

## Activity & Progress Reporting

### Section Autumn Meeting - 20<sup>th</sup> October 2023

<p><b>1. Chapter/Affinity Group:</b></p>	<p>IEEE APS/MTT Scotland Joint Chapter</p>
<p><b>2. Committee Members</b></p>	<p>Chair: Qammer Hussain Abbasi Vice Chair: Masood Ur Rehman Secretary: Hasan Tahir Abbas</p>
<p><b>3. Reporting Officer:</b></p>	<p>Masood Ur Rehman</p>
<p><b>4. Overview of current plan and activities:</b></p>	<p>Organised a series of seminars as part of our Future Wireless Technologies series:</p> <ol style="list-style-type: none"> <li>i. Reconfigurable Metasurfaces for 6G Wireless Applications of Transparent Metal Mesh Nanostructures (George C. Alexandropoulos, National and Kapodistrian University of Athens (NKUA), Greece, March 2023)</li> <li>ii. Magic ALPACAs: Flexible Electronics from Functional Devices to Digital-Physical Interfaces (Radu Sporea, Advanced Technology Institute, University of Surrey, UK, April 2023)</li> <li>iii. Nokia's views on Spectrum for 6G (Theo Spathopoulos, Senior Specialist Nokia Spectrum Standardization Strategy &amp; Technology, May 2023)</li> <li>iv. A New Sub-ppm Frequency Measurement by Blending a Portable Electronic System and Frequency Estimation Techniques (Maryam Shojaei Baghini, IIT Bombay, India, September 2023)</li> <li>v. THz Wireless Communications for Next Generation Access (Robert Elschner, Fraunhofer Heinrich Hertz Institute, October 2023)</li> </ol> <p>Organised one workshop with a demonstration and practice session on:</p> <ol style="list-style-type: none"> <li>i. An Overview of ANSYS High Frequency Design and Analysis Tools (ANSYS, Michael Doherty and David Edgar, February 2023)</li> <li>ii. 5G NR RF, Protocol and Data Device Testing – An Industry Perspective (Rohde &amp; Schwarz, March 2023)</li> </ol>
<p><b>5. Key Achievements and member value/services to date:</b></p>	<ul style="list-style-type: none"> <li>• Organised the seminars with talks from world leading researchers and good attendance (40+ attendees).</li> <li>• Improved the female membership to 19%.</li> <li>• Participated in the organisation of IEEE WCNC 2024 and a workshop on Green IoT IEEE VTC-S 2023.</li> <li>• Worked with WiE chapter to enhance diversity and inclusiveness.</li> </ul>

<p><b>6. Key Challenges:</b></p>	<ul style="list-style-type: none"> <li>• Having a greater number of female members is always a challenge.</li> <li>• Budget sometimes restricts from organisation of events at larger scale.</li> </ul>
<p><b>7. Deficits/Required Resources:</b></p>	<ul style="list-style-type: none"> <li>• More support is needed to increase our presence in the conferences in the form of awards.</li> </ul>
<p><b>8. Actions/Support requested from the Section:</b></p>	<ul style="list-style-type: none"> <li>• Budget for our presence at the EuCAP 2024 and organise a science quiz.</li> </ul>
<p><b>9. Action Plan:</b></p>	<p>We are planning to continue with our seminar series by organising at least 5 more talks from renowned researchers.</p> <p>We are part of EuCAP 2024 and will be present to increase the repute and membership drive. We would also work to improve our social media presence.</p> <p>We will continue to collaborate with the IEEE WiE chapter to enhance the female membership and widen our approach by increasing diversity and inclusivity.</p> <p>We will also organise a science quiz by the Christmas to increase social interaction and enhance collegiality among microwave engineers.</p>