

## Articles

# New Paths for Computing Humanists

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Keywords: [Ian Lancashire](#), [bibliography](#), [biography](#), [humanities computing](#) / [Ian Lancashire](#), [bibliographie](#), [informatique d'humanités](#)

DOI: <http://doi.org/10.16995/dscn.134>

## 1. Introduction: A Volume Celebrating and Recognizing Ian Lancashire

Digital Humanities is now successfully established as an inter-discipline with local, national, and international import, and remains a vibrant pursuit because of its position at the intersection of fast-paced advances in computation and their application to the traditional pursuits of the humanities. As a point of intersection between the two, it presents a moving target of the best kind, constantly advancing as computational possibilities evolve and as humanistic focus alters. This collection arises out of a need to revisit that intersection point with some frequency and, in doing so, to map out possible future paths for computer-assisted practices in arts and the humanities. The articles here act as signposts to those futures, and at the same time celebrate and recognize the accomplishments of Ian Lancashire, a Canadian whose internationally significant work within the field of humanities computing has had a profound influence on the application of computer technology to the various disciplinary activities of the arts and humanities.

When people speak of Ian's work, they often note it to be transformative, establishing strong Canadian leadership in the academic inter-discipline of humanities computing, of which he was the prime mover in founding in our country, and establishing international integration with that foundation at a key point in its development. For this reason, one hears of Ian being referred to as a "father of Canadian humanities computing." Figures of comparable influence from his own department at the University of Toronto include Northrop Frye and Marshall McLuhan. Ian has made many contributions to the advancement of knowledge in several areas, including the digital humanities but also well beyond, as mentioned below.

*Dramatic Texts and Records of Britain: A Chronological Topography to 1558* (U Toronto P and Cambridge UP, 1984) became, immediately upon its publication, the authoritative reference work in its field, serving the international community studying the dramatic literature of early England -- as did the *Humanities Computing Yearbook 1989/1990* (Clarendon P, 1991) for those applying the computer to the practices of the humanities teacher and researcher. (Its revised volume, co-edited with Willard McCarty, superseded it expertly.) *Using TACT with Electronic Texts* (Modern Language Association of America, 1996; with Willard McCarty, Russon Wooldridge, and John Bradley, *et al.*) is a well-acknowledged milestone in the development of computer-assisted text analysis, specifically notable at the time because of its versatility for text-oriented research, the encoded corpus of canonical literature in English and other languages it included, and the hitherto unheard-of power it brought to the microcomputer desktop employed by most humanities researchers. Related to the development of TACT, Ian's adaptation of linguistic and stylistic analysis techniques to the matter of literature and historical lexicography provided a model for those working on such materials for the previous decade, which itself saw many major advances in the field; TACT, it is worth noting, was electronically published via what we would today call today an *open access* model, distributed

freely in electronic form during its development and well after its MLA publication. Subsequently, the innovative approach Ian brought to the *Early Modern English Dictionary Database* (EMEDD; U Toronto, 1996-) has made the EMEDD the most detailed and most accessible resource of its kind, informing the work of experts, students, and interested novices worldwide; his work in its successor project, the *Lexicons of Early Modern English*, is helping to redefine our understanding of the shape of our language, today, via our understanding of the period that saw its greatest development. Furthermore, following in the footsteps of some of Canada's most influential academics, Ian's work with the renowned University of Toronto English Literature teaching text, *Representative Poetry* (U Toronto, 1994-present), has transformed a well-recognized volume with local import into a dynamic collection of illustrative canonical poetic literature in English accessed internationally by an audience with a makeup far beyond what its original editors could have themselves imagined. Finally, Ian's essay, "One Day," in the C3.ca collection of papers about the impact of supercomputing on Canadians has had an untold impact on many both within and outside academe, because in that essay he was able to put an understandable and human face on our national computational infrastructure in a way that no one else could have hoped to do, making it clear to all Canadians how essential our investment in such technologies is to our way of life and our future.

All of these are outstanding accomplishments, each exemplary of innovation across several spheres of leadership and influence, and complemented fully by Ian's equivalent contributions to the community in service and research. Significant among these are his several terms as President of the Consortium for Computers in the Humanities, the founding organization representing the digital humanities in our country which is now known as the Society for Digital Humanities / Société pour l'étude des médias interactifs. The legacy he has left as founder and director of the University of Toronto's exemplary Centre for Computing in the Humanities is as broad as it is deep, felt both nationally and internationally. In addition, Ian has been recognized by fellowship in the Royal Society of Canada, has been awarded a Killam Research Fellowship and has been bestowed the COCH/COSH Award for Outstanding Achievement for Computing in the Arts and Humanities.

Ian's significant accomplishments and leadership are partially documented in the listing below, and the tradition of his work well-represented in the work of this collection's authors as they consider and explore new paths for all computing humanists. Contributors to this volume are colleagues, collaborators, and former pupils of Ian. They are several among many who continue to share a vision for the potential of computation to contribute significantly to the many fields represented by the humanities.

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One further contribution related to this collection is worth noting. At one point a substantial subvention for print publication was raised, but the contributors and editors decided against a method of publication requiring such subvention. The decision was the result of some very productive discussions on the nature of publication as our community understands it, the significant benefits of open access electronic distribution, the balance of the subvention's amount against the other uses to which the same sum could be put and, ultimately, positive reflection on Ian's own spirit and commitment to our community in which we considered the ways in which he himself has demonstrated that commitment. Given these considerations, our group approached the Society for Digital Humanities / Société pour l'étude des médias interactifs with a proposal that we publish the collection electronically in its journal and the funds we initially had raised for publication subvention be used, instead, to establish an award in Ian's name specifically with the intent of celebrating and recognizing excellence among junior members of our community. Following this, we are very pleased to announce the establishment of the SDH/SEMI Ian Lancashire Award for Graduate Student Promise, first to be presented at SDH/SEMI's 2009 conference.

The editors and contributors are also indebted to a large group for all deliberations involved in the

preparation of this volume and its related award. We wish to thank Karin Armstrong, Melanie Chernyk, Anne Correia, Brett Hirsch, David Hoover, John Lavagnino, Stefan Sinclair, Jeff Smith, Ron Tetreault, Kirsten Uszkalo, and Christian Vandendorpe.

Ray Siemens and Gary Shawver

Willard McCarty, John Bradley, Michael Best, Dennis Jerz, Antoinette Renouf, Geoffrey Rockwell, Robert Whalen, Bill Winder, and Russ Wooldridge.

## New Paths for Computing Humanists A Volume Celebrating and Recognizing Ian Lancashire

Ray Siemens and Gary Shawver, eds.

1. Introduction: A Volume Celebrating and Recognizing Ian Lancashire. Ray Siemens and Gary Shawver.
2. That Uneasy Stare at an Alien Nature. Willard McCarty.
3. "A Marvellous Convenient Place": Collaboration in the Electronic Text. Michael Best.
4. What the Developer Saw: An Outsider's View of Annotation, Interpretation and Scholarship. John Bradley.
5. Corpus Linguistics beyond Google: The WebCorp Linguist's Search Engine. Antoinette Renouf.
6. Linking Fancy unto Fancy: Towards a Semantic Codex. Bill Winder.
7. Expressing the Cybermedium (3): Seven Years Later. Russ Wooldridge.
8. Enter Tagger: Encoding (Reading) *The Digital Temple*. Robert Whalen.
9. Drawing Networks in the *Devonshire Manuscript* (BL Add 17492): Toward Visualizing a Writing Community's Shared Apprenticeship, Social Valuation, and Self-Validation. Ray Siemens, Johanne Paquette, Karin Armstrong, Cara Leitch, Brett D. Hirsch, Eric Haswell, and Greg Newton.

**Ian Lancashire**

<http://www.chass.utoronto.ca/~ian>

## 2. Current Professional Affiliations and Activities

Editor, *Representative Poetry Online*, 1994-.

Editor, *Lexicons of Early Modern English*, 2006- (Early Modern English Dictionaries Database, 1996-2007).

Director, University of Toronto English Library (UTEL), 1994-.

Co-founder, *Canadian Poetry*, with Sophia Kaszuba and Sian Meikle. University of Toronto Library, 1996-.

Member, Digital Media Experts Roundtable (V-P Research), 2008-.

President (English), Consortium for Computers and the Humanities / Consortium pour Ordinateurs en Sciences Humaines (COCH/COSH, now SDH/SEMI), Nov.1992-May 2003; Director, 2003-.

Project Bibliographer and Executive Committee member, Records of Early English Drama, 1975-81; Executive Committee 1981-95; Advisory Board, 1995-2002; Senior Advisor, 2003-.

Member of Advisory Board, Digital Renaissance Editions, 2007-.

Editorial Board, Topics in Digital Humanities, University of Illinois Press, 2005-.

Editorial Board, International Computer Archive of Medieval and Modern English (ICAME), 1997-2004

Member, EDICTA (Early Dictionaries Group), 1996-.

Editorial Board, the Internet Shakespeare Editions, 1995-.

Senior Editorial and Advisory Board, *Early Modern Literary Studies* (EMLS), 1994-.

Member of ACCUTE, Canadian Society for Renaissance Studies, Dictionary Society of America, MLA, SDH/SEMI.

### 3. Refereed Publications: Articles

1. "The Theory and Practice of *Lexicons of Early Modern English*." *Early Modern Literary Studies*. Forthcoming.
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7. "Ninsei Street, Chiba City, in Gibson's *Neuromancer*." *Science-Fiction Studies* (2003): 341-6. Print.
8. "Editing *Representative Poetry On-line*." *Journal of Scholarly Publishing* 34.1 (2002): 16-29. Print.
9. "Probing Shakespeare's Idiolect in *Troilus and Cressida* I.3.1-29." *University of Toronto Quarterly* 68.3 (1999): 728-67. Print.
10. "Adapting Web Electronic Libraries to English Studies." With Christopher Douglas and Dennis G. Jertz. *Surfaces* VIII.102 (1999): 1-19. Web. <<http://www.pum.umontreal.ca/revues/surfaces/vol8/lancashire.pdf>>
11. "Paradigms of Authorship." *Shakespeare Studies* 26 (1998): 294-99. Print.
12. "The Common Reader's Shakespeare." *The Internet Shakespeare: Opportunities in a New Medium*. A special issue. Ed. Michael Best. *Early Modern Literary Studies* 3.3 / Special Issue 2 (1998): 4.1-12. Web. <<http://purl.oclc.org/emls/03-3/lancshak.html>>
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Forum Highlights." *RLIN Focus* Issue 27 (August 1997). Web. <<http://worldcat.org/arcviewer/1/OCC/2007/08/08/0000070503/viewer/file968.html>>

14. "Empirically Determining Shakespeare's Idiolect." *Shakespeare Studies* (1997): 168-82. Print.

15. "Understanding Shakespeare's *Titus Andronicus* and the EMEDD." *New Scholarship from Old Renaissance Dictionaries: Applications of the Early Modern English Dictionaries Database*. A special issue. Ed. Ian Lancashire and Michael Best. *Early Modern Literary Studies* April 1997. Web. <<http://extra.shu.ac.uk/emls/si-01/si-01lancashire.html>>

16. "Representative Poetry On-line: Updating an Historical English Teaching Anthology." *Text Technology* 6.3 (1996): 139-47. Print.

17. Review of *Directions in Corpus Linguistics: Proceedings of Nobel Symposium 82 Stockholm, 4-8 August 1991*, ed. Jan Svartvik, Mouton, 1992, *The ICAME Journal* 19 (1995); rpt. in *The International Journal of Corpus Linguistics* 1.2 (1996): 317-35. Print.

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19. "The Toronto English Renaissance Dictionaries Database." *Medieval English Studies Newsletter* 30 (1994): 6-8. Web.

20. "Uttering and Editing: Computational Text Analysis and Cognitive Studies in Authorship." *Texte: Revue de Critique et de Theorie Litteraire* 13/14 (1993): 173-218. Web.

21. "Chaucer's Phrasal Repetends and *The Manciple's Prologue and Tale*." *Computer-Based Chaucer Studies*. CCH Working Papers 3. Toronto: Centre for Computing in the Humanities (1993): 99-122. Web.

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29. "Letter from Toronto." *Computers and the Humanities* 19.4 (1985): 251-53. Print.
30. "Annotated bibliography of printed records of early British drama and minstrelsy for 1982-83." *Records of Early English Drama Newsletter* 9.2 (1984): 1-56. Print.
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32. "Annotated Bibliography of Printed Records of Early British Drama and Minstrelsy for 1980-81." *Records of Early English Drama Newsletter* 7.1 (1982): 1-39. Print.
33. "Moses, Elijah and the Back Parts of God: Satiric Scatology in Chaucer's *Summoner's Tale*." *Mosaic* 14 (1981): 17-30. Print.
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35. "The Corpus Christi Play of Tamworth." *Notes and Queries* 224 (1979): 508-12. Print.
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37. "Ioly Walte and Malkyng': A Grimsby Puppet Play in 1431." *Records of Early English Drama Newsletter* 4.2 (1979): 6-8. Print.
38. "Records of Early English Drama and the Computer." *Computers and the Humanities* 12 (1978): 183-88. Print.
39. "Bibliography of Printed Records of Early British Drama and Minstrelsy for 1976-7." *Records of Early English Drama Newsletter* 3.1 (1978): 5-17. Print.
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6. "Early Modern English Semantics and Lexicon." *Historical Linguistics of English: An International Handbook* (Mouton de Gruyter). Ed. Alexander Bergs and Laurel Brinton. Berlin: Mouton de Gruyter. Forthcoming. Print.

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44. *The Humanities Computing Yearbook 1989/1990: A Comprehensive Guide to Software and Other Resources*. Comp. Ian Lancashire. Oxford: Clarendon, 1991. Print.

45. *The Humanities Computing Yearbook 1988*. Comp. Ian Lancashire and Willard McCarty. Oxford: Oxford UP, 1989. Print.

46. *Dramatic Texts and Records of Britain: A Chronological Topography to 1558*. Toronto and Cambridge: U of Toronto P and Cambridge UP, 1984. Print.

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## 5. Non-Refereed Publications

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4. "Comprehensive Program Description: Image Text Sound Technology (ITST)." Ottawa: Social Sciences and Humanities Research Council of Canada/Conseil de recherches en sciences humaines du Canada (SSHRC/CRSH), 2002.

5. "Teaching Poetry Online." *English Studies at Toronto* 1.9 (2002): 3-4. Print.

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Studies. Toronto: U of Toronto, 1994. Web. <<http://www.library.utoronto.ca/www/utel/ret/ret.html>>

11. "A Proposed ISO Standard for Computer Encoding of Literary Texts." *MLA Newsletter* 23.2 (1991): 22. Print.

12. *Humanities Computing: The CCH Toronto-IBM Canada Co-operative*. Toronto: Centre for Computing in the Humanities, 1990. Print.

13. "The Centre for Computing in the Humanities." *Exchange: The IBM Cooperative Projects Magazine* 4 (1988-89): 12-13. Print.

14. "The Dynamic Text Conference: Humanists show impressive strength," *University Affairs* (1989): 5. Print.

15. *The Dynamic Text*. Ed. Ian Lancashire. A guide for the Dynamic Text conference in June 1989. Toronto: Centre for Computing in the Humanities, 1989. Print.

16. "Industry and Academe in Humanities Computing." *ACH Newsletter*. 9.4 (1987): 1-2, 4-5. Print.

17. *Ontario Humanities Computing*. 1.1-1.2 (Jan.-March 1987). Editor and contributor. Formerly *Centre for Computing in the Humanities Newsletter*. 1986-87. Print.

18. *Computers and the Humanities: Preprints of Conference Papers*. Ed. Ian Lancashire. Toronto: Centre for Computing in the Humanities, 1986. Print.

19. "Basic Resources for Computing in the Humanities." *Software Fair Guide*. Ed. Willard McCarty. Toronto: Centre for Computing in the Humanities, 1986. 131-89. Print.

20. *Computer Applications in Literary Studies: A Userbook for Students at Toronto*. Toronto: U of Toronto, Department of English, 1983. Print.

21. "A Critical Study of the Criterion, 1929-36." *Arts Review* 17 (1965). Print.

## 6. Papers Presented at Meetings and Symposia

1. "Innovative Research Trends in the Human Sciences." With Elaine Nardocchio. Conf. on "New Research Emergent from Technology: Reconfiguring the Disciples." University of Alberta. Edmonton. 27 Nov. 1992. Print.

2. "The Expansion of Early Modern English Vocabulary." Fourth International Conference on Historical Lexicography and Lexicology. Edmonton. 19-21 June 2008.

3. "Vocabulary Changes in Agatha Christie's Mysteries as an Indication of Dementia: A Case Study." With Graeme Hirst. Poster paper. 19th Annual Rotman Research Institute Conference, Cognitive Aging: Research and Practice. Toronto. 8-10 March 2009. Web. < <http://ftp.cs.toronto.edu/pub/gh/Lancashire+Hirst-extabs-2009.pdf> >.

4. "Theory and Practice of Lexicons of Early Modern English." Early Modern Drama in the Electronic Age. NEER (Network for Early European Research) Conference. Perth. 5 July 2007.

5. "Lexical Profiling in *Lexicons of Early Modern English*." International Association of University Professors of English. Lund. 9 Aug. 2007.
6. "Online Historical Lexical-encyclopedic Entries and Semantic Indexing." Chicago Colloquium on Digital Humanities and Computer Science. Chicago. 6 Nov. 2006.
7. "LEME, EEBO/TCP, and Early Modern English." Bringing Text Alive: The Future of Scholarship, Pedagogy, and Electronic Publication. Early English Books Online-Text Creation Partnership (EEBO/TCP) Conference. Ann Arbor. 14-17 Sept. 2006.
8. "Cybertextuality and Text Analysis." Plenary Session. Association for Computers and the Humanities/Association for Literary and Linguistic Computing (ACH/ALLC) Conference. University of Victoria. 18 June 2005.
9. "Lexicons of Early Modern English and Text Analysis." Canadian Symposium on Text Analysis (CaSTA) 2005 Symposium. Edmonton. 3 Oct. 2005.
10. "Putting Texts Online." Arts and Letters Club. Toronto. 22 Nov. 2005.
11. "Rethinking Poetry by Teaching it Online." Session 658: Computing, Theorizing, Communicating. Modern Language Association (MLA) Convention. Place, State? 30 Dec. 2004.
12. "Early Tudor Dramatist-Lexicographers and Henrician Power." 2004 Annual Meeting of the Shakespeare Association of America. New Orleans. 10 Apr. 2004.
13. "Progress Report on Lexicons of Early Modern English." 24<sup>th</sup> International Computer Archive of Modern English (ICAME) Conference 2003. Guernsey, Channel Islands. 27 Apr. 2003.
14. "Encoding Renaissance Electronic Texts." Renaissance Society of America. Toronto. 28 March 2003.
15. "Progress Report on *The Lexicons of Early Modern English*." Special Session on LEME. Consortium for Computers in the Humanities/ Consortium pour ordinateurs en sciences humaines (COCH/COSH, Canadian Federation for the Humanities and Social Sciences (CFHSS) Congress. Toronto. 28 May 2002.
16. "The First Monolingual English Dictionary?" Studies in the History of the English Language. Seattle. 18 March 2002.
17. "The National Data Archive Group -- Phase 1: Establishing the Need." COCH/COSH Plenary Session. Humanities and Social Sciences Federation of Canada (HSSFC) Congress. Laval University. 25 May 2001.
18. "TAPoR: Developing a Text Analysis Portal for Research." With Geoffrey Rockwell. COCH/COSH Plenary Session. CFHSS Congress. Laval University, 25 May 2001.
19. "Lexicon of Early Modern English." Renaissance Society of America. Chicago, IL. 30 March 2001.
20. "The Ass's Bridge? Early Dictionaries and Shakespeare's Language." MLA Convention. Washington, DC. 28 Dec. 2000.
21. "Teaching SF." Ad Astra Conference. Toronto. 24 Feb. 2001.
22. "Marking Time in Gabriel Frende's *Almanacke* (1599)." Almanacs, Dates, and Clocks: Shakespeare and the Calendar. 28th Annual Meeting of The Shakespeare Association of America. Montreal. 7 Apr. 2000.

23. "Why do We Need a Dictionary Corpus for Early Modern English?" Studies in the History of the English Language. UCLA. 26-28 May 2000.
24. "On-line Infrastructure for ENG 201Y (Reading Poetry)." IT and the University Professor. ITForum. University of Toronto. 12-13 Apr. 2000.
25. "Corpus Linguistics, the Humanities, and Virtual Organizations." Academia/Industry Working Conference on Research Challenges (AIWoRC 2000). Buffalo. 26-28 Apr. 2000.
26. "Gathering the Threads." *Editing London Records* Editorial Problems Conference. Toronto. 13 Nov. 1999.
27. "An Early Modern English Theatre-History Terminology." 27th Annual Meeting of The Shakespeare Association of America. San Francisco. April 1999. Web. <[www.chass.utoronto.ca/~ian/saa99/thintro.html](http://www.chass.utoronto.ca/~ian/saa99/thintro.html)>.
28. "English Text Processing." Linguistic Studies ... Celebrating 30 Years, University of Toronto. 15 Apr. 1998.
29. "Information Technology and the Humanities: An Assessment." International Humanities Forum, Congress of the Social Sciences and Humanities. Ottawa. 27 May 1998.
30. "Word Processor or Quill Pen?" Designing for Human Performance: 30<sup>th</sup> Annual Conference of the Human Factors Association of Canada/Association Canadienne d'ergonomie (HFAC/ACE). Mississauga, Ontario. 21 Oct. October 1998.
31. "The Early Modern English Dictionaries Database (EMEDD): A Profile." Translation Information Session. Centre for Academic Technology, University of Toronto Library. 2 Oct. 1998.
32. "Humanities' Futures." HSSFC Congress. Ottawa. 28 Nov. 1998.
33. "Funding IT in the Humanities." Professional Concerns Forum: Research Ethics, Agendas, and Funding. Association of Canadian College and University Teachers of English/ Association for Canadian Theatre Research/ Association de la recherche théâtrales au Canada (ACCUTE/ACTR/ARTC). University of Ottawa. 28 May 1998.
34. Introduction and conclusion to closing panel. Computing the Edition: 33rd Annual Conference on Editorial Problems., University of Toronto. 9 Nov. 1997.
35. *TACT* demonstration. MLA Convention., Toronto. 28-30 Dec. 1997.
36. "Probing Shakespeare's Memory in *Troilus and Cressida* 1.3.1-29." 25th Annual Meeting of The Shakespeare Association of America. Washington, D.C. Spring 1997.
37. "Adapting Web Libraries to English Studies." With Christopher Douglas and Dennis Jerz. ACH/ALLC Conference. Kingston, ON. 4 June 1997.
38. "The University of Toronto English Library." Research Libraries Forum Workshop. Toronto. 23 May 1997.
39. "A Common Reader's ISE and the Research Edition." The Internet Shakespeare: Opportunities in a New Medium. Learned Societies of Canada Congress. St. John's, NF. 1 June 1997.
40. "Using *TACT* on James Joyce." Session 11: Hypertext and Hypermedia Joyce Project: An Open

Workshop. North American James Joyce Symposium. Victoria College. University of Toronto. 13 June 1997.

41. "Use of Web Pages in Teaching." Use of Academic Technology to Support Teaching and Research. Innis College and University of Toronto. 29 Nov. 1996.

42. "Tagging for Specific Purposes." Session 87: Text Encoding and Textual Theory. MLA Convention. Washington, D.C. 28 Dec. 1996.

43. "Making *Representative Poetry* an Electronic Library." Session 5: Re-making Texts, Critical Histories and Interpretation On-line. Learned Societies of Canada. Brock University. 25 May 1996.

44. "Understanding Shakespeare's *Titus Andronicus* with the EMEDD." English Corpora I: Using the Early Modern English Dictionary. Learned Societies of Canada Congress. Brock University. 24 May 1996.

45. "An English Literature Library on CD-ROM." Poster paper. 17th International ICAME Conference. Stockholm. 15-19 May 1996.

46. "The Early Modern English Dictionaries Database (EMEDD)." Diachronic Corpora Workshop. Helsinki. 14 May 1996.

47. "TACT and Glossarial ConCORDing." With Gary Shawver. Session 115. 31st International Congress on Medieval Studies. Western Michigan University. 9 May 1996.

48. "An Early Modern English Dictionary Textbase." Diachronic Corpora: Coverage and Structure. University of Cambridge. 26 March 1993.

49. "A Textbase of Early Modern English Dictionaries 1499-1659." ACH-ALLC International Conference. Georgetown University, Washington, D.C. June 1993.

50. "Low-cost Textbooks, Micros and Mainframes" Session 2: In-house Publishing Technology for Scholars. Conference on Scholarly Publishing: Towards the Nineties. Department of English, University of Toronto. 8 Dec. 1983.

51. "Using Computers to Teach Literature" University of Toronto Humanities Interest Group, Symposium on Computers and the Humanities. Trinity College. 26 Nov. 1983.

52. "Teaching Graduate Computing in English Studies" The Applied Linguistics Research Working Group. Glendon College. November 10, 1983.

53. "Patrons and the English Moral Play" Session 16: Patrons of English Drama and Minstrelsy. 15th International Congress on Medieval Studies. Western Michigan University. 1 May 1980.

54. "The Computer and the Records of Early English Drama" Medieval Academy of the Pacific Conference. Vancouver. 18 Feb. 1978.

55. "The Indexing of the Records of Early English Drama" 12th International Congress on Medieval Studies. Western Michigan University. 5-8 May 1977.

## 7. Invited Lectures

1. "Understanding an Author's intentions with Computer Text Analysis." Knowledge Media Design Institute's 2009 Lecture Series, Part II. University of Toronto. 14 Apr. 2009.
2. "How to Detect Early Signs of Dementia in Canonical Writers." GEA brown-bag lunch series. Jackman Humanities Building, Toronto. February 25, 2009.
3. "'Who Wrote this Text?': Using Scientific Methods to Analyze Literary Works. Canadian Perspectives Lecture Series, Senior Alumni Association. University of Toronto. 20 Apr. 2008
4. "Digital Pedagogy: Taming the Palantiri." MLA Forum on Professionalization in a Digital Age. Chicago. 28 Dec. 2007.
5. "*The Lexicons of Early Modern English* and Text Analysis." CASTA 2005 Symposium. Edmonton. 3 Oct. 2005.
6. "Law and Early Modern English Lexicons" HEL-LEX New Approaches to English Historical Lexis Conference. Helsinki. March 18, 2005.
7. "Lexicons of Early Modern English." VARIENG Centre of Excellence, University of Helsinki. 17 March 2005.
8. "Cybertextuality" Plenary Address. Digital Humanities Summer Institute. University of Victoria. June 25, 2004.
9. "Online Teaching: A Workshop." 2004 Associated Departments of English Summer Seminar Midwest. Iowa City, Iowa. 19 June 2004
10. "Editing Renaissance Electronic Texts." COSH/COSH: Canadian Society for Renaissance Studies Congress. Winnipeg, Manitoba. May 2004.
11. "Conversation: Transformation of Scholarship." Synergies Symposium. University of Calgary. 20 March 2003.
12. "Humanities." Synergies Symposium. University of Calgary. March 20, 2003.
13. "Science Fictions." Graduate Student Organization, Centre for Comparative Literature, University of Toronto. 6 Dec. 2002.
14. "LEME (The Lexicons of Early Modern English): Meeting Open Source Half-way." Research Innovation and Scholarship: The Role of Open Access Publishing. CARL (Canadian Association of Research Libraries) Ottawa. 22 Nov. 2002.
15. "Text Analysis and Research Innovation." Mind Technologies: Plenary Session COCH/COSH 2002 Meeting. Toronto. 27 May 2002.
16. "Copyright and Databases in the Humanities and Social Sciences." University of Toronto Faculty Association and Law Faculty Workshop. January 14, 2002.
17. "Editing *Representative Poetry On-line*." Council of Editors of Learned Journals. MLA Convention. New Orleans. 27 Dec. 2001.
18. "Where Angels now Tread: Publishing Humanities Research on the Web." Editorial Workshop. National

Research Council. Ottawa. 4 Nov. 2001.

19. "Dumb Significants' and Early Modern English Definition." (1) 26th Annual Meeting of the Shakespeare Association of America. Cleveland, Ohio. March 21, 1998. (2) University College Symposium on Literacy. 29 Jan. 1999.

20. "University of Toronto English Library (UTEL)." Research Libraries Group Symposium, The Electronic Library: Navigating the 21st Century. University of Toronto Library. May 23, 1997. (Summarized in "RLG Forum Highlights." RLIN Focus Issue 27. Aug. 1997. Web. <http://worldcat.org/arcviewer/1/OCC/2007/08/08/0000070503/viewer/file968.html> )

21. "Hypertext and Hypermedia Joyce Projects: An Open Workshop." North American James Joyce Symposium. Victoria College, University of Toronto. 13 June 1997.

22. "New Electronic Shakespeare Studies." Scarborough College Conf. on Computer Publication. 27 Sept. 1997.

23. "Futurist Fiction: Showing Us the Way?" World Affairs Conference. Upper Canada College, Toronto. 2 February 1997.

24. "Settler in Cyberspace: An English Studies AI." Orlando Project, University of Alberta. 16 Jan. January 1997.

25. "Hypertext" for a panel discussion on hypertext. Department of English, University of Alberta. 17 Jan. 1997.

26. "Early Books, RET Encoding Guidelines, and the Trouble with SGML." The Electric Scriptorium Research Network. Calgary Institute for the Humanities, University of Calgary. 10-11 Nov. 1995. Web. <<http://www.chass.utoronto.ca:8080/~ian/calgary.html>>

27. "Library Support for Textual Research in the Electronic Age." Collection Management and Development Interest Group Session, Canadian Library Association. Calgary. 15 June 1995.

28. "The Electronic Highway in Teaching and Research." Canadian Conference of Deans of Arts, Humanities, and Social Sciences. Toronto. 15 May 1995. Web. <<http://www.chass.utoronto.ca:8080/~ian/index.html>>

29. "An Electronic Edition of Representative Poetry: Design Issues and Programming Tools," CCH Lectures Series. University of Toronto. 2 Feb. 1995. Web. <<http://www.cch.epas.utoronto.ca:8080/cch/lectures.html>>

30. "Editing Online Renaissance Texts." Session 581: Practice and Ideal in Electronic Scholarly Editions. MLA Convention. San Diego. 29 Dec. 1994.

31. "The University of Toronto English Library." With Sian Meikle. ARL-AAUP Conference on Scholarly Publishing on the Electronic Networks. Washington, DC. 7 Nov. 1994.

32. Two lectures on *TACT* . Library School, University of California at Berkeley. February 1994.

33. "Corpus Linguistics in Canada." National Language Research Institute, Tokyo. 21 Jan. 1994.

34. "Toronto Projects: TACT and the English Renaissance Knowledge Base." College of Arts and Sciences, University of Tokyo. 19 Jan. 1994.



35. Introductory Remarks (as co-chair). Session 144: Reconfiguring the Discipline in an Electronic Age. MLA Convention, Toronto. December 1993 .
36. "Early English Bilingual Dictionary Database 1530-1659." With Dominique Estival. Centre for Computing in the Humanities Working Papers 4 (CCHWP4) Conference on Early Dictionary Databases. 8 Oct. 1993.
37. "A Textbase of Early Modern English Dictionaries 1499-1659," ACH/ALLC Conference. Georgetown University. 16-19 June 1993.
38. "A Cognitive View of Chaucer's Phrasal Repetends," Canadian Society of Medievalists at the Learned Societies. 3-4 June 1993.
39. "TACT and English Studies." Department of English, University of Victoria. 26 Feb. 1993.
40. "New Research Emergent from Technology: Reconfiguring the Disciplines" and "For the Structures that We Build: Innovative Research Trends in the Human Sciences." University of Alberta, November 27-8, 1992; University of Calgary. February 24, 1993; University of Victoria. 25 Feb. 1993. (Composite Report published 7 Nov. 1994.)
41. "Teaching Graduate Students Humanities Computing." Series. University of Calgary. February 23, 1993.
42. "The Public-Domain Shakespeare," Committee of Computers and Emerging Technologies. MLA Convention. New York. 27 Dec. 1992. Web. <<http://www.chass.utoronto.ca:8080/~ian/index.html>>
43. "Cognitive Stylistics," CCH Wednesday Evening Series. 20 Jan. 1993.
44. "The Early Modern English Renaissance Dictionaries Corpus," Renaissance '92: A Question of Documentation. University of Toronto. 20 Oct. 1992.
45. Presentation on *KanjiCard* CD-ROM. Canadian Heritage Information Network. Ottawa. 21 Jan. 1992.
46. "Librarians and Electronic Collections." Perspectives on Computer-Assisted Research: A Survey with Demonstrations. 45th Annual Conference of the American Theological Library Association. Trinity College and Toronto School of Theology, University of Toronto. 18 June 1991.
47. "Bilingual Dictionaries in an English Renaissance Knowledge Base," Symposium on Historical Dictionary Databases and Data Retrieval Requirements. Toronto. October 1991.
48. "The Toronto Renaissance Dictionaries." The Renaissance Knowledge Base. /ALLC Conference. Tempe, Arizona. 17-21 March 1991.
49. "Where is Humanities Computing Going?" Institutt for britiske og amerikanske studier and Institutt for lingvistik og filosofi, University of Oslo. 25 Feb. 1991.
50. "Working with TACT." Institutt for britiske og amerikanske studier and Institutt for lingvistik og filosofi, University of Oslo. 25 Feb. 1991.
51. "Computers in English Language Teaching." Engelska i bruk, Engelska Institutionen, Lund University, Sweden. 16 Feb. 1991.
52. "Textual Transformations: How Computers Help Us Analyze Texts." Engelska institutionen, Lund

University. 11 Feb. 1991

53. "Textual Transformations: How Computers Help Us Analyze Texts." Department of English, Stockholm University. 18 Feb. 1991.

54. "A Computer-aided Analysis of Chaucer's *Canterbury Tales*." Engelska institutionen, Lund University. 12 Feb. 1991.

55. "A Computer-aided Analysis of Chaucer's *Canterbury Tales*." Department of English, Stockholm University. 19 Feb. 1991.

56. "Expectation of Something Without a Name: Margaret Atwood's *The Handmaid's Tale*." Engelska institutionen, Lund University. 14 Feb. 1991,

57. "Expectation of Something Without a Name: Margaret Atwood's *The Handmaid's Tale*." Dept. of English, Stockholm University. 19 Feb. 1991.

58. Workshop on *MTAS* and *TACT*. Engelska institutionen, Lund University. 15 Feb. 1991.

59. Workshop on *MTAS* and *TACT*. Department of English, Stockholm University. 21 Feb. 1991.

60. "Working with *TACT*: An Interactive Text Analysis Program." North Eastern Association for Computing in the Humanities. IBM Building, New York. Dec. 1990.

61. "Chaucer-Shakespeare-Milton in *TACT*." 11th International Computer Archive of Modern English (ICAME) Conference. West Berlin. 10 June 1989.

62. "Computing Contextual Analysis: *The Handmaid's Tale*." Consortium for Computing in the Humanities and the Canadian Studies Association at the Learned Societies. Victoria, BC. 22 May 1990.

63. "Computing Contextual Analysis: *The Handmaid's Tale*." Department of English, University of Edinburgh. June 1990.

64. "Computing Textual Meaning." IBM Research Laboratory, Toronto. May 1990.

65. "Computer-based Instruction in the Humanities." University of Toronto Library Special Seminar. Massey College. 11 Nov. 1990.

66. "Centre for Computing in the Humanities." With Robert Smithson, IBM Canada Ltd. Reaching for Success: First National Conference on Business-Education Partnerships. The Conference Board of Canada. 17-18 Apr. 1990.

67. "Working with Texts." Foreign Language . IBM Academic Computing Conference. Anaheim. 22-24 June 1989.

68. "Teaching Renaissance English Texts and *TACT*." Renaissance Meeting 89. Istituto di Studi Rinascimentali, Ferrara, Italy. 25-29 May 1989.

69. "On Computing T. S. Eliot." T. S. Eliot (1888-1965): A Centenary Celebration. University of Toronto. 28 Sept. 1988.

70. "Back to the Future: Humanities Computing 1968-88." Concluding Keynote Address. Conference on Literary and Linguistic Computing. Jerusalem. June 1988.

71. "The Art and Science of Text Analysis." IBM Conference on Computing and the Humanities. University of Pennsylvania and Princeton University. 18-19 March 1988.
72. "Computational Techniques for the Study of Literature." Istituto di Linguistica Computazionale (Antonio Zampolli), CNR, University of Pisa. 14 Dec. 1987.
73. "The Centre for Computing in the Humanities." Istituto di Linguistica Computazionale (Antonio Zampolli), CNR, University of Pisa. 14 Dec. 1987.
74. "Computing in Humanities Disciplines." Department of English, Canterbury University, Christchurch, New Zealand. 5 Aug. 1987.
75. "Computer Criticism and the Poems of T. S. Eliot." Department of English, Graduate Seminar, University of Otago, Dunedin, New Zealand. 3 July 1987.
76. "Computer Applications in the Humanities." Department of Computer Science, University of Otago, Dunedin, New Zealand. 1 July 1987.
77. "The Computing of Literary Structures." Literature Discussion Group, University of Otago, Dunedin, New Zealand. 22 June 1987.
78. "Computing Literary Structures with BYUC." Humanities Computing Centre, McMaster University. 22 Jan. 1987.
79. "Computing Literary Structures: Information Theory and Text Analysis." Toronto Semiotic Circle. Toronto. 24 Jan. 1987.
80. "Graduate Courses in Humanities Computing at Toronto." Workshop on Teaching Computers and the Humanities Courses. Vassar College. July 31-Aug. 2 1987.
81. "Computer Systems for Literary Experts." ComputerFest. McMaster University. 16 June 1986.
82. "Literary Expert Systems." Fifth International Conference on Systems Documentation, Association for Computer Machinery. 11 June 1986.
83. "Microcomputers, Literature and Language." Microcomputer Encounters III. York University, Toronto. 19 Oct., 1985.
84. "The Toronto Centre for Computing in the Humanities." IBM CASE85. Montreal. 8 Oct. 1985.
85. "Computer Applications in the Humanities." University of Lethbridge, Alberta. 27 Sept. 1985.
86. "Micro Software Tools for Literary Analysis." Colloquium on the Computer Processing of Textual Data [CCPTD], Learned Societies. University of Montreal. 3 June 1985.
87. "Micros in Humanities' Departments." IBM Conference on Using Microcomputer Networks. University of Waterloo. 3 May 1985.
88. "Linguistics and Literary Analysis: Using a Remarkable Tool." Conference on Microcomputers in the Humanities and Social Sciences. York University, Toronto. 15 Apr. 1985.
89. "An Introduction to Humanistic Computing." Annual Slavic Workshop. University College, University of Toronto. 15 Apr. 1985.

90. "The Humanist's Operating System." Seminar for the New Oxford English Dictionary. University of Waterloo. 28 March 1985.
91. "Computers and Teaching in the Humanities." Teaching Workshops Series. Faculty of Arts and Science, University College, University of Toronto. 21 March 1985.
92. "Modest Software Tools for Humanists." Queen's University, Ontario. 29 Jan. 1985.
93. "Research in the Humanities at the University of Toronto." IBM CASE84 Conference on Cooperation in the Academic Environment. Niagara-on-the-Lake, Ontario. 17 Oct. 1984.
94. "Computer Text Analysis and Data Bases in Shakespeare Studies." Session 5, Shakespeare and the Computer. 12th Annual Meeting of the Shakespeare Association of America. Cambridge, MA. 21 Apr. 1984.
95. "Theatres and Masks in Roman Britain: the Physical Remains." REED Lecture Series. Victoria College, University of Toronto. 11 March 1983.
96. "Indexing British Dramatic Records." With Willard McCarty. Colloquium on Processing Medieval Texts. University of Montreal. 30 Apr. 1982.
97. "Patrons and the English Moral Play." Society for Research in English. University of London. 21 May 1980.
98. "Medieval Drama," 12th Annual Conference on Editorial Problems. Toronto. 6 Nov. 1976.

## **8. Selected Administrative and Research Positions: Completed**

Member, Authors' Panel, High Performance Computing Association, ca3.org. 2003-05.

Member, Renaissance English Text Society Council. 2002-07.

Chair, ITST (Image Text Sound Technology) Working Group, SSHRC/CRSH (Social Sciences and Humanities Research Council of Canada/Conseil de recherches en sciences humaines du Canada). June 2002-06.

Chair, Advisory Committee on Research Infrastructure, Humanities and Social Sciences Federation of Canada. 1999-2000.

Co-host (with Carol Percy and Charles Meyer), ICAME 95 (International Computer Archive of Modern English), New College, University of Toronto. May 23-28, 1995.

MLA Representative, Advisory Committee, Text Encoding Initiative. 1993-95.

Member, Committee on Computers and Emerging Technologies in Teaching and Research, Modern Language Association of America. 1990-93.

Co-Director (with Susan Hockey, Oxford University Computing Service), University of Oxford-University of Toronto Summer School in Humanities Computing. June 1989.

Local organizer for the first joint ACH/ALLC (Association for Computers and the Humanities, and

Association for Literary and Linguistic Computing) conference: University of Toronto. June 1989.

Member, Literary Texts and Textual Criticism Workgroups, Text Encoding Initiative. 1987-93.

President, Toronto Semiotic Circle, 1987-88; Vice-President. 1986-87.

Co-chair (with Russon Wooldridge, Department of French, University of Toronto), conference on Computers and the Humanities, sponsored by the Centre for Computing in the Humanities and the Toronto-Waterloo Cooperative on Information Technology. April 15-18, 1986.

Director, Centre for Computing in the Humanities, Faculty of Arts and Science. 1985-90, 1991-6.

Co-convenor, University of Toronto-IBM Humanities tour to California. November 1983.

Chair, Natural Language Processing Steering Committee. 1983-6.

Discipline Representative, English, Erindale College. 1981-84.

Chair, Toronto Renaissance and Reformation Colloquium. 1977-78.

Vice-Chair, Toronto Renaissance and Reformation Colloquium, 1976-77.

Book-review editor, *Renaissance and Reformation*. 1975-79.

Chair, Graduate English Association. 1967-68.

Dean of Hall, Massey College, University of Toronto. 1967-68.