Report on Foundational Methods in Computer Science 2013

Foundational Methods in Computer Science (FMCS) 2013 was held at Mt. Allison University from May 31st to June 3rd, 2013. There were 26 participants of whom 11 were from the Atlantic region, 10 from elsewhere in Canada, and 5 from other countries (America, Spain, and Italy). Scientific actitivies consisted of four tutorials by international speakers and 14 contributed talks. Activities included a welcome reception and excursion to Joggins.

One invited speaker, Michael Shulman, spent this academic year at the Institute for Advanced Study during Field's medalist Voevodsky's thematic year on homotopy type theory and, in a two hour tutorial, described many of the new advances that came as a result of the work there. From Spain, Joachim Kock gave a tutorial on exciting new work on polynomial functors. From the United States, Ernie Manes gave a tutorial on how atoms in extensive categories can help us understand combinatorial problems. Finally, from Italy, the founder of the use of monads in computer science, Eugenio Moggi, spoke on interactions between computer science and type theory.

A tradition at FMCS meetings is encouragement of graduate students. There were 7 lectures by students from Calgary, Ottawa, Dalhousie and York at the meeting, on such diverse topics as categorical vector-valued integration, partial term rewriting, and orbifolds as groupoids. The scientific level was very high in all cases.

Income and expenditure:

Income:	
Mt Allison Univ.	$ 500
AARMS	$ 3500
Registration	$ 1550
Total	$ 5550

Expenditures:	
Invited speaker travel	$ 2500
Student travel	$ 1500
Reception	$ 610
Excursion	$ 250
Conference dinner/party	$ 690
Total	$ 5550

All money from AARMS and Mt. Allison went towards the speakers and students ($4000 in/$4000 out).