



RINA WESTERN BULLETIN

Technical Meeting: Two Presentations

Wednesday, 14 March, 17:30 refreshments, 18:00 start
Engineers Australia - Auditorium,
712 Murray Street, West Perth

Designing for Squalls Offshore Australia & Management of Shipbuilding Projects

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Designing for Squalls – A Novel Approach to Squall Database Development

Alessio Mariani
Metocean Engineer, Woodside

Abstract

Squalls can be a challenge for designers of weather vaning offshore facilities such as turret moored FPSOs. Squall winds increase and decrease rapidly and are often associated with wind directional shifts. The resulting sudden loads are often governing for FPSO mooring systems design.

This presentation will provide insights into the development of a synthetic squall database covering 63 years, and combining direct wind measurements with weather balloon observations and historical maximum wind gusts. The squall database was a key input into mooring Response Based Analysis of a turret moored FPSO located offshore North Western Australia.

About the Presenter

Alessio obtained Master's degree in Ocean and Environmental Engineering from Ecole Centrale Nantes, France and Politecnico of Milan, Italy. Prior to joining Woodside, he worked for 8 years as Coastal Engineer at the Water Research Laboratory of the University of New South Wales.

Since 2015, as Woodside Metocean Engineer, Alessio is metocean lead for Subsea developments (GED, GWF-2, Julimar), NWS metocean measurements and Myanmar exploration activities. Along the way, Alessio was awarded a Churchill Fellowship for professional achievements in coastal engineering and wrote a chapter of the Engineers Australia Climate Change Guidelines.

NEWS & Upcoming Events

Attention of RINA Members outside Perth metropolitan area

Members based outside Perth metropolitan area who can't attend WA Section technical meetings for various reasons, please contact the Secretary: WA@rina.org.uk

WA Section Committee would like to know if we can help you with attending the Section meetings or organizing special meetings at your location.

WA Section Committee

Committee encourages all who have interest in joining or would like to know more about the Committee activities to contact the Committee for further information: WA@rina.org.uk

WA Section LinkedIn Page

Linked-in page: The Royal Institution of Naval Architects – WA Section. All members are encouraged to follow!

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Back to Basics – The Critical Path Method in Ship Building Projects

Trevor Rabey
Perfect Project Planning

Abstract

To quote the Fisher Maritime website, "*Training for project preparation and project management is rarely formally addressed in the education of maritime industry personnel*", including naval architects. Naval architecture training and education, and nearly all of the work in naval architecture, is dominated by the engineering design aspects. However, we all know that effective project management, which includes project controls, planning, scheduling, budgeting, tracking and reporting, is essential for any ship building project, as well as for all of the other kinds. Project management is as much a part of the naval architect's responsibility as the technical design aspects.

This presentation is about the Critical Path Method (CPM), a foundation concept in project management. Engineers have had some exposure to CPM in their education, but this is usually a limited exposure. There is a tendency to rely on an intuitive appreciation and understanding of CPM, and leave the details to the scheduling experts. For the purposes of using the CPM effectively in project management, and realizing the potential benefits, it is essential to go beyond an intuitive appreciation and understanding, towards a thorough and precise definition and description of CPM. There is a reliance on effective and productive use of software tools. An appreciation and an understanding of CPM are essential in any situation involving the use of common software tools such as Microsoft PROJECT and Primavera P6.

This presentation will start at the very beginning and then revise, summarize and distil a large topic down to the basics, the essential theory and its practical application, and will address all of the salient issues

About the Presenter

Trevor Rabey, BEng (Naval Architecture), is an engineer, consultant and trainer with extensive Project Management experience. Trevor's diverse work history spans across a broad range and variety of industries including Ship Building, Engineering, Construction, Mining, Defence and IT.

Trevor has helped hundreds of people to plan and organise their projects and use their software tools better. Trevor is a qualified and passionate trainer and has taught Project Management, Critical Path Method and the use of software tools at UNSW, USyd, NSW TAFE, WA TAFE, UWA and Curtin University, and conducted Project Management workshops for the many organizations such as the Master Builders Association WA and the Project Management Institute WA.

RINA News & Events

Annual General Meeting of WA Section & Next Technical Meeting

Annual General Meeting of WA Section and next technical meeting will take place on May 23rd, 2018. Program will be advised in the Western Bulletin and via the Linked-in page.

Future Technical Presentations

WA Section is inviting proposals from members, industry professionals and academia for new papers and presentations at the future technical meetings. Please contact us via e-mail: WA@rina.org.uk.

The Australian Naval Architect

All members are welcome to provide any industry updates for the Australian Naval Architect including people movements, new projects, current project updates and articles. Please send any updates to Tim: tim@perthhydro.com

RINA WA Section Library

The library will be moved to the new premises and be easily available to all interested. In meanwhile, contact Mal Waugh, Tel: 08 9591 9600, when you require any library material.

IMarEST News & Events

Next meeting of IMarEST WA Branch will be held on the 18th of April 2018, at Flying Angel Club, Fremantle, commencing with refreshments at 17.30 for 18.00 to start. The meeting topic: *Floating LNG Facilities*.

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