

EPJ Techniques and Instrumentation

Stephen Buckman^{1*}, Peter Grütter² and Martin Hegner³

* Correspondence: stephen.buckman@anu.edu.au
¹Australian National University, Canberra, ACT 0200, Australia
Full list of author information is available at the end of the article

The development of experimental science in the past half century has produced advances in areas such as electronics and communications, new materials, optical technologies, computer processing techniques and biomedical science, to name just a few. These advances have in turn motivated the design of experiments that are increasingly complex, sophisticated, and ambitious, producing results of unprecedented accuracy, precision, and novelty.

As a result, fundamental research results, and the new technologies that may arise from them, are often produced using customised or purpose-built equipment, materials, or software that may exist in only one or two facilities worldwide. The design principles and techniques employed are often ground-breaking, yet results published in traditional journals often do not include the detail necessary for reproducing the work, or applying it in related areas of science. Other helpful information, such as "best practices" guides, and solutions to common problems, often does not fit within the scope of a traditional academic journal or is brushed over in the focus on the scientific outcome.

With the launch of *EPJ Techniques and Instrumentation* (EPJ TI) we hope to specifically address this need, encouraging the open access dissemination of detailed experimental design descriptions, experimental techniques and practices, and examples of results that arise from such experiments, that go beyond the scope of traditional scientific journal articles. The purpose of EPJ TI is to catalyze the development and adoption of next-generation techniques and technologies. We will do this through the publication of regular articles, openly submitted, and through the use of thematic series where we can stimulate the publication of important papers in contemporary research areas.

EPJ TI is an open-access journal, part of the new suite of OA titles published in the EPJ series. As such it is funded by article processing charges (APCs), but a number of initiatives are in place to assist authors if they do not have access to publication funding. These include the SpringerOpen membership scheme (www.springeropen.com/inst/), reduced charges for authors in developing regions, and editorial discretionary waivers. If you are considering submitting to EPJ TI but do not have the necessary funding, please contact us (epjti@edpsciences.org) and we will endeavour to help.

Author details

¹Australian National University, Canberra, ACT 0200, Australia. ²McGill University, Montréal, Canada. ³Trinity College Dublin, Dublin, Ireland.

Received: 17 March 2014 Accepted: 18 March 2014

Published: 29 April 2014

doi:10.1140/epjti1

Cite this article as: Buckman et al.: EPJ Techniques and Instrumentation. *EPJ Techniques and Instrumentation* 2014 1:1.