



**NUS**  
National University  
of Singapore

**iHealthtech**  
Institute for Health Innovation  
& Technology

# "Innovating Health" Distinguished Speaker Seminar Series

## Professor Nigel Lovell

Scientia Professor and Head  
Graduate School of Biomedical Engineering,  
UNSW Sydney, Australia



## Medtech Translation from Unmet Clinical Need to Co-Designed Solutions

**29 AUG 2025, FRI, 4 PM - 5 PM**

**NUS, College of Design and Engineering, Building E7, Level 3, Seminar Room 4**

**Hosted by: Professor Lim Chwee Teck, iHealthtech Director**

A number of medical device technologies aimed at relieving the burden of disease and improving quality of life will be explored. These devices, developed at the School of Biomedical Engineering, UNSW over the past two decades, and co-designed with clinical and commercial collaborators, include telehealth monitoring and decision support systems for chronic disease management; soft biorobotic actuators for compression therapies, and a range of neural interface technologies for restoring and potentially augmenting sensory loss.

The talk will highlight the potential for convergence of implantable, wearable and telehealth technologies in holistic models of patient care and health service delivery. It will also describe how a recently established Institute of Health Engineering (IHealthE) has shaped the research agenda to ensure that technologies directly address unmet patient and clinician need. To do this the talk will reflect on several unsuccessful medtech translation ventures, and how with the benefit of IHealthE, next generations of these technologies are demonstrating more translational impact and commercial success. In this way, our work has more opportunity for successful translation and on improving health outcomes, lowering health expenditure, and ensuring equitable access to care for all in the community.

**Speaker Biography** | Nigel Lovell BE(Hons) PhD is currently at the Graduate School of Biomedical Engineering UNSW Sydney where he holds a position of Scientia Professor and Head of School. He is also Co-Director of the Tyree Institute of Health Engineering (IHealthE) supporting medical technology translation to meet unmet health needs. He has authored 800+ refereed works, and been awarded over USD 80 million in R&D funding. He has successfully spun-out medical device companies and taken telehealth technologies through regulatory approval pathways. Over his career he has mentored 100 PhD students and is a Fellow of seven learned academies/societies throughout the world. From 2017-18 he held the position of President of the IEEE Engineering in Medicine and Biology Society (EMBS), which is the world's largest professional organisation for biomedical engineers. He has also served as conference and program chair for more than ten international conferences.



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[\[Link to the registration form\]](#)



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