

BeNeLux
Branch



Technical Meeting

Battery developments for maritime applications

Speakers: Jos van der Burgt ([DNV](#)) and Ronald Dingemans ([RH Marine](#))
Date: Tuesday the 8th of June 2021
Time: 18:45 – 21:15
Venue: [Online](#). "Log In" details and instructions are given below
Contact: IMarESTBeNeLux@gmail.com

Dear member or friend,

You are hereby cordially invited to join the coming **online** Technical Meeting of the IMarEST BeNeLux Branch. Details of the programme and additional "log-in" information can be found below. Your attendance to this Technical Meeting will be much appreciated. I look forward to seeing you **online** on the 8th of June. The digital meeting room will be open from 18:45 onward. The lecture will start at 19:00.

Registration is not required this time. There is no additional fee for refreshments for non-members of IMarEST. However, if you are not a member yet, and you do regularly attend our lectures, please consider joining.

Combined membership KIVI and IMarEST: [link](#)
For more information on joining IMarEST: [membership link](#)
Free membership for students: [student membership link](#)

Thank you in advance.

Yours sincerely,
Erik-Jan Boonen – Honorary Secretary IMarEST Benelux Branch.

Detailed Programme

18:45 Digital meeting Room Open
19:00 Welcome by Chairman
19:05 Part 1 – Jos van der Burgt – Lion Battery technology
19:50 Q+A 1
20:05 Short break
20:15 Part 2 – Ronald Dingemans – Maritime applications
21:00 Q+A 2 & Discussion
21:15 Closure



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Event description

Battery developments seem to go very fast and therefore it is sometimes considered hard to keep up and understand the pros and cons of specific battery types and technologies. Unfortunately, clear performance indicators to compare batteries of different types and suppliers in the light of the intended (maritime) application are not well defined or not well adhered to. In this technical lecture the technical backgrounds of specific types of batteries are discussed by Jos van der Burgt of DNV. Subsequently the implementation of batteries in hybrid vessels is discussed by Ronald Dingemans of RH Marine, showing how a vessel's operations affects the selection of battery systems.

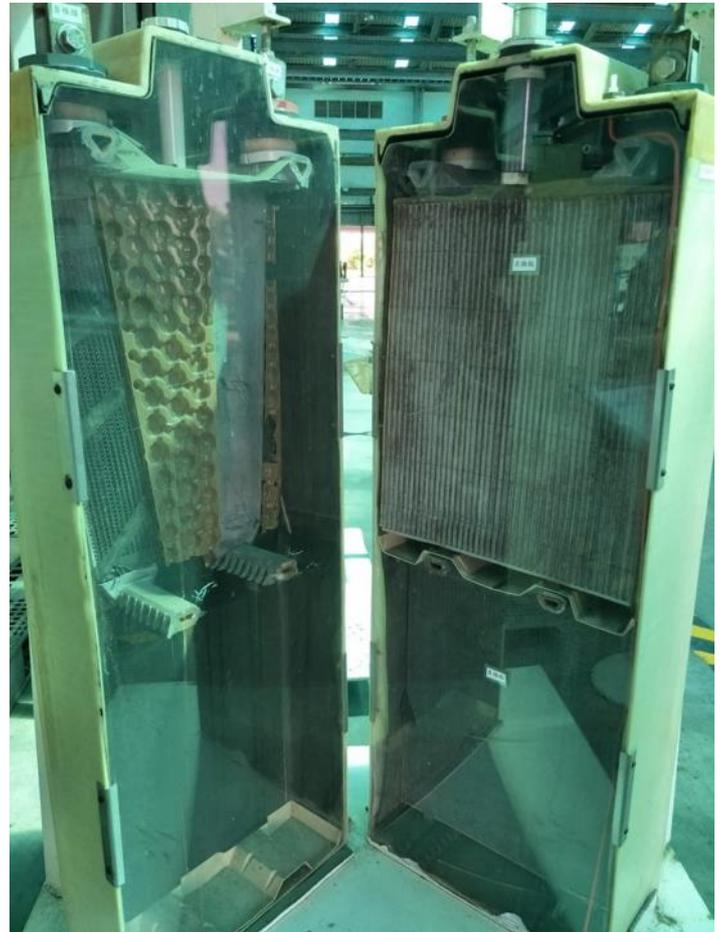


Figure 1: submarine batteries

About the speakers

Jos van der Burgt

Jos van der Burgt has over 25 years of experience in project management, advisory services and research & innovation in the area of electric power networks, ranging from public grids to microgrids, electric vehicles and electric ships. His expertise lies in the field of integration of renewable energy sources, electrical energy storage and smart grids. In his work he strives for a balance between technical requirements, economical aspects and user needs. He collaborates with the electricity sector, governments, the ship building industry and the automotive industry and is actively participating in national and international standardisation working groups, like CIGRÉ, IEEE and IEC. He is a member of IEC TC120 “Electrical Energy Storage Systems” and was a major contributor to DNV GL’s recommended practice ‘GRIDSTOR’ on Safety, operation and performance of grid-connected energy storage systems.

Before joining DNV in 2007, he worked at ‘TNO Defence, Security and Safety’ in the field of electric ships and vehicles. And before that, he was a teacher/researcher at the Netherlands Defence Academy, Den Helder. Jos van der Burgt studied Electric Power Engineering at Eindhoven University of Technology (NL) – M.Sc. 1991, Ph.D. 1996.

Ronald Dingemans

Ronald Dingemans is working in the field of marine electrical engineering and automation for 40 years, various roles. Currently, he is a senior consultant at RH Marine Netherlands and Bakker Sliedrecht. His expertise is in AC and DC power generation and distribution systems for all kinds of vessels. He is involved in the concept design, basic design and realisation of systems for a wide range of (naval) vessels. He has worked in Germany, the UK and Canada. He has a keen interest in batteries and fuel cells, and in ‘all electric ship’ concepts. He has been actively participating in NATO studies and the Lloyd’s Electrical Focal Group. He is a part-time teacher at the University of Applied Science ‘Hogeschool Rotterdam’ and ‘HBO Drechtsteden’. Ronald studied Power Electronics at the ‘HTS Dordrecht’, BSc 1981.

Instructions for logging in

For this occasion, use will be made of the TU Delft online lecture platform, which is being used daily by thousands of students and lecturers. Instructions on the web-based platform are given at:

<https://bongolearn.zendesk.com/hc/en-us/articles/360035692233-How-to-Check-Your-System-Before-Entering-Virtual-Classroom>

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