



For **Carmel Moran, Reader in Medical Physics at the Centre for Cardiovascular Science, University of Edinburgh**, Fellowship means she has been able to demonstrate external peer recognition of her research and standing within the field of Medical Physics. Carmel's career started with an undergraduate joint honours degree in Physics and Applied Maths at Queen's University Belfast (1984), followed by an MSc in Medical Physics at Aberdeen University (1986) and then a PhD at the Institute of Cancer Research in

Sutton, Surrey. When Carmel first joined IPEM, as a Student Member (now known as Affiliate), she found the 'green' mail shot (which provided information about job vacancies within medical physics) to be of particular benefit whilst trying to find a job related to her research interests. In 1991, with her PhD (nearly) completed, Carmel took up a one-year post-doctoral position in Medical Physics at University of Edinburgh and, shortly thereafter, she upgraded from Student Member to that of an Ordinary Member (now known as Associate Member). Carmel's one year position subsequently expanded to 26 years of ultrasound research based at University of Edinburgh and, in 1999, she upgraded again from Ordinary Member to Corporate Member (now known as Full Member).

As an academic, non-tenured member of staff for 18 years, funded by numerous, short and long-term research grants, Carmel utilised the support network provided by IPEM to engage with NHS research colleagues throughout the UK and latterly further afield. Her 18 years of contract research work, including three maternity breaks, proved to be both rewarding and stressful especially as grant deadlines loomed. However Carmel's stress was mitigated by three awards from IPEM. Firstly, Carmel was awarded the Wisconsin Travel Award (now known as the AAPM/IPEM Travel Award) that enabled her to travel to labs in the USA and Canada which were involved in ultrasonic contrast agent research. These were the heady days of new contrast agents and development of novel microbubble detection techniques. The trip fuelled Carmel's long-standing interest in ultrasonic contrast agents and enabled her to meet with other scientists in the field and forge research collaborations. Secondly, in 1999, Carmel was awarded the IPEM Founders' Prize for sustained quality research. Finally, in 2006, came Carmel's successful application to Fellowship of IPEM. This recognition, by IPEM, contributed significantly to Carmel securing promotion within the University and, in 2008, a tenure-track position which enabled her to take a longer term view of her research and build her research team.

Throughout Carmel's career in ultrasonics she has enjoyed attending the IPEM Biennial Physics and Technology of Medical Ultrasound Day and, for several years, was a member of the Ultrasound and Non-Ionising Radiation Special Interest Group (UNIRSIG) who organised the biennial meeting. Carmel has also given back to the profession by undertaking the role of an examiner for students who undertook an ultrasound placement on the IPEM Part 1 Training Scheme. Carmel has also played an active role within other organisations since 2008 and was President of the British Medical Ultrasound Society from 2014-2016.

As a research-group leader, Carmel encourages all her students to become members of IPEM and to apply for IPEM's conference research grants or small research grants – this gives many of her students their first opportunity to write a grant application.