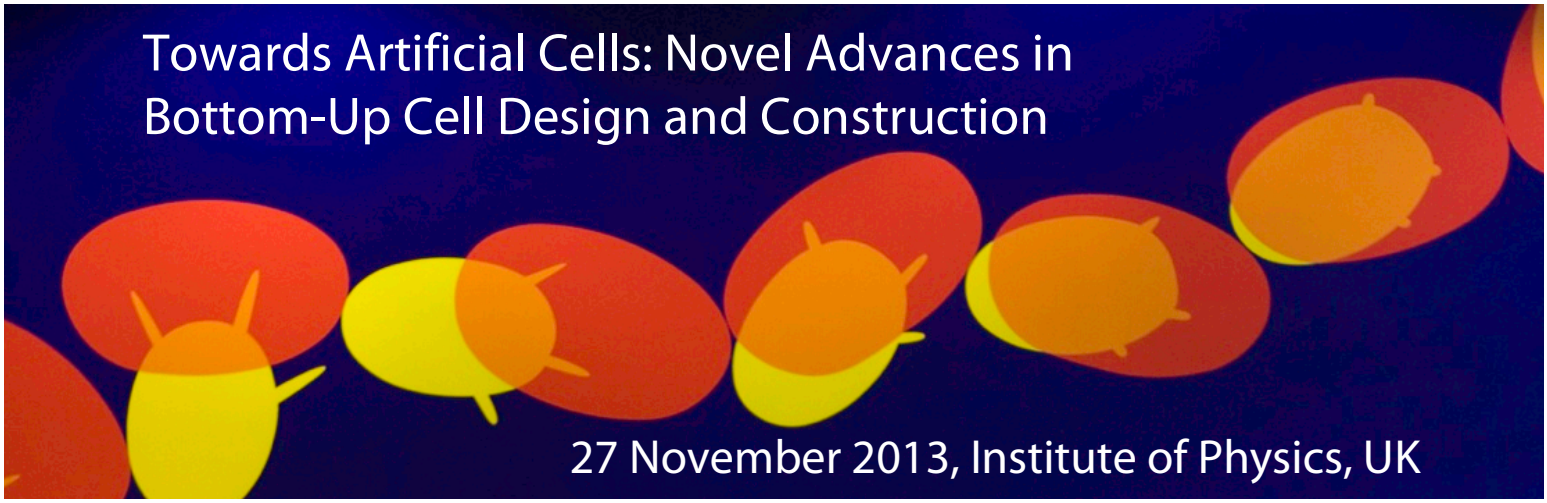
CAPITALS

IOP | Institute of Physics
Biological Physics Group

Towards Artificial Cells: Novel Advances in Bottom-Up Cell Design and Construction



27 November 2013, Institute of Physics, UK

This meeting will focus on the emerging area of artificial cells and the construction of biologically-inspired modules using bottom up approaches that can be coupled together to achieve novel functions. Current approaches in Synthetic Biology; an emerging area of science offering exciting possibilities in exploring the interfaces of Chemistry, Biology and Engineering systems focus on re-designing existing systems or combining existing modules. However the construction of such modules from scratch offers an exciting alternative where a fundamental understanding of the engineering principles that underlie cellular function can be manipulated to design bespoke biological systems.
This meeting will review the current state of the art in areas ranging from artificial proteins and membranes to synthetic cells and define the problems and prospects for this next-generation technology.

Speakers

Prof Jon Cooper University of Glasgow

Prof Lee Cronin University of Glasgow

Prof Pier Luigi Luisi ETH Zurich

Prof Stephen Mann University of Bristol

Prof Pierre-Alain Monnard
University of Southern Denmark

Prof Dek Woolfson University of Bristol

Scientific organisers

Prof Paul O'Shea University of Nottingham

Dr Oscar Ces Imperial College London

Key Dates

Early registration deadline: 30 October 2013

Registration deadline: 21 November 2013

Poster submission deadline: 2 October 2013

For more information

www.eventsforce.net/iop/417/
www.capitals-programme.org