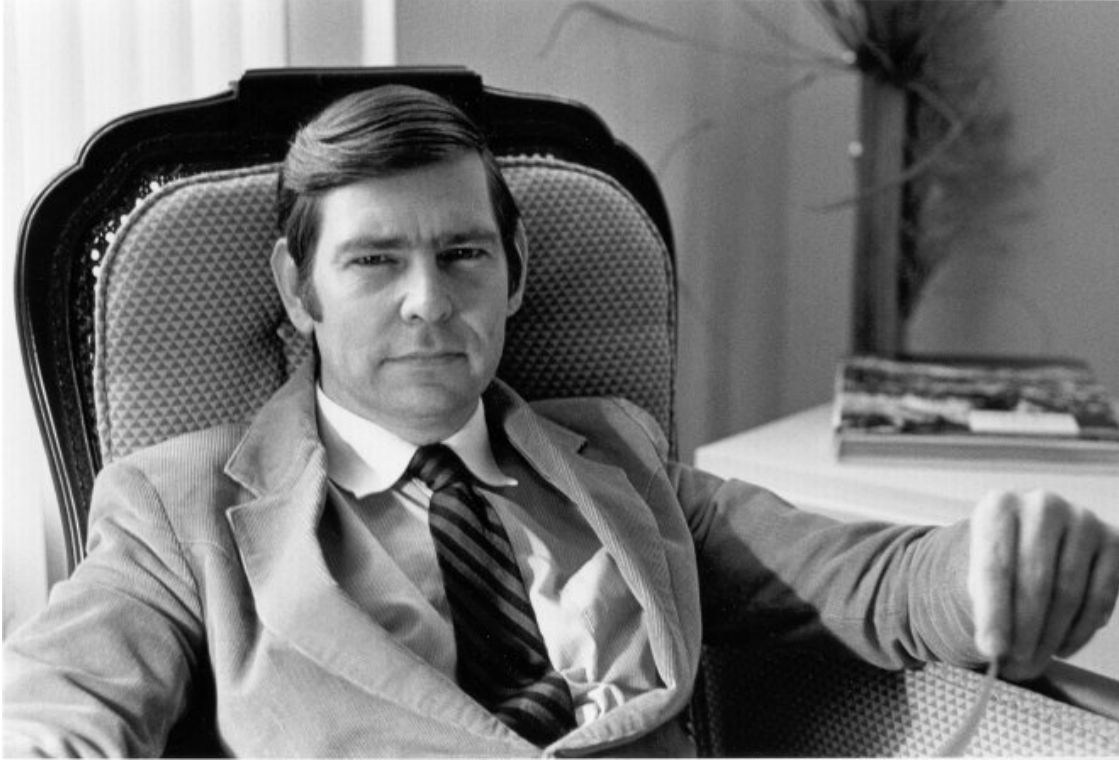


CURRICULUM VITAE 2008

Kim Henry Veltman



Male:

Born: Workum, Friesland, Netherlands (5 September 1948)
Citizenship: Canadian (1951)

Address

Education

Languages

Teaching

Research

Academic Awards

Professional Associations

Publications

Demonstrations

Lectures

Membership in Scientific Committees

Other Activities

ADDRESS

Home:
Europalaan 73
Maastricht 6226 CN
Netherlands
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EDUCATION

B. A., (Honours History), York University (Toronto), 1969

Teachers: Brayton Polka, Theodore Allen Heinrich

M. A., (Renaissance History), University of Toronto, 1970

Teachers: Stillman Drake, Natalie Z. Davis, Father Leonard Boyle, W. McAllister Johnson.

D. Phil., (History and Philosophy of Science), Warburg Institute, (London, England)

1975. Teachers: A.I. Sabra, Sir Ernst Gombrich, C.B. Schmitt, B.A.R. Carter, Alistair Crombie

LANGUAGES

Read, speak and write: English, French, German

Read, speak: Dutch, Italian

Read: Latin, Spanish, Portuguese, Arabic, Classical Greek, Frisian

Some knowledge: Danish, Swedish

TEACHING

1972

University of London, Warburg Institute:

Seminar with Dr. A. I. Sabra: Problems in Translation in Ptolemy's *Optics*.

1983-1984

Göttingen University:

"Lehrauftrag" on Leonardo da Vinci for two semesters.

1984-1992

University of Toronto:

1984-1986

Assistant Professor, Institute for the History and Philosophy of Science and Technology

Graduate seminars (Renaissance science), undergraduate lectures (Renaissance culture, Leonardo)

1986-1990

Canada Research Fellow: supervising graduate and fourth year students

1991-1992

Canada Research Fellow: two graduate courses on the history of perspective.

1991 (January-May)

Università degli studi, Siena, Facoltà di Lettere

Visiting Professor: undergraduate course: Storia della prospettiva (26 lectures in Italian).

1992 (15 April- 12 June)

Università degli studi, La Sapienza, Rome, Facoltà di Filosofia

Visiting Professor: upper level undergraduate and graduate course: Dalla prospettiva lineare alla prospettiva polivalente: teorie e ricerche degli ultimi vent'anni (12 lectures in Italian).

1992-1995

Three year appointment with Faculty of Education, University of Toronto to explore applications of technology in education, leading to two undergraduate

- courses: New media and new approaches to knowledge; Internet and new Knowledge.
- 1993 (18 May- 2 June)
 Università di Roma II, Tor Vergata,
 Visiting Professor: Lectures on perspective and new technologies in Italian.
- 1994-1996
 Consultant and Visiting Professor, Carleton University. One graduate half-year course.
- 1995-1998
 Associate Member, Graduate School, Faculty of Information Studies
- 1996-1998
 Advisor to the CEO of Bell MediaLinx on developments in new media and culture.
- 1998-2004
 Scientific Director, Maastricht McLuhan Institute
- Cortona, Seven Lectures, *Digital Systems for Publishing and Cultural Heritage Communications Course*, Cortona, 24-25 September 2001.
- Director of 4 Summer courses organized with Amsterdam Summer University (AMSU) bringing together professionals from memory institutions, especially museums.
- 2004-
 Scientific Director, Virtual Maastricht McLuhan Institute (VMMI)
- 2006-
 Doctoral students: Vasily Churanov, Moscow State University of Culture and Alexander Churanov, Smolensk State University.
- 2007
 Post Doctoral Student: Dr. Charles Robert (Nigeria) as 2 Month Visiting Scholar at VMMI. ("Stage").

RESEARCH

- 1971-1975
 Warburg Institute, University of London
 Doctorate on history of perspective
 Preliminary research for *Studies on Leonardo da Vinci*.
- 1975-1977
 Wellcome Institute for the History of Medicine
 Research for *Studies on Leonardo da Vinci*.
 Beginning of bibliography, *The Sources and Literature of Linear Perspective*, for 1st International Congress on perspective (Milan, 1977) with Professor Marisa Dalai-Emiliani.

1977-1984

Herzog August Bibliothek, Wolfenbüttel

Niedersächsische Staats-und Universitäts-Bibliothek, Göttingen

Completed: Vol. I *Linear Perspective and the Visual Dimensions of Science and Art*

Vol. II *Optics, Light and Shade.*

Vol. III *Theories of Vision, Optics and Astronomy.*

Began work: Vol. IV *Concordance to Vol I-III.*

Further work: *The Sources and Literature of Linear Perspective.*

1984-1986

University of Toronto, Institute for the History and Philosophy of Science and Technology

Further work on Leonardo and the bibliography on perspective.

Initial work on the history of the sector and proportional compass.

1986-1987

Getty Center for the History of Art and the Humanities, Santa Monica

Computer entry of 14,500 titles, C. Grundman (inputter), Dr. Richard Dolen (computer programmer).

Began writing *Sources of Perspective.*

1987-1992

University of Toronto, Institute for the History and Philosophy of Science and Technology

Work focussed on three long term projects each of which has a databank component: perspective, Leonardo da Vinci, universal measuring instruments

1988-89

Collaboration with Professor Martin Lamb on interactive computer graphics project.

1989-90

Completion of books: *The Sources of Perspective; Geometric Games.*

Work on computerized dictionary of standard terms of perspective.

1990-1991

Perspective Unit at the McLuhan Centre

Contract with G5 Cartotechnical as test site for applications to education of GIS.

Test site for: Tralaine Conversion software.

Autodesk products including AUTOCAD

Links with the Istituto di storia dell'arte Lombarda (Milan, Palazzo Reale)

Links with the planned Museum of Perspective at San Sepolcro.

Member of Board of Directors of McLuhan Program.

Member of Committee on the history of representation at Venice.

1991-1992

Trial Laser Disk from Rizzoli-Corriere della Sera.

Test site for: Freebase from CAT-Benelux, Superbase.

1992-1993

University of Toronto, McLuhan Program, Perspective Unit.

Continuation of grant from BSO

Links with Greenfields projects to create a System for Universal Media Searching (SUMS) as a first step towards a Knowledge Engine.

First steps to develop an Ubiquitous Museum (UM) with a consortium including Canadian Heritage Information Network (CHIN), Greenfield Projects, Pixel Productions and Worldlinx.

- 1993-1994
Continuation of grants from BSO and CHIN
Creation of a C++ version of SUMS
First applications of SUMS in classrooms and plans for museums (see document on SUMS users).
- 1994-1995
Test Site for: Matrix
Supervision of fourth year student from the Netherlands and a fifth year student from France.
- 1995-1996
Establishment of SUMS Corporation.
Pilot project with: York Mills Collegiate Institute, Bell Northern Research
- 1996-1997
Consultant to Bell MediaLinx re: cultural content
Use of an Onyx Reality Engine 2 from SGI and Bell
Canadian Host site for the ACTS DVP Project
Canadian Member of Trans European Networks (TEN) project on virtual museums (MOSAIC)
Supervision of a third year and a fourth year student from the Netherlands
Research project with: Bell Northern Research
Pilot projects with: York Mills Collegiate Institute, Brother Rice Secondary School, Schoolnet.
- 1997 Pilot Projects with Brother Rice Secondary School and three Elementary Schools
- 1998 Links with new Marshall McLuhan Secondary School
Develop new Maastricht McLuhan Institute
- 1998-1999
Establish new Maastricht McLuhan Institute
- 2000-2001
Write book on Augmented Knowledge and Culture to develop concepts of virtual reference room, dynamic knowledge and augmented culture
- 2002-2003
Co-ordinator of E-Culture Net as a thematic network (EU IST project) as preparatory for a Network of Centres of Excellence in Digital Cultural Heritage.
- 2003-2005
Further development of Perspective Bibliography, Leonardo Project, New Media and New Models of Culture at www.sumscorp.com
- 2004-2005
Beginning of collaboration with Frederic Andres (NII, Tokyo) leading to First Japan-Europe Meeting on Virtual Reality (Laval).
- 2005 Permanent Consultant to Scuola Normale Superiore, Pisa; Founding Member of new Institute of Perspective (Urbino).

- Continued work on New Models of Culture (30 lectures) and first draft of Stories of the Sky.
- 2006 Scientific Director, Virtual Maastricht McLuhan Institute (VMMI)
- March: Recorded 30 lectures on a New Models for World Culture at the the National Institute for Informatics (Tokyo). Ongoing collaboration with Professor Frédéric Andres with a view to using 30 lectures in experiments with 1000 schools and exploring use of topic maps for new search paradigms.
- 2007 Continued work on New Models for World Culture.
Begin Work on Book: Holy Grail and Holy Books
Diretor, Cultura Digital: Instituto Plano Cultural, Brasilia, San Paolo
<http://www.planocultural.org.br/>
- 2008 Continued work on New Models for World Culture
Preliminary Website reaches 30,000 terms:
<http://sumscorp.com/kawai/newmethods/>

ACADEMIC AWARDS, GRANTS, FELLOWSHIPS

- 1966-1970 York University Entrance Scholarship renewed for four years
1970-1971 Province of Ontario Grant
1971-1975 Canada Council Doctoral Fellowship
1972 Scholarship, Institut Bourghuiba, Tunis
1977 Scholarship, Centro Italiano di studi sull'alto Medioevo, Spoleto
1975-1977 Research Fellowship, Wellcome Trust
1977-1979 Research Fellowship, Volkswagen Foundation
1979-1981 Research Fellowship, Alexander von Humboldt and Thyssen Foundations
1982-1984 Research Fellowship, Gerda Henkel Foundation
1984-1989 General Research Grants, University of Toronto
1986-1987 Getty Scholar
1988-1990 Research Fellowship, Comunità Montana, Val Tiburina, San Sepolcro
1987-1992 Canada Research Fellowship
1996 International "Capire" Prize for a Creative Future, d) science and art integration

Travel Grants:

- | | | |
|-------------|---|-----------------------|
| 1992 | University of Toronto, Faculty of Education, to | London (CHArt |
| Conference) | " | Karlsruhe (Learntec) |
| 1993 | " | Hanover (Cebit) |
| 1994 | Carleton University, fortnightly trips | " Ottawa |
| 1995 | Canadian Cultural Centre, Paris, Conference) | " Paris (Alberti |
| " | Industry Canada | " Halifax (G7 Summit) |
| " | Canadian Hydrographic Service | " Ottawa |
| " | West Fund and Industry Canada | " Vienna (ACTS |
| Conference) | | |

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|-----------------------|--|---|--|
| 1996 Conference) | Heritage Canada and Industry Canada | " | Midrand (ISAD |
| 1997-1998 Angeles, | Bell MediaLinx | " | Santa Clara, Los Sydney, Kuala Lumpur, Brisbane, Gifu, Cairo, Manchester, Paris, Rome, Vienna, London, Amsterdam. |
| 1999 | Learning Partnership Award Université d'été de la Communication, Hourtin Le Tour Européen Multimedia des Initiatives Citoyennes Prix des Initiatives: Mention Spéciale Européenne | | |

PROFESSIONAL ASSOCIATIONS

PRESENT

International Institute of Communications (London)
 International Society for Knowledge Organization (Amsterdam)
 Internet Society (Reston)
 Member ISTF: Working group for Practical Application of Privacy and Security of Personal Information
 Wissenschaftliche Buchgesellschaft (Darmstadt)

PAST

ACM Toronto Siggraph (Toronto)
 Canadian Association for Distance Learning (Ottawa)
 Deutsche Gesellschaft für die Geschichte der Medizin, Naturwissenschaften u. Technik (Munich)
 Gesellschaft für Klassifikation (Aachen)
 Interactive Multimedia Arts and Technologies Association (Toronto)
 International Society for the Arts Sciences and Technology (Berkeley)
 Leonardo Society (London)
 Museum Computer Network (New York)
 Reformation and Renaissance Society (Toronto)
 Society for the Social History of Medicine (Oxford)
 Toronto Semiotic Circle (Toronto)
 Visual Information Group (Pittsburgh)
 Visual Resources Association (Harrisburg)
 Wolfenbütteler Kreis für Renaissance Forschung (Wolfenbüttel)

PUBLICATIONS

Books

Leonardo da Vinci Studies I: Linear Perspective and the Visual Dimensions of Science and Art, Munich: Deutscher Kunstverlag, 1986.

Leonardo's Method, Brescia: Centro Ricerche Leonardiane, 1993.

Frontiers in Conceptual Navigation for Cultural Heritage, Toronto: Ontario Library Association, 1999.

Understanding New Media: Augmented Knowledge and Culture, University of Calgary Press, 2006, (689 pp.). Also CD-ROM version published by Alexander and Vasily Churanov (Smolensk).

Cf. http://www.amazon.com/Understanding-New-Media-Augmented-Knowledge/dp/1552381544/ref=sr_1_15?ie=UTF8&s=books&qid=1217009464&sr=8-15
<http://www.uoc.edu/uocpapers/5/dt/esp/veltman.html>

Finished and Awaiting Funds for Publication

Leonardo da Vinci Studies: Vol. II. Optics (c. 600 p.)

Vol. III. Vision and Astronomy (c.600 p.)

Geometric Games. A Brief History of the not so Regular Solids (90p).

The Sources and Literature of Linear Perspective (4 volumes):

Vol. 1. Sources of Perspective (c.600p.)

Vol. 2 Bibliography of the Sources of Perspective (8000 titles and indexes) (c.1000 p.)

Vol. 3 The Literature on Perspective (c. 600 p.)

Vol. 4 Bibliography of the Literature on Perspective (7000 titles and indexes) (c.1000 p.)

<http://www.sumscorp.com> under Perspective under Demo.

Planned

The Mastery of Quantity (1400-1700)

The Complete Works of Leonardo da Vinci

Sections in Books

(Please note that a number of the articles listed below are available on the author's web sites at <http://www.mmi.unimaas.nl> and <http://www.sumscorp.com>.

1. "Four Ways that Digital Communications are Transforming Scholarship. Sources, Names, Claims and Scope", *Perspectives in Knowledge Management*. Ed. Prof. I V Malhan and Shivarama Rao, Lanham, MD.: Scarecrow Press, ,2008, pp. 129-154. (ISBN-13:978-0-8108-6104-6).

2. "Linee, nodi e draghi: l'astronomia come chiave per una mitologia interculturale", *La Mente, il corpo, e i loro enigmi. Saggi di Filosofia*, Rome: Stamen, 2007, pp. 145-170. .

3. "Scenari di frontiera del Digitale" and "Astronomy, Aesculapius, and Long Term Preservation," *Internazionale sul tema", Conservare il digitale. Un confronto internazionale*, Asolo, 29 September 2006 Asolo: Tipografia Battagin, 2007, pp. 11-13, 175-180.

4. "The New Book of Nature", *eARCOM 07. Sistemi informativi per l'Architettura Convegno Internazionale*, Con il Patrocinio di UNESCO. Ministero dei Beni Culturali, CIPA, Regione Marche, Ancona-Portonovo Hotel La Fonte, 17-18-19 Maggio 2007, Ancona: Alinea Editrice, 2007, pp. 659-669.

5. "Culture, Creativity and the Internet", *Prospective de l'Internet - Foresight of the Internet: Digital networks as structuring tools for the Knowledge Regions, Actes du*

colloque, Marie-Anne Delahaut. Ed. Préface de Viviane Reding, Postface de Markus Kummer, Namur: Institut Destrée, 2005, pp. 365-394. A version also given as a keynote at the conference: *Continuity and Change*, Die Schmiede, Hallein, 11 June 2005. Cf. www.sumscorp.com under New Media.

6. "Cultural and Historical Meta-data: MEMECS (Metadonnées et Mémoire Collective Systématique)," *WWW9*, Amsterdam, 2000, in: *Digital Heritage. Cultural Heritage and Information Communication Technology in conjunction with 9th International Conference on WWW*, Milan: Deleyva Editore, 2004, pp. 137-150. Also published electronically as: "Cultural and Historical Metadata, MEMECS (Metadonnées et Mémoire Collective Systématique)," *Cultivate Interactive*, Issue 1, July 2000. See: <http://www.cultivate-int.org/issue1/memecs/>

7. "Accès dynamique à la connaissance," *Europe, Diversité culturelle, et mondialisations*, (Conference: Université de la Mondialisation, Paris, Parc de la Villette, 4 June 2003), Paris: Harmattan, 2005, pp. 75-80.

8. "Retos para las aplicaciones de TIC/TCU en el Patrimonio Cultural," Cartagena: Ayuntamiento. Concejalía de Cultura 3000 Informaticá, 2005, pp. 13-51.

Online at: <http://www.uoc.edu/digithum/dt/cat/veltman.html>

Initially published as journal article:

Debate e investigacion: Deasfios de la aplicacion de las TIC al patrimonio cultural," *Boletin PH 46, Instituto Andaluz del Patrimonio Historico*, Seville, December 2003, pp.26-41. Online:

<http://www.juntadeandalucia.es/cultura/iaph/publicaciones/dossiers/dossier16/dossier16art1.html>. Also published as conference proceeding in English under title, "Forecast of

Application of IT in cultural heritage in the next decade," *JRES 2003, 5emes Journées Réseaux, Lille, Novembre 2003*, Lille, pp. 13-37. Also as CD-ROM. Reprint in French: "Les défis aux applications des technologies de l'information et de la Communication dans le patrimoine pour les prochaines décennies."

9. "Access, Claims and Quality on the Internet", Keynote at: *Open Culture, Accessing and Sharing Knowledge. Scholarly Production in the Digital Age*, Università di Milano, Milan, 27-29 June 2005, pp. 7. <http://www.aepic.it/conf/viewpaper.php?id=99&cf=3>

10. "Mondi reali e mondi virtuali, sistemi SUMS e G7" and "La prospettiva alle origini della realtà virtuale," Publication of Lecture Series, Reggio Calabria, 1998, Published in: *Architettura &*, ed. Marcello Sestito, Reggio Calabria: Jason Editrice, 2004, pp.85-98.

11. "Kultur und Wissen im digitaler Zeitalter," *Das Gesicht der Welt. Medien in der digitalen Kultur*, Munich: Wilhelm Fink Verlag, 2004, pp. 13-29.

12. "Edutainment, Technotainment e cultura," *Cultura in Gioco. Le nuove frontiere di musei, didattica e industria culturale nell'era dell'interattività*, Florence: Giunti, 2004, pp. 165-205.

13. "E-Culture, Art History and Museum Studies," *Changing the way research is done. The user perspective on e-infrastructure*. Brussels: European Commission, December 2003, pp. 66-67. Available on-line at: <ftp://ftp.cordis.lu/pub/ist/docs/rn/veltman.pdf>

14. "Challenges and Potentials for Sharing between the Network of Excellence For Research and Education on Digital Silk Roads (NERE/DSR) and E-Culture Net," *Second UNESCO Digital Silk Roads Conference*, Nara, 10-12 December 2003, Tokyo: NII, 2004, pp. 37-48.
15. "Towards New Cultural Histories in a Networked World," *EVA Moscow*, Tretyakov Gallery, Moscow, 1-5 December 2003, Moscow: Centre PIC, 2003, pp. 66-75. Also a Russian version.
16. "Paradoxes of Perspective: Ideal and Real Cities," *Convegno internazionale. Imago urbis. Images des Villes. Towns Images*. Commission Internationale pour l'Histoire des Villes," Bologna, 2002, Roma: Viella Libreria Editrice, 2003, pp. 89-100.
17. "E-Culture Net: European Network of Centres of Excellence for Research and Education in Digital Culture," *EVA Moscow*, Moscow: Centre PIC of Ministry of Culture of Russia, December 2002, pp. 24-28.
18. "European Networks of Excellence and Japanese/UNESCO Silk Roads," *Tokyo Symposium for Digital Silk Roads, UNESCO, National Institute of Informatics, National Center of Sciences, Tokyo, 11-13 December, 2001*, Tokyo: National Institute for Informatics, 2002. pp. 135-145.
19. "Trends and perspective: the new technologies," *European Museum Forum*, Palazzo Reale di Pisa, 2001, Quaderni. Cultura Europea e Musei, Pontedera: Fondazione Piaggio, Nuova Serie, no. 1, 2002, pp. 144-157. With an Italian translation: "Tendenze e prospettive: le nuove tecnologie."
20. "Challenges for a Semantic Web," *Semantic Web Workshop 2002. Proceedings of the International Workshop on the Semantic Web 2002 (at the Eleventh International World Wide Web Conference)*, Hawaii, May 7, 2002, Honolulu, Hawaii, pp. 16-22. Position paper also published electronically at: <http://semanticweb2002.aifb.uni-karlsruhe.de/proceedings/Position/veltmann.pdf>. Reprinted in Cultivate Interactive, Issue 7, June 2002 (<http://www.cultivate-int.org/issue7/semanticweb/>).
21. "European Networks of Excellence and Global Digital Culture," *EVA-Beijing*, Abstracts, Tsinghua University, Beijing, April 2002, pp. 72-75.
22. "Syntactic and Semantic Interoperability, New Approaches to Knowledge and the Semantic Web," *New Review of Information Networking*, Cambridge: Taylor Graham, Volume 7, 2001, pp. 159-183.
23. "A (European) Network of Centres of Excellence for Augmented Digital Culture," *CULTH2: Die Zukunft des Digitalen Kulturellen Erbes, The Future of Digitized Cultural Heritage*, Vienna: MUMOK, Museum Moderner Kunst Stiftung Ludwig Wien, 2002, pp. 43-47.

24. "Developments and Challenges in Digital Culture," *Proceedings of the Moscow EVA Conference*, Moscow: Russian Ministry of Culture, 2001, pp. 33-39. Separate publication of same in Russian: *EVA 2001 Moskva*, pp. 1-4-1 to 1-4-4.
25. "La crescita nel settore dei musei virtuali," *Museo Contro Museo. Le strategie, gli strumenti, i risultati*, [Civiltà Annual Report 2001], Florence: Giunti, 2001, pp. 260-296.
26. "Les répercussions des nouveaux médias," *L'avenir des musées*, Paris: Editions de la Réunion des Musées Nationaux, Musée du Louvre, 2001, pp. 383-395.
27. "Abstract: Città ideale e città reale: I paradossi della prospettiva," *Imago urbis. L'immagine della città nella storia d'Italia*, Bologna, 5 September 2001, Bologna: Università di Bologna, pp. 20-21, (+CD ROM).
28. "Abstract: The Need for a Cultural Grid," *Nederlands ICT-Kenniscongres <2001>*, 6 en 7 September 2001, Nederlands Congres Centrum, Den Haag, p. 39.
www.ict-kenniscongres.nl
29. "Scientific Visualization and Virtual Worlds, Augmented and Mixed Reality," *International Conference on Augmented Virtual Environments and Three-Dimensional Imaging (EUROIMAGE ICAV3D 2001)*, Mykonos, 2001 Thessaloniki: Publishing ZITI, p. 252. Cf. <http://www.iti.gr/ICAV3D/>.
30. "History of Art About and By Means of Computers," *ARCO 2001 Conference, Arco Noticias 20*, Madrid, 2001, pp. 56-61.
31. "New Media and Transformations in Knowledge," based on an opening keynote: "Metadata und die Transformation des Wissens," *Euphorie Digital? Aspekte der Wissensvermittlung in Kunst, Kultur und Technologie*, Heinz Nixdorf Museums Forum, Paderborn, September 1998, Paderborn: Rheinisches Archiv und Museumsberatung und Heinz Nixdorf Museum, 2001, pp. 35-62.
32. "Museum im Internet- eine Neue Bildungschance Neue Herausforderungen an die Museen," *ICOM: Internationales Symposium Lindau, Das Museum als Global Village*, Frankfurt am Main: Peter Lang, 2001, pp. 63-75.
33. "A Proposal Concerning the Reorganization of Knowledge," *Information: Management, Sources and Other Studies: Essays in honour of Professor K. Navlani*, ed. Ashu Shokeen, I. V. Malhan, T. D. Tilwani, M. P. Satija, New Delhi: Ess Ess Publications, 2001, vol. II, pp. 12-35.
34. "The New Sphere of Knowledge, A Proposal for a Monastery of the 21st Century," *d'Land e-culture*, Luxembourg, 47 Jahrgang, 8 September 2000, p. 7. Originally published on the Internet in 1997. (<http://www.give.at/give/monastery21.html>).
35. "Mesure, quantification et science", *L'époque de la Renaissance. Tome IV Crises et essors nouveaux*, Amsterdam: John Benjamins, 2000, pp. 401-415.

36. "European Network of Centres of Excellence in Digital Cultural Heritage and ICT," *EVA '99 Moscow, Proceedings. New Information Technologies in the Cultural Area in the New Millennium*, Moscow: Centre PIC, 1999, pp. 10~3~1-3.
37. "Conceptual Navigation in Multimedia Knowledge Spaces," *TKE-1999, 5th International Congress and Workshops on Terminology and Knowledge Engineering*, Vienna: TermNet, 1999, pp. 1-27.
38. "Digital Reference Rooms: Access to Historical and Cultural Dimensions of Knowledge," *INET '99 Conference, San Jose*, 1999, 22 pp. (CD-ROM and Internet)
39. "Towards a Global Vision of Meta-data: A Digital Reference Room," *Proceedings of the 2nd International Conference. Cultural Heritage Networks Hypermedia*, Milan: Politecnico di Milano, 1999, pp. 199-209.
40. "World Access to Cultural Heritage: An Integrating Strategy", *Acts of Congress: Beni Culturali. Reti Multimedialità*, Milan: Politecnico di Milano, 1999, pp. 69-80.
41. "Frontiers in Conceptual Navigation," *Herausforderungen an die Wissensorganisation: Viualisierung, multimediale Dokumente, Internetstrukturen*, 5. *Tagung der Deutschen Sektion der Internationalen Gesellschaft für Wissensorganisation, Berlin, October 1997*, Hrsg. H. Czap, H. P. Ohly, S. Pribbenow, Würzburg: Ergon Verlag, 1998, pp. 129-139. The proceedings contain an abstract which appears in its full form in *Knowledge Organization*, vol. 24, no. 4, 1997, pp. 225-245.
42. "Computers and the Importance of Culture," *Informatik Forum*, Vienna, Bd. 12, Nr. 2, August 1998, pp. 76-82. Based on a lecture at the 28th *Annual Conference: International Institute of Communications*, October 1997, in Sydney.
43. "New Roles for Education through the Internet", *INET '97 Conference, Kuala Lumpur*, 1997, (on CD-ROM and at http://www.isoc.org/inet/proceedings/D3/D3_2.HTM).
44. "What Must be Done to realise the Scenarios?," *Multimedia Access to Europe's Cultural Heritage. Bridging the Gap between Museums and Industry, Scenarios for Market Development*, Brussels: ACTS Central Office, 1997, pp. 67-77.
45. "Piero della Francesca and the Two Methods of Renaissance Perspective", *Convegno internazionale: Piero della Francesca 500 anni, 1492-1992*, Urbino, Arezzo, Sansepolcro, October 1992, 1996, pp. 407-419.
46. "Why Computers are Transforming the Meaning of Education," *ED-Media and ED-Telecomm Conference*, Calgary, June 1997, ed. Tomasz Müldner, Thomas C. Reeves, Charlottesville: Association for the Advancement of Computing in Education, 1997, vol. II, pp. 1058-1076.
47. "Panel: Prometheus Unbound Again: More Questions than Answers", *Citizens of the Electronic Village*, Couchiching Institute on Public Affairs, 1996 Conference Proceedings, 1996, pp. 23-28.

48. "Elektronische Medien, Die Wiedergeburt der Perspektive und die Fragmentierung der Perspektive": *Illusion und Simulation*, ed. Stefan Iglhaut, Florian Rötzer, Elisabeth Schweeger, Munich: Cantz Verlag, 1995, pp. 26-48.
English Translation:
49. "Electronic Media, The Rebirth of Perspective and the Fragmentation of Illusion": *Electronic Culture: Technology and Visual Representation*, ed. Timothy Druckrey, New York: Aperture, 1996, pp. 208-227.
50. "New Media and Copyright from an International Viewpoint", *Protecting and Exploiting Copyright in Multimedia, New Problems...New Solutions*, Toronto: The Canadian Institute, 1995, section II, pp. 1-10.
51. "A Databank on Perspective: The Concept of Knowledge Packages", *Metodologia della ricerca: orientamenti attuali. Congresso internazionale in onore di Eugenio Battisti*, Milan, 1991, *Arte Lombarda*, Milan, 1994, vol. 106-107, n. 3-4, parte secunda, pp. 166-170.
52. "Knowledge package construction and conceptual navigation using a System for Universal Media Searching", *Writers at work: professional writing in the computerized environment*, ed. Thea van der Geest, Mike Sharples, Heidelberg: Springer Verlag, 1996, pp. 207-215. Publication linked with: *Writing conferences, European Association for research on learning and instruction. Special interest group writing and 7th European conference on writing and computers, Utrecht, October 19-21, 21, 1994, Abstracts*, Utrecht, p. 181.
53. "How the Information Highway can Transform Education. Reflections on McLuhan's Vision", *Multicomm '94, Program and Proceedings*, Vancouver: University of British Columbia Continuing Studies, 1994, pp. 221-247.
54. "New Media and New Knowledge", *Proceedings of the Third Canadian Conference on Foundations and Applications of General Science Theory: Universal Knowledge Tools and their Applications*, Ryerson, 5-8 June 1993, Toronto: Ryerson Polytechnic University, 1993, pp. 347-358.
55. "The Electronic Highway and Education: New Doors to keep Open", *Learntec 93, Europäischer Kongress für Bildungstechnologie und betriebliche Bildung, Tagungsband*, ed. Uwe Beck, Winfried Sommer, Berlin: Springer Verlag, pp. 423-434.
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Turin, “From Recorded Worlds to Recording Worlds”, *Panel at Re-Opening of Palazzo Reale*, Palazzo Reale, 27 March 2007

Rome, “Creazione e Alfabetà. Bisogno di un nuovo lessico universale,” Rome, Università, La Sapienza, 26 March 2007.

Farfa, "Il Monastero Elettronico," *International Conference 'The Rhythms of the Sacred: time of the monk, time of the tourist on the global scene'*, Abbazia di Farfa, Farfa, 24 March, 2007. <http://www.abbaziadifarfa.it/ritmi/>

Brasilia, "The First and Future Webs," *First International Workshop on Information Science*, University of Brasilia, Brasilia, 4-6 December, 2006, Brasilia.

Eindhoven, "The Lion, the Unicorn and Mother Earth," *International Festival University*, Van Abbe Museum, Eindhoven, 1 November 2006.

Urbino, "Perspective, Space, Time, Line and Number," *Convegno Internazionale di Studi "Urbino e la prospettiva"*, Urbino, 9-11 October 2006, Urbino.
<http://urbinoelaprospettiva.uniurb.it/arte.htm>

Naples, "The Lion and the Unicorn," *Convegno internazionale: Il Castello Svelato*, Direzione Regionale per i Beni culturali e paesaggistici della Campania e Istituto di Cibernetica E.Caianello of C.N.R., Castel del Ovo, Naples, 2 October, 2006, Naples.

Asolo, "Astronomy, Aesculapius, and Long Term Preservation," *Internazionale sul tema", Conservare il digitale. Un confronto internazionale*, Asolo, 29 September 2006.

Naples, Opening Keynote: "Mediae novae fontesque novi. De Luna, Mithra, et Proserpina Quodlibetica," *Servizi e Contenuti Digitali. Gli Elementi Base della Societa della Conoscenza*, Napoli 26 Giugno 2006.

Rieti, "Stories of the Sky: World Trees and Heavenly Waters as Bridges between Cultures," *Convegno internazionale di filosofia: Mente, corpo, realtà*, 18 May, 2006.
<http://www.convegnodifilosofia.com/>

Tokyo, *New Models of World Culture (30 Lectures)*, National Institute of Informatics Tokyo, March 2006.

Tokyo, *New Media and the Challenges of Knowledge Organization*, National Institute of Informatics Tokyo, March 2006.

Moscow, "Truth versus Meaning in the Semantic Web," Russian State Library, 6 December 2005.

Moscow, "The World Tree, Alpha and Omega: Towards a New Model for World Culture," EVA Moscow 2005, 2 December, 2005. 1 hour version.

Moscow, "The World Tree, Alpha and Omega: Towards a New Model for World Culture," University of Culture, Moscow, 30 November 2005. 2 hour version.

Moscow, "New Media, New Models of Culture and E-Culture Net," EVA Moscow 2005, 27 November 2005

Helsinki, "Classification and the Semantic Web," 15 November 2005.

Tallinn, "The World Tree, Alpha and Omega: Towards a New Model for World Culture," 14 November, 2005. Three hour version.

Urbino, "A Collaborative Bibliography on Perspective" and Keynote: "L'uovo di Piero e l'uovo dell' mondo," Lecture at the Inauguration of a new Institute of Perspective, 26 October 2005.

Milan, Closing Keynote: "Access, Claims and Quality on the Internet": *Open Culture, Accessing and Sharing Knowledge. Scholarly Production in the Digital Age*, Università di Milano, Milan, 29 June 2005.

Hallein, Opening Keynote: "Digital Culture and Creativity," *Die Schmiede*, Hallein, 11 June 2005.

Vinci, Opening Keynote: "Ottica ed astronomia di Leonardo", *Leonardo e l'ottica a Vinci. Giornata internazionale di studi in occasione della inaugurazione di ottica del Museo Leonardiano*, Museo di Vinci, Vinci, 4 June 2005.

Pisa, "SUMS e nuovi vie alla conoscenza in rete" and Tavola rotunda: Digital Libraries e archive multimediali, *Progettare su web. Digital Libraries di parole e immagini (centri di ricerca e grandi biblioteche)*, Scuola Normale Superiore di Pisa, 27 May 2005.

Tallinn, Opening Keynote: "Challenges of Digital Culture", *Managing Heritage Collections II, Continuity and Change*, Estonian Ministry of Culture and MINERVA Plus, Tallinn, 4 May 2005. <http://conference.kul.ee/est/>

Laval, General Co-Chair, *1st Forum on the Promotion of European and Japanese Culture and Traditions in Cyber-Societies and Virtual Reality*, April 18th-19th 2005, Laval, France.

Moscow, "International Trends in Cultural Repositories," *EVA Moscow 2004*, Tretyakov Gallery, Moscow, 29 November 2004.

Calgary, "Keynote: New Ways of Scholarly Work in a Networked World," *Image, Text, Sound and Technology: A strategic research support program*, University of Calgary, 13-15 October 2004.

Amsterdam, "The Tree of Life, the Palm Tree and Gothic Architecture. Preliminary Thoughts on a New Approach to World Culture by the new European University of Culture, 20 minute *Television Interview-Lecture* with Omroep Amsterdam, 4 August 2004.

Segovia, "Keynote: New Roles for Education through the Internet," + 1 Hour Seminar with Professor Bustamente, *LI Annual Confernece of International Schools Association, (ISA)*, Universidad SEK, Campus of Santa Cruz la Real, Segovia, 10 July 2004. See: http://www.isaschools.org/archives_0015.htm

Santiago, "Keynote: E-Culture Net and Potentials of Global Networks." *IV Encuentro Internacional de Ciencia, Cultura y Educacion Sobre la Red Mundial de Investigacion y Desarrollo* Santiago, 17-20 May 2004.

Brussels, Participant: "Research Infrastructures. FP 7 Consultation Workshop." European Commission, Directorate General Information Society, Brussels, 10 -11 May, 2004.

See: http://www.cordis.lu/ist/directorate_f/f_ws3.htm

Brussels, Participant: "Knowledge Anywhere Anytime. FP 7 Consultation Workshop." European Commission, Directorate General Information Society, Brussels, 29 -30 April, 2004.

http://europa.eu.int/information_society/topics/ework/information/eventspages/knowledgeanywhere29april/contributions/index_en.htm

Coburg, "Keynote: Städte und Lokale Kultur in Rahmen einer Globalen Kultur-Vernetzung," *ERDE Meeting*, 17 March 2004. See:

<http://www.dorfwiki.org/wiki.cgi?ERDE/CoburgMeeting>

Berlin, "Mont Meru. Ingredients for a new History of Culture," Theater am Hebbel, Berlin, 20 January, 2004.

Nara, "Challenges and Potentials for Sharing between the Network of Excellence For Research and Education on Digital Silk Roads (NERE/DSR) and E-Culture Net," *Second UNESCO Digital Silk Roads Conference*, Nara, 10-12 December 2003.

Moscow, "Towards New Cultural Histories in a Networked World," *EVA Moscow*, Tretyakov Gallery, Moscow, 1 December 2003.

Lille, Opening Keynote: "Les défis pour la culture digitale en ligne," *JRES2003, 5eme Journées Réseaux*, Grand Palais, Lille, 18 November 2003.

Cheltenham, "Europe's Cultural Heritage in the Digital Age," Closing Plenary: *Digital Resources in the Humanities (DRH) Conference, 2003, University of Gloucestershire, Cheltenham Campus*, 3 September 2003.

Paris, "Panel: Enjeux internationaux Défis de la diversité culturelle: Contemporary Global Issues in Cultural Diversity," *Diversité culturelle, mondialisations et globalization, Université de la Mondialisation*, Paris, Parc de la Villette, 4 June 2003.

Budapest, "Panel: On Culture in a Worldwide Information Society," *World Wide Web Conference, 2003*, Budapest, 22 May 2003.

Zagreb, "Opening Keynote: The Need for a Grid for Culture," *TERENA Networking Ocnference 2003 and CARNet Users Conference 2003, User Opportunities/ Network Challenges*, 19 May 2003.

Erfurt, "Datenbanken, Wissensorganisation und Visualisierungsprozessen," *Lehrstuhl 'Vergleichende Literaturwissenschaft mit dem Schwerpunkten Kultur- und Medientheorie, Mediengeschichte,' Universität Erfurt*, 12 May 2003.

Donostia-San Sebastian, "Opening Keynote: Historical Heritage and Future Creativity," *First International Workshop on ICTs, Arts and Cultural Heritage with Special Emphasis on Applications, Local Development and Local Learning*, 5 May 2003.

Madrid, Chair of two panels: "Being There and Here: Developments in Interactive Media," *ARCO 2003*, 15 February 2003.

Luxembourg, "Roadmaps for Research and Research Topics in Digital Culture," *Mapping the Future*, European Commission, DG INFSO, Directorate E, 28 January 2003.

Montpellier, "The Need for a Grid for Culture," *SERENATE Conference*, IBM Laboratories, 17 January 2003.

Moscow, "E-Culture Net: European Network of Centres of Excellence for Research and Education in Digital Culture. First steps towards a vision," *EVA Moscow*, Tretyakov Museum, 2 December 2002.

Innsbruck, "Keynote: Standardization, Localization and New Potentials for Education," *Conference: Pedagogical Models: Creativity and Standardization – a contradiction?*, 30 November 2002. Plus seminar in developments on: "E-culture and e-learning."

Feltre, "E-Culture, European Masters and European Doctorates in E-Culture," *UNESCO meeting*, 12 November 2002.

Mont Tremblant City, "Closing Keynote: Les défis et les exigences de la culture pour les nouvelles technologies: Réflexions sur la cyberculture," *ASTED 2002*, 9 November 2002.

The Hague, "Envisioning our Digital Future," *School for Scanning (SfS) organized by NEDCC*, Koninklijke Bibliotheek, 16 October 2002.

Catania, "Lo stato della arte e l'evoluzione delle tecnologie multimediali per la comunicazione del patrimonio culturale," *Master (Recupero e valorizzazione dei BBCC) della Scuola Superiore di Catania*, 23 September, 2002.

Barcelona, "Keynote: Cross Cultural Problems of Europe in a Global Context," European Association of Directory and Database Publishers (*EADP*), Rey Juan Carlos Hotel, 19 September, 2002.

Aranguez, "Los Retos del Arte Digital," *Experimentaciones y Emergencias en las Artes Visuales, su Producción y Distribución* (*Experiments and Emerging Visual Arts, its production and distribution*), Casa del Gobernador, 1 August 2002.

Maastricht, "Keynote: Virtual Museums: From Buildings to Environments," *Amsterdam Maastricht Summer University*, Maastricht McLuhan Institute, 11-14 July, 2002.

Paris, "Internet Domain Names and Classification Systems: Combining Past Experience with the Future," *The First Annual European Internet Domain Name Summit*, Chambre de Commerce et d'Industrie de Paris, 2 rue de Viarmes, Paris 1er, 4 July 2002.

Paderborn, "Wissen und Kultur im digitalen Zeitalter," Zu Beginn der neuen Reihe *Understanding New Media. Die Rolle der Medien in Gesellschaft und Kultur*, Heinz Nixdorf MuseumsForum, 5 June 2002.

Madrid, "Opening Keynote: Challenges of Virtual and Digital Culture"; Chair: Round Table on Euro E-CultureNet, *Culturtec 2002*, 23-25 May 2002.

Beijing, "Frontiers in Digital Culture: Reflections on McLuhan," Beijing Institute of Technology, 19 April 2002.

Beijing, "Frontiers in Digital Culture: Reflections on McLuhan," Tsinghua University, 16 April 2002.

Beijing, "European Networks of Excellence and Global Digital Culture," *EVA 2002 Beijing. Electronic Imaging & the Visual Arts*, 12-14 April, 2002.
<http://www.eurochina2002.com/bandeau3.htm>

Falun, "Keynote: Frontiers in Digital Interpretation," and "Visions of Networked Culture," *Digital Interpretation: To See the Unseen History*, 7-9 April 2002.

Rotterdam, Chair: Tafelgesprekken: Ontsluiting, *Expert meeting copyright en digitale cultuur*, V2, Rotterdam, 13 March 2002. www.virtueelplatform.nl

Luxembourg, Participant: "E-Content in the Next Five Years", European Commission, 31 January 2001.

Vienna, "Keynote: Augmented Digital Culture and ITS-Network of Centres of Excellence in Europe," *CultH-2 The Future of Digitized Cultural Heritage*, MuseumsQuartier Wien, Museum of Modern Art, Foundation Ludwig, 15 January 2002.

Tokyo, "European Networks of Excellence and Japanese Silk Roads," *Tokyo Symposium for Digital Silk Roads*, UNESCO, National Institute of Informatics, National Center of Sciences, Tokyo, 13 December, 2001. Variant given at the Hitachi Laboratory of Dr. Kamiuchi, Yokohama, 14 December 2001.

Brussels, "Die Möglichkeiten einer neuer Vernetzung der Kultur," *Jahrestagung ICOM-Deutschland 2001*, Koninklijke Armeemuseum, 8 December, 2001.

Vienna, "Keynote: Medien, Sprachen und Integration von Kommunikationsprozessen," *Vielsprachigkeit. Transnationalität, Kulturwissenschaften, Research Institute for*

Austrian and International Literature and Cultural Studies (INST), 7 December 2001.
<http://www.inst.at/termine/saverne.htm>

Moscow, "Cultural Networks: Europe and the World," *EVA Moscow 2001*,
3 December 2001.

Utrecht, "Dutch Networks of Excellence and The European Research Area," *OGC/OSL Symposium, The State of the Art. Geesteswetenschappen en ICT*, Utrecht, 9 November, 2001.

Copenhagen, "Workshop Speaker: Digital Communication of Cultural heritage and International Project Cooperation," *Nordic Interactive Conference (NIC, 2001)*, Bella Conference Centre, 3 November 2001. See: <http://www.nordic-interactive.org/nic2001/>.

Kathmandu, "Culture and the Future of the Internet," *Computer Association of Nepal*, Russian Cultural Centre, 19 October 2001

Adelaide, "Art in the Age of Computers: How can Culture Survive Global Connectivity?" *The Art Link Annual Public Lecture on Contemporary Art*, Mercury Cinema, Adelaide, 7 October 2001.

Singapore, "Panel: Realising the Broadband Vision. Repositioning New Media and the Internet," *The 32nd Annual Conference of the International Institute of Communications: Governance and Cyberspace: The Substance after the Sizzle*, Singapore, 1-4 October 2001.

The Hague, "The Need for a Cultural Grid," *Eerste Nederlandse ICT-Kenniscongres*, 7 September 2001.

Bologna, "Citta ideale e citta reale: I paradossi della prospettiva," *Convegno internazionale. Imago urbis. Images des Villes. Towns Images*. Commission Internationale pour l'Histoire des Villes," Bologna, 5 September 2001.

Alpach, "Kulturelle und sprachliche Aspekte von regionaler eContent Adaption," *Europäisches Forum*, 22 August 2001.

Maastricht, Opening Keynote, "Integrating Finding Aids and Tools for Content Description," *Digital Culture III*, Amsterdam-Maastricht Summer University, 12 July 2001.

Eindhoven, "Mass-Personalisation of Services that provide the user with Cultural Information," *The 6th EnCKompass Workshop*, Eindhoven University of Technology, 29 June 2001.

Soesterberg, "Uitdagingen voor MCI (HCI) in cultuur-historie," *SIGCHI.NL Voorjaarsconferentie*, TNO, 12 June 2001.

Stockholm, "Core Panelist: Imagining Future Uses of the Internet, Experiments, Methodologies and Visions," *INET 2001 Global Summit*, Stockholm, 8 June 2001.

Mykonos, "Keynote: Historical Survey of Virtual Environments," *The International Conference on Augmented, Virtual Environments and Three-Dimensional Imaging*, 30 May 2001.

Reggio Calabria, "Ricostruzioni computerizzati della città", *Convegno in onore di Eugenio Battisti*, 22 May 2001.

Pisa, Panel: "Contemporary Trends in Historical and Industry Museums," *European Museum Forum*, Palazzo Reale di Pisa, 19 May 2001.

Paris, "Les défis de la culture digitale en réseau. Problèmes Méthodologiques," Laboratoire de Recherche Des Musées de France, Louvre, Paris, May 11, 2001.

Hong Kong, Panel "Promoting the The Future of Online Culture", *Tenth International World Wide Web Conference (WWW10)*, Hong Kong, May 3, 2001.

Dortmund, "Über die Verbindung von Open Source und Kultur," *Oekonux-Konferenz*, 28 April 2001.

Maastricht, "Augmented Knowledge and Culture," International Institute of Infonomics, 25 April 2001.

The Hague, "Digitale en virtuele museen: Mogelijkheden en uitdagingen," *Studiedag RKD (Rijksbureau voor Kunsthistorische Dokumentatie) Museale Websites, digitaal Luilekkerland?* Koninklijke Bibliotheek, 23 April 2001.

Pisa, "Syntactic and Semantic Interoperability. New Keys to a Synthesis of Global versus Regional Problems", Scuola Normale Superiore, 11 April 2001.

Bologna, "Sviluppi nelle musei digitali, virtuali e immaginari," Museo archeologico/ Università degli studi/CINECA, Bologna, 10 April 2001.

Bologna, "Cultura digitale: Problemi di integrazione tra regionalismo e globalismo," Bologna, Università degli studi, Bologna, 9 April 2001.

Brussels, "Les Musées virtuels," *2eme Séminaire Européen ARENOTECH*, Maison de L'Europe, March 2001.

Madrid, "Keynote: Une Histoire de l'Art sur et par intermédiaire de l'informatique et de l'Internet," *The Media Collection Forum during Arco 2001*, 16 February 2001.

Maastricht, "MMI, Origins and Visions," *Experimenting in Arts and Sciences Conference*, Faculty of Cultural Sciences, 25 January 2000.

Amsterdam, "Augmented Knowledge and Culture," *SIC Lecture*, NIWI, December 2000.

Madrid, "Opening Keynote: The Challenge of Augmented Culture", *Congresso Internacional Culturtec 2000*, Facultad de Ciencias de la Informacion de la Universidad Complutense de Madrid, November 2000.

Gent, "In Richting van een nieuwe Kunstgeschiedenis", and "Ontwikkelingen in Weten, Kennis en Cultuur," Universiteit Gent, November 2000.

Moscow, "New Knowledge and New Networks," *EVA Moscow*, November 2000.

Amsterdam, "Computational Grids and the Reorganization of Knowledge, FOM, Instituut voor Atoom en Molecuulfysica, October 2000.

Pisa, "Stato dell'arte della ICT e la cultura digitale all'livello mondiale," Scuola Normale, October 2000.

Bologna, "Keynote: Nuovi campi del sapere e la sfida della sintesi," *High Performance Graphics Systems and Applications. European Workshop: State of the art and Future Trends*, CINECA, October 2000.

Grenoble, "Keynote: Globalisation et nouvelles technologies: Les choix," *Centenaire de l'Université du Grenoble*, October 2000.

Luxembourg, "Virtuality and the Transformation of the Real," *How the artificial becomes real*, Ministère de la culture, de l'enseignement et de la recherche, 22-23 September 2000.

Rome, La Sapienza, "Respondent to Donald A. Norman, Information Technologies in Cognitive Processes," *Information: Science and Technology for the Next Century*, Rome, September 2000.

Yokohama, "Augmented Knowledge and Culture," *INET 2000*, July 2000.

Maastricht, Opening Lecture: "Developments in Interoperability", Amsterdam/Maastricht Summer University, *Digital Cultural Heritage II*, June 2000.

Rome, "Le trame della comunicazione," *Forma, tecnologia e contenuti della comunicazione artistica*, *Convegno Musica Scienza*, Centro Ricerche Musicali, June 1999.

Namur, "MEMECS," *ISOC Wallonie Conference*, 17 June 2000.

Lindau, Keynote: "The Internet and the Future of Museums," *ICOM (Germany, Austria, Switzerland), Der Standort des Museums an der Schwelle zum 21. Jahrhundert*, May 2000.

Amsterdam, "Metadata and Interoperability," and panel on education in the MEDICI Culture track, *WWW9*, May 2000.

Vienna, "Historische und Kulturelle Metadata", *Internationales Symposium Zukunft der Information*, ORF- Radio, Europäische Kommission, Vienna, May 2000.

Frankfurt, "Festvortrag II: Neue Organisationsmethoden", 22. *DGI-Online Tagung. Wissen in Aktion - Wege des Knowledge Managements*, Messe Frankfurt, May 2000.

Toronto, "Internet Developments and the Frontiers of Education", Five Lectures for the Metropolitan Toronto Separate School Board, Toronto, April 2000.

Paris, "Gestion et Partage des Connaissances, www.intranet2000.net, Paris, Cité des Sciences, March 2000.

Amsterdam, Keynote: "Digitale toekomst van de cultuur", *Symposium: Cultuur: Digitaal in de Toekomst*, Tropenmuseum, March 2000.

Paderborn, Closing Keynote: "Virtuality and the Discovery of Reality," *Academia Europea*, Paderborn, March 2000.

Paris, "Les répercussions des nouveaux médias," *L'avenir des musées*," Musée du Louvre, March 2000.

Athens, "Miniaturisation and New Interfaces," *I-Cubed Spring Days*, March 2000.

Brussels, "Cultural and Historical Metadata," *Internet Governance. EC-Panel of Participants Consultative Meeting*, Borschette Centre, Brussels, February 2000.

Maastricht, "Human Interface Challenges in Computers", *Faculteit der Cultuur Wetenschappen*, February 2000.

Bologna, "Le sfide della cultura digitale," *Università di Bologna*, January 2000.

Autrans, "Metadata, and Interoperability of Content," and Panel on Internet Governance, *INET France*, January 2000.

Kyoto, Keynote: "Frontiers of Culture in Digital Society," *Digital Frontier Kyoto 99*, December 1999.

Bussum, "The Promise of the New Technologies in the Field of Health," *NIZW*, November 1999.

Moscow, "European Network of Centres of Excellence in Digital Cultural Heritage and ICT," *EVA 99*, Tretyakov Gallery, Moscow, October 1999.

Kaalsbeek College, Keynote: "New Frontiers in Education," October 1999.

Aachen, Opening Lecture: Ringvorlesung "Multimedia: Zukunftsvisionen für den Zugang zur Europäischen Kultur," Technische Universität, October 1999.

Groningen, Opening Keynote: "Cultuur en Onderwijs," *Onderwijs Conferentie*, Noorderpoortcollege, October 1999.

Florence, Session Chair and Rapporteur for Working Group 11: "Sustainable Development in Communication and Education," *Culture Counts, Financing Resources and the Economics of Culture in Sustainable Development*, Conference sponsored by the Government of Italy, World Bank, UNESCO, Florence, Fortezza del Basso, October 1999.

Milan, Opening Keynote: "Survey of International Cultural Networks", and Keynote on "MEDICI Centres of Excellence", *Cultural Heritage Networks Hypermedia*, Milan, September 1999.

Kuala Lumpur, "Goals of Culture and Art," in Plenary 4: The Emerging Knowledge Society-The Implications for Commerce, Culture and Communities, *The Global Village in a Networked World: Cultural Questions, 30th Annual Conference of the International Institute of Communications*, Kuala Lumpur, September 1999.

Innsbruck, Opening Keynote: "Conceptual Navigation in Multimedia Knowledge Spaces" *TKE'99, 5th International Congress on Terminology and Knowledge Engineering*, Innsbruck, August 1999.

Hourtin, "La Vision de Centres d'Excellence en Culture," Débat: Culture en réseau: les réalités locales, *Le temps de l'Homme mondial, 20^{ème} Université d'Eté de la Communication, Réseau International des universités de la Communication*, Hourtin, August, 1999.

Amsterdam, Opening Keynote, "Visions to an Integrated Approach to Digitisation: The new Roles of the Public and Private Sectors in the Information Society Today," *European Internet Seminars: 'Policy Challenges in the Internet Age'* Amsterdam Summer University, 28-30 July 1999.

Maastricht, Keynote: "Visions for an Integrated Approach to Digitalisation" and "Network Models (Europe)," *Digital Cultural Heritage*, Amsterdam/ Maastricht Summer University, July 1999.

San Jose, "Digital Reference Rooms: Access to Historical and Cultural Dimensions of Knowledge," *INET '99*, June 1999.

Toronto, Opening Keynote: "From Reality to the Virtual?," *10th Annual Conference of PRECARN (Pre-Competitive Advanced Research Network)*, June 1999.

The Hague, Keynote: "Computers, Culture and Education," *Annual Meeting of the Vereniging Leraren Beeldende Vakken (VLBV)*, May 1999.

Baden-Baden, Opening Keynote, "Neue Netzwerke und neue Herausforderungen der Kultur," *Konferenz der Kulturen* (to discuss a new Museum der Weltkulturen im Rhein), February 1999.

Strasbourg, "Building the Foundations for Research Energy and Training," *MEDICI, Action Line Working Group: Cultural Heritage, Multi-Media and Education*, Council of Europe, February 1999.

Padua, Lecture as Panel member: "Commercio elettronico, multimedialità e Internet," *Il futuro del Made in Italy in Rete*, in conjunction with the Canadian Embassy, Rome, Sala Archivio Antico, Università di Padova, February 1999.

The Hague, "History as a Key to Internet Searching," *Internet Society*, Dutch Chapter Meeting, Koninklijke Bibliotheek, February 1999.

Lunteren, Opening Keynote: "Networks and Transformations in Culture, Education and Knowledge," *ICT in Actie Conferentie, I&I OWG-Biep*, November 1998.

Vienna, "SUMS and the Vision of an Electronic Monastery at Mljet," On the Occasion of the Presentation of a Film on Mljet to Christoph von Schönborn, Cardinal Archbishop of Vienna, Erzbischöfliches Palais, October 1998.

Vienna, Opening Keynote: "Computers and Our New Perspectives on Culture," and "Multimodalities of Content," *CULTH, Cultural Heritage in the Global Village*. Conference in connection with the next phase of the EC MOU (MEDICI), Winterpalais of Prinz Lichtenstein, October 1998.

Paderborn, Opening Keynote: "Metadata und die Transformation des Wissens," and leader of discussion group on "Neue Bildwelten als Perspektive für die Wissensvermittlung," *Euphorie Digital? Aspekte der Wissensvermittlung in Kunst, Kultur und Technologie*, Heinz Nixdorf Museums Forum, September 1998.

Cologne, Session Co-Chair and Lecture, *Projekt Virtuelle Museen – Museum für menschliche Kommunikation Round Table*, Kunsthochschule für Medien, September 1998.

Aquila, Tutorial: "Interfaces for Cultural Heritage: Cultural Dimensions of Interspaces;" Panel: "Natural Cultural and Cyber Cultural Interfaces: Points of View," *AVI (Advanced Visual Interfaces) '98*, May 1998.

Cairo, "New Media and Access to Cultural Heritage," *Workshop on Multimedia Access to Euro-Mediterranean Cultural Heritage*, Cairo, April 1998

Toronto, Keynote: "Frontiers in Electronic Media," *et21 Educational Principles for the Twenty First Century*, Metro Toronto Convention Centre, April 1998.

Kuala Lumpur, Panelist, Closing Plenary Session, *Infotech '98 Malaysia*, Putra World Trade Centre, April 1998.

Gifu Prefecture, "International Cultural Developments," *EVA Japan Conference*, April 1998.

Winnipeg, "The Organization of Multimedia Databases for Community Health Information," Children's Hospital, March 1998.

Winnipeg, Basic Medical Sciences Building, "Leonardo da Vinci: Lessons for a New Renaissance in Health Care," March 1998.

Padua, "Developments in Canadian Media: Links with the EC and G7," *Antenna Cinema Conference*, Università di Padova, March 1998.

Delft, "SUMS, Metadatabases and a Digital Reference Room as a integrating Strategy for Dutch Culture," Lecture to the executive of DENCE (Digitale Encyclopedie van het Nederlandse Culturele Erfgoed), Technical University, December, 1997.

Nantes, Opening Keynote: "Les nouveaux rôles pour l'éducation à travers Internet", *Colloque sur les NTICs et la Formation: Mythes et Réalités. Quête d'efficience ou révolution culturelle?*, Nantes, Institut de l'Homme et Technologies, December, 1997.

Fredericton, "Computers, Culture and Education," University of New Brunswick, October 1997.

Trois Rivières, Grande Conférence: "Les visions d'une bibliothèque globale: entre rêve et réalité," Atelier thématique, *24e Congrès et Colloque de l'Astéd*, Hôtel Delta, Trois Rivières, Octobre 1997.

Paris, Ouverture avec Paul Jaeger (as last minute representative for Edith Cresson): "Les initiatives en culture du G8 et de la commission: De l'Europe aux collectivités locales: le passage aux nouvelles technologies. Des efforts qui impliquent tous les échelons: privés et publiques, locaux, nationaux et européens", *L'Aventure du savoir, Rencontre du Livre et du Multimédia*, Amphithéâtre de Sources de l'Europe, Foyer de l'arche de la Défense, Paris, Octobre 1997.

Berlin, Keynote: "Frontiers in Conceptual Navigation," *ISKO, Wissensorganisation mit Multimedialen Techniken*, Humboldt Universität, Berlin, October 1997.

Sydney, Panel on Cultural Ecology, "Why is Culture Important in a World of New Technologies", *28th Annual Conference: International Institute of Communications Conference*, Regency Hotel, Sydney, October 1997.

Kuala Lumpur, "Computers and a New Philosophy of Knowledge", *National Information Technology Council (NITC) International IT Forum*, Technical University, September 1997.

Kuala Lumpur, MIMOS, "A System for Universal Media Searching (SUMS): New visions of World Cultural Heritage," *National Information Technology Council (NITC) International IT Forum*, September 1997.

Milan, Keynote: "Towards a Global Vision of Meta-data: A Digital Reference 'Room,'" *2nd International Conference. Cultural Heritage Networks Hypermedia*, Milan, September 1997.

Toronto, Luncheon Keynote Speaker, "Access, Privacy and Culture", *Access and Privacy: The New Way of Doing Business*, Toronto, September 1997.

Paris, "Service Centres and Trials: New Links between the EC's MOU and G7", Meeting with members of EC DGXIII, TEN MOSAIC and the French Ministries of Culture and Education, Paris, Ministère de l'Education, July 1997.

Kuala Lumpur, "New Roles for Education through the Internet", *INET '97 Conference*, Kuala Lumpur, June 1997.

Calgary, Keynote: "New Media in the Post McLuhan Age: Why Computers are Transforming the Meaning of Education," *ED-Media and ED-Telecomm Conference*, Calgary, June 1997.

Maastricht, "Internationale globalisatie en individualisme," Hogeschool, June 1997.

Brussels, Chairman of session 3 at "Multimedia access to the cultural heritage-Bridging the gap between Museums and Industry". Sponsored by ACTS Programme of the European Union and the ACTS GAC chain of projects in the context of the MoU on Multimedia Access to European Cultural Heritage, June 1997.

Rome, "Storia dell'localismo come chiave contro McWorld", La Sapienza, Rome, May 1997.

Venice, "Standardizzazione globale, regionalismo e l'unicità individuale", Faculty of Architecture, University of Venice, May 1996.

Florence, Panel member at: "La cultura della interattività e lo sviluppo creativo," *Seminario di studio LRE/ECO-CreaNet*, Florence, May 1997.

Ottawa, "Libraries as an Integrating Dimension for Cultural Heritage", National Library, Ottawa, April 1997.

Reggio Calabria, "I progetti G7 per biblioteche e musei e il Sistema Universale Multimediale d'Accesso (SUMMA)", Università di Reggio Calabria, March 1997.

Reggio Calabria, "Dall' teatro greco alla realtà virtuale attraverso la prospettiva," Università di Reggio Calabria, March 1997.

Maastricht, "SUMS and New Strategies for Knowledge Organization," University of Maastricht, February 1997.

Vienna, "Hypermedia: New Approaches to Cultural Heritage and Knowledge", *Global Village Conference*, City Hall, Vienna, February 1997.

Toronto, "From Universal Libraries to Universal Access", Inaugural Address, Ontario Library Association 's Super Conference, Metro Convention Centre, February 1997.

Toronto, "SUMS: un musée virtuel? Stratégies européennes et mondiales pour le patrimoine", University of Toronto, McLuhan Program, Video Conference: Toronto-Oaklawn-Orléans, January 1997.

Hamilton, "The Information Frontier", *The Fourth Elizabeth Ann Cummings Memorial Lecture*, OLA, Hamilton, November 1996.

Toronto, Keynote Address, *Canadian Imaging Conference*, Metro Convention Centre, Toronto, October 1996.

Toronto, "Agents and Problems of Access to the Internet", Natural Philosophers Group, University of Toronto, October 1996.

Milan, Inaugural Address: "Accesso Mondiale all' Patrimonio Culturale", *Beni Culturali. Reti Multimedialità*, Politecnico di Milano, Milan, September 1996.

Couchiching, "Panel Speaker: Citizens of the Electronic Village", *Couchiching Conference*, August 1996.

London, "Future Strategies and Visions. Universal Media Searching -SUMS and SUMMA," *EVA '96 Conference*, National Gallery, July 1996.

Florence, Two Lectures: "SUMS, la via elettronica e educazione" and "SUMS nel contesto di progetto pilota 5 di G7", *Mediartech. International Multimedia Festival and Telematic Show*, Fortezza da Basso, Florence, 28 May-3 June, 1996. Also as expert in seminar on *Paideia delle Reti*.

Venice, "La prospettiva dall' antichità a oggi," Faculty of Architecture, University of Venice, June 1996.

Venice, Inaugural lecture: "SUMS e le nuove dimensioni di spazio, tempo e informazione," *Conference: Spazio, Tempo, e Informazione*, Venice, May 1996.

Rome, "La prospettiva: Dal teatro Greco alla realtà virtuale," Rome II, Tor Vergata, May 1996.

Lisbon, Keynote on the occasion of the fusion of BSO-Origin and opening of Portuguese branch of Origin (Software) Corp.: "Frontiers of New Technologies in the Information Age," Lisbon, May 1996.

Toronto, President's Forum Keynote Address: "The Ramp is Open to Everyone," Metro Convention Centre, *Ontario Library Association Superconference*, February 1996.

Brussels, "Overview and Demo: State of the Art Applications": European Commission DGXIIIb, ACTS: Working Meeting on Museums and Galleries in the Information Society: Preparatory Lecture for the Memorandum of Understanding (MOU) on Multimedia Access to Europe's Cultural Heritage, Brussels, December 1995.

Toronto, "The Future Evolution of the Internet", *Radio on Radio. Celebrating 100 Years*, Faculty of Information Studies, University of Toronto, Broadcast live on CIUT, November 1995.

Toronto, "Interface Problems and SUMS", Meeting of the ACM Siggraph (Toronto Chapter), Faculty of Information Studies, Toronto, October 1995.

Toronto, Panel: "ATM Solutions and Applications", *Netcon 95*, Metro Convention Centre, Toronto, October 1995.

Toronto, "Examples of Broadband Applications for the Information Highway: GIS, AM/FM and SUMS", *SES Bootcamp*, Canadian Broadcasting Corporation, October 1995.

Ottawa, "New Developments in Electronic Imaging and SUMS", (Three hour lecture and demonstration), *Canadian Information and Imaging Society*, Queens Executive Suite, Ottawa, June 1995.

Toronto, "Vision Statement on the Role of Historical Knowledge for the Future of Broadcasting", *68th Boot Camp of the Systems Engineering Society*, Glenn Gould Theatre, CBC, June 1995.

Toronto, "The Future of Public Galleries in the New Technological Age", Ontario Association of Art Galleries, Design Exchange, June 1995.

Toronto, "Accessing the International Information Highway: What are the Copyright Implications", Canadian Institute, Marriott Eaton Centre, Toronto, April 1995.

Paris, "Electronic Media in the Study of Alberti," *Congrès international Leon Battista Alberti*, Institut de France Paris, April 1995. Said to be first lecture with computers given at Institut de France.

Ottawa, "The System for Universal Media Searching (SUMS) Technology", National Research Council in conjunction with *SES, OCRI, CRC, TRIO, IEEE, Boot Camp*, Ottawa, November 1994.

Ottawa, "SUMS. A System for Universal Media Searching: Conceptual Navigation on the Internet", McOdrum Library, Carleton University, Ottawa, November 1994.

Vancouver, Plenary address: "How the information highway can transform education: Reflections on McLuhan's vision," *Multicomm '94*, Westin Hotel, November 1994.

Utrecht, "Knowledge Package Construction and Conceptual Navigation Using a System for Universal Media Searching (SUMS)," *EARLI/ECWC 1994 Writing Conference*, Utrecht.

Toronto, "Knowledge Building on the Information Superhighway: Multimedia and Imaging Content," *Imaging Canada '94*, Metropolitan Toronto Convention Centre, Toronto, October 1994.

Bologna, "SUMS", *Cibernauti, Convegno sul tema Tecnologia, Comunicazione, Democrazia*, Consorzio Università- Citta di Bologna, Bologna, June 1994.

Venice, "Attualità della prospettiva rinascimentale", Centro studi sulla rappresentazione, Venice, Università di Venezia, Dipartimento di architettura, June 1994.

Calgary, "System for Universal Media Searching: (SUMS)", *Annual Meeting of the Learned Societies of Canada: International Symposium and Exhibition on Teaching and Learning*, Calgary, June 1994.

Toronto, Presentation in a session on "New Interactive Technologies for Cultural Institutions: SUMS", *Culture Technologies Convergence*, Toronto, May 1994.

Toronto, "Knowledge and the Information Highway", Cultural Studies Conference, Toronto, May 1994.

Toronto, "Demonstration and Discussion of SUMS; A System for Universal Media Searching", *ITRC, Telepresence Seminar*, Toronto, April 1994.

Ottawa, Two Lectures, "The System for Universal Media Searching (SUMS) the Electronic Highway and the Virtual Museum", Canadian Heritage Information Network, Ottawa, April 1994.

Bologna, "S.U.M.S. System for Universal Media Searching dedicato alla navigazione universale nella storia dell'arte", Consorzio Università- Citta di Bologna, Museo Civico Archeologico, Bologna, April 1994.

Wolfenbüttel, "Ein System für Universelle Medien Suchen (SUMS)", *Ausserordentlicher Stipendiaten-Kolloquium*, Herzog August Bibliothek, Wolfenbüttel, March 1994.

Hanover, "The System for a Universal Media Searching (SUMS): A Front End For the Electronic Highway?", *CEBIT '94 Speakers' Forum Programme, Theme: Distance Learning Technologies*, Keynote Lecture and two shorter versions Hanover, March 1994.

Munich, Inaugural Lecture: "Elektronische Medien, Die Wiedergeburt der Perspektive und die Fragmentierung der Perspektive": International Conference: *Illusion und Simulation*, Marstall Theater and Siemens Foundation, Munich, March 1994.

Ottawa, Two Lectures, "The System for Universal Media Searching (SUMS) as a Tool for Authoring Knowledge Packages and for Conceptual Navigation", Canadian Heritage Information Network, Ottawa, January 1994.

Toronto, "Activities and Vision of the McLuhan Program: A System for Universal Media Searching", Toronto, Think Tank for Emerging Technologies, December, 1993.

Karlsruhe, "The Electronic Highway and Education: New Doors to keep Open," *Learntec '93*, Karlsruhe, November 1993.

Toronto, Lecture on the occasion of the Formal opening of the Humanities Computing Labs: "Conceptual Navigation on the Electronic Highway: The System for Universal Media Searching (SUMS)", Vanier College, York University, Downsview, October 1993.

Toronto, "New Media and New Knowledge: A System for Universal Media Searching (SUMS)", Victoria College, Toronto Semiotic Circle, Toronto, September 1993.

Toronto, "The SUMS Project", *Department of Mathematics and Computer Science Colloquium*, Ryerson University, Toronto, September 1993.

Couchiching, "Plenary Session: The Electronic Highway and the Transformation of Knowledge," *The Couchiching Conference: The Challenge of Lifelong Learning in an Era of Global Change*, Couchiching, August 1993.

Toronto, "New Media and New Knowledge", *Third Canadian Conference on Foundations and Applications of General Science Theory: Universal Knowledge Tools and Their Applications*, Ryerson University, Toronto, June 1993.

Venice, "Sistema Universale Multi-Mediale di Accesso (SUMMA). Nuovi metodi per la storia della prospettiva," Università di Venezia, Dipartimento di architettura, Venice, June 1993.

Roem, "Il computer e la trasformazione del sapere nelle relazioni tra testo e immagine", *Giornata: Discorso e immagine*, Facoltà di Filosofia, Università degli studi, La Sapienza, Rome, May 1993.

Winnipeg, "How the New Media can Transform our Teaching of the Past", *IBM-Canada Spring 1993 Partners' Meeting*, University of Winnipeg, May 1993.

Ottawa, "A System for Universal Media Searching (SUMS): Multimedia as a Future Key to the Past", *Ottawa-Hull Film and Television Association, Second Annual Multimedia Conference*, Ottawa, May 1993.

Ottawa, "The System for Universal Media Searching (SUMS) and a National Strategy for Canada's Heritage", National Gallery of Art, Ottawa, May 1993.

University of Toronto, "Perspective from Antiquity to the Present", *Life Science, Symposium on Perspective and Perception*, Scarborough Campus, Department of Psychology, Scarborough, March 1993.

Ottawa, "Applications of the System for Universal Media Searching (SUMS) to Museum Collections", Canadian Museum of Civilization, Ottawa, March 1993.

Toronto, "A Universal Media Searching System and its Application to a Total Knowledge Database on Perspective", ACM Toronto, Siggraph, Toronto, McLuhan Program, March 1993.

Toronto, "Projects of the Perspective Unit": First attempt of a lecture combining computer screens with tele-conferencing (to Fredericton, New Brunswick), University of Toronto, McLuhan Program, New Media and Policy Series, Toronto, March, 1993.

Toronto, Keynote Address (as Special Surprise Guest Speaker): "A System for Universal Media Searching (SUMS) and New Approaches to Knowledge," *The Second Annual Practical Approach to Multimedia and CD-ROM Technology Conference*, Toronto, Park Plaza Hotel, February 1993.

Toronto, Ten Seminars on: "Electronic Media as New Tools of Knowledge and Interpretation", University of Toronto, Faculty of Education, Technology for Enhancing Learning Centre Toronto, January-April 1993.

London, "System for Universal Media Searching, (SUMS)", *CHart Conference on Computers in Education*, University of London, Birkbeck College, London, December 1992.

Toronto, "Levels of Knowledge: A Database on Perspective", University of Toronto, Victoria College, *Renaissance '92. A Question of Documentation*: Toronto, October 1992.

Sansepolcro, "Piero della Francesca and the Two methods of Renaissance Perspective", *Piero della Francesca 500 Anni*, Urbino, Arezzo, and Sansepolcro, October 1992.

Quebec, Opening Keynote: "Past Imprecision for Future Standards: Computers and New Roads to Knowledge", *1992 ICOM Conference, CIDOC section*, Quebec City, September 1992.

Rome, "Nuove dimensioni della prospettiva rinascimentale nella cultura contemporanea", plus a "Demonstration of the Databank on Perspective", Università di Roma II, Tor Vergata, Facoltà di architettura, Rome, June 1992.

Venice, Inaugural Conference, "Teatro, prospettiva e realtà virtuale", Centro Studi sulla rappresentazione, Università di Venezia, Venice, May 1992.

Reggio Calabria, "La realtà artificiale ed il nuovo trattamento dello spazio", *IV Congresso Internazionale di Studi sulle Utopie, Utopia e Natura*, Rome, Grottaferata, Monte Cassino, Reggio Calabria, May 1992.

Milan, "La tradizione teatrale classica, la prospettiva rinascimentale e la realtà virtuale contemporanea", Politecnico di Milano, Facoltà di architettura, Milan, May 1992.

Rome, "Leonardo da Vinci e il metodo visuale; Le conseguenze per la sua cosmologia", Università degli studi, Seminar of Professor A. Maieru, Facoltà di Filosofia, La Sapienza, Rome, April, 1992.

Campobasso, "Le possibilità per una nuova integrazione dell' sapere attraverso il computer", *Didattica '92. Informatica per la didattica*, April 1992.

Toronto, "Theatre, perspective and virtual reality", *Mini Symposium on Multi Media with Bill Buxton (CSRI)*, University of Toronto, McLuhan Program, Toronto, April 1992.

Ottawa, "The Perspective Project and Museums. Future Directions", Canadian Heritage Information Network, Ottawa, February 1992.

Toronto, "Report on the Perspective Unit", *A Multi Media Symposium* with Mike [i.e. Thijs] Chanowski (CAT Benelux) and Tom Klinkostein (Pratt Institute), University of Toronto, McLuhan Program, Toronto, February 1992.

Sansepolcro, "Ottica, percezione e prospettiva", *III convegno di studi filosofici di San Sepolcro. Specchi americani: riflessi e metamorfosi delle tradizioni filosofiche europee nel nuovo mondo*: San Sepolcro, October, 1991.

Zurich, "Das Erbe der Renaissance-Perspektive", Schweizerisches Institut für Kunstwissenschaft, Zurich, June 1991.

Zurich, "Perspektiven, Seminar und Computer-Demonstration", Eidgenössische Technische Hochschule, Institut für Architektur und CAD, Zurich, June 1991.

Göttingen, "Computers and Perspective", Institut für Wissenschaftsgechichte, Göttingen, June, 1991.

Milan, Lecture with demonstration in collaboration with Eric R. Dobbs: "A databank on perspective", *Congresso internazionale in onore di Eugenio Battisti, Metodologia della ricerca: orientamenti attuali*, Milan, May, 1991.

Toronto, Featured lecture: "Databanks in Education"; Featured lecture with computer demonstration in collaboration with Eric R. Dobbs: "Knowledge Packages"; poster session concerning same, *The 12th E.C.O.O. and the 8th I.C.T.E. Joint Conference*, Toronto, May, 1991.

Rome, "La prospettiva rinascimentale e la razionalizzazione dello spazio," Università degli studi, La Sapienza, Rome, April, 1991.

Siena, "Prospettiva, spazio, tempio e metafora," *Università degli studi di Siena, 750 anni della fondazione, Meeting Siena -Toronto, Siena, 26-27 April, 1991.*

Siena, "Prospettiva, cicli narrativi e gli ordini della chiesa", Università degli studi di Siena, Scuola di perfezionamento, Siena, April, 1991.

Brescia, "Struttura e metodo nei manoscritti di Leonardo"; Lecture with computer demonstration in collaboration with Eric R. Dobbs: "Metodi di prospettiva da Alberti a Leonardo", Sponsored by the Centro di studi Leonardiani, Ateneo di Brescia, Brescia, April, 1991.

Venice, "La prospettiva rinascimentale", Università di Venezia, Dipartimento di architettura, Venice, April, 1991.

Rome, "Narrativa e prospettiva", Istituto Svizzera, Rome, February, 1991.

Toronto, Lecture: "Textbooks and Databanks" as part of a panel with James Page, James Bell, Randy Morse and Ian Winchester, *Educational Publishing in Canada: Challenges and Opportunities*, Association of Canadian Publishers and Ontario Institute for Studies in Education, O.I.S.E., Toronto, November 1990.

Winnipeg, Dinner Address: "Can Museum Networks lead to a new View of Knowledge?", *Manitoba Museum of Man and Culture and the Canadian Heritage Information Network Conference: Museums and Information*, Holiday Inn, Winnipeg, April 1990.

Boulder, "A Brief History of the not so Regular Solids". Panel member with Paolo Soleri for discussions on: Codes of Culture; Buckminster Fuller, Synergetic Geometry and Creative Problem Solving; Architecture as Environmental Transform; True but Illusive Nature of Form and Space and Gorbachev's Common House of Europe and Elite Culture, *Forty-Third Conference on World Affairs*, Boulder, April 1990.

Dallas, "Leonardo da Vinci: A Science of Nature and the Nature of Science", "Regular Solids from Archimedes to Mandelbrot", Alpbach Foundation of America, Dallas, April 1990."

Dallas, "Leonardo da Vinci, Transformations, and the Origins of Modern Art", Southern Methodist University, Dallas, April 1990.

Sansepolcro, Keynote Address: "Progetti computerizzati nella storia dell'arte", *Centro Studi Pierfrancescani. Giornata di Lavoro*, San Sepolcro, Palazzo delle Laudi, February 1990.

Bad Homburg, "Konstruktion und Repräsentation des Körpers bei Leonardo da Vinci," *Werner Reimers Stiftung, Tagung über Symbolik und Sozialbezug des Körpers*, Bad Homburg, October 1989.

Winnipeg, "The Proportional Compass Before Galileo," University of Winnipeg, Department of History, Winnipeg, October 1989.

Alpbach, Director of Arbeitsgemeinschaft 9: "Leonardo da Vinci: Die Gesetze des Sehens und der Natur" (Six lectures as 3 hour seminars, plus two public lectures), *Europäisches Forum*, Alpbach, August 1989.

Wolfenbüttel, Herzog, "Die Methode Leonardo da Vincis," August Bibliothek, *Stipendiaten Kolloquium*, Wolfenbüttel, August 1989.

Bielefeld, "Die Stellung Leonardo da Vincis zum Buchdruck," Universität Bielefeld, Fakultät für Linguistik und Literaturwissenschaft, Bielefeld, July 1989.

Toronto, "The Origins of the Proportional Compass", University of Toronto, Institute for the History and Philosophy of Science and Technology, Toronto, April 1989.

Braunschweig, "Die Geschichte des Proportional Zirckels," Verein Deutsche Ingenieure (VDI), Technische Universität Braunschweig, Braunschweig, January 1989.

Zurich, "Instrumentgeschichte und Kunstgeschichte," Universität Zurich, December 1988.

Zurich, "Die Tragweite der Perspektive," Eidgenössische Technische Hochschule, Zurich, December 1988.

Santa Monica, "Origins of the Proportional Compass," The Getty Center for the History of Art and the Humanities, Santa Monica, November 1988.

Boulder, "The Secrets of Leonardo's Notebooks," *The Reynolds Lecture*, University of Colorado at Boulder, Boulder, November 1988.

St Rémy, "Demonstration of computerized bibliography on perspective," *Journée d'études du groupe de recherche: perspective et modes de représentation*, St. Rémy Les Chevreuses, Fondation Coubertin, June 1988.

Cambridge, Mass., "Perspective and Architecture," *Symposium: Architectural Representation; History and Problems*, Harvard University, Cambridge, Mass., December 1987.

College Park, "Perspective and Print Culture," Keynote address, *First Pennsylvania Symposium on Mediaeval and Renaissance Studies*, The University of Pennsylvania, College Park, September 1987.

Santa Monica, "Perspective: A New Approach to Bibliography," The Getty Center for the History of Art and the Humanities, Santa Monica, February 1987.

Budapest, "Perspective and Literature," Hungarian Academy of the Sciences, Budapest, June 1986.

Munich, "Leonardo da Vinci's Portraits and Caricatures," Zentral Institut für Kunstgeschichte, Munich, June 1986.

Münster, "A New Classification for Art History," *Gesellschaft für Klassifikation*, Münster, June 1986.

Provo, Brigham Young University, College of Humanities, Lectures: *Dimensions of Perspective*

1. Perspective and Reality
 2. Perspective and Imagination
 3. Perspective, Religion and Literature
- Provo, February 1986.

Cambridge Mass., "Perspective, Surveying and Measurement in early Modern Science." Harvard University, Cambridge, November 1985.

Toronto, "Scientific Method in Leonardo's Portraits and Caricatures," Dante Society, Toronto, March 1985.

Toronto, "Leonardo's Science," Centre for Renaissance and Reformation Studies, Toronto, November 1984.

Hof Geismar, "Multidimensional Bibliography and Classification," *Gesellschaft für Klassifikation*, Hof Geismar, April 1984.

New York, "Leonardo's Anatomical Method." Institute of Fine Arts, New York, March 1984.

Toronto, "The Goal of Leonardo's Art." York University Department of Fine Arts, Downsview, March 1984.

Toronto, "Linear Perspective in the Renaissance," University of Toronto, Institute for the History and Philosophy of Science and Technology, Toronto, March 1984.

Provo, "Lectures: Leonardo da Vinci:

1. Art and Anatomy: An Introduction to his Method.
2. The Scope of his Scientific Approach.
3. The Purpose of his Art,"

Brigham Young University, College of Humanities and ASBYU Academics, Provo, February 1984.

New York, "Problems in Renaissance Perspective." New York University, Graduate School, Metropolitan Seminar in the History of Science, New York, February 1984.

Bowling Green, "Renaissance Linear Perspective," Western Kentucky University, Bowling Green, February 1984.

Winnipeg, "1. Leonardo, Artist, not Universal Man; 2. Leonardo, Perspective. A new Assessment," University of Manitoba, Department of History, Winnipeg, February 1984.

Marburg, "Leonardo da Vincis Anatomische Methode," Kunsthistorisches Seminar, Marburg, October 1983.

Mainz, "Leonardo da Vinci und die methodische Anatomie," Medizinisches Institut, Mainz, May 1983.

Munich, "Leonardo da Vincis wissenschaftliche Methode," Zentral-Institut für Kunstgeschichte, Munich, May 1983.

Königswinter, "Some Thoughts on the Reorganization of Knowledge," *Congress: Gesellschaft für Klassifikation*, Königswinter, April 1983.

Milan, "Leonardo da Vinci: Visualization and Perspective," *Congresso internazionale, Leonardo e l'eta della ragione*, Castello Sforzesco, Milan, September 1982.

Wolfenbüttel, "Leonardo da Vinci und die 7 Bücher über Licht und Schatten." Stipendiaten-Kolloquium, Herzog August Bibliothek, Wolfenbüttel, December 1981.

Milan, "Il metodo sperimentale di Leonardo da Vinci: prospettiva e modelli," Università degli studi, Facoltà di lettere e filosofia, Milan, March 1980.

Wolfenbüttel, "Leonardo da Vinci," Concilium Germanicum, Wolfenbüttel, March 1980.

Toronto, "Leonardo da Vinci and Renaissance Perspective," York University, Faculty of Arts, Department of History, Downsview, March 1979.

Princeton, "Leonardo da Vinci's Science and Art," Princeton University, History of Art Department, Princeton, February 1979.

Boston, "Leonardo da Vinci and Renaissance Perspective," Boston University, History of Art Department, Boston, February 1979.

New Haven, "Historical Problems in Perspective, Optics and Perception," Yale University, Psychology Department, New Haven, February 1979.

Milan, "Prospettiva rinascimentale degli studi della seconda metà del XIX secolo," Università degli studi, Milan, February 1979.

Munich, "Das Problem der Perspective im 16. Jahrhundert: Grenzfragen zwischen Naturwissenschaften und Kunstgeschichte," Deutsches Museum, München, February 1978.

Braunschweig, "Zur Entwicklungsgeschichte der Perspektive in der Malerei," Lehrstuhl für Kunstgeschichte, Braunschweig, February 1978.

Wolfenbüttel, "Leonardo da Vinci und die Perspektive," *Stipendiaten-Kolloquium*, Herzog August Bibliothek, Wolfenbüttel, November 1977.

Milan, "Ptolemy and the Origins of Linear Perspective," *Congresso internazionale: La prospettiva rinascimentale*, Castello Sforzesco, Milan, October 1977.

London, "Leonardo's Experimental Method," Wellcome Institute for the History of Medicine, London, April 1977.

London, "Problems in the History of Perspective," *Work in Progress Seminar*, Warburg Institute, London, January 1977.

Bristol, "Problems in Renaissance Perspective," History of Art Seminar, Bristol, November 1976.

Cambridge, "Leonardo da Vinci's Scientific Method," Whipple Museum, History of Science Seminar, Cambridge, November 1976.

London, "Leonardo and Linear Perspective," Wellcome Institute for the History of Medicine, London, March 1974.

London, "Renaissance Perspective and Optics," *Work in Progress Seminar*, Warburg Institute, London, January 1973.

Oxford, "Problems of Renaissance Optics and Perspective." Trinity College, History of Science Seminar by Alistair Crombie and John North, Oxford, May 1973.

CONFERENCES ATTENDED AS OBSERVER

Avignon, "Atelier: Réseaux." *Les frontières. A quoi ça sert?*, Association Française d'Action Artistique, Ministère des Affaires Etrangères, 19 July 2001.

St. Pete Beach, *IIC 2000*, September 2000

Kuala Lumpur, *Global Knowledge II*, 7-10 March 2000

Toronto, 8th *International World Wide Web Conference*, 11-14 May 1999

Redondo Beach, *IUI '99, Intelligent User Interfaces Conference*, January 1999

Rome, *International Institute of Communications Conference*, October 20-23 1998

Heraklion, Crete, *ERCIM, Conference on Digital Libraries*, 19-23 September 1998

Lille, *International Society of Knowledge Organization*, and Session Chair, August 1998

Geneva, *Internet Society*, 21-24 July 1998

Paris, *Virtual Worlds*, July 1-3 1998

L' Aquila, *Visual Databases 4*, 28-29 May 1998

Brisbane, *WWW7*, April 14-18 1998

Vienna, *The Age of Information and National Libraries*, 3-4 April 1998

Florence, *Mediartech*, March 27-28 1998

Toronto, *OLA Superconference*, Toronto, January 1998

London, *Global Summit on Regulatory Policy*, London, November 1997.

Milan, *ECMAST Conference*, Milan, May 1997.

Santa Clara, *6th International World Wide Web Conference*, Santa Clara, March 1997.

Los Angeles, *Museums and the Web Conference*, Los Angeles, February 1997.

Seville, *W3 Conference: Internationalism and Multilingualism*, Seville, November 1996.

DEMONSTRATIONS OF SYSTEM FOR UNIVERSAL MEDIA SEARCHING (SUMS)

Maastricht, MMI for the Canadian Ambassador to the Netherlands, June 1999.

Toronto, Marshall McLuhan School, June 1999.

Maastricht, University, March 1998.

Winnipeg, NRC Institute for Biodiagnostics, February 1998.

Winnipeg, Children's Hospital Foundation Research Rounds, February 1998.

Kuala Lumpur, Office of the Minister of Education, Datuk Seri Najib Tun Razak, Malaysia, September 1997.

Kuala Lumpur, Office of Vice Chancellor, University of Malaysia, September 1997.

Scarborough Campus, University of Toronto, *Writing Across the Lines. Teaching with Technology*, March 1997.

Vienna, Austrian Parliament, February 1997.

Vienna, Technische Universität, February 1997.

Munich, Hilton Hotel, IDRC Pre-Conference "Communications for Development" prior to the Annual Conference of the IIC, October 1996.

Toronto, Regal Constellation Hotel, Technology Showcase at Annual General Meeting, Information Technology Research Centre, October 1996.

Milan, Politecnico, DISET, Beni Culturali. Reti Multimediali, September 1996.

Ottawa, Schoolnet and Virtual Products, Industry Canada, August 1996.

Florence, Mediartech Exhibition, Fortezza da Basso, June 1996.

Gallagher Estate, ISAD Conference and Exhibition, Section four (Navigation) of G7 Pilot Project 5: Multimedia Access to World Cultural Heritage, Midrand, May 1996.

Santa Sabina, Presentation to the Master of the Dominican Order and members of the Order's Internet Committee, Rome, May 1996.

Toronto, Forest Hill Collegiate, Presentation to Metro Toronto Computer Studies Teachers and New Technology in Education Committee Members, April 1996.

Toronto, Leaside Secondary School, Presentation to 40 Teachers, March 1996.

Toronto, Knowledge Media Design Institute, Biomedical Communications, University of Toronto, February 1996.

Toronto, Brother Edmund Rice Secondary School, February 1996.

Toronto, Interactive '96, Sheraton Hotel, February 1996.

Kingston, Queen's University, Department of Art History, February 1996.

Morristown, N. J., Bell Labs, AT&T, January 1996.

Vienna, ACTS (DG XIIIb), National Hosts Conference Programme, November 1995.

Toronto, Netcon '95, Metro Convention Centre, October 1995.

Ottawa, Carleton University, Members of the Canadian Conservation Institute, October 1995.

Ottawa, Bell Northern Research Centre, July 1995.

Ottawa, Schoolnet, June 1995.

Toronto, Canadian Hydrographic Service, June 1995.

Halifax, G7 Summit, June 1995.

Toronto, Metro Convention Centre, Multimedia 95, June 1995.

Brussels, Advanced Communications and Telecommunications Services (ACTS) Research Seminar, Brussels, February 1995.

Brussels, Canadian representative at the Exhibition in connection with the G7 Summit on the Information Society, February 1995.

Ottawa, Canada Council, February 1995.

Toronto, Library Association of the University of Toronto, Robarts Library, February 1995.

Toronto, Council of Ontario Universities, Seminar on: New Learning Technologies, Ryerson Polytechnic University, February 1995.

London, Ontario, EU ACTS Mission to Canada, University of Western Ontario, Research Park, December 1994.

Ottawa, Carleton University, Presentation to executive of OCRINET, November 1994.

Utrecht, EARLI/ECWC Writing Conferences, October 1994.

Mississauga, Hilton Hotel, Demonstration at the Information Technology Research Centre (ITRC) annual general meeting, October 1994.

Ottawa, Canadian Heritage Information Network, Five lectures to government officials including the Secretary of State for Science and Technology and executives of CANARIE, September 1994.

Toronto, Sky Dome, Stand in conjunction with Digital Renaissance as guests of Interactive Media Inc., Comdex 1994, Toronto, July 1994.

MEMBERSHIP in SCIENTIFIC COMMITTEES

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|-----------|---|----------------|
| 2004 | Board: (AIS SIGSEMIS) Association for Information Systems Special Interest Group, Semantic Web and Information Systems http://www.sigsemis.org/sig/boardMembers/document_view | Athens |
| 2002 | Congresso Internacional Culturtec | Madrid |
| 2001 | Convegno Internazionale, Imago Urbis | Bologna |
| 2000-2003 | Comitato scientifico CRIBECU (Centro di Ricerche Informatiche per I Beni Culturali) Pisa | |
| 2000 | Congresso Internacional Culturtec Scientific Advisory Council ISKO (International Society of Knowledge Organization) http://index.bonn.iz-soz.de/~sigel/ISKO/ScientificAdvisoryCouncil.html | Madrid Bonn |
| 2000-2004 | Conseil Scientifique ARENOTECH (ARt Education NOouvelles TECHnologies) Paris http://www.arenotech.org/arenotech_indice.htm | |

OTHER ACTIVITIES AND ASSOCIATIONS

President, SUMS Corporation
c/o Ontario Library Association
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|-----------|---|--|
| 2007 | 20 Minute Interview on Nepal National Television: Developments in Internet and Culture, Kathmandu, 3 November 3007. | |
| 2002-2003 | Member of Thinktank (Deenkdoos) for the Town of Heerlen. | |
| 1998 | Scientific Committee: International Society for Knowledge Organization Schoolnet: Metadata Consultation | |

- 1997 Scientific Committee: "Digital Access to Cultural Heritage," under the auspices of Prince Liechtenstein, Vienna.
- 1996 Strategic Facilitation Team for Canadian Institute for Scientific and Technological Information
 Industry Canada (Think Tank) Committee on future Policy for Libraries and Museums
 Observer on behalf of the European Commission at: Programmi dell'Unione Europea sulle tecnologie dell'informazione e delle comunicazioni per i beni culturali, Florence, February
 International Who's Who of Professionals
- 1995 Scientific Director of an ACTS proposal submitted by the Pegasus Foundation
- 1994 Scientific Committee of a world conference on Art and Mathematics organized by Michele Emmer
 Sheridan College, Multimedia Communication Analyst Committee
 ROM Many Cultures Advisory Council
 8 minute appearance in 2hour television documentary on the Information Highway by VPRO:
<http://www.vpro.nl/programma/hollanddoc/artikelen/28255775/>
- 1993 Toronto Board of Education, Science Forum Committee
 Working Group: Distance Education with Advanced Technologies: Four Motors, Ontario, Wales
- 1990-1993 Board of Directors, McLuhan Program
- 1990-1991 Committee on childrens' education at Owl Television re: Getty Center for Education in the Arts
- 1979-1983 Co-Chairman, Wolfenbüttel Conversations, Wolfenbüttel
- 1975-1979 Member, Osler Club, London
- 1973-1977 Member, Canada Club, London
 Member, Canada U. K. Chamber of Commerce, London
 President, Canadian Universities Society of Great Britain, London
 Trustee, Canada Scholarship, Peterhouse, Cambridge
 Trustee, Canadian Centennial Scholarship, London
- 1971-1977 Member, Royal Commonwealth Society
- 1971 Organiser (No. 2), Renaissance '71, University of Toronto, (first nation-wide festival of student culture with 12 symphonies, 2 operas, 8 plays, c. 600 paintings, 500 photographs)
- 1970 Chairman, Conference on French Canada, York University, broadcast across Canada on CBC
- 1969 Chairman, Conference on French Canada, York University, broadcast across Canada on CBC
- 1968-1969 Co-Chairman, Music Concert Series, York University, (2 concerts per week in term-time)
- 1968 Coordinator, Expo Seminar Series for CBC with Harry J. Boyle and Dita Vadron
- 1967-1969 Chairman, Cultural Affairs Committee, Vanier College, York University
 Chairman, Music Appreciation Club, York University.