

Ursula Martin SICSA Distinguished Visiting Fellowship: Final report

This report describes the main events and outcomes of Prof. Ursula Martin's SICSA Distinguished Visiting Fellowship. Prof. Martin's visit incorporated presentations and collaborations on crowdsourced science, research impact, and women in science. In chronological order, these took place as follows:

- 23 February Seminar St Andrews "Mathematical practice" [organised by Steve Linton]
- 16 March Talk at Dundee Women in Science Festival [organised by Karen Petrie]
- 23 March Seminar Edinburgh interdisciplinary "Social informatics" group "Mathematical practice" [organised by Mark Hartswood]
- 28 March, Informal discussions on impact/industry, Heriot Watt [organised by Alan Miller]
- 14/15 April All day "Master Class" on mathematical practice and proof, given as a satellite event to the Milner Symposium [Milner Symposium organized by Gordon Plotkin, Stephen Gilmore and others]
- 27 April Seminar Glasgow, interdisciplinary maths and computing group [organised by Ken Brown and Muffy Calder]
- 20th June Talk on "industry/impact" for SICSA PhD workshop [organised by Rod Murray Smith] plus SICSA keynote speaker for PhD conference

Prof. Martin has been asked to give 7 seminars outside Scotland as a result of her SICSA work, one paper has been accepted.

A particular highlight was the Maths and Computer Proof discussion day which took place on 15th April. A mix of over twenty senior mathematicians and computer scientists from Edinburgh and other Scottish Universities attended, with talks and panel discussions including a talk from Professor Sir Michael Atiyah. Discussion centred around what CS has done or could do for maths, and how mathematicians view their subject. In particular, computers were seen as having two possible roles in mathematics: assistants for mathematicians, and mathematicians in their own right.

This has stimulated an ongoing plan for a programme of collaborative activities between computer science and mathematics in Edinburgh, which will serve to add value as a pathway to impact for research work in computer proof in Informatics. Two grant proposals are also being prepared to take this agenda forwards.