

Research and Knowledge Exchange Committee

Second Report on School Research Activity for 2014/15

(Please append to this report a listing of all applications for funding made since 29/10/2014)

School:	MPS
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Part 1: Research output

		2014 total	2015 to date
Peer-reviewed	Authored book	2	1
	Chapters		
	Journal article	92	16
	Edited book		
	Conference contribution		
	Monograph		
	Other		
Total		94	17
		Number	
Non peer-reviewed (where known)	Books		
	Chapters		
	Articles		
	Book reviews		
		Number	
Conferences hosted		2	3

Part 2: Activity since last Research & Knowledge Exchange meeting held on 29 October 2014

Research related appointments:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Job Title</th> <th style="text-align: left;">Person</th> <th style="text-align: left;">PI</th> <th style="text-align: left;">Start Date</th> </tr> </thead> <tbody> <tr> <td>Innovations Partnership Fellow</td> <td>Colin Hayhurst</td> <td>Oliver</td> <td>14/11/2014</td> </tr> <tr> <td>Marie Curie International Outgoing Research Fellow</td> <td>Benjamin Wetzel</td> <td>Peccianti</td> <td>01/02/2015</td> </tr> <tr> <td>Postdoctoral Research Fellow in Ion Quantum Technology</td> <td>Altaf Nizamani</td> <td>Hensinger</td> <td>15/02/2015</td> </tr> <tr> <td>Postdoctoral Research Fellow in Cosmology</td> <td>Julien Carron</td> <td>Lewis</td> <td>01/03/2015</td> </tr> <tr> <td>Postdoctoral Research Fellow in Quantum Sensing Networks</td> <td>Paul Knott</td> <td>Dunningham</td> <td>01/03/2015</td> </tr> <tr> <td>Post-Doctoral Research Fellow in Experimental Particle Physics</td> <td>Benedict Allbrooke</td> <td>De Santo</td> <td>08/04/2015</td> </tr> </tbody> </table>	Job Title	Person	PI	Start Date	Innovations Partnership Fellow	Colin Hayhurst	Oliver	14/11/2014	Marie Curie International Outgoing Research Fellow	Benjamin Wetzel	Peccianti	01/02/2015	Postdoctoral Research Fellow in Ion Quantum Technology	Altaf Nizamani	Hensinger	15/02/2015	Postdoctoral Research Fellow in Cosmology	Julien Carron	Lewis	01/03/2015	Postdoctoral Research Fellow in Quantum Sensing Networks	Paul Knott	Dunningham	01/03/2015	Post-Doctoral Research Fellow in Experimental Particle Physics	Benedict Allbrooke	De Santo	08/04/2015
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Details of key research grants received (i.e. in top decile of all research grants received over last 3 academic years):	<p>Individual highlights...</p> <p>Mathematics During: Leverhulme Trust: "Novel discretisations of higher-order nonlinear PDE" £257k Koch: EPSRC Analysis of the Navier-Stokes regularity problem £98k Madzvamuse: EU InCeM "Research Training Network on Integrated Component Cycling in Epithelial Cell Motility" £316k</p> <p>Physics Asquith: Royal Society DH Fellowship "New physics searches and Higgs coupling measurements with ATLAS" £429k</p>																												

Total (£):	1,680k (2014-15)
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Highlighted awards and recognitions:	Feng Wei Yang , aka Tim, a research fellow in Mathematics, collected the Young Researcher Best Paper Prize at 4 th International conference pm parallel, distributed and cloud computing for engineering, Dubrovnik (March 2015).
Highlighted areas of Knowledge Exchange:	<p>November 2014 Visit of Andy Haslam Surrey & Sussex Police Cybercrime</p> <p>December 2014 – STFC Impact Acceleration Award £50k</p> <p>December 2014 – Astronomy Master Classes 100 kids X2</p> <p>January 2015 – Meeting with B&H Council on City-Wide Maths project etc.</p> <p>January 2015 – Kiss and Berthhouse secure industry funded PhD “Fast fault-monitoring and prediction in large-scale dynamic networks (2015)”</p> <p>February 2015 – Ricardo visit to campus</p> <p>February 2015 – Various contributions to Brighton Science Festival</p> <p>February 2015 – John Gribbin’s First e-book “Before the Big Bang”</p> <p>March 2015 – First STFC IAA project funded</p> <p>March 2015 – Follow-up visit to Ricardo</p> <p>March 2015 – MPS Impact Away-day</p> <p>March 2015 – Stargazing Live 400 members of public</p>
Key activities (not covered by the above categories):	<p>Mathematics have approved (March 2015) a new work-load allocation model, following example of Physics & Astronomy for implementation in April 2015.</p> <p>New MPS apprentice scheme to ensure maintenance of key skills in workshops. First apprentice started in March 2015</p> <p>1st ‘UK Quantum Technology Hub for Sensors and Metrology’ (Birmingham lead) - £1,972,794 (Sussex award) Award Acceptance imminent</p> <p>2nd Quantum Technology Hub bid (Oxford led) award acceptance letter received.</p>
Any other issues:	<p>Working towards a new MPS research office.</p> <p>Working on improved grant submission work-flow.</p> <p>Aim to capture publications from faculty at submission stage, but SRO not designed for this.</p>

Name:	Seb Oliver	School:	MPS
		Date:	31 March 2015