

## Activity & Progress Reporting

### Section Spring Meeting - 28<sup>th</sup> April 2023

<b>1. Chapter/Affinity Group:</b>	UK and Ireland IEEE Sensors Chapter, CH08804 - United Kingdom and Ireland Section Chapter, SEN39
<b>2. Committee Members</b>	Sillas Hadjiloucas (Chair)  Sinead O' Keefe (Secretary)
<b>3. Reporting Officer:</b>	Sillas Hadjiloucas
<b>4. Overview of current plan and activities:</b>	<ul style="list-style-type: none"> <li>i. Organise DL Program meetings: Lecturers should give presentations through zoom meetings (Ravinder Dahiya, Ashwin Seshia, Eui-Hyeok Yang, Pantelis Georgiou, Haixia (Alice) Zhang, Maryam Baghini, Arokia Nathan, Giancarlo Fortino, Enaksi Bhattacharya, Thomas Thundat, Tina Ng, Vladimir Lumelsky)</li> <li>ii. In collaboration with Control Systems Group: Presentation of port-Hamiltonian formulations for classical thermodynamics by Arjan van Der Schaft, Zoom meeting.</li> <li>iii. CAS04/IM09 co-sponsored collaborative meeting planned, topics to be explored: 'Fractional order circuits and controllers for sensors and measurement systems', 'Bond graph theory for hybrid circuits and sensing systems', 'Memristive circuits and systems and their applications to Measurement and Sensing', 'Order reduction methods in circuit theory and measurement systems', 'port-Hamiltonian formulations of non-linear electrical circuits and non-linear feedback sensing systems'.</li> <li>iv. Plans for an optical fibres sensors virtual meeting with contributors from the recently published IEEE Press (Wiley) book 'Optical Fibre Sensors Fundamentals for Development of Optimized Devices' (Eds. I. Del Villar and I. R. Matias), involvement of IEEE Sensors Council</li> <li>v. Explore possibilities with Paul Cunningham to support Region 8 climate change activities through presentations</li> </ul>

	from the Sensors community, also co-sponsor meetings to support these activities
<b>5. Key Achievements and member value/services to date:</b>	<ul style="list-style-type: none"> <li>• Co-sponsoring of the meeting organised by Nathan Lepora (Sensors Council Educational activity Committee)</li> </ul>
<b>6. Key Challenges:</b>	<ul style="list-style-type: none"> <li>• Structural changes in my work place are impacting my availability to support the chapter so a new chair needs to be elected to take the activities further</li> </ul>
<b>7. Deficits/Required Resources:</b>	<ul style="list-style-type: none"> <li>• Elections: To be discussed with Izzet / Lee /Saumya</li> </ul>
<b>8. Actions/Support requested from the Section:</b>	<ul style="list-style-type: none"> <li>• Advertise the vacancy to the Sensors Chair post</li> </ul>
<b>9. Action Plan:</b>	To be discussed at the meeting with Izzet