

CURRICULUM VITAE

ANDREW P. BLACK

19 November 2004

Education

Degree Awarded	Degree Date	Dates Attended	Subject and Institution
D. Phil.	January 1984	Oct. 1977–Nov. 1978 & Jan. 1980–Oct. 1981	Computation, University of Oxford, Oxford, England
B.Sc. with First Class Honours	July 1977	Oct. 1974–June 1977	Computing Studies, University of East Anglia, Norwich, England

Employment

Sep. 2004–present	Professor, Computer Science Department, Portland State University, University, Portland, Oregon.
Jan. 2000–present	Professor, Department of Computer Science & Engineering, OGI School of Science & Engineering, Oregon Health & Science University (formerly Oregon Graduate Institute).
Apr. 2002–July 2002	Consultant to Intel Research, Seattle.
Sep. 2001–Dec. 2001	Guest-Professor, Software Composition Group, University of Bern, Switzerland.
Sep. 1994–Aug. 1999	Visiting Professor, University of Glasgow. (Non-renewable five-year appointment.)
Jul. 1994–Dec. 1999	Professor and Head of Department, Department of Computer Science and Engineering, Oregon Graduate Institute, Portland, Oregon.
Oct. 1998–Dec. 1998	Consultant to Aspect-oriented Programming Group, Xerox Palo Alto Research Center.
Aug. 1989– June 1994	Member of Research Staff, Cambridge Research Laboratory, Digital Equipment Corporation, Cambridge, Massachusetts.
Sep. 1991–June 1993	Adjunct Professor in the Division of Applied Sciences (computer science department), Harvard University.
Dec. 1986–Aug. 1989	Member of Technical Staff, Distributed Systems Advanced Development Group, Digital Equipment Corporation, Littleton, Massachusetts.
Nov. 1981–Dec. 1986	Research Assistant Professor, University of Washington, Department of Computer Science.
Nov. 1978–Dec. 1979	Special Assistant (Software Technology Project), IBM T.J. Watson Research Center, Yorktown Heights, New York.
Summer 1975 & Jan.–Aug. 1974	Programmer, Thames Polytechnic Computer Centre, London, England.

Dissertation

Exception Handling: The Case Against. January 1982. Supervisor: C.A.R. Hoare.

Refereed Publications or Other Creative Achievements

1. Books

None

2. Chapters

None

3. Articles

1. Nathanael Schärli, Andrew P. Black and Stéphane Ducasse. *Object Encapsulation for Dynamically Typed Languages*. ACM Conference on Object-Oriented Programming Systems, Languages and Applications (OOPSLA '04 –Technical Track), Vancouver, B.C., October 2004. pp.130–149.
2. Emerson Murphy-Hill and Andrew P. Black. *Traits: Experience with a Language Feature*. ACM Conference on Object-Oriented Programming Systems, Languages and Applications (OOPSLA '04 –Practitioners Track), Vancouver, B.C., October 2004. Conference Companion pp.275–282.
3. Philip J. Quitslund, Emerson R. Murphy-Hill and Andrew P. Black. *Supporting Java Traits in Eclipse*. Proceedings of the Eclipse Technology Exchange at OOPSLA '04, October 2004, pp. 42–46.
4. Philip J. Quitslund and Andrew P. Black. *Java with Traits – Improving Opportunities for Reuse*. Proceedings of the MASPEGHI (MechAnisms for SPEcialization, Generalization and inHerItance). Workshop at ECOOP 2004. Oslo, July 2004. Proceedings published as Laboratoire I3S, Projet OCL Rapport de recherche I3S/RR-2004-15-FR.
5. Andrew P. Black and Nathanael Schärli. *Traits: Tools and Methodology*. Proceedings, International Conference on Software Engineering, Edinburgh, May 2004, pp. 676-686.
6. Andrew P. Black and Mark P. Jones. *The Case for Multiple Views*. Proceedings of the ICSE Workshop on Directions in Software Engineering Environments, Edinburgh, Scotland, May 2004.
7. Nathanael Schärli and Andrew P. Black. *A Browser for Incremental Programming*. Computer languages, Systems and Structures, **30** (1–2), April–July 2004, pp. 79–95.
8. Andrew P. Black, Vincent Cremet, Rachid Guerraoui and Martin Odersky, *An Equational Theory for Transactions*, 23rd Conference on Foundations of Software Technology and Theoretical Computer Science, LNCS **2914**, Mumbai (Bombay), India, December 2003, pp. 38-49.
9. Andrew Black, Nathanael Schärli and Stéphane Ducasse. *Applying Traits to the Smalltalk Collection Classes*. ACM Conference on Object-Oriented Programming Systems, Languages and Applications (OOPSLA), October 2003, Anaheim, CA, pp. 47-64.
10. Nathanael Schärli, Stéphane Ducasse, Oscar Nierstrasz and Andrew Black. *Traits: Composable Units of Behavior*. European Conference on Object-Oriented Programming ECOOP '03, Darmstadt, Germany, July 2003. pp. 248–274.
11. Rainer Koster, Andrew P. Black, Jie Huang, Jonathan Walpole and Calton Pu. *Thread Transparency in Information Flow Middleware*. Software—Practice & Experience, **33**(4), April 2003. pp. 321–349.
12. A. P. Black, J. Huang, R. Koster, J. Walpole, and C. Pu. *Infopipes: an Abstraction for Multimedia Streaming*, Multimedia Systems Journal (Special issue on Multimedia Middleware), **8**(5), Dec. 2002, pp. 406-419
13. Andrew P. Black. *A Use for Inheritance*. In Proceedings of the Inheritance Workshop at ECOOP '02, Málaga, Spain, June 2002. Information Technology Research Institute, University of Jyväskylä, Finland.

14. Oscar Nierstrasz, Gabriela Arévalo, Stéphane Ducasse, Roel Wuyts, Andrew Black, Peter Müller, Christian Zeidler, Thomas Genssler and Reinier van den Born. *A Component Model for Field Devices*. IFIP/ACM Conference on Component Deployment, Berlin, Germany, June 2002, pp. 200-209
15. Johan Nordlander, Mark P. Jones, Magnus Carlsson, Richard B. Kieburtz and Andrew Black, *Reactive Objects*. 5th IEEE International Symposium on Object-oriented Real-time distributed computing, Crystal City, Virginia, USA, April 2002. pp. 155-158
16. Rainer Koster, Andrew P. Black, Jie Huang, Jonathan Walpole, and Calton Pu. *Thread Transparency in Information Flow Middleware*. Middleware 2001 — IFIP/ACM International Conference on Distributed Systems Platforms, Heidelberg, Germany, November 2001. LNCS **2218**, pp.121-140
17. Rainer Koster, Andrew P. Black, Jie Huang, Jonathan Walpole, and Calton Pu. *Infopipes for Composing Distributed Information Flows*. Proceedings of the 2001 International Workshop on Multimedia Middleware, Ottawa, October 2001, ACM Press. pp. 44-47
18. Andrew P. Black, Jie Huang and Jonathan Walpole. *Reifying Communication at the Application Level*. Proceedings of the 2001 International Workshop on Multimedia Middleware, Ottawa, October 2001, ACM Press. pp. 32-35.
19. Huang, J., Black, A.P., Walpole, J. and Pu, C. *InfoPipes—an Abstraction for Information Flow*. ECOOP '01 Workshop on the Next 700 Distributed Object Systems, Budapest, Hungary, June 2001.
20. Andrew P. Black and Mark P. Jones. *Perspectives On Software*. OOPSLA 2000 Workshop on Advanced Separation of Concerns in Object-oriented Systems.
21. Andrew P. Black and Jonathan Walpole. *Aspects of Information Flow*. ECOOP 2000 Workshop on Aspect-Oriented Programming, June 2000.
22. Andrew P. Black. *Object-Oriented Programming: Regaining the Excitement*. Proceedings of ECOOP '99, Springer Verlag LNCS **1628**, pp. 519-528.
23. Andrew P. Black. *Doing the Requirements Work*. International Workshop on Software Engineering Education, ICSE, Boston, Massachusetts. May 1997.
24. Calton Pu, Andrew Black, Crispin Cowan, Jonathan Walpole and Charles Consel. *Microlanguages for Operating System Specialization*. DSL '97—First ACM SIGPLAN Workshop on Domain-Specific Languages, Paris, France. University of Illinois Computer Science Report, January 1997, pp.49-57.
25. Andrew P. Black. *Object-oriented Languages: The Next Generation*. ACM Computing Surveys **28**(4es) December 1996, Article 149 (Article in Electronic Section, which should be at <http://www.acm.org/pubs/citations/journals/surveys/1996-28-4es/a149-black/>, but which is actually at http://www.cse.ogi.edu/~black/Black_in_COMPSUR_format.html).
26. A. P. Black and J. Inouye. *System Support for Mobility*. Seventh ACM SIGOPS European Workshop: Systems Support for Worldwide Applications, Connemara, Ireland, September 1996 ACM SIGOPS, pp. 129-132.
27. M. Mira da Silva, M. P. Atkinson and A. P. Black. *Semantics for Parameter Passing in a Type-complete Persistent RPC*. Proceeding of the 16th Int. Conf. on Distributed Computing Systems, IEEE May 1996, pp. 411-418.
28. Calton Pu, Tito Autrey, Andrew Black, Charles Consel, Crispin Cowan, Jon Inouye, Lakshmi Kethana, Jonathan Walpole and Ke Zhang. *Optimistic Incremental Specialization: Streamlining a Commercial Operating System*. Proceedings of 15th ACM Symposium on Operating System Principles (SOSP), December 1995, pp. 314-324.
29. A. P. Black and J. Walpole, *Objects to the rescue! or httpd: the next generation operating system*, Proceedings, 6th ACM SIGOPS European Workshop, Wadern, Germany, September 1994. ACM Operating Systems Review **29**(1), Jan. 1995, pp. 91-95.
30. Andrew P. Black. *Object Identity*: Proceedings of the IEEE International Workshop on Object-Oriented in Operating Systems (IWOOS), December 1993.

31. A. P. Black and M.P. Immel. *Encapsulating Plurality*. Proceedings of European Conference on Object-Oriented Programming (ECOOP '93), July 1993. Springer LNCS **707**.
32. Andrew P. Black. *Objects are Enough*. ECOOP '93 workshop on Object-based Distributed Programming, July 1993.
33. Andrew P. Black. *Dismissing the "Final Concern", or Matches Rides Again*. ANSA workshop on F-bounded quantification, Cambridge, UK, 1992.
34. Andrew P. Black, *Multiple Inheritance and Type System Design*, ECOOP '92 Workshop on Multiple Inheritance and Multiple Subtyping, Utrecht, The Netherlands. Proceedings published as Working Paper WP-23, Univ. of Jyväskylä, Dept. of Comp. Sci and Inf. Sys. 1992, pp. 35–38.
35. Andrew Black, *Types and Polymorphism in Emerald*, ECOOP '91 Workshop on Types, Inheritance and Assignment, Geneva, Switzerland, July 1991. Proceedings published as PB-357, University of Aarhus, 1991.
36. Andrew P. Black. *Understanding Transactions in the Operating System Context*. Fourth ACM SIGOPS European Workshop. ACM Operating Systems Review **25**(1), Jan. 1991, pp. 73–76.
37. R. K. Raj, E. D. Tempero, H. M. Levy, A. P. Black, N. C. Hutchinson, and E. Jul. *Emerald: A General Purpose Programming Language*. Software—Practice & Experience, **21**(1), Jan. 1991, pp. 91–118.
38. Andrew P. Black, and Yeshauahu Artsy. *Implementing Location Independent Invocation*. IEEE Trans on Parallel and Distributed Systems, **1**(1), Jan. 1990, pp. 107–119.
39. Andrew P. Black, and Yeshauahu Artsy. *Implementing Location Independent Invocation*. Proc. 9th International Conference on Distributed Computing Systems. IEEE Press, June 1989, pp. 550–559.
40. D. Notkin, A. P. Black, E. D. Lazowska, H. M. Levy, J. Sanislo, and J. Zahorjan, *Interconnecting Heterogeneous Computer Systems*, Communications of the ACM, **31**(3), pp. 259–273, 1988.
41. Andrew P. Black and Charles H. Burris, Jr. *A compact representation for file versions: a preliminary report*. Proc. 5th International Conference on Data Engineering. IEEE Press, February 1989.
42. E. Jul, H. Levy, N. Hutchinson and A. P. Black. *Fine-Grained Mobility in the Emerald System*, ACM Trans. Computer Syst., **6**(1), February 1988, pp. 109–133.
43. E. Jul, H. Levy, N. Hutchinson and A. P. Black. *Fine Grained Mobility in the Emerald System*. Proc. 11th ACM Symposium on Operating Systems Principles, Austin, TX, November 1987.
44. Andrew P. Black. *The Workstation as Terminal*. Workshop on Workstation Operating Systems, IEEE TCOS, Cambridge, MA, Nov. 1987.
45. J. H. Maloney and A. P. Black. *File Sessions: A Technique for Analyzing Dynamic File Usage Patterns*. Proc. 3rd International Conference on Data Engineering, Los Angeles, CA. February 1987.
46. A. P. Black, N. Hutchinson, E. Jul, H. M. Levy, and L. Carter. *Distribution and Abstract Types in Emerald*. IEEE Transactions on Software Engineering, January 1987.
47. Andrew P. Black, Norman Hutchinson, Eric Jul, Henry M. Levy. *Object Structure in the Emerald System*. Procs. 1st ACM Conference on Object-Oriented Programming Systems, Languages and Applications, (OOPSLA'86), October 1986, pp. 78–86.
48. Andrew P. Black. *The Eden Project: Overview and Experiences*. Invited paper, European Unix Users Group Conference on Distributed Systems, Manchester, England, September 1986, pp. 177–189.
49. Andrew P. Black and Edward D. Lazowska. *Interconnecting Heterogeneous Computer Systems*. Invited paper, 1986 European Unix Users Group Conference on Distributed Systems, Manchester, England, September 1986, pp. 43–52.
50. Andrew P. Black. *Supporting Distributed Applications: Experience with Eden*. Proc. 10th ACM Symposium on Operating Systems Principles. December 1985, pp. 181–193.
51. Guy Almes, Andrew P. Black, Edward Lazowska and Jerre Noe. *The Eden Project: A Technical Review*. IEEE Trans. Softw. Eng. **SE-11** (1). January 1985, pp. 43–59.

- 52. Guy Almes, Andrew Black, Carl Bunje and Douglas Wiebe. *Edmas: A locally distributed mail system*. Proc. 7th International Conference on Software Engineering, March 1984, pp. 56–66.
- 53. Andrew P. Black. *Asymmetric Stream Communication*. Proc. 9th ACM Symposium on Operating Systems Principles, October 1983, pp. 4–10.

Non-Refereed Publications or Other Creative Achievements

1. Books (Edited)

- 54. Andrew P. Black, Erik Ernst, Peter Grogono and Markku Sakkinen, Eds. *Proceedings of the Inheritance Workshop at ECOOP 2002*. Published by Information Technology Research Institute, University of Jyväskylä, 2002.

2. Chapters

- 55. Gabriela Arévalo, Andrew P. Black, Yania Crespo, Michel Dao, Erik Ernst, Peter Grogono, Marianne Huchard, Markku Sakkinen: *The Inheritance Workshop*, In: ECOOP Workshops 2002. Springer LNCS **2548**, 2002. pp. 117-13.
- 56. Eric Jul, Andrew P. Black, Anne-Marie Kermarrec, Doug Lea, Salah Sadou. *The Next 700 Distributed Object Systems*. In: ECOOP Workshops 2001, Springer LNCS **2323**, 2002. pp.169-173
- 57. Eric Jul, Andrew P. Black, Doug Lea, Robert E. Filman, Ian Welch. *Panel: The Next 700 Distributed Object Systems*. In: ECOOP Workshops 2001, Springer LNCS **2323**, 2002. pp. 208-212.

3. Articles

- 58. Andrew P. Black. *Post-Javaism*. IEEE Internet Computing, Jan./Feb. 2004, pp. 96, 93-95
- 59. A. P. Black and J. Palsberg. *Foundations of Object-Oriented Languages*. ACM SIGPLAN Notices **29**(3) 1994, pp.3-12.
- 60. Andrew P. Black and Norman Hutchinson. *Typechecking Polymorphism in Emerald*. Technical Report CRL 91/1, Digital Equipment Corporation, Cambridge Research Laboratory, Jan. 1991.
- 61. J. M. Adams and A. P. Black, “Letter to the Editor,” Operating Systems Review, **17**(1), January 1983, pp. 6-8. (This letter continues the discussion prompted by publication 62 below.)
- 62. J.M. Adams, A.P. Black. *On Proof Rules for Monitors*. Operating Systems Review, **16**(2) April 1982, pp 18–27.
- 63. A. P. Black and V.J. Rayward-Smith. *Proposals for Algol H — a Superlanguage of Algol 68*. Algol Bulletin Nr 42, May 1978, pp. 36–49.

4. Book reviews

- 64. Review of *Computer Programming Methodology* by Wadysaw Turski. Heyden, January 1978. Full publication data for review not available.

5. Completed works

- 65. Ph. Lahire, G. Arévalo, H. Astudillo, A.P. Black, E. Ernst, M. Huchard, T. Oplustil, M. Sakkinen, P. Valtchev. *MASPEGHI 2004—MechAnisms for SPEcialization, Generalization and inHerItance*. To appear in *ECOOP 2004 Workshop Reader*, Springer LNCS. Expected Publication date: December 2004. pp. 16

6. Completed exhibitions, performances, productions, films, etc.

None

7. Completed compositions, scripts, scores, commissions, etc. (accepted or installed).

None

8. Other

66. Co-inventor (with Y. Artsy) of US Patent Number 5,325,524 granted 28 June 1994: *Locating Mobile Objects in a Distributed Computer System*.

Presentations at Professional Meetings

Note: I have not kept detailed records of my presentations at professional meetings. Consequently, the list here is partial, but gives a flavor of my activities, which include technical talks based on my research, forward-looking talks on the state of the field, and panel presentations and discussions about educational philosophy and curriculum design.

In addition to these presentations, more than *forty* of my refereed publications have been presented at conferences and workshops. Before 1994 (when I was appointed Full Professor) I presented most of these papers personally; since then, many of the presentations have been made by my students and collaborating colleagues.

- Panel presentation: *Building Software that Works—The Educational Component*, Consortium for Computer Sciences in Colleges Northwest Annual Conference, Willamette University, Salem, OR, October 2004.
- Talk: *Abstract Interpretation for Dummies: Program Analysis without Tears*, European Smalltalk Users Group 12th Annual Conference (ESUG 2004), Köthen, Germany, September 2004.
- Keynote speaker: *Distributed Objects: the Next Ten Years* at Workshop on Foundations of Object-Oriented Languages (FOOL), in association with POPL'02, Portland, OR, January 2002.
- Talk: *Timber: Time as a Basis for Embedded real-time systems*, PECOS workshop, Bern, Switzerland, December 2001.
- Presentation: *An Agenda for Embedded Systems Research*. Joint NSF/DARPA Hybrid and Embedded System Workshop, Arlington, VA, October 2000.
- Banquet Speaker: *Object-Oriented Programming: Regaining the Excitement* at European Conference on Object-Oriented Programming, Brussels, June 1998.
- Speaker at the National Educational Computing Conference (NECC'97), Seattle, WA, June 1997.
- Presenter (and co-organizer) at NW Regional workshop *Curricular Innovations to Promote Software Skills*, The Evergreen State College, Olympia, WA, Summer 1996.
- Invited panel member: *Do Hollow Computers Make Sense?*, 15th Symposium on Operating Systems Principles, Copper Mountain, CO, December 1995.
- Invited panel member, ECOOP workshop on Object-based Distributed Programming, 1993.
- Invited panel member, 5th SIGOPS European Workshop, 1992.
- Invited panel member, 9th ICDCS, 1989.
- IEEE Workshop on Design Principles for Experimental Distributed Systems, Purdue University, October 1986.
- Research presentations at NSF CER Meetings, 1982–85.

Honors, Grants, and Fellowships

67. PI, IBM Eclipse Innovations Award. *Supporting Java Traits in Eclipse*, with Philip Quitslund. \$25 000. February 2004.
68. PI, NSF Award CCR-0313401. *ITR: Multiple-view Programming*, with Mark Jones. \$460 000. Sep. 2003–Aug. 2006.
69. PI, NSF Award CCR-0219686. *ITR: A Domain-Specific Language for Infopipes*, with Jonathan Walpole. \$379 697. Sept. 2002 – Aug. 2005.
70. Co-PI, Oregon University System (OUS ETIC award): *Putting 'Perspectives on Software' into Practice*, with Mark Jones. \$50 000. Jan. 2002– June 2003.

71. Co-PI, Object Technology International: *Multiple Views on Software in the Eclipse Platform*, with Mark Jones. \$50 000, Jan. 2002 – Dec. 2003.
72. Co-PI, NSF Award CCR-0098323: *Perspectives on Software*, with Mark Jones. \$229 925, June 2001–May 2003, plus \$6 000 Research Experience for Undergraduates supplement plus \$9 926 travel supplement for sabbatical support.
73. Investigator, DARPA contract: *Temporally-Aware Reactive Programs*. \$3M (including options) July 2000 – August 2004, with M. Jones (PI), R. Kieburtz and J. Walpole.
74. Proposer, J.M. Murdock Charitable Trust: *Research Program Expansion*. \$272 800, 2000–2003. Institutional matching funds for NSF Research Infrastructure Award below.
75. “Key Staff”, J.M. Murdock Charitable Trust: *Technology for Education at OGI*, with Prof Dan Hammerstrom, Head of ECE. \$1M for institution-wide educational infrastructure, 1998-99.
76. Principal Investigator, NSF Research Infrastructure Award CDA-9703218: *A Wide-Spectrum Infrastructure for Software Research*. \$1 201 310 + \$515 897 OGI contribution + \$200 000 industrial contribution. July 1997– June 2002. Department-wide infrastructure grant.
77. Investigator, DARPA contract: *Applying Specialization to Improve Survivability of OS kernels*, \$1 198 000, with Pu (PI) Consel, Cowan, Walpole, McHugh and Schubert. 1996–1999.
78. Investigator, ARPA contract on *Microlanguage-Based Specialization*, \$875 000, with Consel and Walpole. Pu was the PI. 1995–1998.
79. Investigator, DARPA grant on *Heterodyne: A Regenerative Receiver for Dynamic Specialization Technology*. Maier was the PI. 1996–1999.
80. Co-principal Investigator, NSF Award: *Incorporating Research into the Undergraduate Curriculum*. Co-PI: Judy Cushing, the Evergreen State University. 1994-1997
81. Principal Investigator, NERO Grant *A Network Based Course in Object-Oriented Programming*. \$20 000. September 1994 – June 1995.
82. Co-principal Investigator, NSF Grant Nr MCS-8004111, *A Functionally Integrated Environment for Distributed Computing* (Coordinated Experimental Research Program). \$4 202 271. September 1980 – February 1986.
83. Co-principal Investigator, NSF Grant Nr DCR-8420945, *Integration in Homogeneous and Heterogeneous Distributed Computer Systems* (Coordinated Experimental Research Program). \$1 151 085 (includes \$230 217 University contribution). September 1985 – February 1988.
84. Co-principal Investigator, NSF Grant Nr CCR-8700106, *Emerald: A Language for Distributed Programming*, \$120 285. November 1987 – November 1989.
85. Co-principal Investigator, Xerox Corporation University Grants Program, \$761 200 (equipment only). September 1985 – September 1987.
86. Co-principal Investigator, Digital Equipment Corporation External Research Program, *Programming for Distribution*, \$193 590 (equipment only). December 1985.
87. Co-principal Investigator, Digital Equipment Corporation External Research Program, *Interconnecting Heterogeneous Computer Systems*, \$300 000 (equipment only).
88. Co-principal Investigator, National Science Foundation Coordinated Experimental Research Program, 1980-1984, approximately \$4M.
89. Studentship, UK Science Research Council, 1977-1981, covering stipend and tuition costs while pursuing my D.Phil. at Oxford.

Other Research and Other Creative Achievements

Other Teaching, Mentoring and Curricular Achievements

Other Community Outreach Achievements

Scholarly Works in Progress

Stéphane Ducasse, Nathanael Schärli, Oscar Nierstrasz, Roel Wuyts and Andrew Black, “Traits: A Mechanism for fine-grained Reuse,” 2004, submitted to ACM Transactions on Programming Languages and Systems (TOPLAS). I can make no estimate of when the Editor will reach a decision.

Significant Professional Development Activities

Sabbatical for 10 months during the 2001-2 academic year, partly spent in Bern at the Software Composition Group and partly in Seattle at the Intel Research Lab.

Governance and Other Professionally Related Service

Programme Committee Member, OOPSLA 2005.

Programme Committee Chair, ECOOP 2005.

Programme Committee Member, FOOL 2005.

Programme Committee Member, ESUG Annual Conference academic track, 2004.

Co-Organizer of the MASPEGHI Workshop at ECOOP '04, Oslo, Norway, July 2004

Programme Committee Member, ESUG Annual Conference academic track, 2003.

Programme Committee Member, ECOOP '03, Darmstadt, Germany, July 2003.

Co-Organizer of the Inheritance Workshop at ECOOP '02, Málaga, Spain, June 2002.

Co-organizer of workshop on Next 700 Distributed Object Systems at ECOOP '01, Budapest, Hungary, June 2001.

Speaker and participant at the Portland Extreme Programming Users Group (<http://xpdx.org>)

General Chair, IEEE International Workshop on Object-Oriented Programming in Operating Systems (IWOOS'96) Seattle, November 1996

Invited participant, ACM Workshop on Strategic Directions in Computing Research, June 1996, and member of working group on Object-Oriented Programming.

Member of Programme Committee 7th ACM SIGOPS European Workshop: Systems Support for Worldwide Applications, Connemara, Ireland, September 1996.

Member of Programme Committee, 15th ACM Symposium on Operating System Principles, 1995

General Chair, 14th ACM SIGOPS Symposium on Operating System Principles, Ashville, NC, December 1993.

Member of Programme Committee, 5th ACM SIGOPS European Workshop: Models and Paradigms for Distributed Systems Structuring, Mont Saint-Michel, France, September 1992.

Member of Programme Committee, 12th Symposium on Operating System Principles, Litchfield Park, AZ, December 1989.

Member of Programme Committee, ACM SIGPLAN '91 Conference on the Design and Implementation of Programming Languages, Toronto, Ontario, June 1991.

Co-organizer and session chairman at ACM SIGOPS Workshop on Accommodating Heterogeneity, Orcas, Island, WA, December 1985.

Governance Activities for the University, College, Department

Member, OGI School Web Team, 2003-2004.

Member, OHSU Educational IT Steering Committee, 2000-2001.

Member, Oregon Graduate Institute Academic Renewal Committee (ARC) 1996-1996.

Head of Oregon Graduate Institute Computer Science Department, July 1994 – Dec 1999. I doubled enrollments in our educational programs and founded, in collaboration with the three major state universities, the Oregon Master of Software Engineering degree program. At the same time, per-capita research income increased, 12 new faculty members were hired, and the department moved into a new building.

Member, Oregon Graduate Institute Presidential Search Committee, 1997-1998.

Member, OGI Academic Renewal Committee (ARC), 1995-1996.

Chair, ARC sub-committee on Administrative Systems Re-engineering.

Chair, ARC sub-committee on Electrical and Computer Engineering.

Member, OGI Task force on the Center for Spoken Language Understanding, 1997-8.

Member, OGI administrative re-engineering task force, 1996.

Professionally-related Service

Referee for Acta Informatica, ACM Trans. Prog. Lang. Systems, IEEE Trans Softw. Eng., Computer Journal, Computer Languages, Addison-Wesley Publishers, Benjamin/Cummings Publishers, MIT Press, DC Heath Publishers, Conference on Functional Languages and Computer Architecture, Computing Surveys, SOSP, Information Processing Letters, Software—Practice and Experience, Computer Bulletin, National Science Foundation, IEEE Software, IEEE Distributed Computing Systems Conference, Int'l J. of Parallel Processing, ACM Transactions on Computer Systems.

Editorial Board, Journal of Programming Languages (now defunct).

Memberships in Professional Societies

Member, Association for Computing Machinery.

Member, Union of Concerned Scientists.

Member, European Smalltalk Users Group.

Member, Computer Professionals for Social Responsibility.