

Australian Biomedical Engineering Conference (ABEC)
Webinar Series
"Re-imagining biomedical engineering for a post-pandemic world"

		Webinar 1 7 October 2021 12:00 - 14:05	Webinar 2 14 October 2021 17:00 - 19:00	Webinar 3 21 October 2021 12:00 - 14:05	Webinar 4 28 October 2021 12:00 - 14:05	Webinar 5 4 November 2021 12:00 - 14:05
45 mins	1	<p style="text-align: center;">Plenary Binseng Wang <i>Vice President of Program Management</i> Sodexo Evidence Based Maintenance</p>	<p style="text-align: center;">Plenary Gregg Suaning PhD, MSc, BSc. <i>Professor of Biomedical Engineering</i> University of Sydney Progress towards restoring vision to the blind – the bionic eye</p>	<p style="text-align: center;">Plenary Karen Reynolds FTSE, FAHMS, FIEAust, PhD, MSc, MA, BA(Hons), Grad Cert Tert Ed <i>Deputy Dean of Computer Science</i> Flinders University Establishing a PPE test facility in response to the COVID-19 pandemic</p>	<p style="text-align: center;">Plenary Dean Freestone <i>Co Founder, Chief Executive Officer</i> Seer Medical Long-Term Clinical Monitoring: From the Hospital to the Home</p>	<p style="text-align: center;">Plenary Andrea O'Connor <i>Head of the Dept. of Biomedical Engineering</i> University of Melbourne How can biomaterials engineering help address rising health challenges in time for the next pandemic?</p>
10 mins	1		<p style="text-align: center;">Sponsor GE Healthcare (10 mins)</p> 			
Sub theme		Clinical Engineering Evidence, Maintenance and Neuro Engineering	Clinical Engineering and Health Technology Management, Digital Health and Cybersecurity	Biomedical Engineering, Biosensors and Wearables	Biomedical Engineering, Biomechanics and Computational Bioengineering, Surgical Technology	Biomaterials and Tissue Engineering
20 mins	1	<p>Combined optogenetic and electric stimulation increases the spike probability of auditory neurons Elise Ajay Bionics Institute / University Of Melbourne</p>	<p>Establishing a Medical Asset Nomenclature Standard for NSW Health Lael Lim Health Infrastructure</p>	<p>Comparison between a textile-based electrocardiogram monitor and a commercial Holter monitor based on short term heart rate variability analysis Meseret Teferra Flinders University</p>	<p>Implantable Ultrasound Transmission Circuit for Cancer Monitoring Darcy Dunn-lawless The Medical Device Research Institute, Flinders University</p>	<p>Biomaterial Approach for Preventing Orthopaedic Implant Infections – What needs to be done? Phong Tran Queensland University of Technology</p>
20 mins	2	<p>Infrared Neural Modulation for Retinal Prosthesis Applications James Begeng Swinburne University Of Technology</p>	<p>Leveraging Automated Data Analytics to Inform Clinical Technology Management Anthony Mikhail Sydney Local Health District (slhd)</p>	<p>Considerations in real-world translation of human-device pressure measurement in exoskeleton applications Manish Sreenivasa University Of Wollongong</p>	<p>Numerical Simulation of the Fractional Flow Reserve in Serial Stenoses of Varying Configurations Maria Timofeeva The University Of Melbourne</p>	<p>3D in-vitro neuronal cultures for studying cell-material interactions Anu Sabu Swinburne University Of Technology</p>
20 mins	3	<p>Concurrent Transcutaneous Vagus Nerve Stimulation (tvNS) and Magnetoencephalography (MEG) Charlotte Keatch Swinburne University Of Technology</p>	<p>Health IT Impact on Patient Safety Eric Woo Ecri Berhad</p>	<p>Are Knee Contact Forces Reduced by Unloader Knee Braces? A Systematic Review and Meta-Analysis. Catherine Galvin Australian National University</p>	<p>Computational Study of the Hemodynamic Effect of Electrodes in an Idealized Blood Vessel Implanted with a Stentrode Wiejie Qi The University Of Melbourne</p>	<p>Co-culture of chondrocytes and mesenchymal stem cells for cartilage regeneration in the head and neck Michael Lee Institute Of Academic Surgery - Rpa</p>
20 mins	4	<p>Improved Resolution for Retinal Implants via Neural Activity Shaping: Quantified Results Martin Spencer Department Of Biomedical Engineering, University Of Melbourne</p>		<p>Effect of textile electrode attachment on electrocardiogram quality Meseret Teferra Flinders University</p>	<p>In-Silico comparison of mechanical and kinematic alignment in total knee arthroplasty Nicolo Malagutti Australian National University</p>	<p>Suture with Multifunctional Properties Shadi Houshyar RMIT University</p>