



Technical Webinar

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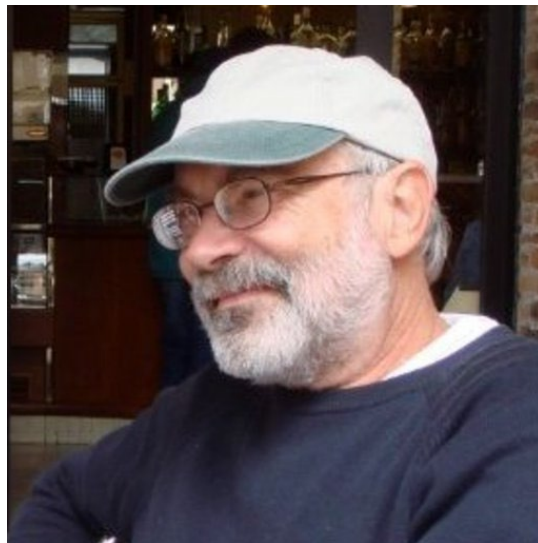
The Joint Branch of the RINA and IMarEST (Singapore)

The Society of Naval Architects and Marine Engineers Singapore

Singapore Shipping Association

Jewel of Muscat: Discovery, documentation, design, sailing

by



Prof. Tom Vosmer,

BA, MA, MFA, PhD

Adjunct Associate Professor at the University of Western Australia



Dr. Kim Peter Klaka
BSc(Hons)(Soton), CerL Ed,
Former Director of Curtin University marine research centre

Date : 27 October 2022
Time : The webinar will begin at 5:30 pm and end at 7.00 pm (SGT)

To register your attendance, please click the web-link below:

<https://www.eventbrite.com/e/webinar-jewel-of-muscat-discovery-documentation-design-sailing-tickets-439362183117>

Please, note this webinar is open to our members and guests. For the benefit of those who had pre-registered, please, do not share the access link further after registration. Log in time starts 30 minutes before the event.



Synopsis

The 9th-century Belitung shipwreck, discovered in 1998 off the island of Belitung, Indonesia, was the first sewn-plank vessel discovered in the greater Indian Ocean and provided the opportunity to recreate a vessel based on the remains of the shipwreck.

Combining the Interpretation of the shipwreck, ethnographic information, and with a nod to principles of naval architecture a design was created, a model of which was tested in the towing tank and wind tunnel at the University of Southampton. Some modifications in hull form and rig were made as a result. Materials were sourced, seeking to replicate as closely as possible the materials identified from the wrecksite. The construction, implemented using (in most cases) 9th-century methods, was documented in minute detail.

The launching was conducted off the beach without a slipway, requiring a different approach from standard naval architecture launching calculations.

The ship, which took a year to build, successfully sailed from Oman to Singapore, over a period of four months, with 66 days at sea, traveling approximately 3600 nautical miles.

About the Speaker

Prof. Tom Vosmer

A research associate at the Western Australian Museum, and adjunct professor at the University of Western Australia, Tom is a maritime archaeologist specialising in medieval Indian Ocean shipping. He has decades of experience researching, documenting and reconstructing ancient and primitive watercraft, being involved in Oman in the construction and sailing of two medieval sewn-plank vessels which were successfully sailed to China and Singapore, as well as reconstructions of a 15th-century BCE Egyptian vessel, a 1300 BCE Greek rowing galley, and four experimental 3rd millennium BCE reed-built vessels. Tom has done maritime archaeological excavation and ethnographic research in Oman, Egypt, India, the Maldives, Sri Lanka, the Emirates, Qatar, Thailand, the Philippines and Australia.



Dr. Kim Peter Klaka

Kim Klaka is a naval architect with more than 30 years of experience in naval architecture research. He holds a Masters degree and a Doctorate in sailing yacht performance, and was the Director of the Centre for Marine Science and Technology at Curtin University, Perth. He was also the Regional Manager of the Australian Maritime Engineering Cooperative Research Centre, the founding Chair of the WA Section of RINA, and founding editor of The Australian Naval Architect journal.

Further details can be found at <https://klakamarine.org/>