

## VITA

**Thomas M. Duffy**

### Address

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### Academic History

B.A., Psychology, Western Illinois University, 1965.  
M.A., Psychology, Cognitive, University of Illinois (Urbana) 1969  
Ph.D., Psychology, Cognitive, University of Illinois (Urbana) 1969

### Experience

#### 1988-present

**Professor/ Associate Professor, Instructional Systems Technology and Cognitive Science, Indiana University.** Teaching in the department includes Research Methods and seminars on Hypermedia and the Structure of Schooling, Distributed Learning over the Web, and Constructivism: Implications for Instructional Design. Research focus is on the design of learning environments and the use of technology (distributed education technologies in particular) as a tool to support learners.

#### 1999- 2001

**VP, Chief Learning Officer, Unext, LLC; Provost, Carden University.** UNext is an educational company, offering, high quality business courses over the internet to corporations for their employees. Quality comes through partnering with the leading universities in defining content, through defining a strong "learning by doing" approach in the courses, and through a high quality, yet accessible, multimedia interface. My responsibility as CLO was to develop, help implement, and evaluate the "learning by doing" framework for the courses. Cardean University is an accredited educational institution fully owned by Unext. As Provost I was responsible for academic policy.

#### 1998-1999

**Founding Director, Center for Research on Learning and Technology.** The CRLT has as its mission to promote and support a community of scholars dedicated to applied research on the design, use, and implementation of technology to improve learning. We had a full time staff of 11, 8 faculty affiliates, and approximately 10 half time graduate assistants. The Center operated on a base budget of \$300k and had approximately \$4 M in grants.

#### 1999

**Faculty Member, Western Governors University.** Member of the team designing the initial competency framework for the WGU master's degree program in Education and Technology.

**1995 (May-December)**

**Faculty-in-Residence and Senior Manager, Andersen Consulting Education, St. Charles Il. .**

**1983-1988**

**Director, Communications Design Center, Carnegie Mellon University.** The Center consisted of an interdisciplinary group from English, Psychology, Graphic Design, Linguistics, and Computer Science. Both research and applied projects were undertaken with the latter a means of providing practical experience for students in the professional writing and the design programs. Members of the CDC included 6 faculty, 1 support staff, and up to 24 students.

While I was director, funding from outside sources grew from approximately \$25k to over \$400k per year and from 2 to 10 contracts/grants. Contract support came from many sources including IBM, Texas Instruments, United States Steel, Allen-Bradley Corp, Apple Computer, and the U.S. Army. The Center subsequently won the Diana Award from the *Association of Computing Machinery, Special Interest Group on Documentation (ACM SIGDOC)*. The award was presented for the excellence in achievement from 1980 to 1990.

**1983-1988**

**Associate Professor of English and Psychology, Carnegie Mellon University.**

**1973-1983**

**Research Psychologist, Navy Personnel Research and Development Center.**

**1980-1981**

**Visiting Faculty, Institute of Educational Technology, Open University, UK.**

**1969-1973**

**Assistant Professor (tenured 1973), Department of Psychology, University of Manitoba.**

**Contracts and Grants (at Indiana University)**

**1995-2000**

**Symposium on Learner Centered Pedagogy in the Design and Delivery of Distributed Learning.** Fund for the Improvement of Postsecondary Education supplemental grant 2001. Symposium to be held in December 2001 (<http://ltts.org/symposium>).

**The Learning to Teach with Technology Studio.** Fund for the Improvement of Postsecondary Education. 1999-2004. <http://ltts.org> (Principal Investigator.)

**The Internet Learning Forum: Fostering and sustaining knowledge networking To support a community of science and mathematics teachers.** National Science

Foundation. 1999 – 2002. <http://ilf.crlt.indiana.edu> (Principal Investigator in initiation of work; S. Barab, D. Cunningham, and R. Kling Co- Principal Investigators.)

**The pedagogically based design of WWW conferencing tools.** Consortium of Big 10 Universities. March 1997 - March 1998. (Co-Principal investigator with D. Jonassen.)

**School to work transition: Reasoning in the world of work.** Proffitt Foundation (Indiana University.) 1996-1997. (Principal Investigator.)

**Assessing learning and supporting the teacher as coach: The Chelsea Bank simulation project.** Mellon Foundation, 1996-1998. (Co-Principal with Larry Mikulecky, Roger Farr, and Beth Green).

**Problem based learning: Instructional strategies and the role of technology.** DePaul University (Distance Education Office), July 1996. (Principal investigator).

**An analysis of cognitive, social, and literacy competencies: The Chelsea Bank simulation project..** Mellon Foundation, 1995-1996. (Co-Principal with Larry Mikulecky, Roger Farr, and Beth Green).

**Analysis of collaborative informal reasoning skills in ill-structured domains.** Indiana University Research Development Grant, 1995-1996. (Principal investigator)

#### 1990-1994

**Cognitive apprenticeship and mathematics teacher education: An approach to the education of reflective practitioners.** Proffitt Grant (Indiana University), 1994-1995. (Co-Principal with Diana Lambdin.)

**The development of two Strategic Teaching Framework classrooms for elementary mathematics.** North Central Regional Education Laboratory, June-August 1993. (Principal investigator.)

**Evaluation of the teaching and learning in the elementary school with Windows on Science.** Optical Data Corporation., 1993-1994. (Principal investigator).

Sabbatical and summer appointment: Funded at half time during sabbatical and full time during the summer to manage the development of the Strategic Teaching Framework system. North Central Regional Education Laboratory, 1992-1993.

**Design and evaluation of a constructivist approach to teaching diabetes management.** Part of an NIH proposal for the Diabetes Research Center, 1992-1997. (Co-principal with D. Marrero and D. Cunningham.)

**Development of a Multimedia Design Laboratory.** Indiana University Graduate School, August 1991. (Co-principal with R Pugh).

**Development of a prototype hypermedia system to support teacher training.** North Central Regional Educational Laboratory, 1991- 1992. (Principal investigator)

**Design of constructivist learning environments: Implications for instructional design and the use of technology - A NATO advanced research project workshop.** North Atlantic Treaty Alliance, 1991. (Co-principal with Joost Lowyck and Dave Jonassen).

**Case Study Evaluation of the Buddy System.** (The Buddy system is a program to place a computer and modem in every school child's home.) Indiana Business Modernization and Technology Corp., November 1991-1992. (Principal investigator).

**Summer Faculty Fellow at the Navy Personnel R&D Center.** American Association of Electrical Engineering, summers 1991 and 1992.

**Analysis of the jobs and the editing 'problems' of technical editors.** Battelle Corp, August 1991. (Principal investigator).

**Computer hardware to support the development of a MultiMedia Instructional Design Laboratory.** Apple Computer, Cupertino, 1991. (Principal investigator).

**Development of models for adult literacy instruction.** Haye Systems, November 1990. (Principal investigator).

**Usability principles for the design of the 1040 Forms Principal.** Booz, Allen, and Hamilton, October 1990. (Principal investigator).

**Management of a School Restructuring Computer Conference Principal,** North Central Regional Education Laboratory, June 1990. (Principal investigator).

**The design and development of enriched learning and information environments.** AT&T . (I was a member of the group developing this proposal which received multiyear funding.) Year one funding.

**Analysis of student learning using Intermedia.** Proffitt Grant (Indiana University), 1989-1990. (Co-principal with D. Cunningham).

#### **Professional Activities & Honors (selected)**

The first **Barbara Jacobs Chair of Education and Technology**, Indiana University.

Academic Advisory Board (Member), **ActiveInk** (A company providing and supporting online collaborative group projects and curriculum development for K-12.) 2000-2001.

Distance Education Advisory Board (Member) **Ohio University, School of Business MBA program.** The twelve member external board was established to review the design and implementation of the design of the innovative problem based learning MBA program for delivery at a distance. From May 1996.

Invited faculty at **University of Utrecht** to co-teach (8 hours a day) a Master Course for top PhD students in the Netherlands working in the area of constructivist theory and instructional design. April 1997.

Kansas Health Foundation Visiting Scholar, **Wichita State University, School of Nursing**, January 1997.

Co-Recipient of the Diana Award from the **Association of Computing Machinery Special Interest Group on Documentation** (ACM SIGDOC). The award was presented for the excellence in achievement of the Carnegie Mellon University, Communication Design Center for its work from 1980 to 1990 in furthering the state of the art of technical communication. (I was director from 1983-1988).

President/ Sec.-Treasurer, **Division of Instructional Development** of the Association of Educational and Communication Technologies (AECT). 1993-1996.

Co-Designer (with McAlesee, Grabinger, Jonassen, and Spiro) of a **NATO** sponsored 10 day tutorial for 80 graduate students and junior faculty held at Edinburgh, Scotland in 1994. The tutorial focused on the use of technology in the design of learner centered environments.

Organizer and chair of **Hypermedia 92** a one day conference with 45 papers and over 200 participants from across the United States. October 1992.

Co-Organizer (with Lowyck and Jonassen) of a five day **NATO workshop on Constructivism and instructional design** held in Leuven, Belgium. September, 1991.

Associate editor, **IEEE Transactions on Professional Communications**. 1985-1988.

### Invited presentations (last four years)

- Duffy, Thomas (October, 2001) [Learning Theory and Practice: Design of Online Learning Environments. Keynote presentation.](#) Conference on **Assessing the Quality of Online Instruction**. Monterey, CA. Naval Postgraduate School.
- Duffy, Thomas (October, 2001) Small College and For-Profit University Partnerships: A Synergy for Providing Quality Educational Opportunities. Pew Charitable Trust Symposium: **Small Colleges in the Information Age: Challenges and Opportunities**. Charleston, VA.
- Duffy, Thomas (October, 2001) Technology Support for Learning: The Future of the Campus. Invited Presentation, **University Business Conference, The Future of the Campus**. New York, NY.
- Duffy, Thomas M. (2001, April). [Online Learning and Learning Communities: Issues in Language, Culture, and Learning.](#) Invited address. **Malaysia International Conference on Languages, Literatures and Cultures**. Malaysia.
- Duffy, Thomas M.(2001, February). Life Long Learning: A key to employee productivity and satisfaction. Invited panel. **Chicago Chamber of Commerce**. Chicago, IL.
- Duffy, Thomas M. (2001, January). Partnerships in Education: Achieving a Quality Learning Experience. Featured panel. **Association of American Colleges and Universities**. New Orleans, LA.
- Duffy, Thomas M. (2000, November). Meeting the Needs of Learners: A Problem Centered Approach. Featured Address. The **SURF Conference**, Rotterdam, The Netherlands.
- Duffy, Thomas M. (2000, November) Meeting our Educational Needs: A Problem Centered Approach. Invited Colloquium. **School of Business, University of Maastricht**, Maastricht, The Netherlands.
- Duffy, Thomas M. (2000, November). Partnerships in Education. Invited Panel. **American Society of Technology and Development** (Chicago Chapter) Education Summit. Invited Panel. Chicago, IL.
- Duffy, Thomas M. (2000, September) The Unnext educational model. **Council for Higher Education Accreditation. (CHEA)** Board Meeting. Washington D. C.
- Duffy, Thomas M. Meeting our Educational Needs. (2000, September). Invited Address, **International Association of Career Management Professionals** (Chicago Chapter), Chicago, IL.
- Duffy, Thomas M. (2000, August). An Introduction to Cardean University. Invited Panel. White House and Navy Postgraduate School Conference on **Virtual Education and the Future of the University**. Monterey, CA.
- Duffy, Thomas M. (2000, July). Participant in **The Pew Symposium on Higher Education**, "Preserving Quality in Distributed Learning Environments" Lake George, NY.
- Duffy, Thomas M. (2000, June). Meeting our Educational Needs: Distance Learning as a Strategy. Keynote Address. The conference on **Educational Innovations in Economics and Business**. Newport Beach, CA.
- Duffy, Thomas M. (2000, May). Meeting Educational Needs Nationally and Internationally. Keynote Address. **Tax Institute for Colleges and Universities**. Indianapolis, IN.
- Duffy, Thomas M. (2000, May). An Introduction to Cardean University. Invited Panel. Department of Defense **Advanced Distributed Learning Conference**. Dallas, TX.

- Duffy, Thomas M. (1999, December). Fostering a community of practice among teachers: The Internet Learning Forum. Colloquium. School of Education, **Concordia University**. Montreal, Canada.
- Duffy, Thomas M. (1999, May). Technology from a learner centered perspective. Keynote Address. Conference on **Collaboration and Learning in Virtual Environments**. Jyvaskyla, Finland.
- Duffy, Thomas M. (1997, May) Education at a Distance: Technology in Support of Pedagogy Keynote Speaker. **Connecticut Higher Education Technology Conference**. New Haven, CT.
- Duffy, Thomas M. (1997, October) Constructivism and the Role of Technology in Instruction. Keynote Address. Conference to initiate the new mission of the University, **University of Monterrey**. Monterrey, Mexico.
- Duffy, Thomas M. (1997, May). Education at a Distance: Technology in Support of Pedagogy. Keynote Address. **Connecticut Higher Education Technology Conference**. New Haven, CT.
- Duffy, Thomas M. (1997, May). Constructivism and the Technology of Instruction. Invited Presentation. **College Board**. New York, NY.

### Software Developed

**Ready.** This is text comprehension instruction designed in 1987 for low literate adults. It is a tutorial with practice exercises. The program is now marketed on CD ROM for Mac and IBM platforms. The same approach we developed has been applied to different contents and the program has expanded to a 10 CD package

**Strategic Teaching Framework** This is a hypermedia system designed in 1991 to aid teachers adopt a problem solving, learner-centered approach to instruction. The design of the system reflects our constructivist framework for the design of learning environments. A library of videos of expert teachers are at the core of STF. These are videos of a whole class period of instruction. Comments from the teacher and from other teachers are appended to the video using hypermedia technology. Additionally the user can append his or her own notes to the system. Finally, there is a database of multimedia information on the various teaching and management strategies and on the change process. STF was beta tested in 20 elementary schools and three pre-service education programs.

**Asynchronous Conferencing Tool (ACT).** This is a Web based conferencing tool to support collaborative problem solving in an educational environment developed in 1996. The design is based on pedagogical considerations and thus the functionality permits the instructor to form conferences that reflect conversation or the analysis of issues, to require students to label how their contribution fits into the analysis (e.g., using argument structure), and to require posting before viewing.

**Learning to Teach with Technology Studio (LTTS).** A web based environment to aid teachers in learning to integrate technology into their teaching. The environment, currently underdevelopment, consists of two major components: a Learning Center with a rich selection of problem centered learning modules and a Production Center that consists of templates and guidance for producing courses. The Learning Center can support instruction for teachers while the entire system can become a professional development environment for taking, producing, and critiquing courses.

## Books

- Duffy, T. M. & Kirkley, J. (Eds.) (In preparation) **Designing Environments for Distributed Learning: Learning theory and practice.**
- Simon, Robert Jan, van der Linden, Jos, & Duffy, Thomas M. (2000) **New Learning.** The Netherlands: Kluwer.
- Duffy, T. M., Lowyck, J., and Jonassen, D. (Ed.) (1993) **Designing Environments for Constructive Learning.** Heidelberg: Germany: Springer Verlag.
- Duffy, T.M., Palmer, J. and Mehlenbacher, B. (1992) **Online Help Systems: Design and Evaluation** Norwood, NJ.: Ablex.
- Duffy, T.M. and Jonassen, D. (Ed) (1992) **Constructivism and the Technology of Instruction: A Conversation.** Englewood, NJ: Lawrence Erlbaum and Assoc.
- Duffy, T.M. and Waller, R. (Eds.) (1985) **Designing Usable Texts.** New York, NY: Academic Press.

## Publications

- Duffy, Thomas M. and Orrill, Chandra (in press), [Constructivism](#). **Encyclopedia of Educational Technology.**
- Barab, Sasha and Duffy, Thomas (2000) [From Practice Fields to Communities of Practice](#). In D. Jonassen & S. Land (Eds.), **Theoretical Foundations of Learning Environments.** Lawrence Erlbaum Associates.
- Barab, Sasha, Hay, Kenneth, & Duffy, Thomas M. (1999) [Grounded Constructions and How Technology Can Help](#), **Technology Trends**, **43(2)**, 15-23.
- Chaney-Cullen, Tammy and Duffy, Thomas (1998) Strategic Teaching Frameworks: Multimedia to support teacher change. **Journal of the Learning Sciences**, 8, 1-40.
- Duffy, T. M., Dueber, W., and Hawley, C. (1998) Conferencing on the Web: Supporting collaborative problem solving. In C.J. Bonk and K. King (eds.) **Electronic collaborators: Researching the discourse of learner-centered technologies.** Englewood, NJ: Lawrence Erlbaum and Assoc.
- Lambdin, Diana, Duffy, Thomas, and Moore, Julie. (1997) Using an interactive information system to expand preservice teachers' visions of effective mathematics teaching. **Journal of Technology and Teacher Education**
- Child, David, Duffy, Thomas, and Kirkley, Sonny. (1997) A science curriculum without a "text": Impact on student attitudes. **Journal of Science Education and Technology.**
- Kirkley, Jamie and Duffy, Thomas. (1997) Designing a Web Based Electronic Performance Support System (EPSS): A Case Study of Literacy Online. In B.H. Khan (Ed.), **Web based Instruction: Development, application, and evaluation.** Englewood Cliffs, New Jersey: Educational Technology Publications
- Duffy, Thomas M. and Cunningham, Donald (1996) [Constructivism: Implications for the design and delivery of instruction](#). In D. Jonassen (Ed). **Handbook of research in educational communications and technology.** Scholastics Press. (pp 170-198)
- Duffy, Thomas M. (1997) Strategic Teaching Framework: An instructional model for a constructivist learning environment. In C.Dills and A. Romiszowski (Ed) **Instructional Development State of the Art. Volume 3: Paradigms.** Englewood NJ: Educational Technology Press.

- Duffy, Thomas M. (1995) An analysis of the technical editing process and skill requirements: Implications for technology based tools.. **Technical Communications**, **42**, 262-277.
- Savery, J. and Duffy, Thomas M.(1995) [Problem based learning: An instructional model and its constructivist framework](#). **Educational Technology**, **35**, 31-38. Also in B. Wilson (Ed) **Constructivist Learning Environments: Case Studies in Instructional Design**, 1995, 135-150
- Duffy, Thomas, Osgood, Dick, Holyoak, Douglas, and Monson, David (in press) A review of Jack Carroll's, "Scenario based design: Envisioning work and technology in system development. **Journal of Technical Communication**.
- Welsh, T., Murphy, K., Duffy, Thomas M., and Goodrum, D. (1993) Accessing elaborations on core information in a hypermedia environment. **Educational Technology Research and Development**, **41**, 19-34.
- Cunningham, D., Duffy, T. M, and Knuth, R. (1993) The textbook of the future. In C. McKnight and A. Dillon (Ed.) **Hypertext: A Psychological Perspective**. London: Ellis Horwood Publishing.
- Duffy, Thomas M. (1993) Review of George P. Landow's. **Hypertext: The convergence of contemporary critical theory and technology**. Baltimore: The Johns Hopkins Press. **Hypermedia**, **5**, 74-77
- Honebein, Peter., Duffy, Thomas M., and Fishman, Barry (1993) Constructivism and the design of learning environments: Context and authentic activities for learning. In Thomas M. Duffy, Joost Lowyck, and David Jonassen (Eds) **Designing environments for constructive learning**. Heidelberg: Springer-Verlag.
- Jones, Beau Fly, Knuth, Randy, and Duffy, Thomas M. (1993) Components of constructivist learning environments for professional training. In Thomas M. Duffy, Joost Lowyck, and David Jonassen (Eds) **Designing environments for constructive learning**. Heidelberg: Springer-Verlag.
- Duffy, T. M. (1993) What makes a difference in instruction? In T. G. Sticht, B. McDonald, and M. Beeler (Eds), **The intergenerational transfer of cognitive skills**. Norwood, NJ: Ablex.
- Fishman, B. and Duffy, T. M. (1992) Classroom restructuring: What do teachers really need? **Educational Technology Research and Development**, **40**, 95-111.
- Duffy, T.M. and Bednar, A. (1991) Attempting to come to grips with alternative perspectives. **Educational Technology**, **31** (Sept.), 12-15.
- Duffy, T. M. and Jonassen, D. H. (1991) Continuing the dialogue: An introduction to this special issue. **Educational Technology**, **31** (Sept.), 9-11.
- Duffy, T. M. and Jonassen, D. (1991) Constructivism: New implications for instructional technology. **Educational Technology**, **31** (May), 7-12.
- Bednar, A., Cunningham, D., Duffy, T.M., and Perry, D. (1991) Theory into practice: How do we link? In G. Anglin (Ed.) **Instructional technology: Past, present, and future**. Denver, CO: Libraries Unlimited.
- Stratman, J., and Duffy, T. (1991) A response to Hagge and Kostelnick. **Management Communication Quarterly**, **4**, 381-385
- Duffy, T.M. and Knuth, R. (1990) Hypermedia and instruction: Where is the match? In D. Jonassen and H. Mandl (Eds) **Designing hypermedia for learning**. Heidelberg, FRG: Springer Verlag.

- Stratman, J and Duffy, T. (1990) Conceptualizing research on written management communication: Looking through a glass onion. **Management Communication Quarterly**, **3**, 429-451
- Duffy, T. M., Mehlenbacher, B., and Palmer, J. (1989) The evaluation of online help: A conceptual model. In E. Barrett (Ed.) **The Society of text: Hypertext, hypermedia, and the social construction of information**. Cambridge, MA: MIT Press.
- Mehlenbacher, B., Duffy, T. M., and Palmer, J. (1988) Finding information on a menu: Linking menu organization to the user's goals. **Human Computer Interaction**, **4**, 231-251
- Duffy T.M. (1989) Review of **Executive Control Processes in Reading** by B. Britton and S. Glynn (Eds.). **Journal of Reading Behavior**, **21**, 85-90.
- Palmer, J., Duffy T., and Mehlenbacher, B. (1988) A System for Aiding Designers of Online Help. **Lotus: acm SIGCHI**.
- Duffy, T., Higgins, L., Mehlenbacher, B., Cochran, C., Wallace, D., Burnett, R., Haugen, D., Hill, C., McCaffrey, B., Schwartz, H., Sloane, S., and Smith, S. (1989) Models for the design of instructional text. **Reading Research Quarterly**, **24**, 434-457.
- Bowen, B., Duffy, T., and Steinberg, E. (1991) Analyzing the Various Approaches of Plain Language Law. In E. Steinberg (Ed.) **Promoting Plain English**, Detroit, MI: Wayne State University Press. Also in **Visible Language**, 1986, **20**, 155-165.
- Palmer, J., Duffy, T., Gomoll, K., Gomoll, T., Richards-Palmquist, J. and Trumble, J. (1987) The Design of Online Help for Unix Emacs: Capturing the User in Menu Design. **IEEE Transactions on Professional Communication**, **31**, 44-51. Also in H. Bullinger and B. Shakel (Eds), **Interact 87**. North Holland, 1987
- Palmer, J., Duffy, T. and Knabe, K. (1988) Conference Program Generator Software: A Program that Links Desk Top Publishing and Database Technology. **IEEE Transactions on Professional Communication**, **31**, 37-43.
- Baker, E., Atwood, N. and Duffy, T.M. (1988) Cognitive Approaches to the Analysis of Technical Understanding. In A. Davison (Ed.) **Critical Approaches to Readability: Theoretical Bases of Linguistic Complexity**. Englewood, NJ: L. Erlbaum and Associates.
- Duffy, T.M. (1987) Engineering Effective Software. **IEEE Transactions on Professional Communication**, **PC-30**, 41-42.
- Duffy, T.M. (1987) Computer Technology and Adult Literacy Instruction in the Armed Forces. In Correctional Education Association (Ed.) **Guidelines for the Use of Microcomputers in Correctional Education**. Washington, DC: U.S. Department of Justice.
- Duffy, T.M. Smith, G. and Post, T. (1987) Expertise and the Process of Developing Technical Manuals. **Technical Communication**, May 1987, 70-78.
- Duffy, T.M. and Langston, M.D. (1987) On-line Help: Design Issues for Authoring Systems. In R. Seidel and R. Perez (Eds.) **Computer Based Instruction**. New York, NY: Plenum Publishing Corporation.
- Duffy, T.M., and Post, T., and Smith, G. (1987) Technical Manual Production: An Examination of Five Systems. **Written Communication**, **4**, pp. 370-393.
- Duffy, T.M. (1985) Literacy Instruction in the Armed Forces. **Armed Forces and Society**, **11**, 437-467.
- Duffy, T.M. (1985) Readability Formulas: What is the Use? In T.M. Duffy and R. Waller (Eds.) **Designing Usable Texts**. New York: Academic Press.

- Duffy, T.M. (1985) Controlling the Usability of Technical Text: Specifications and Guidelines. In D.H. Jonassen (Ed.) **The Technology of Text. Vol. 2.**
- Duffy, T.M., Sass, D., and Curran, T. (1983) Document Design for Technical Job Tasks: An Evaluation. **Human Factors, 25**,143-160.
- Duffy, T.M. (1982) Organizing and Utilizing Document Design Options. **Information Design Journal, 2**, 256-266.
- Duffy, T.M. and Kabance, P. (1982) Testing a Readable Writing Approach to Text Revision. **Journal of Educational Psychology, 74**, 733-748.
- Duffy, T.M., Montague, W.E., Laabs, G.J. and Hillix, W.A. (1975) The Effects of Overt Rehearsal on Motor Short-term Memory, **Journal of Motor Behavior, 7**, 59-63.
- Duffy, T.M. and Kearn, D. (1973) Mnemonics and Intra-List Interference: A Re-examination. **American Journal of Psychology, 86**, 749-755.
- McMurray, D.W. and Duffy, T.M. (1972) The Effects of Meaningfulness and Pronounceability on Short-term Memory. **Journal of Experimental Psychology, 96**, 291-296.
- Duffy, T.M., Walker, C., and Montague, W.E. (1972) Sentence Mnemonics and the Role of Verb Class on Paired Associate Learning. **Psychological Reports, 96**, 583-589.
- Duffy, T.M. and Montague, W.E. (1971) Sentence Mnemonics and Noun Pair Learning, **Journal of Verbal Learning and Verbal Behavior, 10**, 157-162.
- Duffy, T.M. Mnemonics and Intra-list Interference in Paired Associate Learning. **Canadian Journal of Psychology, 25**, 33-41.

### Workshops

- Duffy, Thomas M. and Bates, Tony. (2000, November). Distance Education. Invited Workshop. **The SURF Conference**, Rotterdam, The Netherlands.
- Duffy, Thomas and Hawley, Chandra (Feb 1997) *Distance Education: Tools and a Pedagogical Framework*. **Association for Educational Communication Technology**.
- Duffy, Thomas, *Problem Based Learning: Pedagogy and Practice*. One day workshop presented at **Andersen Consulting Education** (July, 1995), **The International Society for Performance and Instruction** (with S. Grabinger, April 1997), **Eli Lilly Co** (with J. Savery, February 1996), **The Association for Educational Communication and Technology** (with J. Savery, February 1994, 1995, 1996), **University of Colorado, Denver** (March 1994, March 1996), and **University of Monterrey**, Mexico (October, 1997).
- Duffy, Thomas, *Problem Based Learning: Pedagogy and Practice*. Five day workshops at **Phi Delta Kappa's Gabbard Institute** (with S. Grabinger, July 1996), **LG Corporation** (Seoul Korea, July 1996), **DePaul University** (with C. Hawley, July 1996) and **Ferris State University** (with S. Grabinger, May 1997)
- Duffy, Thomas and Osgood, Richard (October 1996) *Goal-Based Scenarios and the Design of Learning Support Systems*. **Association of Computing Machinery Special Interest Group on Documentation** (ACM SIGDOC)
- Duffy, Thomas (May, 1996) *Designing Learner Centered Instruction*. A half day workshop for the **U.S. Army, Armor School**, Ft. Knox.
- Barrows, H., Duffy, T.M., Stinson, J., Myers, A., Feltovitch, P. (July 1994) *Problem Based Learning in the Professional Schools*. A one day workshop presented at the annual meeting of the **International Thinking Skills Conference**. Boston, MA.

- Barrows, H., Duffy, T.M., Myers, A., Feltovitch, P. (July 1994) *Problem Based Learning in the High Schools*. An all day workshop presented at the **International Thinking Skills Conference**. Boston, MA.
- Duffy, T.M. and Grabinger, S. (August 1994) *Constructivism and the design of learning environments*. A two day work shop presented at the NATO, ASW Tutorial, **Supporting learning in computer environments: Cognitive, practical, and pedagogical issues**.
- Duffy, T., Palmer, J., and Mehlenbacher, B. (August, 1988). *Hypercard Software to aid the design of online help systems*. A half day workshop presented at the Conference on **Writing Computer Documentation** at the Massachusetts Institute of Technology.
- Duffy, T.M. *Meeting the adult learners needs in literacy instruction: Designing instruction using the Wisner Program*. I have given a basic workshop in implementing the computer based reading program we have developed. The workshop addresses the benefits and problems of using computers, identifying reading instructional requirements, the logistics of implementing the new course, and the requirements and strategies in developing a database for the program. This workshop has been given at over 20 sites.