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Singapore Maritime Academy  
SINGAPORE POLYTECHNIC



Centre for Offshore Research  
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## Technical Talk

Organised by

The Society of Naval Architects and Marine Engineers Singapore (SNAMES)

The Joint Branch of the RINA and the IMarEST (Singapore)

Singapore Maritime Academy (SMA), Singapore Polytechnic

Centre for Offshore Research & Engineering (CORE), NUS

## Why is Technology Important for Society and how should we Educate and Train of Future Engineers?

By



**Peter G. Noble,  
Past President SNAMES  
Vice President IMarEST**

**Date :** 16<sup>th</sup> May 2017, Tuesday  
**Time :** 6:30 pm to 7:00 pm Registration & Refreshment  
Talk begins at 7:00 p.m. and ends at 8.00 p.m.  
**Venue:** LT18A, Singapore Polytechnic  
500 Dover Rd, 139651



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## Abstract

We live in a world where engineering and technology are essential for human life. In the developed world we are provided with food, water, energy, communications, health and recreation, all through the existence of advanced technologies, while even in the developing world technologies which pre-date the scientific era make human existence possible.

Unfortunately over the past century or more there has been a growing confusion between science and technology. This confusion has led to a generally held opinion that science is a high calling and that engineering is simple the practical application of science. Nothing could be further from the truth!

In the first part of the talk, the author will show that engineering and technology are not “children of science”, but rather the progenitors of it.

The difference is perhaps best described by paraphrasing the words of Theo von Karman, “Engineering creates - Science discovers;”

Having established the importance of engineering in supporting our civilized life, the talk will also focus on how we sustain the creation of new technologies through attracting, training and educating more young persons in the engineering profession.

This part of the talk will focus on re-establishing the link between hand and brain, which is a critical attribute of creative engineers, or as Professor William John MacQuorn Rankine emphasized “the importance of mutual dependence and harmony between sound theory and good practice”.

Of course this is not exactly a new concept, particularly in this part of the world.

*What I hear, I forget; What I see, I remember; What I do, I understand.*

- Confucius



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## About the Speaker

Peter Noble received his education in naval architecture at the University of Glasgow while also training as a student apprentice at Denny's Shipyard, in Dumbarton, Scotland.

He has a wide range of experience in the international marine and offshore industries, with a particular interest in frontier offshore sectors including deep-water and the Arctic. His career has included positions with shipyards; ship and offshore design consultants; offshore and marine research and development companies; major classification societies and an international oil company.

Since his retirement from full time employment has offered consulting services to clients in the offshore and marine sectors and has worked part-time as a technology consultant for Keppel Offshore & Marine.

He maintains a strong interest in the education and training of engineers, serving on a number of university advisory boards. Peter is also the current chair of Lloyd's Register Offshore Committee.

He is a Fellow a number of learned societies including the Society of Naval Architects and Marine Engineers, the Institution of Marine Engineering, Science and Technology, the Society for Underwater Technology and the Canadian Academy of Engineering. He has published widely and has received a number of awards, including the OTC Distinguished Achievement Award for Individuals and the SNAME Land Medal.

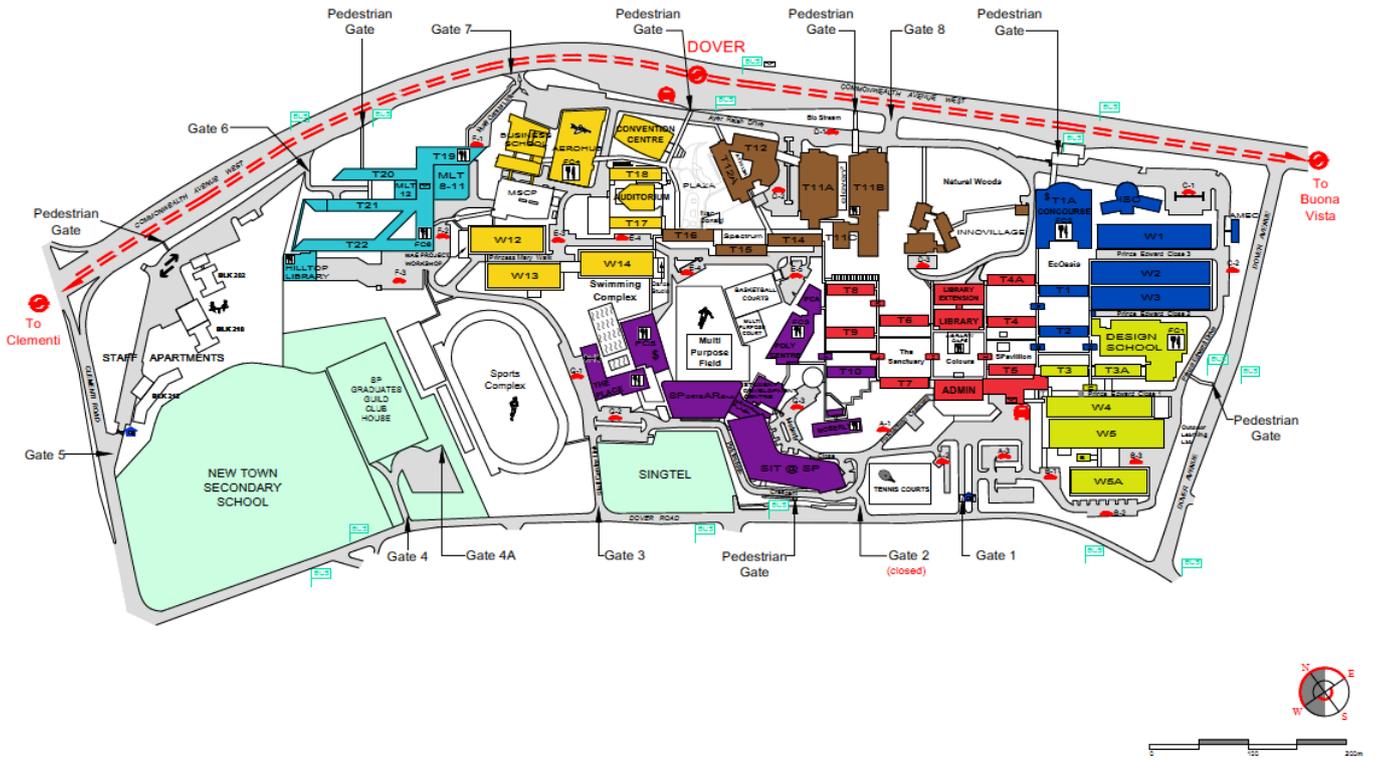


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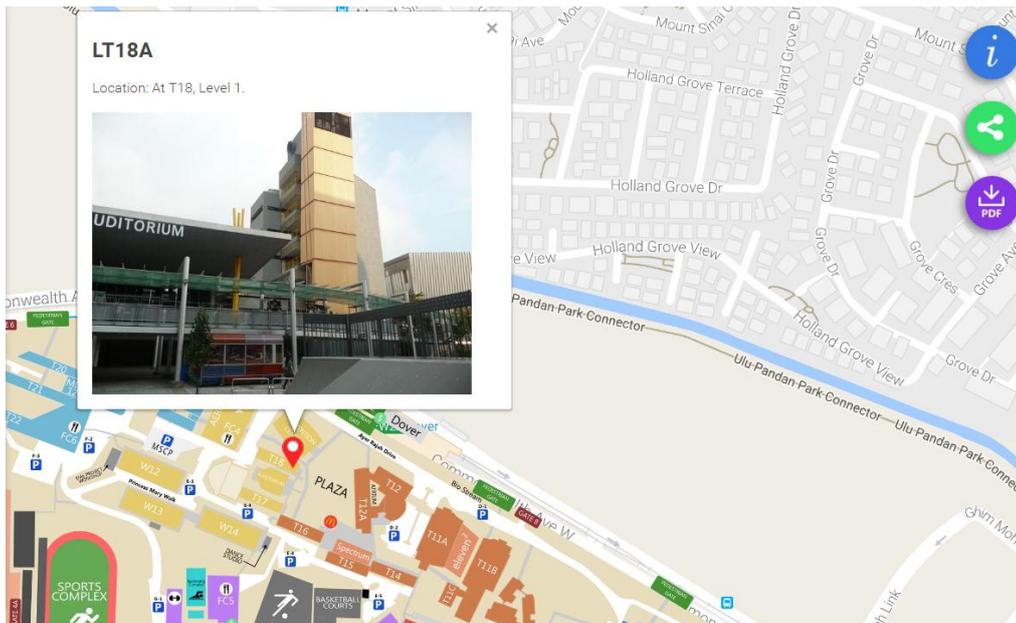
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## Location Map



## SINGAPORE POLYTECHNIC CAMPUS

Website: [www.sp.edu.sg](http://www.sp.edu.sg) Main Line : 6775 1133 Mar 2017



**All members are welcome and admission is free  
but early registration is needed.  
No filming or walk-in guest is allowed for this event.**