

14th European Applied Superconductivity Conference (EUCAS2019)

Glasgow, United Kingdom, 1st-5th September 2019

October 9, 2019 (HE117). The 14th European Applied Superconductivity Conference (EUCAS2019) took place at the Scottish Event Campus (SEC), Glasgow, Scotland from Sunday 1st to Thursday 5th September 2019. It was a great pleasure to welcome the applied superconductivity community to the United Kingdom. The conference attracted 1010 attendees from 37 countries across the globe, with excellent contributions across superconducting materials, electronics and large-scale applications.



EUCAS2019 Venues The iconic SEC armadillo beside the River Clyde (left & middle). Welcome reception (with bagpipes!) at Glasgow Science Centre (right).

Dr Ian Chapman of the UK Atomic Energy Centre opened the conference with a superb Keynote highlighting the crucial role of superconductivity in tackling the grand challenge of fusion energy. Professor Satoshi Awaji of Tohoku University, Japan gave an exciting Plenary on advances in superconducting materials for high field magnets. The winner of the 2019 European Society for Applied Superconductivity (ESAS) Award for Excellence Professor Yanwei Ma of the Chinese Academy of Sciences surveyed advances in iron-based superconductors and wire technology. Professor Irfan Siddiqi of the University of California, Berkeley, USA, gave magisterial overview of the role of superconducting devices in quantum measurement science and quantum computing. In the closing Plenary Dr Amalia Ballarino of CERN set out a breath-taking vision for the role of superconductors in taking accelerator technology to a scale beyond the Large Hadron Collider.



EUCAS2019 Keynotes & Plenaries (left to right) Conference co-chairs Dr John Durrell and Professor Robert Hadfield open the conference; Keynote Speaker Dr Ian Chapman receives his quaich (a ceremonial Scottish drinking cup); Professor Yanwei Ma receives the 2019 ESAS Award for Excellence from Professors Herbert Freyhardt (founder of EUCAS) and Bernhard Holzapfel (Chair of ESAS).



EUCAS2019 Plenaries (left to right) *Dr Amalia Ballarino; Professor Satoshi Awaji receiving his quaiich from Professor Susie Speller; Professor Irfan Siddiqi.*

Further Special Sessions highlighted hot topics: electric aircraft, quantum technologies, coated conductors, superconducting cavities. Selected papers from EUCAS2019 will appear in a forthcoming focus issue of *Superconductor Science and Technology*. Industry engagement was excellent. 39 companies participated in a very busy exhibition. We are particularly grateful to our sponsors Sumitomo (Platinum), Bluefors, Cryomech, Oxford Instruments (Gold), Out of the Fog Research, Janis, Kiswire & Shanghai Superconductor (Silver).



EUCAS2019 Social Programme *Exhibitor Whisky tasting and 4.2 K fun run - this year presided over by Lord Kelvin himself!*

There was a lively social programme, with a welcome reception at Glasgow Science Centre, exhibitor whisky tasting, 4.2 K fun run, James Watt 200th anniversary public lecture and a superb conference dinner with live Scottish music and dancing. We are tremendously grateful to everyone who supported and participated in a very memorable conference!

Robert Hadfield (Glasgow) and John Durrell (Cambridge)

EUCAS2019 co-chairs

28th September 2019

www.eucas2019.org