

ROYAL INSTITUTION OF NAVAL ARCHITECTS

Minutes of Maritime Innovation Committee Meeting

held on 20 March 2018

1 MEMBERS

1.1 PRESENT

David Andrews	DAn
Maurizio Collu	MCo (<i>Tele-conference</i>)
Paul Crossland	PCr
Stuart Hunt	SHu
Simon Jones	SJo (acting as Chair)
George Mermeris	GMe
Karl Monk	KMo
Duncan Peace	DPe (<i>Tele-conference</i>)
Holly Phillips	HPh (<i>Tele-conference</i>)
Jin Wang	JWa

Giuseppe Gigantesco	GGi (<i>Secretary</i>)
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1.2 APOLOGIES

Bob Cripps	BCr (<i>Chairman</i>)
David Connolly	DCo
Michael Fan	MFa
Gordon Jackson	GJa
Raouf Kattan	RKa
Steven Lee	SLe
Matt Lewin	MLe
Richard Neasham	RNe
Edwin Pang	EPa (<i>Chair IMO Committee</i>)
Bengt Sangberg	BSa
Erik Tvedt	ETv
Ajit Sheno	ASh
Richard Westgarth	RWe
Philip Wilson	PWi

2. MINUTES OF THE PREVIOUS MEETING – 16th JANUARY 2018

2.1 The minutes of the previous meeting were accepted as a true and accurate record.

3. DISCUSSION BY THE GROUPS ON EACH TOPIC/THEME

3.1 The various Groups had e-mailed a power-point presentation to **GGi** before the meeting. These documents will be attached to the minutes.

3.2 “*Design and Manufacturing*” was presented by **SJo**.

3.3 “*Materials and Coatings*” was presented by **SJo**.

3.4 “*Hydrodynamics and Propulsors*” was presented by **PCr**.

3.5 “*Power Generation and Energy Management*” (in excel format) provided by **DCo** was presented by **PCr**.

3.6 “*Operations, Maintenance and Training*” was presented by **SHu**.

3.7 “*Safety and Environment incl. Human Factor and Legislation*” was presented by **SHu**.

3.8 “*Autonomy, Data, Digital and Cyber*” was presented by **DPe**.

3.9 “*Business and Economics*” (in excel format) was decided to be developed at the next stage.

3.10 **KMo** suggested that the information presented should be consolidated in more diagrammatic way. The original spreadsheet document included a rating order describing the potential size of impact, but this is not visible in the power-point presentations. The diagram should illustrate the potential benefit of each technology, potential exploitation timescales, and how the technologies relate to the innovation themes and each other.

3.11 All groups are to update the presentations to address any feedback raised in the meeting and send final versions to **BCr** by end of April for review prior to release on RINA website (see 4.2).

3.12 Power Generation and Energy Management presentation slides to be completed by **DCo** by end of April.

4 PROPOSED NEXT STEPS

4.1 The Committee had a discussion about the next steps. It was also proposed the involvement of other professional Institutions like the IEE.

4.2 **TBI** was asked to set up a page on the RINA website for each of the *Maritime Innovation* themes such that the presentations could be uploaded initially and further information such as technology watch information, links to useful information etc could be added over time. Each page should have a discussion forum to allow members to interact with the committee.

Action: {**TBI**}

4.3 **SHu** offered to prepare a first draft of the general diagram.

Action: {**SHu**}

4.4 **BCr** would then be asked to prepare a *summary* paper that would also include the general diagram and ways for readers to interact with the Committee.

Action: {**BCr**}

4.5 **GGi** will arrange for a space to be reserved in *The Naval Architect* journal (*June 2018 issue*) for this Committee's paper.

Action: {**GGi**}

5 COMMUNICATION TO MEMBERS

5.1 It was discussed the possible ways of engaging with the membership.

5.2 Once the *Maritime Innovation* information is ready it will be made visible through:

- RINA website
- Conference themes
- Workshops should be arranged on key technology areas
- Announcements at RINA branch meetings
- LinkedIn posts & other social media

Members will be able to interact using:

- The discussion forum
- Potentially a webinar session
- RINA Branch meetings if committee members are willing to present at their local meeting

6 Any Other Business

6.1 **HPh** suggested that representatives from local branches should be asked how they would like to be interact with RINA related to technical Committees work.

7 Dates of next meetings

7.1 The dates of the meetings for 2018 were agreed as follows:

- M3/18 – 10 07 18
- M4/18 – 09 10 18

8 ACTIONS ARISING

- Action 1/18** (Para. 9.2 meeting 26/01/17) (**All**) to provide **BCr** with documents relevant to this Committee to be posted on the MIC Group page on the RINA website.
Ongoing
- Action 2/18** (Para. 4.2 meeting 22/03/17) (**TBI**) to update the Committee's TOR.
Ongoing
- Action 4/18** (Para. 4.7 Meeting 24/05/17) (**All**) each group to complete the template and produce a short description outlining the theme.
Ongoing
- Action 7/18** (Para 6.1 Meeting 17/10/17) (**TBI**) to confirm MIC members future availability.
Ongoing
- Action 8/18** (Para 4.2 Meeting 20/03/17) (**TBI**) to set up an area on the RINA web for each of the *Maritime Innovation* themes.
Arising
- Action 9/18** (Para 4.3 Meeting 20/03/17) (**SHu**) to prepare a draft of the general diagram.
Arising
- Action 10/18** (Para 4.4 Meeting 20/03/17) (**BCr**) to prepare a *summary* paper.
Arising
- Action 11/18** (Para 4.5 Meeting 20/03/17) (**GGi**) to book a space in *The Naval Architect* journal (*June 2018 issue*) for the *Maritime Innovation* paper.
Arising