

## **SICSA Distinguished Visiting Fellow: Gerard Berry**

### **Report on Visit**

Prof. Berry is Directeur de Recherches at INRIA and at Ecole des Mines de Paris, he is a member of the French Académie des Sciences and the Academia Europaea, and the Directeur Scientifique of Esterel Technologies. He also holds the Chaire d'Innovation technologique funded by the Liliane Bettencourt Foundation, at the College de France, the most prestigious French Higher Education Institution.

His scientific contribution ranges from the formal semantics of programming languages, to distributed and real-time programming, and the design and verification of embedded systems. He is the inventor of the Esterel programming language. He received in 2005 the Grand prix of the EADS Foundation for the applications of Science to Industry.

During his two week visit to Scotland Professor Berry led a star studded cast for a lecture series – Seven Keys to a Digital Future. The course was intended for students, teachers, policy makers, and, more generally, anybody interested in modern science.

The programme was as follows:

Sept 23rd, Gerard Berry, Revealing Informatics  
Sept 27th, Gerard Berry, Sequential and Parallel Models of Computation  
Sept 27th, Yves Frégnac, Neuromorphic Computation for Vision  
Sept 29th, Gérard Berry, Circuits and Systems on Chips  
Sept 29th, Steve Furber, Brains in silico  
Sept 30th, Gérard Berry, Finite-State Systems  
Sept 30th, Luca Cardelli, Molecular Programming  
Oct 2nd, Gérard Berry, Synchronous Programming  
Oct 2nd, Arshia Cont, Human-machine Interaction: Musical Synchrony  
Oct 4th, Gérard Berry, Communication and Networking  
Oct 4th, Sethu Vijayakumar, Robots that Learn  
Oct. 5th, Gérard Berry, Asynchronous Concurrency  
Oct. 5th, Manuel Serrano, Diffuse Systems  
Oct. 7th, Gérard Berry, Getting Rid of Bugs  
Oct. 7th, Chris Bishop, Embracing Uncertainty: Science, technology, and the data revolution

The series was a great success with tickets for the majority of the lectures selling out. The series also attracted financial and in kind support from the RSE, the French Embassy, INRIA and the College de France.