FOREWORD

The 20th International Workshop on Electron Cyclotron Resonance Ion Sources (ECRIS-2012) was held in Sydney, Australia, from 25th-28th September 2012, hosted by the Australian Nuclear Science and Technology Organisation (ANSTO). The principal venue was the Australian National Maritime Museum, by the water in Darling Harbour, right next to the centre of the city.

Following the previous workshop in Grenoble, the birthplace of ECR ion sources, it was fitting that the 20th workshop should be held in Sydney, on the very opposite side of the planet, to show that ECRIS science and technology has indeed literally spread all around the world.

The scientific program for the workshop focussed on the latest developments in performance, modelling and applications of ECR ion sources along with the associated physics and technologies. 68 participants from 19 countries provided 70 contributions to an interesting and varied scientific program. The final morning of the workshop program took place at ANSTO, with an opportunity for participants to visit the laboratory's research reactor and accelerator facilities in the afternoon.

For the third successive time at the ECRIS workshop, the Richard Geller prize was awarded. The prize rewards "an exceptional contribution to the development of ECR sources and encourages young talented researchers". The prize was initiated and sponsored by the company Pantechnik. The 2012 prize was awarded to David Mascali (INFN Catania) for "Development of an original 3D simulation code which has the potential to improve our understanding of ECR ion sources physics". I would like to thank the prize selection committee, in particular Thomas Thuillier, LPSC, Grenoble, for chairing the committee.

The workshop included a number of social events which enabled participants to enjoy good company in the environment of Sydney's famous harbour. We were lucky with the weather and were able to enjoy the harbour atmosphere at each event. The Welcome Reception was held on board HMAS Vampire, at the Australian National Maritime Museum, by the water in Darling Harbour, and the workshop dinner in the Waterfront Restaurant, Circular Quay. For the conference excursion, participants had a choice of a harbour cruise or a harbourside bushwalk.

I would like to thank the organising committee for a job well done, in particular my colleague David Button who has managed the JACoW system as proceedings editor among many other tasks. I also thank the international advisory committee for their advice and support. The workshop was organised under the auspices of the Australian Nuclear Science and Technology Organisation, with the support of the Australian Institute of Nuclear Science and Engineering, the Australian National University in Canberra and the Australian Collaboration for Accelerator Science. I thank our commercial sponsors for their generous support. The people and organisations are listed on the following pages. Finally, I would like to thank all participants for all their contributions, making the workshop lively, stimulating and interesting for all. Especially I wish to thank Prof Hongwei Zhao, IMP, Lanzhou, for providing a wonderful workshop summary as part of the closing session.

During the conference, the International Advisory Committee met and heard proposals from three laboratories interested in hosting the next workshop. The committee decided to award the next workshop, to be held in 2014, to Vladimir Zorin's group at the Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod. We look forward to the next workshop in that beautiful city.

It was with great sadness, however, that we received news in November 2012 of the tragic death of Vladimir Zorin. The ECR team at the Institute of Applied Physics has sent a tribute to Vladimir, printed on the following page.

Michael Hotchkis
Chair, ECRIS 2012