations are discussed including BC consortia. A practical framework to evaluate BC related maritime opportunities is shown and some suggestions are given to the participants regarding how they can continue the learning journey for themselves and their organisations.

About Navozyme

Navozyme was setup by maritime professionals in 2017 with the mission to enhance lives of maritime stakeholders via innovative technology solutions that increase safety, productivity and reputation of the global maritime industry. Navozyme is currently leading the world’s first blockchain applications in maritime certifications particularly related to seafarers’ certifications, ship registries and port clearance processes.

Navozyme Pte Ltd is headquartered in Singapore. More information can be found at www.navozyme.com
APPENDIX OF SPEAKERS’ BIOS

For LinkedIn Profiles of the Speakers please click the names below

1. Anjaney Borwankar  ……………..  Page 6
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3. Ian Myles  ………………..  Page 8
4. Prof. David Shrier  ………………..  Page 9
Blockchain for Maritime Decisionmakers Programme

Edition specially designed for

Anjaney Borwankar (PROGRAM DIRECTOR)

Co-founder & Chief Strategist (Navozyme), Co-Chairman of the Digital Economy Committee at EuroCham Singapore, Advisor to IESE Business School and Heywood & Sons

Anjaney Borwankar (Anjan) is a serial entrepreneur and a seasoned business executive with over two decades of management experience with prestigious global organisations such as McKinsey & Company, A.P. Moller (Maersk) and IESE Business School. He is a thought leader on Digital Transformation and Blockchain and a regular speaker at leading conferences worldwide.

Anjan co-founded Navozyme, a Singapore headquartered technology company dedicated to enhancing lives in the maritime sector via proprietary blockchain enabled platforms. Navozyme is leading several transformative blockchain pilots in Europe and Asia.

As Advisor at Heywood & Sons, a European pioneer in Corporate Venture building, Anjan has worked closely on innovation initiatives with Fortune 500 companies to turn technologies and opportunities into 100M+ Euro businesses. Anjan is also the Co-Chairman of the Digital Economy Committee at EuroCham Singapore and an Advisor to the prestigious IESE Business School, the #1 ranked global business school for Executive Education as per the Financial Times.

In 2015 Anjan co-designed along with leadership and innovation guru Professor Paddy Miller, the Digital Mindset program. This program run by IESE is a bestseller programme and still continues to be hosted in New York, Munich and Barcelona.

Anjan has a Blockchain Strategy and FinTech Certification from Oxford University (Said Business School), an MBA from IESE Business School and was the runner’s up prize winner for the President of India’s gold medal at T.S.Rajendra-Chanakya, University of Mumbai where he studied for his Bachelor of Science in Nautical Studies.

Anjaney is a marathon runner, a certified permaculture designer and a regular volunteer to guide public meditation sessions. He is married and has two young sons and resides between Singapore and Barcelona.

https://www.linkedin.com/in/anjaneyborwankar/
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Edition specially designed for

Leonardo Zangrando
Founder and Managing Director, Startup Wharf Ltd., UK

Leonardo Zangrando is a Naval Architect and an MBA with four generations of family tradition in shipping. After a career in Shipbuilding where he spearheaded several innovative ship design and shipbuilding practices, he transitioned to the business side of Shipping and Logistics where he managed acquisitions and operational re-organisations of port container terminals.

Since 2009 he has contributed to the development of the Lean Startup culture for digital entrepreneurship and digital innovation in large organisations. Mr. Zangrando designed a hands-on training methodology for startups to learn-by-doing the startup development process, and developed blended learning material currently used by major Italian Bank Intesa Sanpaolo in their startup incubator Officine Formative.

He also redesigned and project managed the overall conversion of a logistics facility involving £20m investment, change of technology and processes, with operations running 24/7. Achieved 90% increase in capacity and 50% increase in turnaround time.

With an aim to build a global network of local accelerators to bring global exposure to maritime startups, he launched the first Startup Accelerator for the Maritime sector in London, to help maritime organisations get up-to-speed in startup-driven innovation, bring an entrepreneurial mindset to the leaders and help them benefit from the interaction with startups as source of innovation and competitive advantage.
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Ian J Myles
Designer, Developer, Entrepreneur, Educator

A native of Scotland and having started professional life in Industrial Design & Technology, Ian has lived & worked in London, Singapore, Silicon Valley. With a proven track record in commercially viable innovation across industries, he has much international experience with start-ups and Fortune 500 Companies.

After 20 years in California, the last 6 in Mobile Payments / FinTech & I.o.T. he has more recently been Head of Payments at SingTel, Singapore and incubated in-house mobile payments solutions for JPMorgan CHASE, above a bank branch in Silicon Valley. Ian has also been Funded by Citibank Ventures Palo Alto to build NFC wallets from scratch, designed & built ATM’s for Disney, designed, built and shipped kids phone from scratch also for Disney.

His design work has won 4 IDSA awards, & several patents. Ian also ran an advanced concept facility for Motorola in San Francisco, pushing integration across disciplines - antenna’s, mechanical, electrical & electronic engineering, Industrial Design, User interface & UX, Content and USABILITY - believing the latter to be the key to everything.

A busy public speaker, Ian is currently exploring a renewed interest in education and hosting conferences on IDENTITY & Artificial Intelligence.
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Edition specially designed for

IMO
INTERNATIONAL MARITIME ORGANIZATION

Professor
DAVID SHRIER

www.VisionaryFuture.com
NEW Book to be published in November 2019

David Shrier is a globally recognized authority on financial innovation, working with entrepreneurs, corporate innovators, and governments around the world to build a new financial system. He has published multiple books on blockchain, fintech, and cybersecurity.

David created and leads the University of Oxford's online programme Oxford Blockchain Strategy, a revolutionary approach to accelerating new blockchain ideas in a distributed digital environment. He also is Program Director for Oxford Fintech online, Oxford’s Leadership & Diversity for Regulators and Oxford Fintech Lab. Previously, he created MIT’s Future Commerce (the first graduate fintech class in North America) and MIT’s Big Data & Social Analytics. This portfolio of programs facilitates entrepreneurial action by engaging more than 13,000 innovators in over 120 countries to build the new financial ecosystem. David’s current academic appointments include Associate Fellow with the Said Business School, University of Oxford and Lecturer at the MIT Media Lab.

His advisory portfolio includes helping the Commonwealth of Nations (the 53 countries formerly comprising the British Empire) on understanding how to shape policy that support blockchain and fintech. He previously has advised the Government of Dubai on blockchain and digital identity, the OECD, on blockchain policy and standards, particularly with respect to distributed digital identity; Ripple, a blockchain cross border payments company, on regulatory strategy, and the European Commission on commercializing innovation with a focus on digital technology.

More broadly in his corporate advisory practice, David specializes in helping established organizations to build new revenue and new markets, particularly through the understanding and application of disruptive and revolutionary technologies like distributed ledgers. He has developed 58.5 billion of growth opportunities with C-suite executives for Dan & Bradstreet, Wolters Kluwer, Ernst & Young, The Massachusetts Institute of Technology, GE/NBC, The Walt Disney Company, AOL Verizon, and Stanwood, as well as private equity and VC firms. He has led a number of private equity and venture capital-backed companies as CEO, CFO or CDO, in either interim or full-time capacities. David presently is involved with multiple AI-enabled businesses.

David is a member of the FinTech Industry Committee for FINRA, the U.S. securities industry’s self-regulatory body, and on the Fintech Trade & Investment Steering Board for the UK Government’s Department of International Trade. He also informally engages with the European Parliament, European Commission, OECD, Bank of England, FCA, SEC, US Treasury, and FIDC on innovation, cybersecurity, digital identity, blockchain, and AI. David is on the advisory board of WorldQuant University, a program offering totally-free, accredited, online master’s degrees in financial engineering.

David has been published in Forbes, Newsweek and CNBC.com, and also co-edited, together with Professor Portland, The Connection Science Impact of MIT Press. He was named 2018 Global Fintech Person of the Year by Fintech Galaxy, and listed on One World Identity’s Top 100 People for both 2017 and 2019.

David Shrier was granted an Sc.B. from Brown University in Biology and Theatre, and worked professionally as a dramaturg and director after college.

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ANNEX 2

REGISTRATION AT IMO MEETINGS

Registration

Member Governments, UN Agencies, IGOs and NGOs are required to provide, prior to the meeting date, the names of all the members of their delegations attending the meeting via the Online Meeting Registration System (OMRS), as advised in Circular Letter No.3463 of 14 July 2014. This facilitates both their entry into the building and the production of the list of participants by the Secretariat.

Once they have completed the registration procedure, delegates will be issued at IMO with an electronic access card to pass through the security barrier and access the IMO building. Issue of the access card will require photographic proof of identity, e.g. passport, identity card or driving licence. Delegates may also be required to show proof of identity at any time while they are in the Headquarters building, if requested by IMO Security. In view of the significant costs incurred in producing access cards, delegates who have previously been issued with one are kindly requested to bring it with them for reactivation.

Any matters relating to the use of the OMRS should be communicated to:

Registration Unit  
Meeting Services and Interpretation Section  
Email: onlineregistration@imo.org

Members of delegations will not be registered to attend the meeting without authorization from their OMRS Delegation Coordinator. New delegates whose names appear in the OMRS will be issued with the above-mentioned access card. Delegates whose names do not appear on the OMRS list will be requested to contact their OMRS Delegation Coordinator in order to process their authorization to attend the meeting.

Delegates are advised that the Registration Desk will be open from 8.30 a.m. on Monday, 14 October 2019, when early arrival would be appreciated.

General information on administrative and housekeeping issues relating to meetings at IMO may be found in an information leaflet for delegates, which can be downloaded from IMODOCS and is also available at the Documents and Meeting Services counters on the ground floor and second floor, respectively. Delegates are kindly requested to familiarize themselves with the contents of the information leaflet.

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ANNEX 3

PROCEDURE GOVERNING IMO SUPPORT FOR VISA APPLICATIONS

As established in article 7.2 of part III on Access and communications of the Headquarters Agreement, delegates are entitled to have their entry into the United Kingdom authorized without delay and without charge.

Delegates invited by the Organization who require United Kingdom entry visas should, in the first instance, apply online for an "EXEMPT" visa, note the reference numbers and follow the online instructions to attend either the nominated Visa Application Centre or the United Kingdom Embassy or High Commission. United Kingdom visa applications should be accompanied by the following documentation:

i. the relevant IMO official invitation,
ii. the nomination letter and
iii. a note verbale from the Ministry of Foreign Affairs.

Delegates must be nominated by their competent Ministry (usually the Ministry of Transport or the National Maritime Administration). The nomination letter should be taken to the Ministry of Foreign Affairs for preparation of a note verbale addressed to the British Embassy/High Commission.

If, after following the above-mentioned procedure, delegates still encounter visa problems, either the Ministry of Foreign Affairs, the Ministry of Transport, the National Maritime Administration or the competent Ministry should request visa assistance in writing to the Head of the IMO External Relations Office, on paper bearing the official letterhead. The letter should state the reasons given by the British Embassy/High Commission as to why visas have been or may be refused and contain the following details:

i. First name:
   Family name:
   Profession:
   Date of birth:
   Place of birth:
   Type of passport:
   Passport No:
   Place of issue:
   Date of issue:
   Valid until:
   Visa reference number:
   Date and place of visa application:

ii. Purpose of visit:

iii. Duration of anticipated stay in the United Kingdom:

This exercise must be undertaken at least six weeks before the date on which the session begins, to enable the Organization to support the visa application accordingly and the visa to be issued in good time.

Any requests for visa assistance should be communicated to:

External Relations Office (International Maritime Organization)
Fax: +44(0)20 7587 3210
Email: visa@imo.org

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