

Activity & Progress Reporting

Section Autumn Meeting - 27th October 2022

1. Chapter/Affinity Group:	IEEE APS/MTT Scotland Joint Chapter
2. Committee Members	Chair: Symon Podilchak; Qammer Hussain Abbasi Vice Chair: Dimitris Anagnostou; Masood Ur Rehman Secretary: Hasan Tahir Abbas; Cristian Alistarh
3. Reporting Officer:	Masood Ur Rehman
4. Overview of current plan and activities:	<p>Organised a series of seminars as part of our Future Wireless Technologies series:</p> <ol style="list-style-type: none"> i. Applications of Transparent Metal Mesh Nanostructures (Themis Kallos, Co-Founder and Chief Science Officer META, April 2022) ii. Novel Resonant Cavity and Beamsteering Antennas (Karu Esselle, Innovations Humanity Ltd/ Australian Antenna Measurement Facility, May 2022) iii. Intelligent Connectivity for XR-aided Teleoperation in 6G (Yansha Dang, King's College London, May 2022) iv. RF Technologies from TV and Radio to Wearable Sensors (Maurizio Bozzi, University of Pavia, May 2022) v. Design of Wideband Reflectarrays and Transmitarrays of Magnetolectric Dipoles (Kwai Man Luk, City University of Hong Kong, June 2022) vi. Democratizing Access to Space – Behind IBM's Ground-breaking Cubesat Mission (Naeem Altaf, IBM, June 2022) vii. The Internet of Bodies: My Gateway to the Digital World (Abdulkadir Çelik, King Abdullah University of Science and Technology, July 2022) viii. Extracting Clinically Relevant Information from Atypical Speech (Beena Ahmed, The University of New South Wales, July 2022) ix. Holographic Metasurfaces and Their Applications (Okan Yurduseven, Queen's University Belfast, August 2022) x. Learning Challenges in Designing Multi-Device Experiences (Fahim Kawsar, Nokia Bell Labs Cambridge, August 2022) xi. Wireless Sensor Networks for Climate Monitoring (Sanchez-Azofeifa, University of Alberta, August 2022) xii. Over a Century of Array Signal Processing (Jiang Li, University of Florida, October 2022) <p>Organised one workshop with a demonstration and practice session on:</p> <ol style="list-style-type: none"> i. Advanced Antenna Design for 5G mm-wave Arrays and Metamaterials-based Propagating Structures with CST

	Microwave Studio 2022 (Simulia, University of Glasgow, 27 June 2022)
5. Key Achievements and member value/services to date:	<ul style="list-style-type: none"> • Received IEEE APS Outstanding Chapter Award. • Organised the seminars with talks from world leading researchers and good attendance (40+ attendees). • Improved the female membership to 18%. • Participated in the organisation of a workshop on Green IoT IEEE VTC-S 2022.
6. Key Challenges:	<ul style="list-style-type: none"> • Having a greater number of female members is always a challenge. • Budget sometimes restricts from organisation of events at larger scale.
7. Deficits/Required Resources:	<ul style="list-style-type: none"> • More support is needed to increase our presence in the conferences in the form of awards.
8. Actions/Support requested from the Section:	<ul style="list-style-type: none"> • Budget for our presence at the conferences and organise the away day.
9. Action Plan:	<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 IEEE WCNC 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 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 an away day to provide the members an opportunity to increase social interaction and enhance research collaboration beyond the university life.</p>