

Curriculum Vitae
MICHAEL DOUGLAS BUSH

PERSONAL DATA

Name and Title: Dr. Michael Bush, Associate Professor of French and Instructional Psychology & Technology
Address: 3086-C JFSB
Brigham Young University
Provo, UT 84602
Telephone: (801) 224-8881(H) (801) 422-4515 (O)
Hobbies: Skiing, swimming, sailing, using and programming microcomputers, and playing keyboard instruments.

EDUCATION

PhD Foreign Language Education and Computer Science, The Ohio State University, 1983.
MBA Quantitative Methods and Computer Science, University of Missouri, 1976.
BA Political Science, Brigham Young University, 1972.
Other Studies Aerospace Engineering, Auburn University, 1964-1966, 1969.

LANGUAGE SKILLS Fluent in French

OTHER Missionary to France, The Church of Jesus Christ of Latter-day Saints, 1966-1968.

PROGRAMMING EXPERIENCE

HTML, IconAuthor, dBase III, PASCAL, PL/1, SPSS, FORTRAN, Framework, BASIC, COBOL, IBM TSO, IBM JCL, and TI 9900 Assembly Language.

PROFESSIONAL AFFILIATIONS

American Council on the Teaching of Foreign Languages (ACTFL), Computer-Assisted Language Learning and Instruction Consortium (CALICO) (Executive Board Member 1992 to 1995), and Phi Delta Kappa Professional Education Fraternity.

AWARDS

2013: Creative Works Award, Brigham Young University
2002: Sponsored Research Achievement Award, Recognition for Excellence in Sponsored Research, Brigham Young University
1999: ACTFL/FDP-Houghton Mifflin Annual Award for Excellence in Foreign Language Instruction Using Technology (with the International Association of Language Laboratories)

MILITARY DECORATIONS

1992: First Oak Leaf Cluster to the Air Force Meritorious Service Medal
1986: Defense Meritorious Service Medal
1984: Air Force Meritorious Service Medal
1983: Air Force Special Achievement Medal
1976: Air Force Commendation Medal

WORK EXPERIENCE

2003-Present: Associate Director of the Center for Language Studies, Director of the ARCLITE Lab, Center for Language Studies, Associate Professor of French and Instructional Psychology and Technology, Brigham Young University, Provo, Utah (BYU).

- Direct student mentored projects in the area of applying technology to curriculum development for language learning and technology in education.
- Conduct research in the application of technology to education.
- Serve on Joint Advisory Committee for the Missionary Training Center and the BYU College of Humanities.

1992-2003: Associate Professor of French and Instructional Psychology and Technology, Brigham Young University, Provo, Utah (BYU).

- Direct and teach courses in language and language education.
- Conduct research in the application of technology to education.
- Teach courses in Business French.
- Serve on Joint Advisory Committee for the Missionary Training Center and the BYU College of Humanities.

1992-1995: Associate Professor of French and Instructional Science, Brigham Young University, Provo, Utah (BYU).

- Served on the Executive Board of the Computer-Assisted Language Learning and Instruction Consortium (CALICO).

1991-1992: Tenure Professor of French and Chief, Learning Technology Division, Department of Foreign Languages; United States Air Force Academy; Colorado Springs, Colorado (USAFA).

- Directed the activities of a world-unique, language learning facility. Responsibilities included the operations, programming, interactive materials development efforts, as well as new systems acquisition.
- Developed strategies for technology transfer in cooperative research and development projects between the Federal and private sectors.
- Served on the Executive Board of the Computer-Assisted Language Learning and Instruction Consortium (CALICO).
- Managed visitor protocol and other logistics issues at the Paris Air Show for the Office of Defense Cooperation; American Embassy; Paris, France; May-June, 1991. Served as guide to the US National Pavilion for President François Mitterand of France as well as official translator for President Mitterand and the Commander in Chief of US Air Forces in Europe.

1989-1991: Tenure Professor of French and Deputy for Research, Department of Foreign Languages, USAFA.

- Played major role in formulating highly successful, intensive, summer language camp for high school students. Academic program involved developing software as well as teacher strategies for modifying the classroom experience through the integration of learning center-based interactive videodisc technology.

- Served on the Management Board of the Computer-Assisted Language Learning and Instruction Consortium (CALICO).
- Conducted research for the Aeronautical Systems Division of the Air Force Systems Command (ASD) on cost-effective means to produce interactive training materials. Worked with large text databases, videodisc, CD-ROM, and CD-ROM XA. (PASCAL, IconAuthor, and dBase III)
- Acquired significant additional funding from other DOD agencies to broaden and to increase the impact of research being conducted for ASD.
- Developed a strategic plan for future technology implementation in the Department of Foreign Languages.
- Developed and taught graduate course on technology in foreign language education for the University of Colorado at Colorado Springs.
- Managed visitor protocol at the Paris Air Show for the Office of Defense Cooperation; American Embassy; Paris, France; May-June, 1989. Arranged meetings between the Commander, Air Force Systems Command and officials of the Soviet Ministry of Aviation.
- Chaired the Academy's Tenure Faculty Working Group on Technology in Education.

1986-1989: Tenure Associate Professor of French and Deputy for Research, Department of Foreign Languages, USAFA.

- Developed innovative and cost-effective techniques that have significantly reduced interactive training materials development time. Software design has been implemented for materials development in areas outside of the Academy, resulting in considerable cost-savings over conventional methods. (IconAuthor)
- Directed cooperative research and development efforts with Yale University, University of Pennsylvania, and the University of Georgia.
- Acquired significant research funding from Air Force and DOD sources.
- Conducted research on interactive training authoring systems for the Human Systems Division of the Air Force Systems Command. Investigated the effects on authoring productivity of graphical user interfaces in development and delivery systems.

1984-1986: Special Assistant to the Director; NATO Advisory Group for Aerospace Research and Development (NATO AGARD); Paris, France.

- Developed and programmed a unique microcomputer-based budget and accounting system that NATO auditors called a "model for other organizations to copy." (dBase III)
- Revised all NATO-AGARD organizational methods for the implementation of word and data processing systems.
- Programmed software for organization budget preparation in accordance with NATO budget directives. (Framework)
- Prepared a Five-Year ADP Plan for NATO-AGARD.

1981-1984: Assistant Professor of French and Director of Research, USAFA.

- Conducted research on the uses of interactive video in education and training.
- Served on committee that initiated requirement for each cadet to own a microcomputer. Five thousand microcomputers have since been installed at USAFA.
- Produced USAFA's first videodisc.

- Developed USAFA's first operational interactive video instruction.
- Collaborated on research with Texas Instruments on interactive video instruction development.

1980-1981: Instructor of French and Research Coordinator, USAFA.

- Formulated initial plans for the development of the Air Force Academy's unique interactive videodisc laboratory.
- Was instrumental in the creation in the Technology in Training and Education Conference (TITE) that has been continued to the present by the Department of Defense.
- Taught Basic Course in Computer Science.

1976-1978: Instructor of French, USAFA.

- Wrote the Academy's first proposal and justification for the acquisition of computers for computer-based instruction.
- Wrote the Academy's first general departmental request and justification for word processing support.
- Developed programs for examination scoring and processing. (PL/1 and COBOL)
- Conducted research using linear regression techniques on factors for improving advanced placement of language students. (SPSS)

1972-1976: Missile Launch Officer, Strategic Air Command; Whiteman AFB, Missouri.

- Developed a computerized combat crew scheduling system that became the model for the Strategic Air Command (SAC). (FORTRAN)
- Served on a Wing Standardization Crew responsible for verifying missile combat crew capabilities in Minuteman missile system operations, nuclear weapons system safety rules, and emergency war order execution.
- Served as Deputy Missile Combat Crew Commander. When on alert was responsible for security, nuclear weapon systems safety rules, and missile alert verification for ten nuclear-armed Minuteman missiles.
- As a Graduate Assistant in the Minuteman Education Program of the University of Missouri, developed a plan for improving local campus computer support using a state of the art, remote batch terminal and dedicated telecommunications lines.

1971: Group Leader to France; The Experiment in International Living; Putney, Vermont.

- Served as camp counselor and group leader for high school students learning French and escorted them for a homestay in France.

1971-1972: Research Assistant; Department of Political Science; Brigham Young University, Provo, Utah.

- Developed software for analyzing voting in the United Nations General Assembly. (FORTRAN)

1970: Group Leader to French Canada; The Experiment in International Living; Putney, Vermont.

- Served as camp counselor and group leader for high school students learning French and escorted them for a homestay in Quebec.

1970: Research Assistant; Department of Mechanical Engineering; Brigham Young University, Provo, Utah.

- Developed data conversion and analysis techniques studying high speed fluid flow.

1964-1966, 1969: Research Assistant; Department of Aerospace Engineering; Auburn University; Auburn, Alabama.

- Operated machine tools (lathe, milling machine, etc.) and performed electrical installations.
- Designed and supervised construction of a high current, variable voltage, power supply for an ion-drive engine (arc-jet) for research on NASA contracts.
- Designed and constructed a quick-cool refrigeration system for high velocity shock tube.

PUBLICATIONS AND PRESENTATIONS

BOOKS

Edited the 1996 volume in ACTFL's Foreign Language Education Series: *Technology-Enhanced Language Learning*, with Robert M. Terry, Associate Editor. Lincolnwood, IL: National Textbook Company, 1996.

Edited a CALICO Monograph: *Interactive Videodisc: The Why and the How*, with Alice Slaton, Miguel Verano and Martha Slayden. Volume 2 CALICO Monograph Series, Spring, 1991.

PUBLICATIONS (Peer-Reviewed)

(2014) Repetition in language learning: avoiding collateral damage, *LACUS Forum 37*. With Alan Melby and Annie Lewis.

(2013) An alternate reality experience for language learning: a design-based evaluation, *CALICO Monograph Series*. With Meg Sorensen.

(2010). Born in Zanzibar, computerized in Provo, Utah: A systematic instructional design approach for Swahili CALL, *CALICO Journal*, 27(3), 505-516, 2010.

(2008). Computer-Assisted Language Learning: From Vision to Reality?" *CALICO Journal*, 25(3), 443-470.

(2007). Facilitating the integration of culture and vocabulary learning: The categorization and use of pictures in the classroom, *Foreign Language Annals*, 40(4), 727-745.

(2006) A template for development of special purpose language courses, *Journal of Language for International Business*, 17:2; 82-104. With Danny Damron and Julie Damron.

(2004). Teaching Arabic with technology at BYU: Learning from the past to bridge to the future, *CALICO Journal*, 21(3), 497-522. With Jeremy Browne.

(2000). Digital Versatile Disc (DVD): The new medium for interactive video, *CALICO Journal*, 17(3), 453-474.

(1996). Implementing technology for language learning, pp. 287 - 349 in *Technology-Enhanced Language Learning*, Lincolnwood, IL: National Textbook Company.

(1996). Language learning via the Web, *CALICO '96 Symposium Proceedings*, Albuquerque, NM, 66-72, 30 May.

(1992, Spring). Hardware for language learning: coping with confusion, *Applied Language Learning*, 2(2). Article based on an invited presentation at the conference entitled "Improving Foreign Language Teaching through Technology," held at Defense Language Institute Foreign Language Center, Monterey, CA, 29 October.

- (1991). From interactive videodisc to CD-XXX: The future, pp. 111-117 in *Interactive Videodisc: The Why and the How*, Volume 2 CALICO Monograph Series, Spring 1991.
- (1988). De l'E.A.O. à l'E.A.V.O. des langues étrangères à l'école de l'air américaine, *Nouvelles Technologies et Apprentissage des Langues, Special issue of Le Français dans Le Monde*, August-September 1988.
- (1988). Interactive videodisc in foreign language education, with Jill Crotty in *Modern Technology in Foreign Language Education: Applications and Projects*, The ACTFL Foreign Language Education Series, National Textbook Company.
- (1983). Klavier im haus -- An interactive video experiment in foreign language instruction, with David M. Schrupp and Gunther A. Mueller, *CALICO Journal*, 1(2), 17-21.

PUBLICATIONS (Editorially-Reviewed)

- (2016, January-February). Importance and Implementation of Learning Analytics. *Educational Technology*, 48(1), 48-50.
- (2015, November-December). Learning Analytics and Educational Research. *Educational Technology*, 55(6), 62-63.
- (2015, July-August). Fads and Prejudices Hide Potential Points of Inflection. *Educational Technology*, 55(4), 60-63.
- (2015, January-February). Lessons from the Past for the Next Generation of Educational Video. *Educational Technology*, 55(1), 33-38.
- (2014, January-February). Educational technology points of inflection: Educational video on the S-Curve of video technology development, *Educational Technology*, 53(1), 57-61.
- (2013, November-December). Educational technology points of inflection: What MOOCs, Flipped Classrooms, and OLPC teach us about individualization of learning, *Educational Technology*, 53(6), 60-63.
- (2013, May-June). Educational technology points of inflection: Individualization in learning: A key point of inflection, *Educational Technology*, 53(3).
- (2013, January-February). Educational technology points of inflection: Getting to where we are and need to be with educational technology, *Educational Technology*, 53(1), 61-63.
- (2012, November-December). Educational technology as a means for connecting improved learning outcomes and scholarly communications, *Educational Technology*, 52(6), 26-30.
- (2011, September-October). E-learning standards: SCORM and the future of interoperability, *Educational Technology*, 51(2), 20-24. With Edward C. T. Walker and Alexander N. Sorensen.
- (2009, March-April). The transformation of learning with technology: learner-centricity, content and tool malleability, and network effects, *Educational Technology*, 49(2), 3-20. With Jonathan D. Mott.
- (2004, July-August). Customized video playback: standards for content description, customization, and personalization, *Educational Technology*, 44(4), 5-13. With Alan K Melby, Thor A Anderson, Jeremy M Browne, Merrill Hansen, and Ryan Corradini.
- (2002, November-December). Connecting instructional design to international standards for content reusability, *Educational Technology*, 42(6), 5-13.
- (1999). Streaming video: The ultimate response to consumers' individual tastes, White Paper commissioned by the *Multimedia Monitor*, an industry newsletter of Phillips Business Information, Inc., July.
- (1998, March). Milia 98, *Multimedia Monitor*, XVI:3, 16-18.
- (1997, November.). Of heroes and villains in the Information Age: An update, *15*(11), 22-23

- (1997, September). The DVD-ROM Initiative of the Software Publishers' Association, *Multimedia Monitor*, 15(9), 22-23.
- (1997, March). Milia 97: International Publishing and New Media Market Conference, *Multimedia Monitor*, 15(3), 22-25.
- (1997, January). Fear & loathing in cyberspace--Part 3: Sorting out the bad guys in the Information Age, *Multimedia Monitor*, 15(1), 24-26.
- (1996). Fear & Loathing in cyberspace--Part 2: Sorting out the bad guys in the Information Age, *Multimedia Monitor*, 14(12), 22-25, December.
- (1996, November). Fear & loathing in cyberspace--Part 1: Of heroes and villains in the Information Age, *Multimedia Monitor*, 14(11), 20-25.
- (1996, March). Milia 96: International Publishing and New Media Market Conference, *Multimedia Monitor*, 14(3), 16-24.
- (1996, February). World Wide Web technology: What's hot and what's not, *Multimedia Monitor*, 14(2).
- (1994, September). Against the functionality ceiling, *Learning on Demand*, A Jupiter Communications Publication.
- (1992, June). Reflections on multimedia development and delivery systems: hardware, software, and politics, *Videodisc Monitor*, 10(6), 22-26.
- (1989, November). Will the interactive videodisc industry do Windows?, *Videodisc Monitor*, 7(11), 27-29.
- (1988, March). High resolution graphics and interactive video: mixing oil and water, *Videodisc Monitor*, 6(3), 26-27.
- (1987, March-April). Compte-rendu de la Deuxième conférence 'Microsoft' sur le CD-ROM, *Mémoires Optiques*, 51-52.
- (1987, January). The need for strategic alliances, *Videodisc Monitor*, 5(1), 22.
- (1986, March). La Première Conférence Internationale sur le CD-ROM Organisée par Microsoft, *Mémoires Optiques*, 39.

PUBLICATIONS (Invited)

- (2013). Technology and language: Otto, Frank", *The Encyclopedia of Applied Linguistics*, USA/Australia/Singapore/Germany/UK: John A Wiley & Sons.
- (2007, September). The knowledge economy, SCORM, and design-based research. *ADL Newsletter for Educators and Educational Researchers*.

CREATIVE WORKS

- Ayamel.byu.edu: International Media Library Website. Developed with the American Council for International Education.
- Arabic Encounters. Video interviews for Advanced Arabic. Developed with the National Middle East Language Resource Center and the University of California Consortium for Language Learning and Teaching.
- Illuminating Your Life: Illustrated Manuscripts and Illustrated Journals. Video short for College of Humanities Web page.
- Spotlight on Teaching: Phil Snyder. Video short for College of Humanities Web page.
- Lighting the Windows of Antiquity. Video short for Visitor's Center Hinckley Building.
- Spotlight on Teaching: Greg Stallings. Video short for College of Humanities Web page.
- Spotlight on Teaching: Kristin Matthews. Video short for College of Humanities Web page.

Arabic Without Walls. Website developed with the National Middle East Language Resource Center and the University of California Consortium for Language Learning and Teaching.

Online Swahili Course Support Materials. Materials have been used by students at 6 universities around the country. BYU Mentoring Environment Grant.

Regasire. Movie developed for teaching Basic Romanian.

French Language and Culture through the Music of Yves Duteil, Hybrid CD-Audio and CD-ROM Distributed through BYU Creative Works.

French at the Winter Olympics, CD-ROM Sponsored by the French Ministry of Foreign Affairs for use by 5,500 volunteers at the 2002 Winter Olympics in Salt Lake City, UT. Distributed through BYU Creative Works.

DVD version of Italian movie *C'eravamo tanto amati*. DVD disc has been published and is available from Amazon.com. September, 1999.

PUBLICATIONS

(2004) *Developing an Infrastructure for Technology-Enhanced Language Instruction in Critical Languages*. Final Report, 1 Mar 2003—30 June 2004, NSEP Grant #DASW01-01-1-0001, 1 September 2004.

(1991) *Interactive Multimedia for Training and Documentation*. Phase I Final Report on Research for Mark XV Program Office, (\$175,000 project), Air Force Systems Command, US Air Force Academy, CO, January, 1991.

(1990) *Pre-Deployment Survival Arabic Project*, with Arana J. Greenberg, Charles Robertson, A. Allen Rowe, and Rebecca Theiss. Final Report for Third US Army Project (\$104,000 project), US Air Force Academy, CO, December, 1990.

(1989). The Need for a Paradigm Shift in Technology-Assisted Language Learning, Based on the banquet address given at the 1989 CALICO Symposium, US Air Force Academy, CO, 31 March 1989, *CALICO Journal*, 7(3)..

A Review of an Authoring System for the TI 99-4 Computer, *99'er Magazine*, 1982.

An Automated Missile Operations Management System, 351st Strategic Missile Wing, Whiteman AFB, MO, June 1975.

INVITED PRESENTATIONS

Video for Language Acquisition: Prejudices, Benefits, and Principles. Keynote Presentation in the Special Session at the Kentucky Foreign Language Conference, 19 April 2013.

Computer-aided language learning: Failed hopes, bright future, or both?, Presentation for College of Humanities Faculty, University of Victoria, Victoria, British Columbia, Canada, 25 October 2006.

From Teaching to Learning: Does technology have a role to play in education reform?, *Lansdowne Lecture*, University of Victoria, Victoria, British Columbia, Canada, 24 October 2006.

Video for language learning: Progress at BYU's Center for Language Studies, US Air Force Academy, CO, 25 October 2004.

CVP - the future road for DVD in education?, with Alan Melby. DVD Summit IV, Dublin, Ireland, 25 March 2002.

Teaching French with *Chocolat*, with Alan Melby. DVD Summit IV, Dublin, Ireland, 25 March 2002.

(2000) Internet and foreign/second language instruction, Panel for McGraw-Hill's 6th Annual Teleconference, 18 October 2000.

(2000) Making instructional DVDs, DVD Pro Conference, Santa Barbara, CA, August, 2000.

DVD Summit 1999

- (1998) From videodisc to DVD, *DVD and CBT: DVD's Impact on Training*, Panel at DVDPro Conference, Santa Barbara, CA, 1 September 1998.
- (1998) Technology-enhanced language learning: Techniques for the classroom, US Air Force Academy, CO, 31 March 1998.
- (1990) Hardware for language learning: Coping with confusion, *Improving Foreign Language Teaching through Technology*, Conference at Defense Language Institute Foreign Language, Center Monterey, CA, 29 October 1990.
- (1990) Technology in education in the information age, Metropolitan State College 1990 Leadership Conference for Quality Undergraduate Education, Colorado Springs, CO, 8 June 1990.
- (1990) Creating learner interactions, Duke University, Durham, NC, 26 March 1990.
- (1989) Technology in foreign language education, VISTAS: Language Learning in the Age of Technology, Seminar for Language Faculty, University of Colorado, Boulder, CO, 4 October 1989.
- (1989) An introduction to CD-ROM technology, Seminar for Infotec Development, Inc, US Air Force Academy, CO, 26 September 1989
- (1989) Using technology to facilitate language acquisition, The University of Pennsylvania, Philadelphia, PA, 26 April 1989.
- (1989) Interactive videodisc at the US Air Force Academy, Educational Testing Service, Princeton, NJ, 25 April 1989.
- (1989) The need for a paradigm shift in technology-assisted language learning, Banquet Address, CALICO 89 Symposium, US Air Force Academy, CO, 31 March 1989.
- (1989) What is your job?, Dow Chemical North American Training Managers Conference, Keystone, CO, 6 March 1989.
- (1988) Interactive videodisc in the Air Force and at the Air Force Academy, 14th Annual Conference on Interactive Applications of Videodisc and CD-ROM of the Institute for Graphic Communication, Monterey, CA, 3 August 1988.
- (1987) Keynote Address, Air Force Conference on Technology in Training and Education, Colorado Springs, CO, 16 March 1987.
- (1983) Interactive videodisc in language learning, The Ohio State University, February 1983.
- (1983) Interactive videodisc in language learning, University of Kansas, 7 March 1983.

PAPERS PRESENTED

The Effect of Various Word Treatments on Chinese and Russian Vocabulary Acquisition during Multimedia Language Learning, CALICO 2014 Symposium, Athens, OH, 9 May 2014, with Jeongwoon Erin Kim, Brigham Young University and Elizabeth Todd, Brigham Young University.

Interactive Video: A Relic of the Past or Promise for the Future?, CALICO 2014 Symposium, Athens, OH, 8 May 2014, Christopher Jones, Carnegie Mellon; University; Jeff Magoto, University of Oregon; and Karen Price, Boston University.

Design-based Research in CALL, CALICO 2013 Symposium, University of Hawaii at Manoa, 25 May 2013, with Debra Hoven, Athabasca University; Julio Rodriguez University of Hawai'i at Mānoa; Cristina Pardo-Ballester, Iowa State University; Agnieszka (Aga) Palalas, George Brown College; Mike Levy, The University of Queensland; and Patricia Martinez-Alvarez, Teachers College, Columbia University.

LTLT Panel: Providing authentic input in online/blended learning, CALICO 2013 Symposium, University of Hawai'i at Mānoa 23 May 2013, with Phil Hubbard of Stanford and Lathrop Johnson of Ball State University.

Computer mediated communication meets social media, CALICO 2012 Symposium, South Bend, IN, 16 June 2012.

The Flagship Media Library: Promoting the use of authentic media in foreign language learning, CALICO 2011 Symposium, Victoria, B.C, Canada, 20 May 2011, with Ken Petersen, American Councils for International Education.

Building and Leveraging Malleable Tools, CALICO 2011 Symposium, Victoria, B.C, Canada, 19 May 2011, with Sue Otto, University of Iowa; Ken Petersen, American Councils for International Education; and Evan Villemez, American Councils for International Education.

Arabic without Walls: A platform for teaching and learning about learning, CALICO 2010 Symposium, Amherst, MA, 11 June 2010.

Priming the language pump with sounds, images, and text, CALICO 2009 Symposium, Tempe, AZ, 13 March 2009.

eLearning standards and design-based research, CALICO 2008 Symposium, San Francisco, CA, 2 June 2008.

Managing online learning for improved student learning outcomes, UNTELE 2007 Conference (Usages des Nouvelles Technologies dans l'Enseignement des Langues Etrangères), Compiègne, France, 30 March 2007.

A practical approach to classroom use of culturally authentic images, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Nashville, TN, 18 November 2006.

Content data models, learning management systems, and instructional design patterns, CALICO 2006 Symposium, Honolulu, HI, 2 June 2006.

Student videos in foreign language learning, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Baltimore, MD, 18 November 2005. CALICO Session with Jack Burston.

Collaborative storytelling projects: Creating context and opportunities to communicate, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Chicago, IL, 21 November 2004. Co-presenter: Robert Erickson.

DVD and CALL, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Chicago, IL, 21 November 2004. CALICO Session with De Bao Xu.

A blueprint for syllabus development in advanced language courses, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Philadelphia, PA, 22 November 2003. Co-presenters: Chantal Thompson and Robert Erickson.

Online tutoring – connecting learners to peoples and cultures, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Salt Lake City, UT, 23 November 2002. Co-presenters: Jeremy Browne and Leslie Ricks.

Using film to broaden the cultural and linguistic horizons of grammar teaching, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Salt Lake City, UT, 23 November 2002. Co-presenters: Chantal Thompson and Robert Erickson.

Les enfants du marais: Using films for language learning. (Including DVD technology) with Jeremy Browne, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Salt Lake City, UT, 23 November 2002.

Movies for language learning: DVD and materials development, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Washington, 18 November 2001.

Analyzing subtitles for language learning, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Boston, MA, 18 November 2000.

DVD for language learning, CALICO 2000 Symposium, Tucson, AZ, 2 June 2000.

Emerging technologies in foreign language teaching: DVD, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Dallas, TX, 20 November 1999.

Film and foreign-language instruction in the French classroom, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Dallas, TX, 19 November 1999.

Interactive movies on DVD, CALICO '99 Symposium, Oxford, OH, 4 June 1999. Prepared a video that was presented by graduate research assistant at the conference.

Images, culture, and memory representation: Integrative techniques for teaching, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Chicago, IL, 21 November 1998.

Accessing sound from a spoken corpus of German: A feasibility study, poster session with Randall L. Jones, Teaching and Language Corpora 98 (TALC98), Keble College, University of Oxford, Oxford, England, 24-27 July 1998.

DVD for language learning, CALICO '98 Symposium, San Diego, CA, 9 July 1998.

Images in the classroom, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Nashville, TN, November 1997.

Technology for supporting classroom teaching, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Philadelphia, PA, November 1996.

Language learning via the Web, CALICO '96 Symposium, Middlebury, VT, 30 June 1996.

Multimedia technology and language learning, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Anaheim, CA, 18 November 1995.

Assessing linguistic competence and cultural understanding: A computerized hybrid measurement instrument, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Anaheim, CA, 20 November 1995. Co-presenter: Robert Erickson.

Getting multimedia into the classroom, CALICO '95 Symposium, Middlebury, VT, 21 June 1995.

Storytelling and new technologies: New ways to learn languages, ITC '95: Multimedia and Language Learning Conference, Paris, France, 10 January 1995.

Teaching with video in the classroom, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), Atlanta, GA, 18 November 1994.

Storytelling and new technologies: New ways to learn languages, CALICO '94 Symposium, Flagstaff, AZ, 16 March 1994.

An interactive movie for language maintenance, Multimedia and Language Training: XIIIth Multimedia and CBT Conference, Paris France, 13 January 1994.

Getting started with interactive multimedia, Annual Conference of the American Council on the Teaching of Foreign Languages (ACTFL), San Antonio, TX, 20 November 1993.

Interactive technologies for language learning in higher education, with Gunther A. Mueller, CALICO 1993 International Symposium, Budapest, Hungary, 4 August 1993.

Interactive movies: A non-didactic approach to foreign language skill maintenance, with Stanley Bishop, CALICO 1993 International Symposium, Budapest, Hungary, 5 August 1993.

Large-scale databases and cost-effective interactive materials development, CALICO '93 Symposium, Williamsburg, VA, 12 March 1993.

A computer in the CD drive or a CD drive in the computer?, CALICO '92 Outreach Symposium, Monterey, CA, 27 February 1992.

Creating a productive environment for multimedia development: Organizational concepts, with Mary Marlino, SALT 13th Annual Conference: Interactive Videodisc in Education and Training, Washington, D.C., 22 August 1991.

Multimedia: A technology update, CALICO '91 Symposium, Atlanta, GA, 5 April 1991.

Multimedia and Accelerated Language Learning, CALICO '91 Symposium, Atlanta, GA, 4 April 1991.

Videodisc and CD-ROM XA: a perfect match for a happy marriage, CALICO '90 Symposium, Baltimore, MD, 22 March 1990.

Videodisc and CD-ROM XA: A migration path to all-digital delivery, The Eighth Annual Conference on Technology and Innovations in Training and Education, Colorado Springs, CO, 16 March 1990.

Cost-effective interactive videodisc courseware development: Separating structure from content, Conference of the Association for the Development of Computer-Based Instructional Systems (ADCIS), Washington, D. C, 12-16 November 1989.

Education and Ecstasy: George B. Leonard's vision 20 years later, NEXUS '89: A Conference on Science Fact and Science Fiction, US Air Force Academy, CO, 28 April 1989.

Report on progress toward the development of the interactive phase of *French in Action*, with Pierre Capretz, CALICO '89 Symposium, US Air Force Academy, CO, 30 March 1989.

Development of interactive videodisc materials in Russian, with George Egan, CALICO '89 Symposium, US Air Force Academy, CO, 30 March 1989.

Cost-effective interactive videodisc courseware design, SALT 10th Annual Conference: Interactive Videodisc in Education and Training, Washington, D.C, 26 August 1988.

Authoring productivity for interactive videodisc, CALICO '88: Fifth Annual International Symposium, Salt Lake City, UT, 25 February 1988.

Symbolic authoring languages and authoring productivity, Optical Information Systems '87. New York, 1 December 1987.

Videodisc today. CD-ROM tomorrow?, Air Force Conference on Technology in Training and Education, Colorado Springs, CO, 20 March 1987.

CD-ROM in foreign language education, CALICO '87: Sixth Annual International Symposium, Monterey, CA, April 1987

Putting high technology to work in education, Air Force Conference on Technology in Training and Education, Montgomery, AL, 13 March 1986.

Developing a pedagogy for implementing interactive videodiscs in second-language instruction, Man and the Media: International AILA Symposium on Research Tendencies in the Teaching of Foreign Languages with Technical Aids, Frankfurt, Germany, 13 June 1984.

CAI in foreign language instruction, National Educational Computing Conference '83, Baltimore, MD, 6 June 1983.

High technology and fluent thinking, Air Force Conference on Technology in Training and Education, US Air Force Academy, CO, 26 April 1983.

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Consulting and programming in software development for interactive multimedia applications for English as a Second Language, HRB Systems, April 1997 - March 1999.

Consulted with company editors and organized technology focus group, Houghton Mifflin Publishing, October-November, 1994.

Technical Consultant on the Fernstudienbriefe (Distance Learning) Project. Goethe Institute and the American Association of Teachers of German. November 1993 - November 1994.

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Air Force Advanced Instructional Design Advisor (AIDA) Project, Human Resources Laboratory; Brooks AFB, TX, 1989-1991.

CD-ROM in System Documentation and Training; US Air Force Systems Command-Aeronautical Systems Division, Mark XV Program, US Air Force Academy, CO, 1988-1991.

Pre-Deployment Survival Arabic Project; Third US Army, US Air Force Academy, CO, 1988-1990.

Authoring System Specifications Research; US Air Force Systems Command-Human Systems Division, US Air Force Academy, CO, 1987-1988.

Computer Systems Analysis and Programming Support, NATO Advisory Group for Aerospace Research and Development; Paris, France, February and July, 1987.

Five Year Plan Development, Computer Project Team; District 20 Board of Education; Colorado Springs, CO, 1983-1984.

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