

Bertram C. Bruce: Curriculum vitae

School of Information Science

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This is a detailed record of my academic work. A shorter version is available at

<http://chipbruce.net>

Bertram (Chip) Bruce is a Professor Emeritus in the [School of Information Science](#) at the [University of Illinois at Urbana-Champaign](#). He also had appointments in [Curriculum & Instruction](#), [Bioengineering](#), the [Center for Writing Studies](#), and the [Center for East Asian & Pacific Studies](#). During 2007-08, he held a Fulbright Distinguished Chair at the [National College of Ireland](#) in Dublin. He has been a member of the faculty at the [University of Illinois at Urbana-Champaign](#) since 1990. Before moving to Illinois, he taught [Computer Science at Rutgers](#) (1971-74) and was a Principal Scientist at [Bolt Beranek and Newman](#) (1974-90).

His background in computer science reflects a continuing interest in the promise, as well as the perils, that information and communication technologies offer for understanding, representing, and transforming our lived experiences. That interest has led to explorations of a variety of questions regarding the nature of knowledge, democratic participation, community, technology, and literacy.

This work is discussed in [various articles](#) and [books](#), including

- *Education's ecosystems: Learning through life* (2020),
- *International handbook of progressive education* (2015),
- *Youth community inquiry: New media for community and personal growth* (2014),
- *Libr@ries: Changing information space and practice* (2006),
- *Literacy in the information age: Inquiries into meaning making with new technologies* (2003),

See

- [detail on published books](#)

- [list of presentations](#).

Professor Bruce's research goals include contributing to a conception of *democratic education*, meaning both the development of critical, socially-engaged citizens and of learning environments (formal and informal learning centers, home and work, and online), which are themselves democratic. Aspects of this work include research on *community inquiry* through collaborative community-based work, *inquiry-based learning*, drawing especially upon scholarship of the American pragmatists and the history of Progressive Education, and *technology-enhanced learning*, including research on the affordances and constraints of new media for learning.

Inquiry-based learning. This research has contributed to the [development of theory](#) for inquiry-based learning. It draws from John Dewey's theory of inquiry and the broader [pragmatist tradition](#), including the work of Jane Addams, William James, Ella Flagg Young, and others, and on studies situated in community action. This is represented in books (see below), and in papers such as "[The disappearance of technology: Toward an ecological model of literacy](#)," "[Credibility of the web: Why we need dialectical reading](#)," "[Literacy technologies: What stance should we take?](#)," "[How media ecologies can address diverse student needs](#)," and other publications.

Community inquiry. An important and growing area of work concerns the theory and practice of [community inquiry](#). Much of this is through the [Community Informatics Initiative](#) and the development of collaborative tools such as [iLabs](#). It also includes work with the [Distributed Knowledge Research Collaborative](#), studying new forms of writing and other collaborative practices in scientific research. It also includes studies of intentional learning communities, such as [Biology Student Workbench](#) (a computational environment that facilitates bioinformatics research, teaching, and learning), [Plants, Pathogens, & People](#), [Physics Outreach](#), and [SEARCH](#).

Technology-enhanced learning. Another important focus has been studies of new literacy practices. It is represented in books including [Network-based classrooms: Promises and realities](#) (Bruce, Peyton, & Batson, 1993) and [Electronic Quills: A situated evaluation of using computers for writing in classrooms](#) (Bruce & Rubin, 1993). It also includes building [environments](#) to support learning. These include the [Inquiry Page](#), which is a website, a set of communities, and a research project on inquiry; [Biology Student Workbench](#), an interactive resource to support investigations in molecular biology

and evolution; *Chickscope*, a project in which students engage with a community of inquiry as they use remote instrumentation to study chicken embryology; *Quill*, tools and environments to support literacy learning; *Statistics Workshop*, an interactive system for learning statistical reasoning; and *Discoveries*, a series of CD-ROM-based multimedia environments for supporting students' inquiries in science and social studies.

Teaching. Professor Bruce teaches in masters and doctoral programs in [Library and Information Science](#), in [Writing Studies](#), and in the [Information Technology Studies](#) undergraduate minor. Recent courses include *Social Informatics*, *Inquiry-Based Learning*, *Pragmatic Technology*, *Distributed Knowledge*, and *Literacy in the Information Age*. **Presentations** include lectures, interactive sessions, and workshops on [inquiry learning](#) and new technologies for teachers, librarians, museum educators, community groups, university faculty, researchers, corporate and government groups. These have been in Australia, China, Russia, Haiti, and throughout Europe and North America.

Awards. Professor Bruce was the GSLIS 2009-2010 Centennial Scholar. In 2007-08 he held a [Fulbright Distinguished Chair at the National College of Ireland](#) in Dublin, has served as a Fulbright Specialist in [Sweden](#), Finland, and Turkey, and was selected for the Fulbright Inter-Country Lecture Program in Cyprus. He has been invited to present numerous keynote addresses at conferences in the US and internationally. He is a University of Illinois Distinguished Teacher/Scholar, and received the 2006 Pratt-Severn Faculty Innovation Award from the Association for Library and Information Science Education. He has been awarded both the College of Education Senior Scholar Award and the Faculty Fellows Award, the Council of Graduate Students in Education Faculty Award for Excellence in Graduate Teaching, Advising, and Research, and a National Center for Supercomputing Applications Faculty Fellows Award. He is a Freeman Foundation Fellow and a Fellow of the [National Conference on Research in Language and Literacy](#). He has appeared nearly every semester on the University's "[List of Teachers Ranked as Excellent by Their Students](#)." Professor Bruce has served on the [editorial boards](#) of 20+ journals, and done *ad hoc* reviews for many others. He also does frequent reviews of proposals or manuscripts for publishers, regular conference program reviews, reviews for research funding agencies, and has edited for Wikipedia and Open Directory.

Education

- BA, Biology, Rice University, 1968
- Ph.D., Computer Sciences, The University of Texas at Austin, 1971

Professional Positions

University of Illinois at Urbana-Champaign

- Professor Emeritus, School of Information Science, 2010-present; Professor, 1999-2010
- Professor, 1990-2010 in [Curriculum & Instruction](#); [Bioengineering](#); [Center for Writing Studies](#); [Center for East Asian and Pacific Studies](#)
- Fulbright Distinguished Chair, [National College of Ireland](#), 2007-08
- Senior Research Scientist, National Center for Supercomputing Applications, 1998-2010
- Professor, Environmental Council, 1998-2010
- Chair, Mathematics, Science, and Technology Division of C&I, 1992-94, 97-98
- Senior Investigator, Center for the Study of Reading, 1976-95
- PI/co-PI: See [Section B. 2. Grants](#)

Bolt Beranek and Newman

- Principal Scientist, 1988-90
- Division Scientist, 1984-88
- Senior Scientist, 1974-84
- Department Manager, Education Department, 1985-87
- Executive Board, The Literacies Institute, 1989-90
- PI/co-PI: see [Section B. 2. Grants Received](#)
- Speech Understanding by Computer (DARPA), 1974-76

Rutgers University

- Senior Investigator, *NIH Research Resource on Computers in Biomedicine*, 1971-75
- Assistant Professor, Computer Science, 1971-74

University of Texas at Austin

- Teaching Assistant, Computer Sciences Department, 1969-71
- Research Assistant, Computer Natural Language Understanding, 1969

Texas Christian University

- Research Assistant, Computer pattern recognition, 1968

A. TEACHING

Professor Bruce teaches in mostly graduate-level programs in Information Sciences and Writing Studies.

Recent courses include Social Media and Global Change, Social Informatics, Inquiry-Based Learning, Pragmatic Technology, Distributed Knowledge, and Literacy in the Information Age. In 2017, he taught Essential Questions for Educators Everywhere (National College of Ireland, Dublin & Mercy College, New York) and Academic Writing for Multiple Audiences (Boston College).

Professor Bruce has also taught various courses in the field of education at the University of Illinois and in computer science at Rutgers and at The University of Texas at Austin. These include Non-Numerical Algorithms, Natural Language Processing, Question Answering by Computer, Artificial Intelligence, Models of Thought, and Discrete Structures, as well as basic programming and data structure courses.

Other teaching has included the University of Queensland, Australia; Tampere University, Finland; University of Gothenburg, Sweden; Philipps Universität, Marburg, Germany; Çanakkale Onsekiz Mart University (COMU), Turkey, and King's College, Nepal.

1. Resident Instruction

YEAR FALL

17-18 [Academic Writing for Multiple Audiences](#), Boston College

16-17

15-16

14-15 [REES 496](#) Social Media and Global Change

13-14

12-13

11-12 [Inquiry-Based Learning](#), Philipps-Universität Marburg Learning, Information, and Information

10-11 [Literacy](#), Göteborgs universitet, Doctoral School in Educational Sciences (LinCS-DSES)

09-10 [490 CE](#): Community Engagement

08-09 [LIS 590 COL](#): Community Informatics (LEEP)
[LIS 590 DK](#): Distributed Knowledge

SPRING

[Essential Questions for Educators Everywhere](#), National College of Ireland, Dublin & Mercy College, New York
[LIS 590 IBL](#): Inquiry-Based Learning

[REES 496](#) Social Media and Global Change

[Info 490](#): Social Media and Global Change

[LIS 590 IBL](#): Inquiry-Based Learning

[LIS 590 IBL](#): Inquiry-Based Learning

07-08	<i>Fulbright Distinguished Chair, National College of Ireland, Dublin</i>	
	LIS 199 CSM: Children's Science Museums	LIS 199 CSM: Children's Science Museums
06-07	LIS 590 IBO: Inquiry-Based Learning (LEEP) CTE faculty seminar: Inquiries into Inquiry	LIS 491: Literacy in the Information Age CTE faculty seminar: Inquiries into Inquiry
05-06	Pragmatic Design of Information & Communication Technologies, <i>Göteborgs universitet</i> LIS 590 PT: Pragmatic Technology <i>Sabbatical</i>	LIS 199 CSM: Children's Science Museums LIS 590 IBL: Inquiry-Based Learning LIS 590 SI: Seminar in Social Informatics <i>Sabbatical</i>
04-05	Pragmatic Design of Information & Communication Technologies, University of Tampere	
03-04	LIS 450 IBL: Inquiry-Based Learning LIS 450 PT: Pragmatic Technology	LIS 391: Literacy in the Information Age LIS 450 IBL: Inquiry-Based Learning
02-03	LIS 391: Literacy in the Information Age LIS 450 PT: Pragmatic Technology	LIS 391: Literacy in the Information Age LIS 450 ITL: Inquiry Teaching & Learning
01-02	LIS 450 NL: New Literacies	LIS 391: Literacy in the Information Age LIS 450 DK: Distributed Knowledge
00-01	LIS 450 LTL: Learning Technologies	LIS 391: Literacy in the Information Age
99-00	C&I 335: Computer Assisted Instruction	LIS 391: Literacy in the Information Age LIS 450 ITL: Inquiry Teaching & Learning
	C&I 199 SE: SEARCH (Science Education & Research for Children)	C&I 199 SE: SEARCH
98-99	C&I 490 EIT: Evaluation of Information Technologies	C&I 440 CS: Theory & Practice in Classroom Science EPS 304: Ethical & Policy Issues in Information Technology
	C&I 199 SE: SEARCH	C&I 199 SE: SEARCH
	C&I 340 YL: Principles & Practices in Science Education	CI 300 CS: Inquiry-Based Learning with New Technologies
97-98	C&I 490 EIT: Evaluation of Information Technologies	C&I 340 YL: Principles & Practices in Science Education CI 407 ITL: Inquiry Teaching & Learning <i>Sabbatical—University of Queensland</i>
96-97	<i>Sabbatical—Peking University</i>	EU 889: Information Technology in Educational Contexts C&I 199 SE: SEARCH Bioen 199: Intro. to Bioengineering: Focus on Medical Imaging
95-96	C&I 199 SE: SEARCH C&I 340: Principles & Practices in Science Education C&I 490 DS: Discourses of Science	CI 407 ITL: Inquiry Teaching & Learning C&I 490 AZ: Proseminar in Technologies for Learning
	C&I 199 SE: SEARCH	C&I 199 SE: SEARCH
94-95	C&I 490 RRC: Reader Response Criticism	C&I 461: Theory & Practice in Children's Composition C&I 490 DS: Discourses of Science
93-94	C&I 440 A: Theory & Practice in Classroom Science	C&I 490 DS: Discourses of Science
92-93	C&I 490 RRC: Reader Response Criticism	C&I 461: Theory & Practice in Children's

Engl/SpCom 405: Social Contexts & Functions of Writing

91-92 C&I 330/340/345: The Inquiry Block

90-91 C&I 490 DD: Discourse Across the Disciplines
Educational Program Development

Composition

EPS 408: Epistemology & Education: Constructions of Knowledge in Contexts of Teaching & Learning

C&I 330/340/345: The Inquiry Block

CI 407 TC: Teacher Communities

C&I 490 RRC: Reader Response Criticism

- Community Informatics MA specialization in GSLIS (University of Illinois, 2007-present)
- Writing Studies: Interdisciplinary M.A. and Ph.D. specialization (University of Illinois, 1990-present)
- Bioengineering and Education: Interdisciplinary, hands-on science courses for non-science majors (University of Illinois, 1992-1997)
- Technology Studies in Education (University of Illinois, 1998-2000)
- Curriculum, Technology, and Educational Reform: Online MA program (University of Illinois, 1998-2000)
- Technologies for Learning: Interdisciplinary MA and Ph.D. specialization (University of Illinois, 1995-2000)
- Year Long Project: Field-based, integrated teacher education (University of Illinois, 1991-92)
- Artificial Intelligence and Cognitive Psychology: Cognitive science program (Rutgers, 1972-74)

2. Continuing Education

Some major projects involving continuing education are listed below. (See complete list in [Presentations.](#))

- Queensland, Australia area schools, 1997
- U of I/ Peking University Exchange Program, 1996
- National Center for Supercomputing Applications, University of Illinois
- *Illinois Chickscope*, 1998, 1999
- *Virtual Reality and Education Program for Educators*, 1996
- *Summer Resource for Science Education*, 1995
- *NIE Curriculum Development Workshops*, 1995
- *School Improvement Plan*, Diamond Grade School, Oakwood, IL, 1993-94
- *Making the Connection: An Integrated Scientific Literacy Model*, Science Literacy grant to Urbana School District, 1991-92

- *Electronic Networks for Interaction*, Gallaudet University, New York Institute of Technology, Carnegie Mellon University, University of Minnesota, Northern Virginia Community College, 1987-90
- *Cheche Konnen*, Cambridge Public Schools, 1988-90
- *Reasoning Under Uncertainty*, Belmont HS; Cambridge Rindge and Latin HS, 1985-90
- *Microcomputers and Literacy*, Harrington School, Cambridge, MA, 1985-88
- *Alaska Quill*, consortium of five school districts and the University of Alaska, Fairbanks, 1983-85
- *Microcomputers and Writing*, Hartford Public Schools, Hartford, CT; Bridgewater-Raritan Public Schools, Bridgewater, NJ; Easton Public Schools, Easton, MA, 1982-84

B. RESEARCH AND SCHOLARSHIP

1. Publications

1. Books Authored or Co-Authored
2. Books Edited or Co-Edited
3. Chapters in Books
4. Monographs
5. Articles in Journals
6. Bulletins, Reports
7. Book Reviews, Letters, Interviews, Opinion
8. Curricula
9. Software
10. Web Sites

a. Books Authored or Co-Authored

Bruce, Bertram C. (2020). *Education's ecosystems: Learning through life*. Lanham, MD: Rowman & Littlefield.

Bruce, Bertram C. (2018). *Progressive education in Nepal: The community is the curriculum*. Wellfleet, MA: Chequessett Neck Books.

Alvermann, Donna E., Arrington, H. J., Bridge, C. A., Bruce, Bertram C., Fountas, I. C., Garcia, E., Paris, S. G., Ruiz, N. T., Schmidt, B. A., Searfoss, L. W., & Winograd, P. (1995). *Teacher to teacher: A*

professional's handbook for the primary classroom. Lexington, MA: D. C. Heath. [218 pp.; ISBN 0-669-35984-X]

Alvermann, Donna E., Arrington, H. J., Bridge, C. A., Bruce, Bertram C., Fountas, I. C., Garcia, E., Paris, S. G., Ruiz, N. T., Schmidt, B. A., Searfoss, L. W., & Winograd, P. (1995). *Teacher to teacher: A professional's handbook for the intermediate classroom*. Lexington, MA: D. C. Heath. [218 pp.; ISBN 0-669-35985-8]

Bruce, Bertram C., & Rubin, Andee (1993). *Electronic Quills: A situated evaluation of using computers for writing in classrooms*. Hillsdale, NJ: Lawrence Erlbaum. [232 pp.; ISBN 0-805-81168-0]

Bolt Beranek and Newman (1988). *Reasoning under uncertainty*. Cambridge, MA: Author. [285 pp.]

Bruce, Bertram C., Rubin, Andee, & Loucks, S. (1983). *Quill teacher's guide*. Andover, MA: The Network. [143 pp.]

b. Books Edited or Co-Edited

Eryaman, Mustafa Yunus, & Bruce, Bertram C. (2015). *International handbook of progressive education*. New York: Peter Lang. [833 pp.; ISBN 978-1-4331-2874-5 pb.; ISBN 978-1-4331-2875-2 hb.]

Bruce, Bertram C., Bishop, Ann Peterson, & Budhathoki, Nama R. (Eds.) (2014). *Youth community inquiry: New media for community and personal growth* (New Literacies and Digital Epistemologies series). New York: Peter Lang. [195 pp.; ISBN-13: 978-1433124037]

Kapitzke, Cushla, & Bruce, Bertram C. (2006). *Libr@ries: Changing information space and practice*. Mahwah, NJ: Lawrence Erlbaum. [308 pp.; ISBN 0-8058-5481-9]

Bruce, Bertram C. (Ed.) (2003). *Literacy in the information age: Inquiries into meaning making with new technologies*. Newark, DE: International Reading Association. [364 pp.; ISBN 0-87207-003-4] Translated into Chinese by Huang, Jenn Jia & Chang, Shuling as 數位時代的資訊素養：運用科技進行知識建構, or *Information technology literacy at digital age: Knowledge construction with information technology*. Taipei, Taiwan: Pro-Ed.

Bruce, Bertram C., Peyton, Joy Kreeft, & Batson, Trent W. (Eds.). (1993). *Network-based classrooms: Promises and realities*. New York: Cambridge University Press. [302 pp.; ISBN 0-521-41636-1]

Spiro, Rand J., Bruce, Bertram C., & Brewer, W. F. (Eds.). (1980). *Theoretical issues in reading comprehension: Perspectives from cognitive psychology, linguistics, artificial intelligence, and education*. Hillsdale, NJ: Lawrence Erlbaum. [586 pp.; ISBN 0-898-59036-1]

Bruce, Bertram C. (Ed.). (1973). *Readings for natural language understanding* (Report No. CBM-TR-22). New Brunswick, NJ: Rutgers University, Computer Science Department. [298 pp.]

c. Chapters in Books

Bruce, Bertram C., & Céline Jung (2019). Préface à la traduction en français de: Democracy and Social Ethics, Jane Addams (1902). In *Démocratie et éthique sociale* (pp. 7-31). Dijon, France: Editions Raison et Passions.

Bruce, Bertram C. (2015). What Jane Addams tells us about early childhood education. In Turkish in Ebru Aktan Acar (ed.). *Erken Çocukluk Eğitimi Mozaigi Büyük Düşünceler/Fikirler, Modeller ve Yaklaşımlar (Early childhood education: Big thoughts / ideas, models and approaches)*. Istanbul: Nobel Yayin Dagitim. [ISBN: 978-605-32] Reprinted in English in Mustafa Yunus Eryaman & Bertram C. Bruce (eds.), *International handbook of progressive education* (pp. 437-450) New York: Peter Lang.

Bruce, Bertram C. (2015). Coffee cups, frogs, and lived experience. In Mustafa Yunus Eryaman & Bertram C. Bruce (eds.), *International handbook of progressive education* (pp. 781-800) New York: Peter Lang.

Bruce, Bertram C., & Eryaman, Mustafa Yunus (2015). Introduction: The progressive impulse in education. In Mustafa Yunus Eryaman & Bertram C. Bruce (eds.), *International handbook of progressive education* (pp. 1-52) New York: Peter Lang.

Bruce, Bertram C. (2014, April 15). Technology and education. In D. C. Phillips (ed.), *Encyclopedia of educational theory and philosophy*. Thousand Oaks, CA: Sage.

Bruce, Bertram C. (2013). Foreword. In Kristine E. Pytash & Richard E. Ferdig (eds.), *Exploring technology for writing & writing instruction* (pp. xx-xxi). Hershey, PA: IGI Global.

Bruce, Bertram C. (2013). Foreword. In Richard E. Ferdig & Kristine E. Pytash (eds.), *Exploring multimodal composition and digital writing* (pp. xxii-xxiii). Hershey, PA: IGI Global.

Bruce, Bertram C. (2013). The crevices of unreason in human decision making. In Philip Crowley & Thomas Zentall (eds.), *Comparative decision making: Analysis and support across disciplines and applications* (pp. 106-110). New York: Oxford University Press.

Bruce, Bertram C. (2013). Why making a decision involves more than decision-making: Past, present, and future in human action. In Philip Crowley & Thomas Zentall (eds.), *Comparative decision making: Analysis and support across disciplines and applications* (pp. 45-65). New York: Oxford University Press.

Lin, Ching-Chiu, & Bruce, Bertram C. (2012). [Holistic teaching of art with technology: Practical models and enlarged theory](#). In Laurel H. Campbell & Seymour Simmons III (eds.), *The heart of art education: Holistic approaches to creativity, integration, and transformation* (pp. 54-62). Reston, VA: National Art Education Association. [ISBN: 978-1-8901-6053-1]

Bruce, Bertram C., & Bloch, Naomi (2012). Learning by doing. In Norbert M. Seel (ed.), *Encyclopedia of the sciences of learning, Part 12* (pp. 1821-1824). Heidelberg: Springer. [ISBN 978-1-4419-1427-9]

Bloch, Naomi; & Bruce, Bertram C. (2011). [Older adults and the new public sphere](#). *iConference 2011, Inspiration, Integrity, and Intrepidity*, Seattle Washington, February 8-11, 2011. New York: ACM International Conference Proceeding Series. [ISBN: 978-1-4503-0121-3]

Casey, Leo; & Bruce, Bertram C. (2010). [Sustaining the inquiry cycle: Digital literacy reframed](#). In D. Gibson & B. Dodge (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2010* (pp. 1372-1379). Chesapeake, VA: Association for the Advancement of Computing in Education.

Harnisch, Delwyn L.; Comstock, Sharon L.; & Bruce, Bertram C. (2010, October 24). [Collaborative inquiry with technology in secondary science classrooms: Professional learning community development at work](#). In Ali Akdemir & Oktay Koç (Eds.), *World Universities Congress Proceedings* (pp. 922-926). Çanakkale, Turkey: Çanakkale Onsekiz Mart University. [ISBN: 978-605-4222-02-7]

Bruce, Bertram C. (2009, April). ["Building an airplane in the air": The life of the inquiry group](#). In Joni Falk & Brian Drayton (eds.), *Creating and sustaining online professional learning communities* (pp. 47-67). New York: Teachers College Press. [ISBN: 0-807749-40-0]

Bruce, Bertram C. (2009). [Reflections on youth, media, and democracy](#). In Jan Petterson (ed.), *Youth Media Democracy: Perspectives on new media literacy* (pp. 27-35). Dublin, Ireland: Centre for Social & Educational Research, Dublin Institute of Technology. [ISBN: 1-900454-32-7]

Bishop, Ann P., Bruce, Bertram C., & Jeong, Sunny (2009, March). [Beyond service learning: Toward community schools and reflective community learners](#). In Lorienne Roy, Kelly Jensen, & Alex Hershey Meyers (eds.), *Service learning: Linking library education and practice* (pp. 16-31). Chicago, IL: ALA Editions. [ISBN-13: 978-0-8389-0981-2]

Bruce, Bertram C., Rubin, Andee, & An, Junghyun (2009, March). [Situated evaluation of socio-technical systems](#). In Brian Whitworth & Aldo de Moor (eds.), *Handbook of research on socio-technical design and social networking systems* (pp. 685-698). Hershey, PA: Information Science Reference. [ISBN: 978-1-60566-264-0]

Wolske, Martin; Ayad, Moustafa; Budhathoki, Nama R.; Kowalski, Chera; Nam, Chaebong; Ritzo, Christopher J.; Şerbănuță, Claudia; Vincler, John; Bouillion-Diaz, Lisa; Bishop, Ann P.; & Bruce, Bertram C. (2008, December). [Community informatics for youth: Using new digital media to foster personal growth and community action](#). In Larry Stillman & Graeme Johanson (ed.), *5th Prato Community Informatics & Development Informatics Conference 2008: ICTs for social inclusion: What is the reality?*. Prato, Italy: Monash University, Centre for Community Networking Research.

Bruce, Bertram C. (2008). [Learning at the border: How young people use new media for community action and personal growth](#). In C. Angeli & N. Valanides (eds.), *Proceedings of the 6th panhellenic conference with international participation: Information and Communication Technologies in Education (HICTE)* (pp. 3-10). Nicosia, Cyprus: Department of Education, University of Cyprus.

Bruce, Bertram C. (2008). [Ubiquitous learning, ubiquitous computing, and lived experience](#). In William Cope & Mary Kalantzis (eds.), *Ubiquitous learning* (pp. 21-30). Champaign, IL: University of Illinois Press [ISBN: 978-0-252-03496-1; 978-0-252-07680-0]. Also in Vivien Hodgson, Chris Jones, Theodoros Kargidis, David McDonnell, Symeon Retalis, Demosthenes Stamatis, & Maria Zenios (eds.), *Conference papers for the Sixth International Conference on Networked Learning 2008* (pp. 583-590). Halkidiki, Greece. Lancaster University, Alexander Technological Educational institute of Thessaloniki, and the University of Piraeus.

Bruce, Bertram C. (2008). [From Hull House to Paseo Boricua: The theory and practice of community inquiry](#). In Bogdan Dicher & Adrian Ludușciuan (eds.), *Philosophy of pragmatism (II): Salient inquiries* (pp. 181-198). Cluj-Napoca, Romania: Editura Fundației pentru Studii Europene (European Studies Foundation Publishing House).

Bruce, Bertram C. (2008, June). [The university of the future: A student-centred university](#). *Proceedings of Univest'08, The student as the axis of change in university*, Girona, Spain: DUGiMedia, Universitat de Girona. [[Catalan](#)] [[Video](#)] [ISBN 978-84-8458-274-8]

Bruce, Bertram C., & Bishop, Ann P. (2008). [New literacies and community inquiry](#). In J. Coiro, M. Knobel, C. Lankshear, & D. Leu, (eds.), *The handbook of research in new literacies* (pp. 699-742). New York: Routledge. [ISBN:978-0-8058-5651-4 hardback; ISBN:978-0-8058-5652-1 paper]

Card-Gretencord, Timnah; Jeong, Seong-Hoon; Mendoza, Karen; Lin, Ching-Chiu; Șerbănuță, Claudia; Cruz-Santiago, Michelle; Lowe, Laura; Bishop, Ann P.; & Bruce, Bertram C. (2009, July). [Learning at the border: How young people in informal settings use new media for community action and personal growth](#). In Larry Stillman, Graeme Johanson, & Rebecca French (Eds.), *Communities in action: Papers in community informatics* (pp. 68-80) Newcastle upon Tyne: United Kingdom: Cambridge Scholars Publishing. [ISBN13: 978-1-4438-0959-7]. Also in Larry Stillman (ed.) (2008, February), *Proceedings of the 4th Prato Community Informatics Research Network (CIRN) Conference 2007, Community Informatics—Prospects for Communities and Action*. Prato, Italy: Monash University, Centre for Community Networking Research.

Bishop, Ann P., & Bruce, Bertram C. (2008, December). [Community inquiry](#). In Doug Schuler (Ed.), *Liberating voices! A pattern language for communication revolution*. Cambridge, MA: MIT Press.

Bruce, Bertram C. (2007). [Communities of designers: Transforming a situation into a unified whole](#). In Punya Mishra, Matthew Koehler, & Yong Zhao (eds.), *Faculty development by design: Integrating technology in higher education*, (pp. 205-220). Greenwich, CT: [Information Age](#). [ISBN: 978-1-59311-582-1]

Bruce, Bertram C. (2007). [Interlude: Technology and arts education](#). In Liora Bresler (ed.), *International handbook of research in arts education* (pp. 1355-1360). New York: Springer. [ISBN: 978-1-4020-2998-1]

Rosu, Luisa; Harnisch, Delwyn; Bruce, Bertram C.; & Davis, Rita (2007). [Challenges and opportunities in forming collaborative partnerships in higher education](#). In R. Carlsen et al. (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2007* (pp. 2451-2453).

Chesapeake, VA: AACE.

Bruce, Bertram C., & Kaptizke, Cushla (2006). The arobase in the libr@ry; the libr@ry in society. In Cushla Kapitzke & Bertram C. Bruce (eds.), *Libr@ries and the arobase: Changing information space and practice* (pp. 281-294). Mahwah, NJ: Lawrence Erlbaum.

Kaptizke, C. & Bruce, Bertram C. (2006). [Introduction. Rewriting libr@ries: Space, knowledge, and capital](#). In Cushla Kapitzke & Bertram C. Bruce (eds.), *Libr@ries and the arobase: Changing information space and practice* (pp. xxv-xlvi). Mahwah, NJ: Lawrence Erlbaum.

Haythornthwaite, Caroline; Lunsford, Karen J.; Bowker, Geoffrey C.; & Bruce, Bertram C. (2006). [Challenges for research and practice in distributed, interdisciplinary, collaboration](#). In C. Hine (ed.), *New infrastructures for knowledge production: Understanding e-science*. (pp. 143-166). Hershey, PA: Information Science.

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During 1997-2002, I edited the Technology Department in the [International Reading Association's Journal of Adolescent and Adult Literacy \(JAAL\)](#). The columns were intended to promote dialogue about new communication and information technologies and to explore what these media mean for literacy and literacy educators. Each had several distinct sections, including an "email" message from me, an "issue of the month," often written by a guest author, descriptions of selected websites, and a glossary. In addition to the print version, each column appeared in the Electronic Classroom section of [Reading Online](#).

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Forrest, Sharita (2006, October 5). [Distinguished Teacher/Scholars will focus on the scholarship of teaching and learning](#). *Inside Illinois*, 26(7).

Bruce, Bertram C. (2005, September). [Crossing the digital divide: Race, writing, and technology in the classroom, by Barbara Monroe](#) [book review]. *Journal of Adolescent & Adult Literacy*, 49(1), 84-85.

Bruce, Bertram C. (2004). [Digital developments in higher education, edited by Peter Roberts and Mark Chambers](#) [book review]. *The Information Society*. 20(3), 231-32.

Bruce, Bertram C. (1995, Summer). [Computers and the collaborative experience of learning](#) [book review]. *Mind, Culture, and Activity: An International Journal*, 2(3).

Bruce, Bertram C. (1982). [Bad blood: The Tuskegee syphilis experiment](#) [book review]. *Science for the People*, 14, 29.

Bruce, Bertram C., Egelman, E., Salzman, F., Inouye, H., Beckwith, J., Alper, J., Leibowitz, L., Lewontin, R. C., Lange, R., Crompton, R., Hubbard, R., Gould, S. J., Dusek, V. (Reply by S. Hampshire) (1979, May 31). [The politics of sociobiology](#). *The New York Review of Books*.

h. Curricula

Co-author of curricula and activity guides in reading, writing, mathematics, and science education, including:

- *Discoveries* (D. C. Heath, 1995), documentation and activity guides to accompany a series of CD-ROM based multimedia software (Principal Consultant).
- [Heath Literacy](#) (D. C. Heath, 1995), a K-6 literacy development program (Co-author).
- *Heath Reading* (D. C. Heath, 1989), a K-8 reading program (Contributing author).
- *Cheche Konnen* (Bolt Beranek and Newman, 1987-90). An investigation-based approach to mathematics and science education for students with limited English (Contributor).
- *Reasoning Under Uncertainty* (Bolt Beranek and Newman, 1988), a high school level curriculum for learning statistics.
- *Quill Teacher's Guide* (D. C. Heath, 1983-84), microcomputer-based writing activities.

i. Software

Interactive, multimedia systems to support teaching and learning. Communications, database, and simulation tools designed for educational applications. Artificial intelligence systems in the areas of pattern recognition, natural language understanding and generation, speech processing, automatic theorem proving, and medical diagnosis. Among these programs:

Inquiry project (2003-present). [Community inquiry laboratories](#). [Interactive website].

Inquiry project (1996-2003). [Inquiry Page](#). [Interactive website]. [Awarded First Place in the Technology Design Competition at Computers and Writing 2001 for the category of "Rhetoric and Writing in K-12 Education".]

Bruce, Bertram C. (1995). *Discoveries* [Series of interactive, multimedia CD-ROMs]:*In the desert; Sky high; Into the forest; Nature connection* Lexington, MA: D. C. Heath. [Series won the National Educational Media Apple Award in 1996, the New England Book Show Award in 1996, the Bookbuilder's Award in 1995, and was selected for the Gallery at the Fifth Annual Macromedia Conference in 1994.]

The Learning Company (1992). *Reader Rabbit 2* [Computer program]. Fremont, CA: The Learning Company (Educational Advisers: Bertram C. Bruce & P. Neu). [Best Elementary Education Program, Software Publishers' Association, 1992]

[Reasoning Under Uncertainty Project](#) (1991). *Statistics Workshop* [Computer program]. Pleasantville, NY: Sunburst Communications.

[Reasoning Under Uncertainty Project](#)(1990). *Sampling Laboratory* [Computer program]. Cambridge, MA: Reasoning Under Uncertainty Project, Bolt Beranek and Newman.

[Reasoning Under Uncertainty Project](#) (1988). *Elastic* [Computer program]. Cambridge, MA: Bolt Beranek and Newman.

Bruce, Bertram C., & Starr, Kathleen S. (1984). *Music Education Software* [Computer program]. Waltham, MA: Kurzweil Music Systems.

Bruce, Bertram C., & Rubin, Andee (1984). *Quill* [Computer program]. Lexington, MA: D. C. Heath.

[Validated by the Joint Dissemination Review Panel of the US Department of Education, March 1984; positive reviews in *Computers, Reading, and Language Arts, The New York Times, The Boston Globe, Popular Computing, Harvard University Gazette, Electronic Learning, Teaching and Computers, Informatica Oggi, English Journal, Early Years/K-8, Computer Update, Classroom Computer Learning, The Computing Teacher,, Language Arts, Today's Education, and many other publications*]

Bruce, Bertram C. (1976). *Language generation component of HWIM (Hear What I Mean)* [Computer program]. Cambridge, MA: Bolt Beranek and Newman, Speech Understanding Research Group.

Bruce, Bertram C. (1976). *Pragmatics component of HWIM (Hear What I Mean)* [Computer program]. Cambridge, MA: Bolt Beranek and Newman, Speech Understanding Research Group.

Bruce, Bertram C. (1976). *The Travel Budget Manager's Assistant* [Computer program]. Cambridge, MA: Bolt Beranek and Newman, Speech Understanding Research Group.

Brown, G., Schmidt, C. F., & Bruce, Bertram C. (1974). *Believer* [Computer program]. New Brunswick, NJ: Rutgers University, Computer Science Department.

Bruce, Bertram C. (1974). *Chronos II* [Computer program]. New Brunswick, NJ: Rutgers University, Computer Science Department.

Bruce, Bertram C. (1971). *Chronos I* [Computer program]. Austin, TX: The University of Texas at Austin, Computer Sciences Department.

Bruce, Bertram C. (1971). *Semantic net representations of discourse for generative CAI* [Computer program]. Austin, TX: The University of Texas at Austin, Computer Sciences Department.

Bruce, Bertram C. (1971). *Resolution theorem prover* [Computer program]. Austin, TX: The University of Texas at Austin, Computer Sciences Department.

Bruce, Bertram C. (1968). *Vargus-7* [Computer program]. Fort Worth, TX: Texas Christian University, Institute for the Study of Cognitive Systems.

j. Web Sites

Primary responsibility for many web sites, linked from [my web page](#), including:

[Chip's Journey](#), a blog on issues of community, learning, and life (~300 views per day)

[Course web sites](#), web sites for more than twenty courses

[Situated Evaluation](#), a site devoted to evaluation studies using the situated evaluation approach

[Inquiry Teaching and Learning](#), a set of resources and writings on education

[Learning Technologies Timeline](#), a timeline of technologies important for literacy and learning, created collaboratively by students in several on-campus and online courses

k. Articles About

Forrest, Sharita (2006, October 5). [Distinguished Teacher/Scholars will focus on the scholarship of teaching and learning](#). *Inside Illinois*, 26(7).

Tonfoni, Graziella (1984). *Il computer a scuola: Intervista con Bertram Bruce*. *Informatica Oggi*, pp. 124-125.

2. Grants Received

Includes projects for which I had a major role in proposal writing and project management. Some items represent several grants in a series; * = active grants; NIH = National Institutes of Health; NSF = National Science Foundation; EHR = Directorate for Education and Human Resources; DUE = Division of Undergraduate Education; IMLS=Institute for Museum & Library Services; UIUC = University of Illinois.

DATES PIS, TITLE

7/07-6/10 Bishop, Ann P., Bruce, Bertram C.
* [Community Informatics Corps: the Next Generation](#)

AGENCY, AMOUNT

IMLS
\$996,243; Matching: \$858,802

Develop our capacity to recruit and train the next generation of CI professionals who will take their places in libraries, museums, archives, and other organizations, armed for action in underserved communities.

- 7/07-6/10 Bruce, Bertram C., Bishop, Ann P., & Diaz, Lisa Bouillion IMLS
 * *Youth Community Informatics: Using the Extension Network to Recruit Future LIS Professionals* \$788,895; Matching: \$720,960
Engages underserved youth as leaders in using cutting-edge technologies to address local community issues. This initiative brings together 4-H clubs and tech teams from across Illinois with a range other community-based organizations and after-school programs. Learning activities are supported by curriculum we call 'inquiry units' that engage youth in topics such as community asset mapping and community journalism. The technologies used to support these activities include GIS/GPS geospatial tools, video, podcasts and the Internet.
- 7/07-6/12 Stine-Morrow, Elizabeth A. L., Kramer, Arthur, Morrow, Daniel G., Park, Denise C., Bruce, Bertram C., Janke, Megan, Payne, Laura, Roberts, Brent NIH, National Institute on Aging, R01 AG0294471
 * *The Senior Odyssey: A test of the engagement hypothesis of cognitive aging* \$1,913,679 DC
A community-based cognitive intervention in which adults aged 60 and over participate in a program of problem solving and brain teasers. Our Odyssey-Troy program was developed in concert with an existing program, Odyssey of the Mind (OOTM). Teams meet weekly over a 16-wk period to develop, test, and revise their solutions for a particular long-term problem, and to practice working as a group on spontaneous problems which require "thinking on your feet." To demonstrate their solutions, teams compete at a tournament at the end of the season. In the Odyssey-Ithaca program, participants take home weekly packets of puzzles and brainteasers, with prizes for successful completion.
- 10/05-9/10 A. Bishop, Bertram C. Bruce, et al. [Center for Global Studies, National Resource Centers, US Department of Education](#)
 * *iLabs support for Global Studies* ~\$50,000
Collaborative support, using iLabs, for the Cultural Heritage and Museum Practices project as well as cross-institutional collaboration on global informatics.
- 9/04-8/09 Schatz, B., Robinson, G., Zhai, C., Rodriguez-Zas, S., Bruce, Bertram C., & Fahrback, S. NSF FIBR Frontiers in Integrative Biological Research, NSF FIBR 0425852
 * *BeeSpace—An Interactive Environment for Analyzing Nature and Nurture in Societal Roles* \$4,987,688
Analyze social behavior on the whole-genome scale, using Apis mellifera, the Western honey bee, as the model organism. The BeeSpace environment enables users to navigate a uniform space of diverse databases and literature sources for hypothesis development and testing. The system uses statistical literature analyses to discover functional relationships between genes and behavior. The environment for functional analysis is being tested in an international community of laboratories studying honey bees and related organisms. Outreach for BeeSpace provides integrated research and education experiences at the graduate and undergraduate levels, plus training courses and minority outreach at high school and middle school levels.
- 9/04-8/09 Raineri, D., Braatz, R., Bruce, Bertram C., Burton, V., & Jakobsson, E. NSF GK-12 Track 2, NSF DGE 03-38215
 * *Graduate Teaching Fellows in K-12 Education (GK-12) Program* \$1,901,231
Supports teaching fellowships for graduate students in the sciences, technology, engineering, and mathematics (STEM) disciplines. The University of Illinois GK-12 Program fellows collaborate with STEM and Education faculty and participating K-12 teachers to integrate the use of computer-based modeling and scientific visualization into science and mathematics education.

1/08-3/09	<p>Casey, Leo, Bruce, Bertram C., Martin, Allan <i>Digital Literacy: New approaches to participation and inquiry learning to foster literacy skills among primary school children</i></p>	<p>Department of Education and Science, Ireland €56,150</p>
	<p><i>The challenge of improving literacy skills in the primary school sector particularly for those in disadvantaged areas is seen as an Irish education priority. However, in order to meet this challenge and to contribute to future policy and practice we need to enhance our definition of literacy, to call it digital literacy, and validate it through research in Irish primary school contexts. We call this new definition ‘digital literacy’.(1) Draw on emerging theory to develop a framework for conceptualising digital literacy in the context of Irish primary education. Models such as the Inquiry Cycle (Bruce & Bishop, 2002) offer a framework whereby educators can engage students in new literacy practices. (2) Investigate structured digital media practices in classroom contexts in four primary schools in the Digital Hub area. Three questions will be addressed: (a) the nature of student engagement and participation, (b) the adequacy of the newly developed framework (c) the degree to which such activities foster traditional literacy skills. Final report</i></p>	
1/08-6/08	<p>Casey, Leo, Bruce, Bertram C., Reynolds, Abigail <i>Technologies for Learning in the Docklands Schools</i></p>	<p>Dublin Docklands Development Authority, Ireland €30,000</p>
	<p><i>To work with all 26 Docklands schools and other partners during the period January–June 2008, to investigate current use of technologies in teaching and learning, to document experiences, and to identify both current and future needs. Final report</i></p>	
04/05-04/06	<p>Edwards, Barrington S., Garnett, Guy, et al. <i>Increasing African-American Involvement in Science, Technology, Engineering and Math</i></p>	<p>Critical Research Initiatives (CRI) Planning Grant, University of Illinois</p>
	<p><i>Planning grant to bring together interested faculty and others from the University and nationally to address the under-representation of African-Americans in Science, Technology, Engineering, and Math. The planning phase will be followed by concrete proposals, to CRI, to the campus, and to outside funding agencies, to initiate a public engagement program that will begin to address these problems and bring African American students into STEM studies and increase their enrollment numbers in University of Illinois departments.</i></p>	
9/02-5/05	<p>Bertram C. Bruce (collaboratory portion) <i>Center for Advanced Materials for Purification of Water with Systems—The Water CAMPWS: Collaboratory</i></p>	<p>NSF \$600K</p>
	<p><i>An NSF Science and Technology Center that involves scientists, engineers and other personnel principally from the University of Illinois at Urbana Champaign, Stanford University, and Clark Atlanta University. Its mission is to develop materials and systems to purify the earth’s waters for drinking, agricultural, industrial, and ecological purposes. Congruent to this mission is the development of diverse human resources to enhance the scientific research, educational, and industrial workforce for water purification. Bruce was PI for the collaboratory portion of the project, which supports both the research and human resource missions.</i></p>	
9/02-12/03	<p>Bertram C. Bruce, S. Irish, W. Robinson, A. Bishop <i>Hands on, plugged in: Living on the prairie</i></p>	<p>Madden Initiative (Silicon, Carbon, Culture) \$26K</p>
	<p><i>As part of the “Silicon, Carbon Culture” initiative at the University of Illinois, Life on the Prairie integrates content across disciplines (science and humanities), and integrates technology into collaborative classroom activities to document the past, present and future of the region we live in. Existing resources such as The Inquiry Page and Allerton Park-the silicon and carbon-are leveraged through interdisciplinary cooperation to create physical and cyber spaces for people to come together on a continuing basis.</i></p>	
9/99-8/03	<p>Bertram C. Bruce, G. Bowker, J. Porac, A. Kanfer <i>Can knowledge be distributed? The dynamics of knowledge in interdisciplinary alliances</i> [SES-9980182]</p>	<p>NSF, Knowledge and Distributed Intelligence \$1,400K</p>

Conducts studies of how knowledge is produced, shared, negotiated and co-constructed within distributed communities, and the ways in which technologies support these exchanges. The Distributed Knowledge Research Collaborative assumes that understanding distributed knowledge processes requires the perspectives and methodologies of multiple disciplines, including the sociology of scientific knowledge, computer mediated communication, social network analysis, information science, management, education, and writing studies.

S. Donovan, K. Greene, U. Thakkar, Bertram C. Bruce, E.

8/00-8/03	Jakobsson <i>Biology Student Workbench: An inquiry-based learning environment for pre-service teacher education</i> <i>Promote the use of molecular data in the identification and exploration of biological problems with an evolutionary perspective throughout undergraduate biology curricula. This will be accomplished by providing undergraduate faculty and students access to the powerful state-of-the-art bioinformatics tools currently in use by the research community transformed to afford a cognitively supportive environment. These products will enable undergraduate students to investigate current problems in biology using molecular biology tools and skills.</i>	US Department of Education, EdGrid \$180K
8/00-8/02	S. Chen <i>*National biological digital library</i>	NSF/EHR/DUE \$800K
8/01-8/02	Bertram C. Bruce <i>Workshop on inquiry-based learning</i>	North Central Regional Education Laboratory \$5K
8/01-8/02	Bertram C. Bruce <i>The Inquiry Page</i>	Phi Delta Kappa \$.5K
1/00-12/00	D. Eastburn, C. D'Arcy, Bertram C. Bruce <i>Improving undergraduates' understanding of agricultural science</i> [DUE-9952464]	NSF/EHR/DUE \$87K
6/99-6/02	E. Jakobsson, S. Donovan, Bertram C. Bruce, R. Zaritzky, S. Lathrop <i>*Biology Student Workbench: Inquiry tools for the use of molecular data in undergraduate biology</i> [DUE-9950689]	NSF/EHR/DUE \$320K
9/98-1/00	Bertram C. Bruce, D. Dillon <i>Effectiveness of web-based technology in preservice and inservice teacher education programs.</i>	Learning Technology Seed Grant Program, Committee on Institutional Cooperation \$10K
6/98-12/00	C. Potter, Bertram C. Bruce <i>Charleston-Mattoon Chickscope</i>	Lumpkin Foundation \$20K
1/99-12/99	C. D'Arcy, D. Eastburn, Bertram C. Bruce <i>A world wide web site to increase agricultural literacy</i>	Educational Technologies Board, UIUC \$6K
8/01-8/02	Bertram C. Bruce <i>Inquiry-based learning and teaching with emerging technologies for k-12 mathematics and science teachers</i>	Illinois Board of Higher Education, Eisenhower Program \$50K
1/98-12/98	D. Eastburn, C. D'Arcy, Bertram C. Bruce <i>Plants, Pathogens, and People</i>	Course Development Awards [two], UIUC \$16K
1/98-12/98	D. Eastburn, C. D'Arcy, Bertram C. Bruce <i>A world wide web site to increase agricultural literacy</i>	Educational Technologies Board, UIUC \$6K
1/98-	Bertram C. Bruce <i>An investigation of student learning in a world wide</i>	Research Board, UIUC

12/98	laboratory	\$16K
1/98- 12/98	Bertram C. Bruce <i>Inquiry-based learning and teaching with emerging technologies for k-12 mathematics and science teachers</i>	Illinois Board of Higher Education, Eisenhower Program \$60K
9/95-8/00	J. Levin <i>Graduate traineeships: Technologies for Learning</i>	NSF/EHR \$525K
9/94-8/97	R. Magin, Bertram C. Bruce <i>Bioengineering curriculum development at UIUC: Engaging non-science majors and future teachers</i>	Whitaker Foundation \$344K
0/93-8/95	P. Lauterbur, J. Dawson, Bertram C. Bruce <i>Project SEARCH (Science Education and Research for Children): Science education outreach for k-6</i>	NSF/EHR \$116K
1/93- 12/95	Bertram C. Bruce <i>Heath Literacy</i>	D. C. Heath \$10K
1/92- 12/95	R. Magin, Bertram C. Bruce <i>Enhancement of the teacher preparation and general science education at UIUC</i>	NSF/EHR/DUE \$75K
1/90- 12/93	J. Osborn, Bertram C. Bruce <i>The content and curricular validity of the 1992 NAEP in reading</i>	National Academy of Education \$29K
9/91-5/92	L. Bresler <i>Aesthetic foundations of education [faculty mentor]</i>	Vice Chancellor's Teaching Scholars course development award, UIUC \$3K
9/91-8/92	Bertram C. Bruce, R. Clift <i>Teacher communities</i>	Campus Research Board, UIUC \$7K
9/91-8/92	J. Fortschneider <i>Making the connections: An integrated scientific literacy model [grant to Wiley School, Urbana, IL]</i>	Illinois State Board of Education, Scientific Literacies Project \$64K
9/89-8/91	Bertram C. Bruce <i>Evaluation: Electronic networks for interaction</i>	Gallaudet University \$30K
9/89-8/91	Bertram C. Bruce <i>The Literacies Institute</i>	Education Development Center, Newton, MA \$180K
9/89-8/94	A. Collins <i>Center on Technology in Education</i>	Bank Street College of Education, NY ~\$1,000K
9.87-8/90	Bertram C. Bruce, Bertram C. Warren <i>Cheche konnen: An investigation-based approach to mathematics and science education for limited English proficiency students</i>	Office of Bilingual Education and Minority Language Affairs ~\$500K
1/85- 12/91	Bertram C. Bruce, A. Rubin <i>Reasoning under uncertainty [two consecutive grants]</i>	NSF/EHR, Applications of Advanced Technology ~\$2,000K
8/01-8/02	Bertram C. Bruce <i>Heath Readers</i>	D. C. Heath \$10K
1/83- 12/84	Bertram C. Bruce <i>Music education software</i>	Kurzweil Music Systems \$100K
1/81- 12/86	Bertram C. Bruce, A. Rubin <i>QUILL projects [total of eight separate grants]</i>	National Institute of Education, Harvard, University of Alaska, D. C.

1/80-12/83	R. Nickerson <i>Thinking skills</i>	Heath, others ~\$1,000K National Institute of Education \$750K
9/76-8/90	Bertram C. Bruce <i>Center for the study of reading</i> [sub to Bolt Beranek & Newman from UIUC; three consecutive contracts]	National Institute of Education ~\$5,000K
9/74-8/76	W. Woods <i>Speech understanding research</i>	Defense Advanced Research Projects Agency ~\$2,000K
9/71-8/76	S. Amarel <i>Research resource on computers in biomedicine.</i>	National Institutes of Health ~\$3,000K

3. Recognitions and Achievements

See list at <http://ilabs.inquiry.illinois.edu/ilab/chip/1143/>.

4. Supervision of Student Research

I typically serve on 25-30 doctoral committees in Library & Information Science, Education, Writing Studies, and other programs, and is currently Adviser or Research Director for ten of these. He has served on committees for more than 70 completed dissertations, including serving as Research Director on 20 of those. He has also served as international examiner for dissertations from several other countries. Through research grants he directly supervises seven graduate students and co-supervises six others. His advising list, <https://chipbruce.wordpress.com/teaching/advising/> includes current Ph.D. students, as well as those who have completed their doctoral study, with their dissertation titles and current positions. The list also includes students who have completed the Certificate of Advanced Study or Master's (with Thesis).

5. Editorial Reviews

Professor Bruce has served on the [editorial boards](#) of 20+ journals, and done *ad hoc* reviews for many others. He also does frequent reviews of proposals or manuscripts for publishers, regular conference program reviews, reviews for research funding agencies, and has edited for Wikipedia and Open Directory.

6. Conference Presentations

Selected presentations below; also see complete [presentation list](#).

Bruce, Bertram C. (2008, September 27). *Learning at the border* [keynote]. [Information and Communication Technologies \(ICT\) in Education](#), 6th conference of the Hellenic Scientific Society of Information and Communication Technologies in Education (HICTE), Limassol, Cyprus.

Bruce, Bertram C. (2008, June 3). *The future of the university: A university focused on the student* [Plenary session]. [International Conference UNIVEST'08: The student as axis of change in the university](#), Girona, Spain.

Bruce, Bertram C. (2006, June 6). Keynote: *Finding problems versus solving them: Inquiry in information seeking*. The Sixth Conference on Problem-Based Learning: Constructing Knowledge in Information Society, Tampere, Finland.

Bruce, Bertram C. (2005, August 23). Keynote: *Inquiry-based learning*. Information Resources Retreat on Inquiry Based Learning, [Information Resources](#), University of Calgary.

Bruce, Bertram C. (2002, April 30). *Technology and literacy: Literacy in an information age*, BETHA Education and Technology Lecture Series, Ohio State University, Columbus, OH.

Keynote Address: *Educational technology: Media for inquiry, communication, construction, and expression*. Republic of China Multimedia Education Language Instruction Association 1999 (ROCMELIA), Kaoshiung, Taiwan, December 17/18, 1999.

Keynote Address: *Changing literacies/changing identities*. CIERA 2nd Annual Jamboree. Michigan State University, East Lansing, May 19, 1999.

Keynote: *Changing literacies: The challenges of cyberspace*, Community College/University English Articulation Conference, Monticello, IL, April 19, 1999.

Invited talk: *Twenty-first century literacy*. Seminar on Advancing Communities of Learning in an Age of Advancing Technologies. Ohio State University, Columbus, OH, June, 1997.

Invited talk: *The discourses of inquiry: Pedagogical challenges and responses*. Conference on Literacy, Identity, and Mind. University of Michigan, Ann Arbor, October, 1991.

Keynote address: *Creating computers in the classroom*. Computers and Writing IV. University of Sussex, Sussex, UK, March 1991.

Keynote address: *The evolution of writing communities*. Fifth Computers and Writing Conference. University of Minnesota, Minneapolis, MN, May 1989.

Keynote address: *Toward a theoretical basis for computer assisted instruction*. Symposium on Cognitive Implications of Computer Assisted Instruction. Georgia State University, Atlanta, GA, May 1986.

Invited address: *Rhetorical structures and the author-reader relationship*. Australia Reading Association Conference, Brisbane, Queensland, Australia, July 1985.

Keynote address: *Computers in education*. Australia Computers in Education Conference, Brisbane, Queensland, Australia, July 1985.

Invited address: *Integrated systems for basic cognitive education*. New Information Technologies in Education, International Children's Book Fair. Bologna, Italy, March 1985.

MillerComm 84 Lecture: *What makes a good school textbook?* University of Illinois, February 1984.

Invited address: *Computers in the minority classroom*. National Urban League Convention. New Orleans, Louisiana, July 1983.

C. SERVICE

ORGANIZATION	ACTIVITY	DATES
1. PUBLIC SERVICE		
Incaa Designs	Advisory Board	2007-present
University of Illinois at Chicago	Advisory Board: <i>Assessing Readers Struggling with Comprehending Multiple Text Sources</i>	2006-present
University of Tampere	Consultant: Web Searching, Information Literacy and Learning (Web-SeaL)	2006-2009
Conner Prairie Living History Museum	Consultant: Opening Doors to Great Guest Experiences	2005-present
Read/Write/Think (Project of the International Reading Association and the National Council of Teachers of English)	Advisory Board	2005-present
Republic of China Multimedia Education Language Instruction Association (ROCMELIA)	Advisory Board	1996-present
Baton Rouge Community College	Adviser: 21st-century library/learning center	2002
Organisation for Economic & Cooperative Development	Committee on Information Technologies & Basic Learning: Chair, Information Technologies & Writing Group	1984-87
National Science Foundation	proposal panel review	1999
	proposal reviews	various
	Panel: Information Technology for Science Education	1987
Office of Educational Research & Improvement	proposal reviews	various

D. C. Heath/Houghton-Mifflin	Literacy programs	1987-present
National Institute of Mental Health	proposal reviews	various
Veterans Benefits Administration	Advisory Panel: <i>Reader-Focused Writing</i> Evaluation	1997-98
Teaching Teleapprenticeships	Advisory Board	1992-97
Epiphany Project	Advisory Board	1995-97
Distance Mentor, SRI International	Advisory Board	1993-96
Diamond School, Oakwood, IL	Schoolwide assessment plan	1994
University Laboratory High School, Urbana, IL	Search Committee: Director of Educational Technology	1995
Hypermedia Learning Environments, UIUC	Advisory Board	1992-96
National Academy of Education	Evaluation: the 1992 National Assessment of Educational Progress in Reading	1990-92
Technical Education Research Centers: <i>Hands On Data Project</i>	Advisory Board	1990-93
Educator's Distance Learning Consortium	College Liaison	1990-94
Illinois Math Science Academy	Summer Adventure Program	1990-91
Education Development Center: The Literacies Institute	Advisory Board	1989-92
Illinois State Board of Education	Panel on Technology Competencies	1998-00
The Learning Company	Software for reading & writing development	1991-92
Bank Street College of Education: Earthlab	Advisory Board	1985-87
Kurzweil Music Systems	Music education software	1983-84
Gallaudet University	Evaluation: <i>Electronic Networks for Interaction</i>	1987-90

2. DISCIPLINARY & PROFESSIONAL SERVICE

Association for Library & Information Science Education	Pratt-Severn Faculty Innovation Award Committee	2006-07
Association for Computational Linguistics	Program Committee	1981
American Educational Research Association	Program Committees	1998 (C, K), previous years back to 1980
Association for Computational Linguistics	Sylvia Scribner Award Committee	1992-93
Association for Computational Linguistics	Program Committee	1981
Association for Computing Machinery	Executive Board	1977-80
Association for Computing Machinery	Faculty Sponsor, Rutgers U.	1971-74
Association for Computing Machinery	Student Chapter President, U. of Texas at Austin	1969-70
Computer Supported Cooperative Learning	Program Committee	1995
Computer Supported Cooperative Work	Special Issue on computer-supported collaborative writing	1995
Computer Supported Cooperative Work	Program Committee	1988
Dialogues in Methods of Education	Member	1990-present
International Conference on Computers in Education	Program Committee	1998

International Reading Association	New Literacies Committee	2006-present
	Visual Arts & Reading Committee	1994-95
	Conference reviewer	various
John Dewey Society	Member	2000-present
Joint Conference on Digital Libraries	Program Committee	2006
National Council of Teachers of English	Regional Publications Advisory Committee	1993-present
	Instructional Technology Committee (NCTENet)	1992-96
National Reading Conference	Technology Committee	1994-present
	Committee on Contributions & Donations	1992-95
	Program Committees	various
World Universities Congress, Çanakkale Onsekiz Mart Üniversitesi	International Scientific Advisory Committee	2008-10

3. UNIVERSITY/CAMPUS SERVICE

University of Illinois	Campus Teaching and Learning Board	2009-present
	Teaching Academy Leadership Network	2008-present
	Teaching Advancement Board	2006-09
	University Fulbright Interview Committee	2006
	Search Committee for Dean of Library and Information Science	2001-2003
	Dean Review	1995-96, 2000-01
	The University & the Planet Earth Committee	1992-94
Graduate School of Library & Information Science	Executive Committee	2003-05, 2008-10
	GSLIS/Library Teaching Alliance	2008-present
	Office of Equal Opportunity and Access, Affirmative Action Officer	2008-09
	Community Informatics Curriculum (CI Corps plus SCOI cluster)	2008-09
	Faculty/Staff Campaign	2009
University of Illinois Writing Project (UIWP)	Advisory Panel	2008-09
	Cross-campus Planning	2007-08
Institute for Advanced Computing Applications and Technologies	Review and Planning Committee	2007
Ethnography of the University Initiative	Advisory Board	2006-present
Center for Writing Studies	Graduate Programs Committee	1990-present
	Executive Committee	1991-present
Mathematics, Science, & Technology Education Office	Board of Advisers	1993-present
Arts in a Technology-Intensive World	Steering Committee	2003-present
NCSA Education, Outreach, Training Library	Strategic Planning Committee	2003-2004
	Library of the Future Committee	2003-2005
NCSA Education, Outreach, Training Siebel Center (Computer Science)	Strategic Planning Committee	2003-2004
Project SEARCH	Educational Board	2003-2004
National Center for Supercomputing	Instructions & evaluation	1992-00
	Education, Outreach, & Training Advisory	1997-99

Applications	Board	
Council on Teacher Education	Science Area Committee	1994-96, 1997-1999
Advanced Information Technologies Group		1993-96
Sloan Center for Asynchronous Learning	Committee for Research & Evaluation	1994-95
Strategic Initiative on Imaging	Advisory Group	2009-present
Educational Technologies Board	Member	1991-94
	Chair, Search for CERL Director	1991-92
Program for the Study of Cultural Values & Ethics	Joint Initiative on Science, Technology, & Values	1992-93
	Moderator: Panel series on Literacy	1991-92
Beckman Institute	Cognitive Science Colloquium Committee	1990-92
Institute of Government & Public Affairs	Information Technology Policy Initiative Advisory Panel	1992-93
	Science & Technology Committee	1990-92
College of Education	STEM Faculty Excellence Search	2008-09
	Online Masters Planning	2007
	Task Force on Learning Sciences and Ecologies	2006
	Curriculum, Technology, & Educational Reform	1998-00
	Education Online	1998-00
	Curriculum, Technology, & Educational Reform	1998-00
	Technology Studies in Education Committee	1999-00
	Senior Technology position search	1998-99
	Chair, Curriculum, Technology, & Education Reform Project Coordinator search	1998
	C&I Department Head Search Committee	1994, 1997-98
	College Technology Committee	1997-99
	Traineeship Selection Committee, Technologies for Learning Program	1996-99
	Technologies for Learning Program Executive Committee	1994-2001
	Naturalistic Research Methods Area Committee	1992-98; Chair, 1997-98, 1994-95
	Task Force on New Information Technologies	1997
	College Colloquium Series	1996
	College Executive Committee	1994-96; 1991-93; Moderator, 1995-96, 1992-93
	Grayce Wicall Gauthier Professorship Search Committee	1995
	Chair, Graduate Programs Committee	1993-95

	Curriculum Research Methods Area Committee	1993-94
Center for the Study of Reading	Cultural Diversity & Pluralism Committee	1993-94
	Executive Committee	1993-94
	New Ideas Committee	1992-93
	School Development Committee	1990-91
Educational Psychology Department	Cognitive Science Faculty Search Committee	1990-91
	Evaluation Faculty Search Committee	1998-99
Curriculum & Instruction Department	Chair, Educational Technology Faculty Search Committee	1998-99
	Faculty Advisory Committee	1990-92, 1994-96, 1998-99
	Personnel, Policies, & Procedures Committee	1997-98
	Faculty Awards Committee	1997-98
	Advisory Committee, Year Long Program	1997-98, 1991-92
	Mathematics, Science, & Technology Division	1991-00; Chair, 1992-94, 1997-98
	Faculty Mentor (2)	1994-99
	Language & Literacy Division	1991-94
	Science Education Faculty Search Committee	1991, 1993
	Curriculum Board, Year Long Project	1991-92
	Science Curriculum Committee	1990-91
	Teacher Education Task Force	1990-91
Promotion & Tenure	University of Illinois (2); various other	2008
	University of Illinois (2), York, Canada; various	2007
	University of Illinois (2); various	2006
	University of Illinois (3), Michigan State; Florida State	2005
	University of Illinois (2), Michigan State, U Queensland, Brisbane	2004
	U Queensland, Brisbane; Central Queensland U.	2003
	Nanyang Technological U.; UC Irvine, Texas A&M; Oakland U.; University	