

National e-Science Centre e-Science Hub Official Launch Speaker Biographies

17th September 2003, Kelvin Building, University of Glasgow



Professor Wilson Sibbett, FRS, CBE

Professor Wilson Sibbett CBE, BSc, PhD, FRS, FRSE: Chair of SSAC and Wardlaw Professor of Physics, University of St Andrews. Professor Sibbett was a member of the Joint Working Group of The Royal Society of London and The Royal Society of Edinburgh, which produced the highly influential report, *Devolution and Science*, published in April 1999. He is widely recognised as a world authority in laser physics and optoelectronics. Professor Sibbett's work has wide-ranging applications in the field of ultrafast science and technology, including optical communications and photobiology. He was the recipient of the Rank Prize for Optoelectronics in 1997, The Mitutoyo - NPL Frontier Science and Measurement Award in 1998 and the Rumford Medal of the Royal Society for "Research into Ultrashort-Pulse Laser Science and Technology" in 2000.



Professor Malcolm Atkinson

Professor Malcolm Atkinson FRSE (mpa@nesc.ac.uk) is Director of the UK National e-Science Centre, a Professor of Computing Science at the University of Glasgow and a Professor of Informatics at the University of Edinburgh. Malcolm leads the UK OGSA-DAI project and the e-Science Institute programme. His current research interest is the integration of programming and databases to deliver large scale and long lived systems.

Malcolm is best known for his work in orthogonal persistence, which led to the development of the World's first orthogonally persistent Java programming language. In addition to his commitments in Edinburgh and Glasgow, Malcolm is heavily engaged in the emerging OGSA, OGSF and DAIS standards at the Global Grid Forum for globally distributed computing. He will also lead training and dissemination for the EGEE (Enabling Grids for E-science and industry in Europe) Project.



Professor Tony Hey

Tony Hey is Professor of Computation at the University of Southampton and has been head of the department of Electronics and Computer Science and Dean of Engineering and Applied Science at Southampton. Since March 2001, he has been seconded to the EPSRC and DTI as Director of the UK's Core e-Science Programme. He is a fellow of the Royal Academy of Engineering, the British Computer Society, the Institute of Electrical Engineers and the Institute of Electrical and Electronic Engineers. Professor Hey is European editor of the journal 'Concurrency and Computation: Practice and Experience' and is on the organising committee of many international conferences.

Professor Hey has worked in the field of parallel and distributed computing since the early 1980's. He was instrumental in the development of the MPI message-passing standard and in the Genesis distributed Memory Parallel Benchmark suite. In 1991, he founded the Southampton Parallel Applications Centre that has played a leading technology transfer role in Europe and the UK in collaborative industrial projects. As the director of the UK e-Science Programme, Professor Hey is excited by the vision of the increasingly global scientific collaborations being enabled by the development of the next generation 'Grid' middleware. The successful development of the Grid will have profound implications for industry and he is much involved with industry in the move towards OpenSource/OpenStandard Grid software.



Dr Frederica Darema

Dr. Darema is the Senior Science and Technology Advisor at EIA and CISE, and Director of the Next Generation Software Program. Dr. Darema's interests and technical contributions span the development of parallel applications, parallel algorithms, programming models, environments, and performance methods and tools for the design of applications and of software for parallel and distributed systems.

Dr. Darema received her BS degree from the School of Physics and Mathematics of the University of Athens - Greece, and MS and Ph. D. degrees in Theoretical Nuclear Physics from the Illinois Institute of Technology and the University of California at Davis respectively. After Physics Research Associate positions at the University of Pittsburgh and Brookhaven National Lab, she became a Technical Staff Member in the Nuclear Sciences Department at Schlumberger-Doll Research. Subsequently, in 1982, she joined the IBM T. J. Watson Research Center as a Research Staff Member in the Computer Sciences Department and later-on she established and became the manager of a research group at IBM Research on parallel applications. While at IBM she also served in the IBM Corporate Strategy Group examining and helping set corporate-wide strategies. In 1984 Dr. Darema proposed the SPMD (Single-Program-Multiple-Data) computational model which has become the popular model for programming today's parallel and distributed computers.

Dr. Darema has been at NSF since 1994, and recently completed a two-year assignment at DARPA where she initiated a new thrust for research on methods and technology for performance engineered systems.



Dr Richard Sinnott

Dr Richard Sinnott recently started (December 2002) as the Technical Director of the National e-Science Centre at the University of Glasgow and oversees the day-to-day running of the Glasgow National e-Science Centre activities. In addition to this, Dr Sinnott has the role of Deputy Director (Technical) of the Bioinformatics Research Centre headed by Prof. David Gilbert.

Dr Sinnott is co-project leader for the BRIDGES project which is investigating data federation and security issues of biomedical data.

Prior coming to Glasgow, Dr Sinnott ran his own consultancy company based in Germany specialising in the area of formal technologies and their application to real time systems development, especially in the telecommunications domain.



Professor Tony Doyle

Tony Doyle is a Professor of Physics at the University of Glasgow, who is currently working on particle physics experiments based at CERN (Geneva) and DESY (Hamburg). He has worked on various data analysis issues, starting with online trigger systems, progressing to Monte Carlo simulation studies and through to physics data analysis.

As an Alexander von Humboldt Fellow, DESY Visiting Scientist and Member of the ZEUS Collaboration, he worked on the analysis of Structure Functions and Hadronic Final States in Deep Inelastic Scattering. More recently, as a PPARC Senior Fellow and Member of the ATLAS Collaboration, he has been working on analysis methods to search for the Higgs boson at the LHC. This task requires significant data and computational resources and led to an interest in Grid Data Management as part of the EU DataGrid project.

He is currently GridPP Project Leader, working with a collaboration of Particle Physicists and Computing Scientists from the UK and CERN, who are building a Grid for Particle Physics. He co-directs the ScotGRID project and is a member of the NeSC Executive. He is a member of the DataGrid Project Management Board, LHC Computing Grid Project Execution Board and the InterGrid Collaboration Board. In addition he serves on the JISC Committee for the Support of Research, the PPARC Particle Physics Advisory Panel, the Institute for Particle Physics Phenomenology Steering Group, and is a Fellow of the Institute of Physics.



Professor David Gilbert

David Gilbert is Professor of Bioinformatics in the Department of Computing Science, and director of the Bioinformatics Research Centre. He holds an MSc and PhD in Computing from Imperial College, London where his research was into modelling concurrent systems using computational logic, and was a member of the team which developed the PARLOG parallel logic programming system. David was an EPSRC Research Fellow at the European Bioinformatics Institute in 1998, and a Leverhulme Research Fellow (2000) in the Department of Biochemistry and Molecular Biology, UCL when he worked on the design and development of the TOPS protein topology computational system.

His current research activities include developing computational models of protein topology and associated pattern discovery methods for protein classification, methods to represent and analyse biochemical pathways, and the use of Grid technologies to support eScience for bioinformatics. The main computational approaches he uses are machine learning, graph theory and concurrency analysis. David is the co-chair of the ECCB04 and ISMB04 joint Bioinformatics Conferences (Glasgow 2004).



Dr R Baxter

Rob graduated in 1989 with a BSc in Physics/Theoretical Physics from the University of St. Andrews. He then spent a year in Cambridge before coming to Edinburgh in 1990, where he completed his PhD in Lattice QCD and subsequently joined EPCC. He now heads the Software Development Group at EPCC and NeSC at the University of Edinburgh. This covers both technology transfer for business and data management for the Grid



Mr Neil Chue Hong

Mr Neil Chue Hong graduated from the University of Edinburgh with an MPhys degree in Computational Physics. Prior to joining EPCC he worked in the Business Systems department of Elida-Faberge. As a consultant within the Industrial Section of EPCC, Neil worked on a diverse range of leading-edge software projects from medical imaging to machine vision, using Java, C, Perl and Fortran.

He now works as a Project Manager, focusing primarily on Grid projects, and leads the software development on OGSA-DAI.