Curriculum Vitae

Higher Education

- BA in Philosophy, University of Cambridge 1975 (MA 1979).

- Diploma in Computer Science, University of Cambridge 1976.

- Ph.D. in Computer Science, University of London 1988.

- MA, University of Oxford, 2001.

Membership of Scientific Academies

- Fellow of the Royal Society since 2004.

- Fellow of the Royal Society of Edinburgh since 2000.

- Member of Academia Europaea since 1993.

Awards and Special Lectures

- **Inaugural Turing Lecturer** The Turing Lecture is sponsored by BCS and IET. The inaugural Turing Lecture was given on 26th January 1999 at the IET headquarters in London: "From Computation to Interaction: towards a science of information".

- **LiCS Test of Time award** Received the LiCS Test of Time Award (a 20-year retrospective) for 'Domain Theory in Logical Form', which appeared in LiCS 1987. The award was presented at LiCS 2007 in Wroclaw.

- **Computer Journal Lecture**. Gave a Computer Journal Lecture on "Quantum Information Flow: A Computer Science Perspective" on 12th June 2007 at BCS.

- **EPSRC SRF** Awarded an EPSRC Senior Fellowship on "Foundational Structures and Methods for Quantum Informatics" in 2007.

- **Clifford Lectures** Will be the Clifford Lecturer at Tulane University in March 2008. With give 5 lectures on "Information Flow in Physics, Geometry and Logic and Computation", with an accompanying workshop featuring a dozen invited speakers.

Appointments

- Current appointment (since October 2000): Christopher Strachey Professor of Computing and Fellow of Wolfson College, Oxford University. Head of Theory and Automated Verification Group.

- 1996–2000: Professor of Theoretical Computer Science, University of Edinburgh.

- 1990-95: Professor of Computing Science and Head of Theory and Formal Methods Section, Department of Computing, Imperial College of Science, Technology and Medicine, London University.

- 1988-90: Reader in Computing Science, Department of Computing, Imperial College of Science, Technology and Medicine, London University.

- 1983–88: Lecturer, Department of Computing, Imperial College of Science and Technology, London University.

- 1980–83: Lecturer, Department of Computer Science and Statistics, Queen Mary College, London University.

- 1978–80: Research Student, Department of Computer Science and Statistics, Queen Mary College, London University.

- 1976–78: Programmer, G.E.C. Computers Limited, working on Operating Systems development.

Part-time and visiting appointments

- Consultant to G.E.C. Hirst Research Centre (1985–1988).

- Visiting Lecturer, Programming Methodology Group, Chalmers University, Göteborg Sweden, March 1984.

- Visiting Professor, Computer Science Department, University of Nijmegen, the Netherlands, March–April and August, 1986.

- Nuffield Science Research Fellow, 1988–89.

- Visiting Associate Professor, Department of Computer and Information Science, University of Pennsylvania, Philadelphia U.S.A., January–June 1989.

- Visiting Professor, Department of Mathematics, University of Pennslyvania, Philadelphia U.S.A., April–May 1998.

- Visiting Researcher, Kestrel Institute, Palo Alto U.S.A., September 1998.

- Visiting Researcher, Kestrel Institute, Palo Alto U.S.A., January 2000.

- Visiting Professor, Paris VII, October and December 2001.

Committee Service

- Member of the Nevanlinna Prize Committee for 2006.

- Member of Sectional Committees of the Royal Society and the Royal Society of Edinburgh.

- Member of the Scientific Steering Committee of the Isaac Newton Institute for the Mathematical Sciences in Cambridge, 2003–2006.

- General Chair for the International Symposium on Logic in Computer Science, the major conference in the field, for the period 2000-2003.

- Member of the BCS Learned Society Awards Committee, which awards leading national prizes including the Needham and Lovelace awards, 2003–2006. Chair 2006–2007.

- Member of the Ackermann Prize committee, which makes an award to the outstanding Ph.D. theses produced in the Computer Science Logic area internationally (on behalf of the European Association for Computer Science Logic), 2004–2007.

- Member of Steering Committees of several conferences (LiCS, TLCA, CTCS).

- Member of the Editorial Boards of the *North Holland Studies in Logic and Foundations of Mathematics*, 1991–2007, the *Cambridge Tracts in Theoretical Computer Science*, and the *Springer Undergraduate Topics in Computer Science*.

- Member of the Executive of the UK Computing Research Committee, an expert panel for the BCS and IEEE, which plays a leading role in the UK research community.

Teaching Activities

Undergraduate Courses

- Programming Languages (2nd year) 1980–83

- Theory of Computation (3rd year) 1981–83

- Compilers (2nd year) 1983–85

- Program derivation and verification (1st year) 1984–88

- Design and Analysis of Algorithms (2nd year) 1989–1990

- Topics in Computing: a taste of concurrent programming (1st year) 1990–93

- Software Engineering: formal specification in Z (2nd year) 1992–95

- Introduction to Programming in C (1st year), 1996–99

- Compiling Techniques (3rd year), 1999–2000

- Game Semantics (3rd and 4th year), 2000-2004.

- Concurrency (2nd year), 2001–2002.

- Intelligent Systems I, 2003-2005.

Masters and Postgraduate Courses

- Concurrency (Advanced M.Sc.) 1982–83

- Semantics of Programming Languages (Advanced MSc.–MEng) 1985–95.

- Non-Determinism (Ph.D.) 1982–84

- Intuitionistic Type Theory (Ph.D.) 1984–85

- Introduction to Game Semantics (Ph.D.) 1996–2000.

- Categories, Proofs and Programs (Masters) 2001–2007.

- Domain Theory (Masters) 2005–2007.

Ph.D. Student Supervision

- Chih-Hao Luke Ong, 1985–88. Ph.D. awarded 1988: *The lazy λ-calculus: an investigation into the foundations of functional programming.* Elected to Trinity College Fellowship 1988. Currently Professor of Computing Science and Fellow of Merton College, Oxford University.

- David Fuller, 1985–89. Ph.D. awarded March 1989: *Partial evaluation and Logic Programming.* Curently Associate Professor at the University of Santiago, Chile.

- Bent Thomsen, 1987–90. Ph.D. awarded February 1990: *Calculi for Higher-Order Communicating Systems.* Currently Associate Professor, Aalborg University, Denmark..

- Ian Mackie, 1991–94. Ph.D. awarded 1994: *The Geometry of Implementation: applications of the Geometry of Interaction to language implementation*; nominated for BCS Distinguished Dissertation. Currently Senior Lecturer at University of Sussex.

- S. Gay, 1991–94. Ph.D. awarded 1995: *Linear Types for Communicating Processes.* Currently Senior Lecturer at Glasgow University.

- Guy McCusker, 1993–96. Ph.D. awarded 1996: *Games and Full Abstraction for a functional metalanguage with recursive types.* Won Kleene award for best student paper at LiCS '96. Elected to a Junior Research Fellowship at St. John's College Oxford in October 1996. Thesis selected for 1997 BCS Distinguished Dissertations. Currently Professor of Computer Science at Bath University.

- Rajagopal Nagarajan, 1993–96. *Typed Concurrent Programs: Specification and Verification.* Currently Associate Professor at University of Warwick.

- James Laird, 1995–98. Ph.D. awarded 1999: *A Semantic Analysis of Control.* Currently Lecturer at University of Bath.

- Jose Espirito Santo, 1996–99. Ph.D. awarded 2002: *Conservative extensions of the lambda-calculus for computational interpretations of the sequent calculus.* Currently Assistant Professor, University of Minho, Portugal.

- Juliusz Chroboczek, 1996–2000, Ph.D. awarded 2003: *Game Semantics for Subtyping.* Currently Researcher, CNRS Lab PPS, Paris.

- Jan Jürjens, 1998–2002, Ph.D. awarded 2004: *Principles for Secure Systems Design.* Currently Senior Lecturer, Open University, Milton Keynes, U.K.

- Ross Duncan, 2002-2006, Ph.D. awarded 2007: *Types for Quantum Computing.* Currently EPSRC Post-Doctoral Research Fellow, Oxford.

- Current students: Nikos Tzevelekos, Bill Edwards, Ben Jackson, Colin Stephen, Philip Atzemoglou, Jacob Biamonte.

Research

Research Grants

I am currently Principal Investigator of the lead site for the EU FET STREP project "QICS: Foundational Structures for Quantum Information and Computation", of the EPSRC Platform Grant "Centre for Metacomputation", and of the Leverhulme Grant "Where quantum meets classical: foundational structures and their ramifications". I also hold an EPSRC Senior Research Fellowship.

- SERC GR/B/83872 *The Development of a Distributed Pascal-m System* (with R. Bornat and G. Coulouris), £53,000 1/11/81–31/10/83.

- SERC GR/C/19004 *An Applicative Programming Methodology for Concurrent and Distributed Systems*, £43,340 1/10/82–30/9/84.

- SERC GR/C/61799 *Foundations of Parallelism and Non-Determinism in Declarative Programming* (with T. S. E. Maibaum), £81,050 1/4/84–31/3/87.

- ALVEY/SERC GR/D/58698 - SE/098 *Formal Methods for Declarative Languages*, £160,480 1/10/85–30/9/88.

- ALVEY ALV/PRJ/SE/041 *Workshop on Abstract Interpretation of Declarative Languages* (with C. Hankin), £16,000 1/7/85–30/10/85.

- ALVEY F/QBI/85 Contract No. 50/809/86. *Handbook of Logic in Computer Science* (with D. Gabbay and T. S. E. Maibaum). £50,000 12/86–12/89.

- ESPRIT Project 415 *Parallel Architectures and Languages for Advanced Information Processing - A VLSI Approach*, Subcontractor to G.E.C. Hirst Research Centre on Subproject B, 1985-87.

- SERC GR/G 57895 Rolling Grant *Foundational Structures for Computing Science*, (with A. Edalat, T. S. E. Maibaum, I. C. C. Phillips, P. Taylor, S. J. Vickers, and M. B. Smyth), £297,000 1/10/88–30/9/92. Reviewed and rolled forward in 1990 (£343,579), 1992 (£559,433), and January 1995 (£804,861). Final term 1/4/95–15/12/99.

- SERC GR/F 72475 Special Revisable Grant *Foundational Models for Software Engineering*, (with T. S. E. Maibaum, I. C. C. Phillips, S. J. Vickers and M. B. Smyth), £199,604, 1/8/89–31/7/93.

- ESPRIT Basic Research Action P3124 SEMANTIQUE (with Chris Hankin), May 89 to October 91, total funding 1.1 MECU, IC funding 261 KECU.

- ESPRIT Basic Research Action P3003 CLICS (project leader), October 89 to March 92, total funding 540 KECU, IC funding 91 KECU.

- ESPRIT Basic Research Action 6811 CLICS II (project leader), 1/9/92–31/8/95, 0.9 MECU.

- SERC GR/G 24576 Visiting Fellowship for Professor B. Trakhtenbrot, £9,775, 9/7/90–8/9/90.

- ESPRIT Basic Research Action 6454 CONFER, 1/8/92–31/7/95, 1.2 MECU.

- SERC GR/J 65822 Visiting Fellowship for Professor J. C. Reynolds, £39,126, 1/6/94–31/5/95.

- ESPRIT (Framework IV) Working Group CONFER 2, 1/1/97–31/12/99, Edinburgh funding 20 KECU.

- EPSRC GR/L39346, Typed Concurrent Object-Oriented Languages: Foundations, Methods and Tools 1/4/97–31/3/2000, £183,575.

- EPSRC Mathfit Instructional Meeting on Games and Computation (jointly with Colin Stirling). £4,250. Meeting held in Edinburgh in June 1997.

- European Framework IV TMR Network ERB FMRX-CT98-0170 Linear Logic in Computer Science, 1/5/98–30/4/2002, 1.35 MECU, Edinburgh funding 210 KECU.

- European Framework IV ESPRIT Working Group APPSEM, 1/4/98–31/3/2001, 300 KECU, Edinburgh funding 15.6 KECU.

- EPSRC GR/M75860, Visiting Fellowship for Professor R. Jagadeesan, £4,500, 15/5/99–5/6/99.

- EPSRC GR/R87376, Visiting Fellowship for Dr. Dusko Pavlovic, £9,766, 1/4/02–31/5/02.

- EPSRC GR/R84283, Geometry of Interaction and the Foundations of Reversible and Quantum Computing, 15/4/2002–14/4/2005, £153,649.

- EPSRC GR/R88861, Algorithmic Game semantics and its Applications, 7/4/02–6/4/05, £319,022.

- U.S. ONR, Combining qualitative and quantitative theories of information, 14/7/03–13/7/06, $200,000.

- EPSRC GR/S57518, Foundations of Probabilistic and Quantum Computation. Senior Visiting Fellowship for Professor Prakash Panangaden, 26/8/2003–25/8/2004, £21,145.

- EPSRC EP/C500032/1, High-Level Methods for Quantum Computation and Information, 1/9/04–31/8/07, £200,328.

- EPSRC EP/C536878/1, Polarized Logic, Geometry of Interaction and Foundations of Quantum Computation, Senior Visiting Fellowship for Professor Philip Scott, 15/10/04–14/2/05, £7,500 .

- EPSRC Platform Grant EP/D038987/1, Centre for MetaComputation, 1/3/06–28/2/10, £431,107.

- Leverhulme Trust Research Award F/01 237/A, "Where quantum meets classical: foundational structures and their ramifications", 1/1/07–31/12/09, £70,475.

- EU FET STREP QICS: Foundational Structures for Quantum Information and Computation, 1/1/07–31/12/09, 1.65 M Euro.

- EPSRC Senior Research Fellowship EP/E052819/1, Foundational Structures and Methods for Quantum Informatics, 1/10/07–30/9/12, £558,598.

Professional Activities

Activities in the U. K. Science and Engineering Research Council

- Member, Computing Science Subcommittee, 1984–88.

- Member, Education and Training Working Group, Information Technology Directorate, 1986–88.

- Co-proposer, Special Initiative in Logic for Information Technology.

- Chairman, Management Panel for the Special Initiative in Logic for Information Technology, 1988–1992.

Activities in EPSRC

- Member of College of Referees for IT and Computer Science programme.

- Member of panels to review the Isaac Newton Institute for the Mathematical Sciences, 1997 and 1999.

Membership of Editorial Boards

- *Cambridge Series of Tracts in Theoretical Computer Science*, published by Cambridge University Press, 1987–.

- North Holland *Studies in Logic and the Foundations of Mathematics*, 1991–2007.

- *Journal of Logic and Computation*, 1990–.

- *Mathematical Structures in Computer Science*, 1991–2007.

- Springer *Undergraduate Topics In Computer Science*, 2007–.

Membership of Conference Programme Committees

- PARLE (European Conference on Parallel Languages and Architectures);

- ICALP (International Colloquium on Automata, Languages and Programming);

- CTCS (Conference on Category Theory and Computer Science);

- ESOP (European Symposium on Programming);

- CAAP (Conference on Trees in Algebra and Programming);

- POPL (ACM Symposium on Principles of Programming Languages); London Mathematical Society Symposium on Applications of Categories to Computer Science;

- LiCS (International Symposium on Logic in Computer Science).

- CSL (Computer Science Logic).

- MFCS (Mathematical Foundations of Computer Science).

- TLCA (Typed Lambda Calculus and its Applications).

- PPDP (Principles and Practice of Declarative Programming).

- QPL (Quantum Programming Languages).

- CiE (Computability in Europe).

Programme Committee Chair

- CAAP 1991.

- LiCS 1994.

- TLCA 2001.

LiCS Advisory Board   Founding member from 1997–2003.

LiCS General Chair   General Chair of the International Symposium on Logic in Computer Science (LiCS), 2000–2003.

Conference Steering Committees   LiCS, TLCA, CTCS.

Isaac Newton Institute for the Mathematical Sciences   Principal organiser of a programme on the Semantics of Computation held at the Isaac Newton Institute in Cambridge July–December 1995.

   Member of the **Scientific Steering Committee**, 2002–2006.

BRICS Member of the international advisory panel for the Basic Research Institute in Computer Science, Aarhus, Denmark.

EACSL Member of the Scientific Council of the European Association for Computer Science Logic.

Examiner PhD examiner for the Universities of Cambridge, Edinburgh, Warwick, Paris VII, Pisa, Oxford; DSc examiner for Aarhus University and Cambridge University. Habilitation examiner for the University of Paris.

External Member of Appointments Panels Member of panel for appointment of a Chair in Computer Science at Chalmers University Goteberg (twice), and at the University of Leicester, and for lectureships at Aarhus and Oxford. Member of panels for appointments to Regius Chair of Botany, and Chair of Logic and Metaphysics, University of Edinburgh. Member of panel for appointing Chair in Computer Science at University College Dublin.

International External Reviews

- Chair of panel to review two Laboratories of National ICT Australia (NICTA), September 2005.

- Member of International Advisory Panel to French Ministry of Research Directorate General for Research and Innovation, May 2007.

- Member of panel to review the CNRS Laboratory PPS, January 2008.

Invited Speaker

1. "Semantic Foundations of Applicative Multiprogramming" and "Introduction to Streams", Workshop on Semantics of Programming Languages, Chalmers University Gothenberg, September 1983.

2. "Domain theory as a theory of experiments", Seminar on Concurrency, Carnegie-Mellon University, July 1984.

3. "Some Dichotomies in Theoretical Computer Science", Seminar on Program Specification and Derivation, Marstrand, June 1985.

4. "Introduction to Categories and Domains" and "Strictness Analysis and Polymorphic Invariance", Workshop on Abstract Interpretation, Canterbury, August 1985.

5. "Total vs. Partial Objects in Denotational Semantics", Workshop on Category Theory and Computer Programming, Surrey University, September 1985.

6. "Strictness Analysis and Polymorphic Invariance", Workshop on Programs As Data Objects, Copenhagen University, October 1985.

7. "Introduction to Categories and Domains", Dutch National Concurrency Project Seminar, CWI Amsterdam, February 1986.

8. "Domain Theory in Logical Form", Workshop on Program Logics, Marstrand, June 1987.

9. "Introduction to Domains" and "Some applications of Stone duality in Computer Science", London Mathematical Society Instructional Conference on Computer Science, Isle of Thorns, May 1987.

10. "Domain Theory in Logical Form", Colloquium on Domain theory, Leeds, June 1987.

11. "Recursion and Induction", "Introduction to Domain theory". and "The lazy lambda calculus", Institute of Declarative Programming, Austin, Texas, August 1987.

12. "A Cook's tour of the finitary non-well-founded sets", 4th British Theoretical Computer Science Colloquium, Edinburgh, March 1988.

13. "Tutorial on Concurrency", 17th International Symposium on Principles of Programming Languages, Austin, Texas, January 1989.

14. "Stone duality in Theoretical Computer Science", Mid-Atlantic Mathematical Logic Symposium, Philadelphia, March 1989.

15. "Denotational Semantics and the Logic of Observable Properties", IBM Distinguished Lecture on Semantics, T. J. Watson Research Center, March 1989 (the other lecturers in this series were Albert Meyer, Dana Scott, John Reynolds and John Mitchell).

16. "Stone Duality as a unifying framework for programming language semantics and logic", Symposium on Mathematical Foundations of Programming Language Semantics, Tulane, New Orleans, April 1989.

17. "Topological Aspects of non-well-founded sets", International Symposium on Topology, Oxford, June 1989.

18. "Observational logic and Process Semantics", International Symposium on Logic in Computer Science ("Logic at Botik"), Pereslavl, U.S.S.R., July 1989 (the other Western invited speaker was Yiannis Moschovakis).

19. "Non-well-founded sets", International Workshop on Logic from Computer Science, Mathematical Sciences Research Institute, Berkeley, November 1989 (the other invited speakers giving one-hour lectures were J.-Y. Girard, D. Scott, P. Martin-Lof, N. Immerman, K. Kunen, A. Meyer, P. Pudlak and A. Scedrov).

20. "Process and Types", Workshop on Object-Based Concurrent Systems, ECOOP/OOPSLA 1990, Ottawa, October 1990.

21. "Proofs as Processes", Invited lecture, Trakhtenbrot Symposium, Tel Aviv, June 1991.

22. "Linear Realizability", Invited lecture, International Category Theory Meeting, Montreal, June 1991.

23. "Linear Realizability", Invited lecture, London Mathematical Society Symposium on Category Theory in Computer Science, Durham, July 1991.

24. "Introduction to Linear Logic" (6 lectures), Advanced School on Concurrency: Algebraic, Logical and Categorical Approaches, Gargnano, Lake Garda, Italy, October 1991.

25. "Tutorial on Linear Logic", International Logic Programming Symposium, San Diego, October 1991.

26. "New Foundations for the Geometry of Interaction", CLICS Worskhop, Aarhus, March 1992.

27. "Tutorial on Linear Logic", 7th International Symposium on Logic in Computer Science, Santa Cruz, June 1992.

28. "Proofs and programs" (5 lectures), Summer School on Categorical and Algebraic Methods in Computer Science, Prague, July 1992.

29. "Games and Types", International Summer School on Logic, Language and Information, Colchester, August 1992.

30. "Games and Types", Opening event, Netherlands Logic Year, Utrecht, September 1992.

31. "Games as a Unifying framework for the Semantics of Computation", International Symposium on Foundations of Software Technology and Theoretical Computer Science, New Delhi, December 1992.

32. "Interaction Categories", Linear Logic Workshop, Mathematical Sciences Institute, Cornell, June 1993.

33. "Full Abstraction for PCF", North American Jumelage, SRI Menlo Park, October 1993.

34. "Interaction categories", International Workshop on Mathematical Foundations of Programming Semantics, Manhattan Kansas, March 1994.

35. "Full Abstraction for PCF", International Symposium on Theoretical Aspects of Computer Software, Sendai, Japan April 1994.

36. "Interaction categories and the foundations of typed concurrent programming". Course of 9 lectures at Nato Advanced Study Institute on Deductive Program Design, Marktoberdorf, August 1994.

37. "Interaction categories". Course of lectures at Workshop on Logics for Concurrency, Banff, Canada, September 1994.

38. "Games and Full Abstraction for PCF". Workshop on the Full Abstraction Problem, BRICS, Aarhus, April 1995.

39. "Semantics of Interaction". Workshop on Semantics of Programming Languages, Darmstadt, May 1995.

40. "Semantics of Interaction" (5 lectures), CLICS Summer School on Semantics and Logics of Computation, Isaac Newton Institute, Cambridge, August 1995.

41. "Semantics of Interaction". International Symposium on Foundations of Computation Theory, Dresden, August 1995.

42. "Semantics of Interaction". CAAP '96, Linkoping, Sweden, April 1996.

43. "Linearity, Sharing and State: a fully abstract game semantics for Idealized Algol". Linear '96, Tokyo, April 1996.

44. "Intensional Semantics and Complexity". Workshop on Computational Complexity and Programming Languages, DIMACS, Rutgers, July 1996.

45. "Retracing some paths in process algebra". CONCUR '96: 7th International Conference on Concurrency Theory, Pisa, August 1996.

46. "Interaction, Combinators and Realizability", International Symposium on Mathematical Foundations of Programming Language Semantics, Pittsburgh, March 1997.

47. "Interaction, Combinators and Realizability", Workshop of TMR Network on Typed Lambda-Calculi, Sienna, April 1997.

48. "Introduction to Game Semantics", Mathfit instructional meeting on Games and Computation, Edinburgh, June 1997.

49. "Recent developments in Game Semantics", Workshop on New Trends in Semantics, Bologna, July 1997.

50. "Game semantics", (5 lectures), Nato ASI on Logic and Computation, Marktoberdorf, August 1997.

51. "Game Semantics", Workshop on Games, Logic and Computation, Aarhus, August 1997.

52. "Games and the semantics of programming languages", Mathematical Foundations of Computer Science, Bratislava, August 1997.

53. "Interaction Categories", (5 lectures), Summer school on Models and Paradigms for Concurrency, CISM, Udine, Italy, September 1997.

54. "Concurrent Games and the Semantics of Linear Logic", Seminar on Problems and Advances in the Semantics of Linear Logic, Utrecht, November 1997.

55. "Game Semantics as a Logical Dynamics", 11th Amsterdam Colloquium, Amsterdam, December 1997.

56. "Concurrent Games and Full Completeness", Workshop on Linear Logic, CIRM, Luminy, April 1998.

57. "Some New Uses for Domain Theory", International Workshop on Mathematical Foundations of Programming Language Semantics, London, May 1998.

58. "From Computation to Interaction: towards a science of information", Inaugural BCS/IEE Turing Lecture, London, January 1999.

59. "A Tutorial on Games and Process Realizability" and invited lecture on "Concurrent Games and Full Completeness", International Workshop on Logic, Language, Information and Computation, Rio de Janeiro, May 1999.

60. "Game semantics, full completeness and process realizability" (5 lectures), Nato ASI on Foundations of Secure Computation, Marktoberdorf, July-August 1999.

61. "Concurrent games and full completeness", plenary lecture, Logic Colloquium, Utrecht, August 1999.

62. "Concurrent Interaction Games", Symposium in Celebration of the work of C. A. R. Hoare, Oxford, September 1999.

63. "Process Realizability", Inaugural Workshop for CNRS Laboratory for Proofs, Progams and Systems, Paris, October 1999.

64. "From Computation to Interaction". Strachey Lecture, Oxford, October 1999.

65. Sixteenth Workshop on the Mathematical Foundations of Program Semantics, (MFPS), New Jersey, April 2000.

66. 27th International Colloquium on Automata, Languages and Programming (ICALP), July 2000.

67. Fourth International Symposium on Logic and the Foundations of Game and Decision Theory (LOFT), Torino, July 2000.

68. "Game Semantics" (5 lectures), Summer School on Linear Logic and its Applications, San Miguel, Azores, September 2000.

69. "Game Semantics", CSLI Workshop, Stanford, May 25–28 2001,

70. "A Structural Approach to Reversible Computation", 1st AMS-SMF Meeting, Lyons, July 17–20, 2001.

71. "Algorithmic Game Semantics" (4 lectures), Marktoberdorf Summer School, July 23–August 4th 2001.

72. "Predicative Copying and Polynomial Time", Clifford Lecture series, Tulane University, March 19–22 2002.

73. "Introduction to Game Semantics" (4 lectures), 1st North American Summer School on Logic, Language and Information (NASSLI), Stanford, June 24–30 2002.

74. "A Game semantics for Generic Polymorphism", British Logic Colloquium, Birmingham University, September 12–14 2002.

75. "Games and Interaction", LOGAMAS Workshop, University of Liverpool, December 16–17, 2002.

76. "Games, Logic and Interaction", Seminar on Logic and Informatics (SLI 2003), Free University Brussels, March 31st 2003.

77. "Generic Theories and Theories of Genericity", FOSSACS Invited Lecture, ETAPS, Warsaw, April 6–11 2003.

78. "Game Semantics" (6 lectures), Fields Institute Summer School in Logic and Computation, Ottawa June 2–20 2003.

79. "A Game Semantics for Generic Polymorphism", Workshop on Games, Fields Institute Summer School in Logic and Computation, Ottawa June 2–20 2003.

80. "Physical Traces", Workshop on Quantum Programming Languages, Fields Institute Summer School in Logic and Computation, Ottawa June 2–20 2003.

81. "Domains and Interaction", DIMACS Workshop on Applications of Lattices and Ordered Sets to Computer Science, Rutgets, July 8–10 2003.

82. "The Logic and Geometry of Agents", IMA Workshop on Agent Based Modelling and Simulation, Minneapolis, November 3–6 2003.

83. "Algorithmic Game semantics and Software Model-checking", COMETA 2003, Udine 15–17 December 2003.

84. "A Categorical Semantics for Quantum Protocols", Philosophical Logic meets Mathematical Logic: from Classical to Quantum, Brussels, February 5–7 2004.

85. "A Cook's tour of a simple quantum programming language", Theory Day of the Dutch Association for Theoretical Computer Science, Utrecht, March 5th 2004.

86. "A Cook's tour of a simple quantum programming language", Workshop on Models of Computation, International Logic and Computer Science Semester at Tel Aviv, March 10–12 2004.

87. "Abstract Quantum Mechanics" (3 lectures), Workshop on Quantum Computation, Bellairs Research Institute, Barbados, April 12–15 2004.

88. "A Cook's tour of a simple quantum programming language", 3rd International Symposium on Domain Theory, Xi'an, China, May 10–14 2004.

89. "Information is Physical, but Physics is Logical", 19th international Symposium on Logic in Computer Science (LiCS), Turku, Finland, June 14–17 2004.

90. "Information is Physical, but Physics is Logical", Mathematical Foundations of Computer Science and Information Technology, Dublin, June 22-23 2004.

91. "Game Semantics, Open Systems and Components", Third International Symposium on Formal methods for Objects and Components, Leiden, November 2–5, 2004.

92. "Game semantics and Infinite Games", Foundations of the Formal Sciences V: Infinite Games", Bonn, November 26–29, 2004.

93. "Information is Physical, but Physics is Logical", 21st International Conference on Mathematical Foundations of Programming Semantics, Birmingham, May 19–21, 2005.

94. "Information is Physical, but Physics is Logical", Computability in Europe 2005: New Computational Paradigms, Amsterdam, June 8–12, 2005.

95. "Algorithmic Game Semantics and Static Analysis", Static Analysis Symposium, Imperial College London, September 2005.

96. Tutorial on "Logics as Type Theories for Quantum Processes" and Lecture on "Information is Physical, but Physics is Logical", Workshop on Quantum Information, Computation and Logic, Perimeter Institute, Waterloo, July 2005.

97. "Categorical Quantum Mechanics", Max Planck Institute Workshop on Quantum Gravity, Blaubeuren, July 2005.

98. "An Algebraic and Graphical Calculus for Quantum Processes", Twenty-five Years of Algebraic Process Calculi, Bertinoro, August 2005.

99. "A Mad Day's Work in Theoretical Computer Science", First Conference on Algebras and Coalgebras in Computer Science (CALCO), Swansea, September 2005.

100. "Socially Responsive, Environmentally Friendly Logic", Seventh Augustus de Morgan Workshop, King's College London, November 2005.

101. "Categorical Quantum Mechanics", NSF Workshop on Mathematics of Quantum Computing and Technology,Texas A&M University, November 2005.

102. "Temperley-Lieb Algebras: from Cut-elimination to Knot theory via Quantum Mechanics", Workshop on Mathematics of Quantum Information and Computation, Institut Henri Poicaré, Paris, December 2005.

103. 'Socially Responsive, Environmentally Friendly Logic", Workshop on Semantics and its Applications, Tel-Aviv, December 2005.

104. "Socially Responsive, Environmentally Friendly Logic", Workshop on Semantics and Games, CIRM Luminy, February 2006.

105. "Temperley-Lieb Algebras: from Cut-elimination to Knot theory via Quantum Mechanics", Workshop on Geometry of Interaction, CIRM Luminy, February 2006.

106. "The Logic of Quantum Information Flow", 3rd Annual Conference on Theory and Applications of Models of Computation, Beijing, May 2006.

107. "Full Completeness Revisited", École de Printemps en Informatique Théorique, Ile de Ré, May–June 2006.

108. "Categorical Quantum Logic", Logic Colloquium, Nijmegen, August 2006.

109. "Full Completeness Revisited", Workshop on Games and Logic of Programs, Federated Logic Conference, Seattle, August 2006.

110. "Temperley-Lieb Algebras: from Cut-elimination to Knot theory via Quantum Mechanics", Workshop on Geometry of Interaction, Dagstuhl Seminar on Computational Structures for Modelling Space, Time and Causality, August 2006.

111. "Full Abstraction and Full Completeness", Symposium in honour of Gordon Plotkin, Edinburgh, September 2006.

112. "Streams, Concrete Data Structures, and Concurrent Games", Symposium in memory of Gilles Kahn, Maison des Arts et Métiers Paris, January 2007.

113. Copy-cat Strategies and Information Flow in Physics, Geometry, Logic and Computation, Workshop on New Perspectives on Games and Information, Dutch Royal Academy of Sciences (KNAW), February 2007.

114. "Petri Nets, Discrete Physics, and Distributed Quantum Computation". 28th Annual Conference on Theory and Practice of Petri Nets, Siedlce, June 2007.

115. "Domain theory in logical form revisited", lecture on receipt of Test-of-Time award, LiCS, Wroclaw, July 2007.

116. Copy-cat Strategies and Information Flow in Physics, Geometry, Logic and Computation, joint invited talk for Workshops on Developing Models of Computation and on Traced Monoidal categories, Wroclaw, July 2007.

117. "Domain theory in logical form revisited: a 20-year retrospective". In Algebraic and Topological Methods in Non-Classical Logics III, Oxford, August 2007.

118. "Geometry of Proofs". British Logic Colloquium, London, September 2007.

119. "Full Completeness: Geometric and Interactive Characterizations of the Space of Proofs". Seventeenth EACSL Conference on Computer Science Logic, Lausanne, September 2007.

120. "Towards Information Dynamics", Workshop on Philosophy of Information, Oxford, November 2007.

121. "Games, Interaction and Computation", BCS-FACS/LMS Lecture, De Morgan House, London, November 2007.