

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