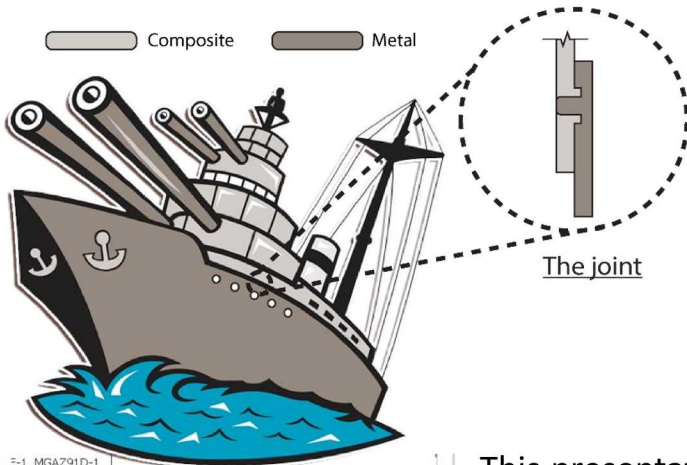


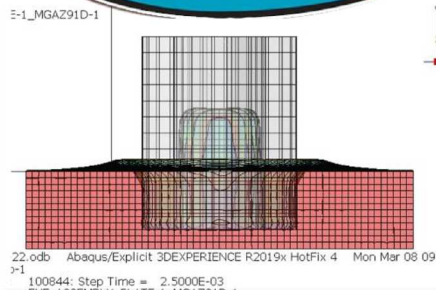
Wednesday 20th December 2023, 18:30-19:30 – Via Zoom (Register online)

Eastern Counties Branch Presents

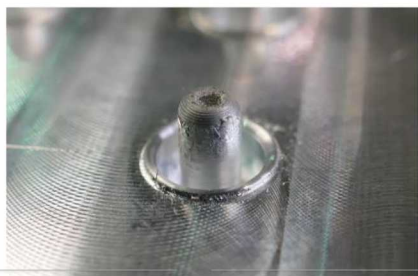
Composite-to-metal joining for naval vessels



Joining technology plays a critical part in shipbuilding industry and have significant impacts on many aspects, such as weight, assembly/disassembly, emissions, etc. New materials are desired for weight reduction and this involves both new manufacturing techniques and new alternative joining technologies to welding or bolting.

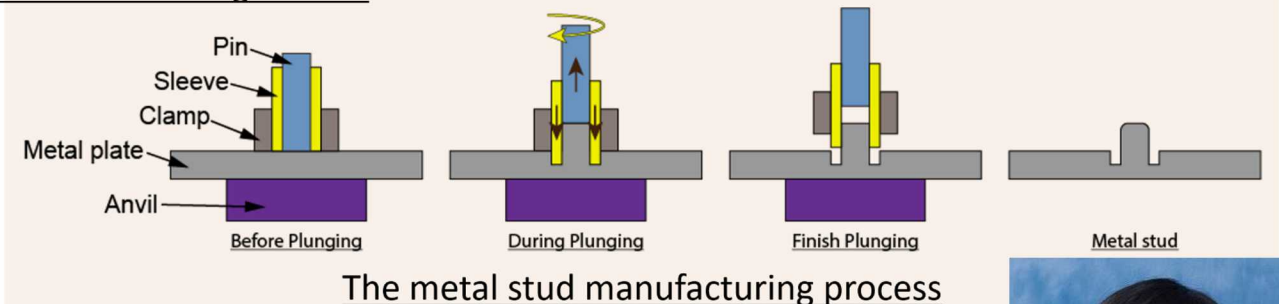


This presentation will introduce the innovative design of a composite-metal joint, encompassing aspects such as joint design, manufacturing methodology, experimental results, simulations, and an examination of both advantages and limitations, of the joint being developed in Man Chi Cheung's Ph.D. project.



Metal Stud Forming Process

The presentation will conclude by offering insights into ongoing research endeavours and potential advancements. The overarching aim is to foster collaboration and facilitate the exchange of knowledge among participants, thereby enhancing collective understanding in the field.



Speaker: Man Chi Cheung is a final year PhD candidate at Brunel University London and her research focuses on the designing of a novel composite-to-metal joint. She is also currently a composite engineer at TWI Ltd. Prior to her PhD, Man Chi holds an MSc in Oil and Gas Engineering from Brunel University London, where she conducted research that focused on the structural integrity of composite structures.

