

# David H. Jonassen

## OFFICE ADDRESS

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School of Information Science and Learning Technologies  
College of Education  
University of Missouri  
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## EDUCATION

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### **B.S.**

University of Delaware 1970  
Business Administration/Finance

### **M.Ed.**

University of Delaware 1972  
Elementary Education

**Master's Thesis:** Programmed vs. Basal Approaches for Teaching Decoding Skills

### **Ed.D.**

Temple University 1976  
Educational Media/ Educational Psychology

**Dissertation:** Videotape Interaction with the Self: Effects of Self-Confrontation as a Function of Extraversion and Neuroticism in College Students

### **Post-doctoral**

University of North Carolina 1977-1985  
Computer Science, Statistics, Philosophy

## **EMPLOYMENT EXPERIENCE**

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Distinguished Professor of Education, School of Information Science and Learning Technologies and Educational Psychology Program, College of Education, University of Missouri, February, 2000 –

- Teaching and advising master's and doctoral students
  - Coordinated revision of master's and PhD curricula in Learning Technologies
  - Taught Graduate Courses:
    - Seminar on Problem Solving, Task Analysis, Needs Assessment
    - Using Technology to Enhance Learning, Research on Learning Technologies, Designing Constructivist Learning Environments, Individual Differences, Learning & Instruction, Computers as Cognitive Tools, Seminar on Conceptual Change
  - Chair, College of Education Curriculum Committee; Member, University Curriculum Committee
  - Member, Undergraduate Curriculum Committee, Faculty Development Committee, Assessment and Evaluation Committee
  - Director, Center for the Study of Problem Solving
- Conducted grant-funded research

Professor of Instructional Systems, College of Education, The Pennsylvania State University, August, 1993 - 2000 (Professor-in-Charge, 1994-1997)

- Teaching and advising master's and doctoral students
- Taught graduate courses:
  - Instructional Systems Design, Instructional Design Theories, Models, and Strategies, Research Apprenticeship in Instructional Computing
  - Instructional Systems Analysis, Designing Constructivist Learning Environments
  - Artificial Intelligence in Education, Survey of Research in Instructional Systems
  - Analyzing Learning Outcomes, Computers as Learning Tools, Instructional Design Theories, Models, and Strategies, Theoretical Foundations of Instructional Systems
- Major Committee Assignments: Steering Committee, Schreyer Institute for Innovation in Learning; Graduate Council Subcommittee on Program Review and Evaluation; Advisory Board, Educational Technology Service, Center for Academic Computing; Teaching and Learning with Technology, Committee on Institutional Cooperation
- Redesigned master's degree programs in Training Design and Development

Professor and Chair of Instructional Technology, School of Education, University of Colorado at Denver, 1986 - 1993

- Teaching and advising master's and doctoral students
- Program Chair for Instructional Technology, including Library/Media.
- Responsible for developing and coordinating curricula, staffing courses, and arranging facilities for 5.5 full-time and 12 part-time staff
- Designed/developed/implemented Instructional Technology curricula including master's degree programs in Corporate Training/Development, Instructional Computing, Library/Media, and Instructional Technologist and a Ph.D.

## **EMPLOYMENT EXPERIENCE, continued**

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### University of Colorado at Denver, continued

Program with emphases in Instructional Development, Instructional Computing and Higher Education.

- Designed and wrote 34 courses to support the curricula
- Conducted regional needs assessment to determine Corporate Training/Development competencies
- Conducted national survey of state certification standards for Instructional Computing Specialists
- Developed and implemented Apple, IBM, Mac, interactive video, and AV labs
- Coordinated marketing of degree programs locally, regionally, and nationally
- Developed doctoral internship program
- Major Committee Assignments: Academic Computer Advisory (University); Library Faculty Advisory (University); Library Standards (University); Retention, Tenure, Promotion Task Force, Chair (School); Curriculum, Chair
- Taught graduate courses:
  - Instructional Technology for Teachers, Computer Applications: Beginning/Advanced BASIC, Analyzing Learner Characteristics, Instructional Design: Front End Analysis Applications of Computer Based Utility Programs, Designing Instructional Text Instructional Design Models, Strategies, and Tactics, Developing Interactive Computer Based Instruction, Interactive Video, Doctoral Seminar: Theoretical Foundations of Instructional Technology, Doctoral Seminar: Research in Instructional Technology Seminar, Advanced Seminar in Instructional Design: Task Analysis Doctoral Seminar: Cognitive Learning Strategies, Mindtools for Teachers Doctoral Seminar: Comparative Instructional Design Models

Assistant/Associate Professor of Educational Technology, Library Science/Educational Technology Department, School of Education, University of North Carolina at Greensboro, NC, 1976 -- 1986

- Designed/developed PSI courses in Instructional Media and Educational \ Psychology
- Taught and advised master's and doctoral students
- Developed and implemented self-instruction laboratory
- Designed, developed, implemented, and managed instructional technology master's degree program
- Designed and developed 16 courses including 13 variable credit microcomputer applications courses
- Designed and had approved the first master's degree program in North Carolina to offer Instructional Computing Specialist certification
- Submitted grant proposals to NSF, NIE, Spencer Foundation to support research
- Major Committee Assignments: Curriculum (University), Curriculum, Chair (School), Research Council, Chair (University), Admissions Policy (University), (School), Human Subjects Review, Chair (School)

## **EMPLOYMENT EXPERIENCE, continued**

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University of North Carolina at Greensboro, continued

- Taught courses:

Instructional Design (Graduate), Foundations of the Media Professions (Graduate), Psychological Foundations of Education (Undergraduate), Design and Production of Audiovisual Materials(Graduate), Instructional Television (Graduate), Photography in Education (Graduate), Research in Library/Media (Graduate), Workshop in Multi-Image Production (Graduate), Designing Instructional Text: Programmed Instruction and Beyond (Grad), Microcomputer Applications in Education and Librarianship (Undergraduate/Graduate), School Library/Media Applications of Microcomputers (Graduate), Logo: Logic and Applications Undergraduate/Graduate), Sound/Slide Design and Production (Undergraduate/Graduate), Designing Computer Assisted Instruction (Graduate), Educational Applications of BASIC (Undergraduate/Graduate), Using Authoring Systems to Create Courseware (Graduate), Word Processing for Librarians and Educators (Undergraduate/Graduate), Developing Interactive Videodiscs (Graduate)

Teaching Associate, Educational Media, Educational Media Department, College of Education, Temple University, Philadelphia, Pa., 1974 -- 1976
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- Teaching courses:
  - Introduction to Instructional Media (Undergraduate)
  - Educational Applications of Media (Graduate)
- Instructional Developer on undergraduate teacher preparation project

Educational Television Consultant, Pilot Five Television Project New Jersey Office of Migrant Education	1973 -- 1974
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- Instructional designer and production on television series
- Utilization specialist in schools

Vice President, Production Services, DPR Associates, Consultants Newfield, New Jersey	1974
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- Media production, including print, slide, and video
- Supervised staff of three production personnel

Instructor, Educational Media Temple University	1972 -- 1973
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- Taught Introduction to Instructional Media (Undergraduate)

## **EMPLOYMENT EXPERIENCE, continued**

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Teacher, Gauger Middle School Newark, Delaware School District	1971 -- 1972
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- Taught Reading/Language Arts, Grades 6, 7, and 8
- Developed/implemented self-instructional, mediated reading laboratory

Teacher, Banneker Elementary School Milford, Delaware School District	1970 -- 1971
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- Taught Reading/Language Arts, Grade 5

## **VISITING PROFESSOR EXPERIENCES**

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Visiting Faculty, Ngee Ann Polytechnic, Singapore, November -December, 2000; August, 2002, November, 2004

Visiting Professor, Institut for Informasjonsvitenskap, University of Bergen, Bergen, Norway, February – May, 2000.

- Taught Hovedfag (Master's students)
- Collaborated on research with faculty

Visiting Professor, Faculty of Information Science, University of Bergen, Bergen, Norway, February - May, 2000

Visiting Faculty, National Institute of Education, Nanyang Technological University, Singapore, February 1999, December, 2000, November, 2004

Visiting Researcher, Multimedia Development Unit, University of Wollongong, Wollongong, Australia, August, 1997

Visiting Scholar, Institut für Informationverarbeitung, Universiteit Graz, Graz, Austria, October, 1992

Visiting Faculty, Instructional Technology, University of Twente, Enschede, Netherlands, May-June, 1991

Faculty, Interuniversitair Centrum voor Onderwijs-evaluatie, Rijksuniversiteit Groningen en Universiteit Twente, Summer School, August 27-29, 1992

Visiting Professor, Institute for Computer Based Learning, Heriot Watt University, Edinburgh, Scotland, October - December, 1991

Adjunct Professor, Syracuse University, 1988, 1990

- Taught courses:
  - Advanced Instructional Design, Instructional Designs for Individual Differences
- Advised doctoral students

Visiting Research Fellow, Department of Psychology, University of Keele, Keele, Staffordshire, U.K., January - June, 1984

## **EDITORIAL/ADVISORY BOARDS**

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Editorial Board, *Educational Sciences and Practice: Semiannual Journal on Educational Sciences* (Turkish), 2007-

Reviewer, *Asia Pacific Education Review*

Editorial Board, *Journal of Computing in Higher Education*, 2008 –

Editorial Board, *Research and Practice in Technology Enhanced Learning*, 2006-

Editorial Board, *Research and Practice in Technology Enhanced Learning* published by Asia-Pacific Society for Computers in Education (<http://www.apsce.net/>), 2005 –

Advisory Board, *The Journal of Learning Design*, Australia

Editorial Board, *International Journal on Knowledge and Learning*, 2004 –

International Advisory Board, *Asia Pacific Journal of Educational Inquiry*, 2004-

Editorial Board, *Medien Pädagogik*, 2003 –

Contributing Editor, *Educational Technology*, 1993 – present

Editorial Board, *The New Review of Learning Technologies*, 2002 -

Editorial Board, *British Journal of Educational Technology*, 2001-

Advisory Board, *International Journal of Educational Technology*, 2000-

Editorial Advisory Board, *Intelligent Tutoring Media*, 1995-6

Advisory Board, *Ed-Tech Review: International Forum on Educational Technology Issues and Applications* (published by the Association for the Advancement of Computing in Education, 1993-

Editorial Board, *Association for Learning Technology Journal* (published in U.K.), 1993-

Editor, *Journal of Educational Multimedia and Hypermedia*, 1991 – 1994.

Editorial Consultant, *Educational Communications and Technology Journal*, 1984 - present

Editorial Board, *International Journal of Instructional Media*, 1983- present

## **EDITORIAL/ADVISORY BOARDS**

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Editorial Board, *Impact Journal*, Australia

LSL International Advisory Committee, National Institute of Education, Nanyang Technological University, Singapore

Program co-chair, 13<sup>th</sup> International Conference on Computers in Education (ICCE 2005), November – 30 December, 2005, Singapore

Advisory Board, Virtual Design Center, Center for Educational Technologies/NASA Classroom of the Future, Wheeling Jesuit University, 2004 -

Advisory Board, Staff and Educational Development International (India)

Advisory Board, Asia-Pacific Society for Computers in Education, 2004-2005

Advisory Board, Virtual Design Center, Center for Educational Technologies and NASA Classroom of the Future, 2004-

Executive board of Korean Association of Multimedia-Assisted Language Learning (KAMALL), 2003 -

External Evaluator, Instructional Design Program, National Institute of Education, Nanyang Technological University, Singapore, November - December, 2000

National Science Foundation Site Visit Team, Greenfield Coalition, Detroit, MI, October, 1998

Organizing Committee, International Conference on Computers in Education (Asian), 1995 -

Instructional Designer, (National Distance Education Project), University of Brasilia, Brasil. October, 1996, September, 1998

Invited Participant, NSF Educational Technology Workshop, Vienna, VA, September 29-October 2, 1995.

Conference Chair, International Conference on Computers in Education, Singapore, December, 1995

Co-Director, NATO Advanced Study Institute, Conceptual Models for Designing Hypermedia, Heriot-Watt University, Edinburgh, Scotland, August 14-22, 1994.

Invited Member, International Federation for Information Processing, Archamps, France, September, 1993

## **PROFESSIONAL EXPERIENCES, continued**

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Scientific Committee, International Open Workshop on Knowledge Acquisition, Representation, and Processing, Rzeszow University of Technology and the Polish Academy of Sciences, May, 1993

Program Evaluator, Universiti Sains Malaysia, Pulau Penang, Malaysia, March, 1993

Program Committee, Educational Media, International Conference, Orlando, June, 1993

Program Committee, 4th International Conference on Computers and Learning, June 17-20, 1992, Acadia University, Nova Scotia

Co-Director, NATO Advanced Research Workshop, Constructivistic Learning Environments, Leuven, Belgium, May 15-18, 1991.

Planning Task Force, Professional Trainer Series, American Society for Training and Development, Rocky Mountain Chapter.

Educational Research Consultant/Coordinator, IBM Computer Assisted Instruction Project, University of North Carolina at Chapel Hill, November, 1985-1986

Instructor, Study Skills and Strategies Course, Office of Orientation, University of North Carolina at Greensboro, 1984-5

Newsletter Editor, SIG/Nonprint Media, American Society for Information Science, 1978

Instructional Designer, Undergraduate Teacher Media Preparation Project, Educational Media Department, Temple University, 1975-76

Television Production Technician, Camera Operator, Floor Manager, Lighting Director, Teaching Resources Center, University of Delaware, 1966 - 1969

## **PUBLICATIONS: BOOKS**

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Jonassen, D.H. (1982). *Nonbook Media: A Self-Instructional Handbook for Teachers and Library Media Personnel*. Hamden, CT: ShoeString Press, Library Professional Publications.

Jonassen, D.H. (1982) *The Technology of Text: Principles for Structuring, Designing, and Displaying Text*. Englewood Cliffs, NJ: Educational Technology Publications.

Jonassen, D.H. (Ed., 1985). *The Technology of Text: Principles for Structuring, Designing, and Displaying Text*, Vol. 2. Englewood Cliffs, NJ: Educational Technology Publications.

Jonassen, D.H. (Ed., 1988). *Instructional Designs for Microcomputer Courseware*. Hillsdale, NJ: Lawrence Erlbaum Associates.

Jonassen, D.H., Hannum, W.H., & Tessmer, M. (1989). *Handbook of Task Analysis Procedures*. New York: Praeger.

Tessmer, M., Jonassen, D.H. & Caverly, D. (1989). *Non-Programmer's Guide to DESIGNING INSTRUCTION for Microcomputers*. Littleton, CO: Libraries Unlimited.

Jonassen, D.H. *Hypertext/Hypermedia*. (1989). Englewood Cliffs, NJ: Educational Technology Publications.

Jonassen, D.H. & Mandl, H. (Eds.).(1990). *Designing hypermedia for learning*. Heidelberg, FRG: Springer-Verlag.

Grabinger, R.S., Wilson, B.G. & Jonassen, D.H. (1990). *Designing expert systems for education*. New York: Praeger.

Jonassen, D.H. & Tessmer, M. (1991). *NISC 2000: Future use of instructional technologies*. Washington, DC: Office of Personnel Management.

Kommers, P., Jonassen, D.H., & Mayes, T. (Eds., 1992). *Cognitive tools for learning*. Heidelberg, FRG: Springer-Verlag

Duffy, T. & Jonassen, D.H. (Eds.,1992). *Constructivism and the technology of instruction: A conversation*. Hillsdale, NJ: Lawrence Erlbaum Associates.

Jonassen, D.H., Beissner, K., & Yacci, M. (1993). *Structural knowledge: Techniques for assessing, conveying, and acquiring structural knowledge*. Hillsdale, NJ: Lawrence Erlbaum.

Duffy, T.M., Lowyck, J. & Jonassen, D.H. (Eds. (Eds., 1993), *The design of constructivistic learning environments: Implications for instructional design and the use of technology*. Heidelberg, FRG: Springer-Verlag.

## **PUBLICATIONS: BOOKS, continued**

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Jonassen, D.H. & Grabowski, B.L. (1993). *Handbook of individual differences, learning and instruction*. Hillsdale, NJ: Lawrence Erlbaum Associates.

Jonassen, D.H., & McCalla, G. (Eds., 1995). *Proceedings of the International Conference on Computers in Education, 1995*. Charlottesville, VA: Association for the Advancement of Computing in Education.

Jonassen, D.H. (Ed., 1996). *Handbook of Research on Educational Communications and Technology*. New York: Macmillan.

Jonassen, D.H. (1996). *Computers in the classroom: Mindtools for critical thinking*. Columbus, OH: Merrill/Prentice-Hall.

Jonassen, D.H., Peck, K., & Wilson, B.G. (1999). *Learning With Technology: A Constructivist Perspective*. Columbus, OH: Merrill/Prentice-Hall.

Jonassen, D.H., Tessmer, M., & Hannum, W.H. (1999). *Task Analysis Methods for Instructional Design*. Mahwah, NJ: Lawrence Erlbaum Associates.

Jonassen, D.H. (2000). *Computers as Mindtools for Schools: Engaging Critical Thinking*. Columbus, OH: Prentice-Hall.

Jonassen, D.H. (2000). *Computers as Mindtools for Schools: Engaging Critical Thinking (Computadores, Ferramentas Cognitivas: Desenolver o pensamento critico nas escolas)*. (Portugese translation). Porto, Portugal: Porto Editora.

Jonassen, D.H. & Land, S.L. (Eds., 2000). *Theoretical foundations of learning environments*. Mahwah, NJ: Lawrence Erlbaum Associates

Jonassen, D.H. & Land, S.L. (Eds., 2000). *Theoretical foundations of learning environments*. (Chinese traslation). Shanghai: East China Normal University Press.

Sembill, D., Jonassen, D.H., & Dijkstra, S. (Eds., 2001). *Multimedia learning — Results and perspectives*. Frankfurt: Peter Lang, GmbH.

Jonassen, D.H., Howland, J., Moore, J., & Marra, R.M. (2003) *Learning to solve problems with technology: A constructivist perspective*, 2<sup>nd</sup>. Ed. Columbus, OH: Merrill/Prentice-Hall (translated into Chinerse).

Jonassen, D.H. (Ed.).(2004). *Handbook of research on educational communications and technology*, 2<sup>nd</sup>. Ed. Mahwah, NJ: Lawrence Erlbaum Associates.

Jonassen, D.H. (2004). *Learning to solve problems: An instructional design guide*. San Francisco, CA: Pfeiffer/Jossey-Bass.

## **PUBLICATIONS: BOOKS, continued**

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Looi, C.K., Jonassen, D. H., & Ikeda, M. (2005). *Towards Sustainable, Scalable Educational Innovations Informed by the Learning Sciences: Proceedings of the International Conference on Computers in Education*. Singapore: Asia-Pacific Society for Computers in Education.

Jonassen, D.H. (2006). *Modeling with technology: Mindtools for conceptual change*. Columbus, OH: Merrill/Prentice-Hall.

Jonassen, D.H. (Ed., 2007). *Learning to solve complex, scientific problems*. Mahwah, NJ: Lawrence Erlbaum Associates.

Jonassen, D.H., Howland, J., Marra, R.M., & Crismond, D. (2008). *Meaningful learning with technology*, 3<sup>rd</sup> Ed. Columbus, OH: Merrill/Prentice Hall.

Blumschein, P., Hung, W., Jonassen, D. (Eds.)(2008). *Model-Based Approaches To Learning: Using Systems Models And Simulations To Improve Understanding And Problem Solving In Complex Domains* (Modeling and Simulations for Learning and Instruction, Volume 4). Rotterdam, Netherlands: Sense Publisher.

Jonassen, D.H. (in preparation). *Learning to solve problems: A handbook*. New York: Routledge.

## **PUBLICATIONS: ARTICLES**

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- Jonassen, D.H. (1974). TV for migrant children. *Radical Software*, 2(1), 55-56.
- Jonassen, D.H. (1974). Video Feedback. *Educational Broadcasting*, 7 (2), 29,36.
- Jonassen, D.H. & Fork, D.J. (1976). Research in visual literacy: Where to begin. *AECT Research and Theory Division Newsletter*, 5 (3), 12-14.
- Jonassen, D.H. (1977). Search for a Paradigm: A theoretical approach to the study of visual literacy. *Visual Literacy Newsletter*, 1976, 5 (5), 2-3.
- Jonassen, D.H. & Fork, D.J. (1976). Visual literacy: A bibliographic survey. *Visual Literacy Newsletter*, 5(12),6(1) ED 131 837.
- Jonassen, D.H. (1977). Approaches to the study of visual literacy: A brief survey for media personnel. *Pennsylvania Media Review*, 11, 15-18.
- Jonassen, D.H. (1978). Systematic design of Instruction: A course model. *Audiovisual Instruction*, 23 (2), 46-49.
- Jonassen, D.H. (1978). Video as a mediator of human behavior. *Media Message*, 7 (2), 5-6.
- Jonassen, D.H. (1978). Competency based education: An egalitarian model. *Educational Technology*, 18 (6), 31-32.
- Jonassen, D.H. (1978). A constructive view of visual learning. In *Explorations and Interpretation: Theoretical Approaches to the Study of Visual Literacy and Visual Learning*. International Visual Literacy Association.
- Jonassen, D.H. (1978). A program evaluation model for inexperienced teachers. *Educational and Industrial Television*, 10 (11), 70-73.
- Jonassen, D.H. (1978). Visual literacy: Theory into practice. *International Journal of Instructional Media*, 6, 39-46.
- Jonassen, D.H. (1978). Structuralism in instructional design. *Journal of Educational Technology Systems*, 7, 187-193.
- Jonassen, D.H. (1979). Video mediated objective self-awareness, Self-perception, and locus of control. *Perceptual and Motor Skills*, 48, 255-265.
- Jonassen, D.H. (1979). Effectiveness redefined: Trends in media research. *International Journal of Instructional Media*, 6, 129-132.

## **PUBLICATIONS: ARTICLES, continued**

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Jonassen, D.H. (1979). National AV database: A deficient knowledge base. *Bulletin of the American Society for Information Science*, 5(3), 17-18.

Jonassen, D.H. (1979). Cognitive styles/controls and media. *Educational Technology*, 19 (6),28-32  
Jonassen, D.H. (1979). Self-confrontation and within self-discrepancies. *Perceptual and Motor Skills*, 48, 1298.

Jonassen, D.H. (1979). Deschooling Media. *Audiovisual Instruction*, 24 (8), 10-11.

Jonassen, D.H. (1979). Implications for multi-image for concept acquisition. *Educational Communications and Technology Journal*, 27, 291-302.

Jonassen, D.H. (1980). A self-instructional introduction to media. *International Journal of Instructional Media*, 7, 115-126.

Jonassen, D.H. (1980). Mapping and programming textual materials. *Programmed Learning and Educational Technology*, 17 (1), 20-26.

Jonassen, D.H. (1980). Cognitive styles and media research. *Instructional Innovator*, 25(6),38-39.

Jonassen, D.H. (1980). Introduction to the issue: The technology of text. *NSPI Journal*, 19(8), 3. (Special issue editor)

Jonassen, D.H. (1980). Operating media labs: A national survey. *International Journal of Instructional Media*, 7(4), 301-313.

Jonassen, D.H. (1981). Learning from television: What are the limits? *Peabody Journal of Education*, 58, 242-250.

Jonassen, D.H. (1980). Behold the viewer: Producing perceptually sound programs. *Multi-Images*, 6(4), 49-52.

Jonassen, D.H. (1981). Information mapping: A description, rationale, and comparison with programmed instruction. *Visible Language*, 15, 55-66.

Jonassen, D.H. (1981). Multi-image research: Do We Need It? *Multi-Images*, 7(3), 12-13.

Jonassen, D.H. (1982). Jonassen, D.H. & Hodges, G.G. Student cognitive styles: Implications for library educators. *Journal of Education for Librarianship*, 22, 143-153.

Jonassen, D.H. (1982). Aptitude vs. content treatment interactions: Implications for instructional design. *Journal of Instructional Development*, 5(4), 15-27.

## **PUBLICATIONS: ARTICLES, continued**

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- Jonassen, D.H. (1983). The tenuous relationship between research and policy making: Lessons from the new Physics. *Media Management Journal*, (Winter), 2, 32-33.
- Jonassen, D.H. (1983). Objectives from a humanistic perspective. *International Journal of Instructional Media*, 10(4), 297-302.
- Jonassen, D.H. (1984). Jonassen, D.H. & Hawk, P. Using graphic organizers in instruction. *Information Design Journal*, 3, 58-68.
- Jonassen, D.H. (1983). The generic disc: Realizing the potential of adaptive, interactive videodiscs. *Educational Technology*, 24 (1), 21-24.
- Jonassen, D.H. (1984). The mediation of experience and educational technology: A philosophical analysis. *Educational Communications and Technology Journal*, 32 (3), 153-167.
- Jonassen, D.H. (1984). Is there a theory of multi-images? *Multi-Images*, 10 (2), 23-25.
- Jonassen, D.H. (1985). A reaction to "Americans Develop Plans for Government". *Journal of Curriculum Studies*, 17(3), 270-272.
- Jonassen, D.H. (1984). Learning strategy using pattern notes. *Programmed Learning and Educational Technology*, 21 (3), 163-175.
- Jonassen, D.H. (1984). Effects of generative text processing strategies on recall and retention. *Human Learning*, 3 (4), 241-256.
- Jonassen, D.H. (1985). Relating cognitive styles to independent study. *International Journal of Instructional Media*, 12.
- Jonassen, D.H. (1985). The real case for using authoring systems for developing courseware. *Educational Technology*, 25 (2), 39-41.
- Jonassen, D.H. (1985). Interactive lesson designs: A taxonomy. *Educational Technology*, 25(6), 7-17.
- Jonassen, D.H. (1985). Producing an index with your microcomputer database management system. *Collegiate Microcomputer*, 3(4), 375-381.
- Jonassen, D.H. (1986). Improving recall using database management systems: A learning strategy. *AEDS Journal*, 19(2-3), 109-123.
- Jonassen, D.H. (1985). Learning strategies: A new educational technology. *Programmed Learning and Educational Technology*, 22(1), 26-34.

## **PUBLICATIONS: ARTICLES, continued**

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Jonassen, D.H., Hartley, J., & Trueman, M. (1986). The effects of learner-generated versus text-provided headings on immediate and delayed recall and comprehension: An exploratory study. *Human Learning*, 5, 139-150.

Jonassen, D.H. (1986). Hypertext principles for text and courseware design. *Educational Psychologist*, 21(4), 269-292.

Jonassen, D. H. & Hannum, W.H. (1986). Analysis of task analysis procedures. *Journal of Instructional Development*, 9(2), 2-12.

Jonassen, D.H. (1986). Soft technologies: A paradigm shift for educational technology. *Educational Technology*, 26(9), 33-34.

Jonassen, D.H. & Hannum, W.H. (1988). Research based principles for designing courseware. *Educational Technology*, 27(11), 7-14.

Jonassen, D.H. (1987). Verifying a method for assessing cognitive structure using pattern notes. *Journal of Research and Development in Education*, 20(3), 1-14.

Jonassen, D.H. (1987). Bridging the two cultures with technology. *Educational Technology*, 27(4), 32-33.

Tessmer, M. & Jonassen, D.H. (1989). A non-programmers model for designing courseware. *Co-action: A Journal of Interactive Instruction*, 1 (1), 7-10.

Wilson, B.G., Grabinger, R.S., & Jonassen, D.H. (1988). Structuring knowledge for expert systems: Part 2: Finding the right problem. *Performance & Instruction*, 27(8), 1-5.

Jonassen, D.H. (1988). Using needs assessment data to design a graduate instructional development program. *Journal of Instructional Development*, 11(2), 14-23.

Jonassen, D.H. (1988). Top level structures for videodiscs. *International Interactive Communications Society Journal*, 1 (1), 10-14, 21.

Jonassen, D.H. (1988). Designing structured hypertext and structuring access to hypertext. *Educational Technology*, 28(11), 13-16.

Jonassen, D.H., Grabinger, R.S. & Wilson, B.G. (1988). Structuring knowledge for expert system solutions. Part 3: Defining and limiting the problem domain. *Performance and Instruction*, 27 (9), 24-28.

Jonassen, D.H. (1989). Mindtools: Potential new liberating intellectual forces. *Educational Technology*, 1988, 28(12), 33-34.

## **PUBLICATIONS: ARTICLES, continued**

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Jonassen, D.H. (1989). Performance analysis. *Performance and Instruction*, 28(4), 15-23.

Jonassen, D.H. (1989). Mapping the structure of research and theory in instructional systems technology. *Educational Technology*, 29(5), 7-10.

Jonassen, D.H. & Tessmer, M. (1989). Using the computer to engage learners intellectually. *Co-Action Magazine*, 1(3), 21-6.

Jonassen, D.H. (1989). Functions, applications, and design guidelines for multiple window environments. *Computers in Human Behavior*, 5, 185-194.

Jonassen, D.H. (1989). Pattern notes: A new learning strategy. *Set: Research Information for Teachers*. New Zealand Council of Education, 2, Item 4.

Tessmer, M, Jonassen, D.H. & Caverly, D. (1989). Teaching big ideas with computers. *Authorware*, 2(1), 18-22.

Jonassen, D.H. & Grabinger, R.S. (1989). Structuring knowledge for expert systems, Part 6 Generating rules and examples. *Performance and Instruction*, 28 (4), 35-39.

Grabinger, R.S. & Jonassen, D.H. (1989). Who chooses independent study: Personality, cognitive and descriptive predictors. *Journal of International Journal of Instructional Media*, 16 (4), 327-333.

Wilson, B.G., Jonassen, D.H. (1989). Hypertext and instructional design: Some preliminary guidelines. *Performance and Instruction Quarterly*, 2(3), 34-49.

Wang, S. & Jonassen, D.H. (1990). Hypermedia knowledge bases. *Media & Methods*, (January/February), 17-18, 78-79.

Jonassen, D.H. (1991). Jonassen, D.H., Grabinger, R.S., & Harris, N.D.C. Analyzing and selecting instructional strategies and tactics. *Performance and Instruction Quarterly*, 4 (2), 29-45.

Jonassen, D.H. (1990). Chaos in instructional design. *Educational Technology*, 30 (2), 32-34.

Jonassen, D.H. (1990). Toward a Constructivistic Conception of Instructional Design. *Educational Technology*, 30(9), 32-34.

Wilson, B.G. & Jonassen, D.H. (1990/1991). Automated instructional systems design tools. *Journal of Artificial Intelligence in Education*, 2(2), 17-30.

Jonassen, D.H. (1991). Representing the expert's knowledge in hypertext. *Impact Assessment Bulletin*, 9 (1), 93-105.

## **PUBLICATIONS: ARTICLES, continued**

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Jonassen, D. H. (2007). Engaging and Supporting Problem Solving Online. In S. M. Fiore & E. Salas (Eds), *Where is the learning in distance learning? Towards a science of distributed learning and training* (pp. 185-207). Washington, DC: American Psychological Association.

Jonassen, D.H. (2007). Engaging and supporting problem solving in online learning. In R. Luppincini (Ed.), *Online learning communities* (pp. 109-127). Information Age Publishing.

Hung, W., Jonassen, D.H., & Liu, R. (2008). Problem-based learning. In J.M. Spector, J. G. van Merriënboer, M.D., Merrill, & M. Driscoll (eds.), *Handbook of research on educational communications and technology*, 3<sup>rd</sup> Ed. (pp. 485-506). New York: Lawrence Erlbaum Associates.

Jonassen, D.H., & Cho, Y.H. (2008). Externalizing mental models with Mindtools. In D. Ifenthaler, P. Pirnay-Dummer & J.M Spector (Eds., 2007). *Understanding models for learning and instruction. Essays in honor of Norbert M. Seel* (pp. 145-160). New York: Springer.

Ferry, B., Kervin, L., Puglisi, S., Cambourne, B., Turbill, J., Jonassen, D., & Hedberg, J (2008). Online Classroom Simulation: Using a Virtual Classroom to Support Pre-Service Teacher Thinking. In J. Kisielnicki (Ed.), *Virtual Technologies: Concepts, Methodologies, Tools, and Applications*. IGI Global.

Jonassen, D.H. (2008). Model building for conceptual change. In S. Vosniadou (Ed.), *International Handbook of Research on Conceptual Change* (pp. 676-693) New York: Routledge.

Jonassen, D.H. (2009). Construire modelli per costruire significato con i Mindtools. In G. Marconato (Ed.), *Le tecnologie nella didattica: Lo stato dell'arte all'inizio del nuovo millennio* (pp. 27-52). Gardolo, IT: Edizione Erickson.

Jonassen, D.H. (2009). Reconciling a human cognitive architecture. In S. Tobias & T.M. Duffy (Eds.), *Constructivist Theory Applied to Instruction: Success or Failure?* New York: Routledge.

Jonassen, D.H. (2009). Assembling and analyzing the building blocks of problem-based learning. In K.H. Silber & W.R. Foshay (Eds.), *Handbook of training and improving workplace performance*. San Francisco, CA: Wiley/Pfeiffer.

## **PUBLISHED BOOK REVIEWS**

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Jonassen, D.H. (1978). The Plug In Drug, by M. Winn. *School Leader*, 12, 32.

Jonassen, D.H. (1980). Four Arguments for the Elimination of Television, by J. Mander. *Educational Communications and Technology Journal* 28, 140-142.

Jonassen, D.H. (1982). Learning and Visual Communication, by D. Sless. *Instructional Science*, 17, 275-276.

Jonassen, D.H. (1983). The Design of Printed Instructional Materials: Research on Illustrations and Typography, by T.C. Wilson, F.C. Pfister, & B.E. Fleury. *Educational Technology*, 23(1).

Jonassen, D.H. (1983). Trends in Information Transfer, P.J. Hills (Ed.). *Educational Technology*, 23(3), 50-51.

Jonassen, D.H. (1984). Training and Technology: A Handbook for HRD Professionals, by G. Kearsley. *Programmed Learning and Educational Technology*.

Jonassen, D.H. (1985). Designing Usable Texts, T. Duffy & R. Waller, Eds. *Educational Technology*, 25(12).

Jonassen, D.H. (1986). Research in Technical Communication, M. Moran & D. Journet (Eds.), *Educational Technology*, 26(3), 50-51.

Jonassen, D.H. (1988). Training Needs Assessment, A. Rossett. *Performance & Instruction*, 27 (6).

Jonassen, D.H. (1988). When Machines Teach: Designing Computer Courseware, Arnold Keller. *Educational Communications and Technology Journal*, 33.

Jonassen, D.H. (2001). Learning with Multiple Representations, M.W. van Someren, P. Reimann, H. Boshuizen, & T. de Jong (Eds.). *American Journal of Psychology*. 345, 321-327

Jonassen, D.H. (2009). Embedded thinking: Multimedia and the new rationality. *Educational Technology*.

## INVITED PRESENTATIONS

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Jonassen, D.H. (1988, March). *Instructional design*. International Interactive Communications Society, Denver, CO.

Jonassen, D.H. (1988, June). *Designing Structured Hypertext and Structuring Access to Hypertext*. IBM Academic Information Systems Conference, Dallas, TX

Jonassen, D.H. (1988, November). *Issues in hypertext design*. New Directions in Educational Technology, Cranfield, Berkshire, UK.

Jonassen, D.H. (1989). *Designing hypertext for learning*. L.C. Essig Distinguished Honor Lecture, Utah State University, Logan, Utah.

Jonassen, D.H. (1989). *Hypermedia for learning*. NATO Advanced Research Workshop, Designing Hypertext for Learning, Rottenburg, FRG.

Jonassen, D.H. (1990, April). *Adding intelligence to hypertext with expert systems and adding usability to expert systems with hypertext*. NATO Advanced Research Workshop, "Structures of Communication and Intelligent Help for Hypermedia Courseware", Espinho, Portugal.

Jonassen, D.H. (1990, April). *Issues in designing hypertext for learning and access*. American Physiological Society (Federation of American Societies for Experimental Biology), Washington, D.C.

Jonassen, D.H. (1990, September). *Hypermedia*. National Open University and Information Science and Technology Exhibition Center, Taipei, Taiwan, R.O.C. (Keynote)

Jonassen, D.H. (1991, April). *Applications and limitations of hypertext technology for distance learning*. Distance Learning Workshop, Armstrong Laboratory, San Antonio, TX.

Jonassen, D.H. (1991, May). *Constructivism vs. objectivism: Do we need a paradigm shift?* NATO ARW: The Design of Constructivist Learning Environments: Implications for Instructional Design and the Use of Technology. Leuven, Belgium.

Jonassen, D.H. (1991, June). *The use of hypermedia in designing constructivist learning environments*. Vakgroep Onderwijskunde, Universiteit Nijmegen, Netherlands.

Jonassen, D.H. (1991, July). *Cognitive flexibility theory and its implications for CBI*. NATO ARW, Instructional Models in Computer Based Learning Environments. Enschede, Netherlands.

Jonassen, D.H. (1991, October). *Designing hypertexts for advanced knowledge acquisition using cognitive flexibility theory*. Department of Computer Science, University of Liverpool, Liverpool, UK.

Jonassen, D.H. (1991, October). *Expert systems as tools for thinking*. Heriot-Watt University, Edinburgh, Scotland.

Jonassen, D.H. & Tessmer, M. (1993, May). *Hypermedia for complex tasks*. Ziff Institute's Interactive '93, Anaheim, CA.

### **INVITED PRESENTATIONS, continued**

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Tessmer, M.A. & Jonassen, D.H. (1993, May). *Front-end evaluation: What's that multimedia development worth?* Ziff Institute's Interactive '93, Anaheim, CA.

Jonassen, D.H. (1993, May). *Eliciting knowledge through semantic networks and production rule representations: Effects on cognitive structure*. International Open Workshop on Knowledge Acquisition, Presentation, and Processing, Rzeszów, Poland.

Jonassen, D.H. (1993, May). *Representing, conveying and acquiring structural knowledge: Implications for learning*. International Open Workshop on Knowledge Acquisition, Presentation, and Processing, Rzeszów, Poland. (Keynote)

Spiro, R. & Jonassen, D.H. (1994, August). *Designing cognitive flexibility learning environments*. NATO Advanced Study Institute, Conceptual Models for Designing Hypermedia Environments. Heriot-Watt University, Edinburgh, Scotland.

Jonassen, D.H. (June, 1993). *The future of hypermedia learning environments: Prospects, problems, and entailments*. World Conference on Educational Multimedia and Hypermedia, Orlando, FL.

Jonassen, D.H. (1993, June). *Mindful learning from hypermedia learning environments in transfusion medicine*. American Association of Blood Banks, Transfusion Therapy for the Pediatric Patient, Bethesda, MD.

Jonassen, D.H. (1994, October). *Scaffolding reasoning in computer-based learning environments*. Twente University, Enschede, Netherlands.

Jonassen, D.H. (1994, October). *Cognitive tools as formalisms for representing knowledge*. Keynote Speech, European Association for Research in Learning and Instruction (Special Interest Group Writing) and the 7th European Conference on Writing and Computers, Utrecht, Netherlands. (Keynote)

Jonassen, D.H. (1995, October). *Distance education in the 21st century*. American Society for Training and Development (Erie Chapter), Titusville, PA. (Keynote)

Jonassen, D.H. & McCalla, G. (1995, December). *To model or not: Is AI the answer?* International Conference on Computers in Education, Singapore.

## **INVITED PRESENTATIONS, continued**

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Jonassen, D.H.(1995, December). *Using computers as Mindtools for engaging critical thinking*. International Conference on Computers in Education, Singapore

Jonassen, D.H. (1996, December). *Constructivism at a distance: Engaging constructive learning through distance education*. Seminar Teknologi Baru Dalam Pendidikan. Penang, Malaysia. (Keynote)

Jonassen, D.H. (1996, February). Mental models in the head and in the world (Invited Presentation) Office of Naval Research Workshop on Issues in Interactive Multimedia, New Mexico State University, Las Cruces, NM.

Jonassen, D.H (1996, November). *Facilitating Constructive Learning at a Distance Through Technology*. Universidade de Brasilia, Faculdade de Educaçao, Brasilia, Brasil.

Jonassen, D.H. (1996, August). *Facilitating constructive (meaningful) learning at a distance through technology*. 12th Annual Conference on Distance Teaching and Learning, Madison, WI. (Keynote)

Jonassen, D.H (1996, December)*Learning with Technology: Student-Constructed Multimedia/Hypermedia*. University of British Columbia.

Jonassen, D.H. (1997, August). *Mindtools for engaging critical thinking*. Graduate School Colloquium Keynote Address, University of Wollongong, Wollongong, NSW, Australia.

\* Jonassen, D.H. (1997, December) *A model for designing constructivist learning* International Conference on Computers in Education, Kuching, Sarawak, Malaysia.

\* Jonassen, D.H., Rohrer-Murphy, L. (1997, December). *Knowledge in the head vs. knowledge in the world: Where does learning occur?* International Conference on Computers in Education, Kuching, Sarawak, Malaysia (Keynote)

Jonassen, D.H. (1998, March). *Representing what we know and learn: Mindtools as an academic toolkit*. Max Planck Institut für Bildungsforschung, Berlin.

Jonassen, D.H. (1998, March). *A conceptual model for designing interactive learning environments*. Frei Universität Berlin.

Jonassen, D.H. (1998, March).*Learning from, in, and with multimedia: An ecological psychology perspective*. Deutschen Gesellschaft für Erziehungswissenschaft, Hamburg, FRG

Jonassen, D.H. (1998, March). *Constructivist learning environments: Engaging the learner*. Northeast Regional Agricultural Communicators in Education, University Park, PA (Keynote)

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## **INVITED PRESENTATIONS, continued**

Jonassen, D.H. (1998, April) Graduate Colloquium: *Constructivism and the technology of instruction*. Northern Illinois University, Dekalb, IL.

Jonassen, D.H. (1998, April) Graduate Colloquium: *Knowledge in the head and knowledge in the world: Strategies for assessing mental models*. Northern Illinois University, Dekalb, IL.

Jonassen, D.H. (1998, May). *Constructivist learning environments: Engaging meaningful learning at a distance*. Turkiye 2nd International Distance Education Symposium, Ankara, Turkiye (Keynote)

Jonassen, D.H. (1998, August). *Learner-centered principles: Technology as tools*. American Psychological Association, San Francisco, CA.

Jonassen, D.H. (1998, November). *Mindtools for supporting language learning*. JALT 98 (Japan Association for Language Teaching), 24th Annual JALT International Conference on Language Teaching and Learning and Educational Materials Exposition, November 20-23rd Omiya, Japan.

Jonassen, D.H. (1998, October). Representing what we know and learn in multiple ways using computers as Mindtools. Advancing the Development of Educators in Pennsylvania Through Technology Training Conference, Indiana University of Pennsylvania (Keynote).

Jonassen, D.H. (1998, December). *Learning WITH Technology*. 10th Innovative Technology Schools Conference. Wollongong, NSW, Australia, December 7-11, (Keynote)

Jonassen, D.H. (1998, December). *The Future of Technology in Education: A Post-Modern Problem with a Transformative Solution OR Whoever Controls the Technology Creates the Reality*. Australasian Society for Computers In Learning In Tertiary Education, Wollongong, NSW, Australia (Keynote)

Jonassen, D.H. (1999, February). *Computers as Mindtools for engaging critical thinking and representing knowledge*. EdTech99: Educational Technology Conference and Exhibition, Singapore Exhibition Centre, Sponsored by the Ministry of Education, Singapore (Keynote)

Jonassen, D.H. (1999, February). *Designing constructivist learning environments on the Web: Engaging students in meaningful learning*. EdTech99: Educational Technology Conference and Exhibition, Singapore Exhibition Centre, Sponsored by the Ministry of Education, Singapore (Keynote)

Jonassen, D.H. (1999, February). *Mindtools for engaging critical thinking and representing what we know*. National Institute of Education, Nanyang Technological University, Singapore.

## **INVITED PRESENTATIONS, continued**

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Jonassen, D.H. (1999, April). *Mindtools for engaging meaningful learning*. Alberta Teachers' Association Invitational Symposium on Technology in the Classroom — Teaching and Learning, Edmonton, Alberta, Canada (Keynote)

Jonassen, D.H. (1999, April). Mindtools for representing knowledge and engaging critical thinking. Invitational Symposium on Technology in the Classroom, Alberta Teachers' Association, Edmonton, Alberta, Canada (Keynote)

Jonassen, D.H. (1999, May). *Examining Activity Systems for Constructing Reality-Based Learning Environments*. University of Minnesota, Minneapolis, MN. (Invited Presentation).

Jonassen, D.H. (1999, May). Invited participant, NCREL Forum on Preparing Teachers for Technology Applications. Oak Brook, IL: North Central Regional Education Laboratory.

Jonassen, D.H., & Marra, R.M. (1999, June). Introduction to instructional systems. La Quatrieme Semaine Franco-Americaine: Environment, Multimedia, Multiculturalite. I.U.T., Universite de Artois, Bethune, France. (Keynote)

Jonassen, D.H. (1999, July). *Engaging and supporting thinking with computer Mindtools*. Eighth International Conference on Thinking, Edmonton, Alberta, Canada (Keynote)

Jonassen, D.H. (1999, August). *Supporting Learner-Centered Principles with Technology*. American Psychological Association, Boston, MA. (Invited by APA Education Directorate)

Jonassen, D.H. (1999, September). *Mindtools for engaging critical thinking and representing what we know and learn*. Information Communication and Technology Conference, Malmö, Sweden. (Keynote)

Jonassen, D.H. (1999, September). *Constructivist learning environments on the Web: Engaging students in meaningful learning*. Information Communication and Technology Conference, Malmö, Sweden. (Keynote)

Jonassen, D.H. (1999, September). Toward a Meta-Theory of Problem Solving: Designing for the Range of Problems, University of Göteborg, Göteborg, Sweden.

Jonassen, D.H. (1999, September). Engaging Meaningful Learning on the Web, University of Göteborg, Göteborg, Sweden.

Jonassen, D.H. (1999, October). *Integrating constructivism and learning technologies*. Integrated and Holistic Perspectives on Learning, Instruction, and Technology Conference, University of Bergen, Bergen, Norway. (Keynote)

## **INVITED PRESENTATIONS, continued**

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Jonassen, D.H. (2000, June). Computers as Mindtools for representing what we know and learn. Preparing Tomorrow's Teachers top Use Technology Conference, University of St. Thomas, Minneapolis, MN. (Keynote).

Jonassen, D.H. (2000, October). *The concept of mindtools*. Powering Up...Technology Conference, Central Alberta Regional Consortium, Red Deer, Alberta. (Keynote)

Jonassen, D.H. (2000, October). *Learning as activity*. (Invited paper as part of Presidential Symposium, In Search of the Meaning of Learning. Association for Educational Communications and Technology, Denver, CO.

Jonassen, D.H. (2000, November). *Knowledge is complex: Accommodating human ways of knowing*. American Society for Information Science, Chicago, IL .

Jonassen, D.H. (2000, November 22). *Using technologies to model student problem spaces*. International Conference on Computers in Education, Taipei, Taiwan (Keynote).

Jonassen, D.H. (2000, December 1). *E-learning to solve problems*. Ngee Ann Polytechnic, Singapore.

Jonassen, D.H. (2001, April). *Computers as mindtools for engaging critical thinking in learners*. Rural Technology Capacity Building Consortium Technology Conference, Northwest Missouri State University, Maryville, MO. (Keynote)

Marra, R.M., & Jonassen, D.H. (2001, May). Epistemic Beliefs: The Implicit Entailments of Constructivist Learning Environments. Instructional Design: Addressing the Challenges of Learning Through Technology and Curriculum. Institut für Erziehungswissenschaft, Albert-Ludwigs Universität, Freiburg, Germany.

Jonassen, D.H. (2001, June). E-learning to solve problems. ED MEDIA: World Conference on Educational Multimedia, hypermedia, & Telecommunications. Tampere, Finland (Keynote).

Jonassen, D.H. (2001, September). Engaging and supporting problem solving in online learning. Online Learning 2001, Los Angeles, CA (Featured Speaker).

Jonassen, D.H. (2001, September). What have we learned from research on online learning. Online Learning 2001, Los Angeles, CA (Panel Discussion).

Jonassen, D.H. (2002, May). *Modeling for meaningful learning*. Meaningful Learning Using Technology Leadership Symposium, Project TIME, Battle Creek, MI.

Jonassen, D.H. (2002, November). Model building for conceptual change. VI Congreso Iberoamericano Informatica Educativa, Vigo, Spain. (Keynote).

## **INVITED PRESENTATIONS, continued**

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Jonassen, D.H. (2003, September). *Learning to Solve Story Problems Online*. TERC, Boston, MA.

Jonassen, D.H. (2003, October). *Model-building*. Fifth Research Forum of Red Iberoamericana de Informática Educativa and X Technical Week in System Engineering of the Autonomous, University of Bucaramanga, Colombia (Keynote).

Jonassen, D.H. (2003, November). *The KITE program and the role of stories in learning: Case-based reasoning*. Texas A&M University.

Jonassen, D.H. (2004, April). *Solving problems online*. E-Learning Seminar, Dublin, Ireland (Keynote).

Jonassen, D.H. (2004, May). *Visual Modeling for Meaningful Learning: Using Visual Formalisms for Modeling Different Phenomena*. Visual Artifacts for the Organization of Knowledge – Searching for Synergies for Enhancing Learning, Knowledge Media research Center, University of Tübingen, Tübingen, Germany.

Jonassen, D.H. (2004, July). *Engaging and supporting problem solving online*. Australia Computers in Education Conference, Adelaide, South Australia, Australia (Keynote Address).

Jonassen, D.H. (2004, July). *Collaborative problem solving as activity systems*. International Society for Cultural and Activity Research, Wollongong, NSW, Australia (Keynote Address).

Jonassen, D.H. (2004, July). *Scaffolding argumentation online*. Faculty of Education and Social Work, University of Sydney, Sydney, NSW, Australia.

Jonassen, D.H. (2004, September). *Computers as Mindtools for Modeling Knowledge and Engaging Critical Thinking*. Connected Learning: The power of ICT in the Curriculum, Western Australia Department of Education and Training, Perth, Western Australia. (Keynote presentation)

Jonassen, D.H. (2004, September). *Model building for conceptual change: Using computers as cognitive tools*. 4<sup>th</sup> Conference of the Hellenic Scientific Association of Information and Communication Technologies in Education, “Information & Communications Technologies in Education,” Athens, Greece (Keynote address).

Jonassen, D.H. (October, 2004). *Model building for conceptual change: Using Mindtools to engage and support critical thinking*. University of Ioannina, Ioannina, Greece.

## **INVITED PRESENTATIONS, continued**

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Jonassen, D.H. (2004, November). Designs for learning to solve problems. Instructional Design Conference, University of Saskatchewan, Saskatoon, Saskatchewan, Canada (Keynote)

Jonassen, D.H. (2004, November). Learning to solve problems. PBL Symposium 2004: PBL in Action, Republic Polytechnic, Singapore. (Keynote)

Jonassen, D.H. (2005, February). *Engaging and supporting problem solving in an online environment*. Montana State University, Bozeman, Montana.

Jonassen, D.H. (2005, September). *Modeling for conceptual change*. Yonsei University, Seoul, Korea.

Jonassen, D.H. (2005, September). *The role of stories in learning: Case-based reasoning*. Hanyang University, Seoul, Korea.

Jonassen, D.H. (2005, September). *Modeling for conceptual change*. Korean Institute for Curriculum and Evaluation, Seoul, Korea.

Jonassen, D.H. (2005, September). *Problem solving online*. Seoul National University, Seoul, Korea.

Jonassen, D.H. (2005, September). *Engaging and supporting problem solving online*. Ewha Women's University, Seoul, Korea.

Jonassen, D.H. (2005, September). *The Future of Learning: Learning to Solve Problems*. 3<sup>rd</sup> Korea-Japan Joint International Conference, Learning Media and Technology for Future Education and Training, Busan, Korea (keynote).

Jonassen, D.H. (2005, September). *Problem-based Learning Workshop*. Center for Educational Research and Teaching Innovations, University of Missouri-Rolla, Rolla, MO

Jonassen, D.H. (2005, October). *Learning to solve problems online*. International Conference: eUniversity: eLearning as a factor of change in higher education, University of Trento, Rovereto, Trento, Italy (keynote).

Jonassen, D.H. (2005, October). Engineering Education Research Colloquy II, Indianapolis, IN.

Jonassen, D.H. (2005, December). Modeling with technology: Mindtools for conceptual change. Science and Mathematics Research Colloquium, University of Missouri.

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## **INVITED PRESENTATIONS, continued**

Jonassen, D.H. (2005, October). Engineering Education Research Colloquy II, Indianapolis, IN.

Jonassen, D.H. (2006, January). Learning with Technology: Not From It. MSTE Royal Bank Lecture, Queen's University, Kingston, Ontario.

Jonassen, D.H. (2006, February). Learning to solve problems. Helen DeVitt Joes Lecture, Texas Tech University, Lubbock, TX).

Jonassen, D.H. (2006, July). *Engaging and supporting problem solving online*. International Conference on ICT in Teaching and Learning: Enhancing Learning Through Technology, Hong Kong, Open University of Hong Kong (Keynote).

Jonassen, D.H. (2006, August). *Engaging Students in Meaningful Learning*. University of Kansas Teaching Summit, Center for Teaching Excellence, Lawrence, KS (Keynote).

Jonassen, D.H. (2006, August). Problem solving vs. critical thinking. Linn State College Faculty Convocation, Linn, MO (Keynote).

Jonassen, D.H. (2006, September). Engaging and supporting problem solving online. 2nd International Open and Distance Learning Symposium, Anadolu University, Eskesehir, Turkey (Keynote).

Jonassen, D.H. (2006, September). *ePBL: An emerging paradigm*. Gesellschaft für Medien in der Wissenschaft, Zurich, Switzerland (Keynote).

Jonassen, D.H. (2007, January). *Mindtools for engaging critical thinking*. Design to Learn Speaker Series, Center for Instruction, Research, and Technology, Indiana State University, Terre Haute, IN.

Jonassen, D.H. (2007, February). *Supporting Problem Solving in Blended Environments*. Centre for Educational Development, Nanyang Technological University, Singapore, Good to Great: Blended Learning - from theory to practice.

Miller, W.H., Jonassen, D.H., Schmidt, M., Easter, M., Ionas, I.G., Marra, R.M., Etter, R. & Meffert, B. (2007, July). Radiation Protection Technology Curriculum Development. Invited presentation at the Annual meeting of the Health Physics Society, Portland, OR.

Jonassen, D.H. (2007, March). Modeling for meaning making with Mindtools. Bolzano 07 Conversation, Bolzano, Italy (Keynote)

Jonassen, D.H. (2007, October). *Supporting teachers as problem solvers*. 10<sup>th</sup> Anniversary Celebration, Center for Technology in Learning and Teaching, Iowa State University, Ames, IA (Keynote).

## **INVITED PRESENTATIONS, continued**

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Jonassen, D.H. (2007, November). *Implementing PBL in engineering: Benefits and entailments*. American Society for Mechanical Engineering, Seattle, WA.

Jonassen, D.H. (2008, February). *Reasoning Requisites for Problem Solving*. On Being An Engineer: Cognitive Underpinnings of Engineering Education, Texas Tech University, Lubbock, TX.

Jonassen, D.H. (2008, June). *Learning to solve problems online*. Tennessee Board of Regents eLearning Summer Institute, Dickson, TN.

Jonassen, D.H. (2008, June). *The role of cases in problem solving*. Tennessee Board of Regents eLearning Summer Institute, Dickson, TN.

Jonassen, D.H. (2008, June). *Practicing and assessing problem solving skills*. Tennessee Board of Regents eLearning Summer Institute, Dickson, TN.

Jonassen, D.H. (2008, June). *Problem solving: Problem-specific vs. problem-general skills*. Association for Educational Communications and Technology, Summer Research Symposium, Bloomington, IN.

Jonassen, D.H. (2008, June). *The role of cases in learning to solve problems*. Association for Educational Communications and Technology, Summer Research Symposium, Bloomington, IN.

Jonassen, D.H. (2008, September). Learning to solve problems. 2<sup>nd</sup> African Conference on Curriculum Development in Higher Education, University of South Africa, Pretoria, South Africa (Keynote)

Tracey, M., Jonassen, D.H., Klein, J., Merrill, M.D., Richey, R., & Rossett, A. (2008, November). *Future directions of instructional design theory and practice: Reflections from leaders in the field*. Association for Educational Communications and technology, Orlando, FL.

Jonassen, D.H. (2009, April). *Engaging and Supporting Problem Solving in Science and Technology Disciplines*. New Trends in Science and Technology Education, Modena, Italy (Keynote).

Jonassen, D.H. (2009, April) Il computer come partner intellettuale (The computer as an intellectual partner. Lepida Scuola, Reggio Emilia, Italy.

Jonassen, D.H. (2009, June). *Problem Based Learning for Students and Faculty*. Red River College, Winnipeg, Manitoba, Canada.

## **INVITED PRESENTATIONS, continued**

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Jonassen, D.H. (2009, June). *Facilitating problem solving in chemistry*. 2009 Gordon Research Conference: Chemical Education Research and Practice. Colby College, Waterville, Maine.

Jonassen, D.H. (2009, November). Learning to Solve Problems. Cognition and Exploratory Learning in the Digital Age, IADIS International Conference, Rome, Italy.

**PROFESSIONAL CONFERENCE PRESENTATIONS**  
**(ED = ERIC Document System, \* = Published in Proceedings)**

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Jonassen, D.H. (1975, November). *Visual Literacy: A Bibliographic Survey*. Pennsylvania Learning Resources Association, Hershey, PA. (with D.J. Fork) (ED 131 837)

\* Jonassen, D.H. & Fork, D.J. (1976, March). *Theoretical Approach to the Study of Visual Literacy*. International Visual Literacy Association, Nashville, TN.

Jonassen, D.H. (1977, April). *Toward a Theory of Visual Learning: A Taxonomic Approach*. Association for Educational Communications and Technology, Miami, FL.

\* Jonassen, D.H. (1977, May). *Theories at Large: New Directions for Visual Literacy*. International Visual Literacy Association, Iowa City, IA.

\* Jonassen, D.H. (1977, September). *National AV Database Concept: Analysis of User Needs*. American Society for Information Science, Chicago, IL.

Jonassen, D.H. (1977, April). *A Discrepancy Model for ITV Evaluation: An Instrument for Teachers*. Association for Educational Communications and Technology, Kansas City, MO.

\* Jonassen, D.H. (1979, March). *Recall and Retrieval from Mapped and Programmed Texts*. Association for Educational Communications and Technology, New Orleans, LA, (ED 172 798)

Jonassen, D.H. (1979, May). *Relating Cognitive Styles to Self-Instruction*. North Carolina Association for Research in Education, Greensboro, NC.

Jonassen, D.H. (1980, March). *Personality and Cognitive Style Predictors of Teaching Style Preferences: An exploratory study*. North Carolina Association for Research in Education, Durham, NC (ED 207 500).

Jonassen, D.H. (1980, April). *Philosophical Bases for the Mediation of Experience*. Association for Educational Communications and Technology, Denver, CO.

\* Jonassen, D.H. (1980, March). *Learning from Television: What are the Limits? Television and the Learning Process*. National Conference on the Effect and Possible Use of Television with Youth, Washington, DC.

\* Jonassen, D.H. (1980, April). *Cognitive Style Predictors of Performance*, Association for Educational Communications and Technology, Denver, CO (ED 194 072)

Jonassen, D.H. (1981, April). *Multi-Image: Theory and Practice in Instructional Design*. North Carolina Community College Learning Resources Association, Fayetteville, NC.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H. (1981, April). *Content Treatment Interactions: A Better Design Model*. Association for Educational Communications and Technology, Philadelphia, PA (ED 207 499)

Jonassen, D.H. (1981, November). *Antecedents to Learning: Predictors of Academic Achievement*. North Carolina Association for Research in Education, Greensboro, NC.

Jonassen, D.H. (1982, March). *Comparison of Effects of Different Forms of Presentation on the Recall and Retrieval of Information*. American Educational Research Association, New York (ED 214 148)

Jonassen, D.H. (1982, December). *Graphic vs. Verbal Cognitive Organizers*. North Carolina Association for Research in Education, Durham, NC

\* Jonassen, D.H. (1983, January). *Patterns for Mapping Cognitive Structure*. Association for Educational Communications and Technology, New Orleans.

Jonassen, D.H. (1983, April). *Blocking and Type of Headings in Text: Effects on Recall and Retrieval*. American Educational Research Association, Montreal, Quebec (ED 228 313)

Jonassen, D.H. (1984, February). *Mapping cognitive structure with pattern notes: Results and implications as a design and diagnostic tool and learning strategy*. Postgraduate seminar, Department of Psychology, University of Keele.

\* Jonassen, D.H. (1984, March). *Effects of levels of generative processing of text*. British Psychological Society, University of Warwick, Coventry, West Midlands, UK.

\* Jonassen, D.H. (1984, April). *The electronic notebook: Integrating learning strategies in courseware to raise the level of processing*. Educational Technology International Conference, Bradford, West Yorkshire, UK

Jonassen, D.H. (1984, March). *Conveying and assessing structural knowledge*. Seminar presented at the Institute of Educational Technology, Open University, Milton Keynes, U.K.

Jonassen, D.H., Hartley, J., & Trueman, M. (1985, April). *The effects of learner generated versus experimenter-provided headings on immediate and delayed recall and comprehension*. American Educational Research Association, Chicago (ED 254 567)

\* Jonassen, D.H. & Pearson, M. (1986, January). *List vs. flow chart representations of algorithms for a search task*. Association for Educational Communications and Technology, Las Vegas, NV.

\* Jonassen, D.H. (1986, January). *Effects of Microcomputer Display on perceptual/cognitive tasks*. Association for Educational Communications and Technology, Las Vegas, NV.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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\* Jonassen, D.H. (1986, January). *State anxiety and exposure to microcomputers*. Association for Educational Communications and Technology, Las Vegas, NV.

Jonassen, D.H. (1986, January). *Applying hypertext principles to courseware design*. Association for Educational Communications and Technology, Las Vegas, NV.

\* Jonassen, D.H. (1986, November). *Attribute identification versus example comparison strategies in an interactive videodisc concept lesson*. Association for the Development of Computer-based Instructional Systems, Washington, D.C.

Hannum, W.H. & Jonassen, D.H. (1986, November). *Empirically based principles for the design of courseware*. Association for the Development of Computer-based Instructional Systems, Washington, DC.

Jonassen, D.H. & Nowell, C. (1987, February). *A revised approach to task selection criteria*. Association for Educational Communications and Technology, Atlanta, GA.

\* Jonassen, D.H. (1987, February). *Templates for supplanting the instructional designer in authoring systems*. Association for Educational Communications and Technology Atlanta, GA, February 28, 1987.

Jonassen, D.H. (1987, June). *Cognitive instruction: Teaching for thinking in the content areas*. 3rd National Thinking Skills Conference, Cincinnati, Ohio Public Schools (Invited presentation)

\* Jonassen, D.H. & Chiavacci, J. (1988, January). *Prototype development and acquisition in an interactive video concept lesson*. Association for Educational Communications and Technology, New Orleans, LA.

Jonassen, D.H. (1988, January). *Expert systems to facilitate performance analysis and needs assessment*. Association for Educational Communications and Technology, New Orleans, LA.

\* Grabinger, R.S. & Jonassen, D.H. (1988, January). *Independent study: Personality cognitive, and descriptive predictors*. Association for Educational Communications and Technology, New Orleans, LA.

\* Jonassen, D.H. (1988, January). *Developing a cognitive map of research and theory in instructional systems development*. Association for Educational Communications and Technology, New Orleans, LA.

Jonassen, D.H. (1988, January). *Issues that shape instructional design and technology curriculums*. Association for Educational Communications and Technology, New Orleans, LA.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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\* Tessmer, M. & Jonassen, D.H. (1988, January). Symposium: *A comparison of four approaches to the design of computer-based instruction*. Association for Educational Communications and Technology, New Orleans, LA.

Jonassen, D.H. (1988, February). *Using generic videodiscs to support concept instruction*. Colorado Educational Media Association, Colorado Springs, CO.

Jonassen, D.H., Wilson, B.G., & Grabinger, R.S. (1988, March). *Expert systems in training*. National Society for Performance and Instruction, Front Range Chapter, Denver, CO.

Jonassen, D.H. (1988, April). *Strategies for prototype development in an interactive video concept lesson*. American Educational Research Association, New Orleans, LA.

Jonassen, D.H. (1988, June). *Strategies for searching information databases on CD-ROM*. Technology In Education Conference, Snowmass, CO.

Jonassen, D.H. (1989, February). *Designing an instructional systems development hypertext*. Association for Educational Communications and Technology, Dallas, February 1-3, 1989.

Jonassen, D.H. (1989, February). *Windows as a metaphor for exploring knowledge bases*. Association for Educational Communications and Technology, Dallas, TX, February 1-3, 1989.

Jonassen, D.H. (1989, March). *Using expert systems for instructional systems design*. National Society for Performance and Instruction. National Society for Performance and Instruction, Denver, CO.

Jonassen, D.H. (1989, March). *How to structure hypertext for learning and access*. National Society for Performance and Instruction, Denver, CO.

Jonassen, D.H. (1989, March). *Hypertext and hypermedia: Design and application*. National Society for Performance and Instruction, Denver, CO.

\* Jonassen, D.H. (1989, June). *Semantic network approaches to structuring hypertext*. Hypertext II, York, West Yorkshire, UK.

\* Jonassen, D.H. (1989, November). *A mindtools curriculum for pre-service teachers*. Association for the Development of Computer-based Instructional Systems, Washington, DC.

Jonassen, D.H. & Grabinger, R.S. (1989, July). *Problems and issues in designing hypertext/* Association for the Development of Computer-based Instructional Systems, Washington, DC.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H. (1989, November). *Designing hypertext/hypermedia for learning*. Association for the Development of Computer-based Instructional Systems, Washington, DC.

\* Jonassen, D.H. (1989, November). *Instructional design and development advisor*. Association for the Development of Computer-based Instructional Systems, Washington, DC.

Jonassen, D.H., Grabinger, R.S. & Wang, S. (1990, February). *IDD Advisor: Merging expert systems and hypertext*. Association for Educational Communications and Technology, Anaheim, CA.

\* Wilson, B.G. & Jonassen, D.H. (1990, February). *Analyzing automated Instructional systems: Metaphors from related design professions*. Association for Educational Communications and Technology, Anaheim, CA.

Jonassen, D.H. & Grabinger, R.S. (1990, February). *Selecting instructional strategies: Taxonomy, decision table, and expert system*. Association for Educational Communications and Technology, Anaheim, CA.

Jonassen, D.H. & Wilson, B.G. (1990, February). *Mindtools curriculum for pre-service teachers*. Association for Educational Communications and Technology, Anaheim, CA.

\* Jonassen, D.H., Jost, K., Reid, D., Kenny, R. & Beissner, K. (1990, February). *Conveying, assessing, strategies for structural knowledge*. Association for Educational Communications and Technology, Anaheim, CA.

Jonassen, D.H. (1990, February). *Hypertext for structuring knowledge bases*. Society for Technical Communication Colorado Conference, Denver, CO.

\* Jonassen, D.H. & Wang, S. (1991, February). *Conveying structural knowledge in hypertext knowledge bases*. Association for Educational Communications and Technology, Orlando, FL.

Jonassen, D.H. & Wang, S. (1990, November). *The physics tutor: Building and intelligent tutor from hypertext and expert systems*. Association for the Development of Computer-based Instructional Systems, San Diego, CA.

\* Jonassen, D.H. & Wang, S. (1990, November). *Conveying structural knowledge in hypertext knowledge bases*. Association for the Development of Computer-based Instructional Systems, San Diego, CA.

Grabinger, R.S. & Jonassen, D.H. (1990, November). *Adding hypermedia interface and help system to an expert system advisor*. Association for the Development of Computer-based Instructional Systems, San Diego, CA.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H. (1990, November). Intelligent tutoring with hypertext and expert systems. Rocky Mountain Association for Computers in Education, Denver, CO.

Jonassen, D.H. (1990, November). *Hypertext vs. expert system based help system*. Rocky Mountain Association for Computers in Education, Denver, CO.

Jonassen, D.H. & Wang, S. (1991, February). *Building and intelligent tutor from hypertext and expert systems*. Association for Educational Communications and Technology, Orlando, FL

Grabinger, R.S., Jonassen, D.H. & Wang, S. (1991, February). *Instructional tactic selector: A melding of expert systems and hypermedia*. Association for Educational Communications and Technology, Orlando, FL.

Duffy, T. & Jonassen, D.H. (1991, April). *Objectivistic and constructivistic conceptions of nature*. American Educational Research Association, Chicago, IL.

Jonassen, D.H., Wilson, B.G. & Wang, S. (1991, July). *Instructional applications of expert systems: Experiences and research*. Summer Instructional Technology Institute, Technology Enabled Instructional Design, Utah State University, Logan, Utah.

Jonassen, D.H. & Dunlap, J. (1991, November). *Causal modeling for structuring computer-based simulations*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

\* Jonassen, D.H. & Wang, S. (1991, November). *Cognitive outcomes of building expert systems*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

Jonassen, D.H., Dallman, B., Wang, S., & Hamilton, R. (1991, November). *Modeling metacognitive skills in an expert system: A cognitive simulation*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

Jonassen, D.H., Owens, D., & Heckman, B. (1991, November). *Designing a multi-dimensional hypermedia on Doppler Radar interpretation*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

\* Jonassen, D.H. & Wang, S. (1991, November). *Generative processing of structural knowledge in hypertext*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

Jonassen, D. & Duffy, T. (1991, November). *Designing constructivist learning environments: Implications for instructional design*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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\* Jonassen, D., Ambruso, D., & Olesen, J. (1991, November). *Medical hypertext based upon cognitive flexibility theory*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

Jonassen, D.H. (1991, November). *Hyper applications in health science education*. Association for the Development of Computer-based Instructional Systems, St. Louis, MO.

Jonassen, D.H. (1991, December). *Analysis of distance learning technologies*. 13th Interservice/Industry Training Systems Conference & 9th Technology and Innovations in Training & Education Conference, Orlando, FL.

\* Jonassen, D.H. & Cole, P. (1991, February). Learner-generated vs. instructor-provided analysis of semantic relationships. Association for Educational Communications and Technology, Washington, DC.

\* Jonassen, D.H. & Wang, S. (1991, February). *Acquiring structural knowledge from semantically structured hypertext*. Association for Educational Communications and Technology, Washington, DC.

Jonassen, D.H. & Wang, S. (1991, February). *Collaborative annotation of a book on hypertext design*. Association for Educational Communications and Technology, Washington, DC.

Jonassen, D.H. & Wang, S. (1991, February). *Production rule vs. frame-based formalisms for modeling knowledge*. Association for Educational Communications and Technology, Washington, DC.

Jonassen, D.H. & Wang, S. (1991, April). *Cognitive outcomes of building expert systems*. American Educational Research Association, San Francisco, CA.

Jonassen, D.H. (1992, June). *Assessing structural knowledge outcomes from semantically structured hypertext*. European Conference on Educational Research, Enschede, Netherlands.

Jonassen, D.H. (1992, June). *Computer based learning environments: Entailments, problems and prospects* (Plenary session), European Conference on Educational Research, Enschede, Netherlands.

Jonassen, D.H. (1992, October). *Mindtools in schools: Do they work?* International Society for Technology in Education, Denver, CO, October 3, 1992.

Jonassen, D.H. (1992, November). *Computer-based semantic networks: Applications and implications* (Workshop). Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

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**PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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\* Jonassen, D.H. & Dunlap, J.C. (1992, November). *Collaborative knowledge construction in an argument-based hypertext*. Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

Jacobson, M.J., Tripp, S., Merrill, M.D., Jonassen, D.H., & Leshin, C. (1992, November). *What is the place of theory in instructional design and educational technology? A discussion of the implications for research and application* (Invited Symposium). Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

\* Jonassen, D.H. (1992, November). *Effects of building expert system rule bases on cognitive structures and critical thinking*. Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

Jonassen, D.H. (1992, November). *Conceptual and methodological problems in hypermedia research*. Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

Dunlap, J.C. & Jonassen, D.H. (1992, November). *Simulating the reasoning process with causal modeling techniques*. Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

Wang, S. & Jonassen, D.H. (1992, November). *Modeling flexibility to support deeper level processing from a cognitive flexibility hypertext*. Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

Jonassen, D.H. & Wang, S. (1992, November). *Evaluating mindtools in schools*. Association for the Development of Computer-based Instructional Systems, Norfolk, VA.

Tessmer, M. & Jonassen, D.H. (1993, January). *Evaluating computer-based training for repurposing to multimedia: A case study*. Association for Educational Communications and Technology, New Orleans, LA.

\* Beissner, K., Jonassen, D.H., & Grabowski, B.L. (1993, January). *Using and selecting graphic techniques to acquire structural knowledge*. Association for Educational Communications and Technology, New Orleans, LA.

Dunlap, J.C. & Jonassen, D.H. (1993, January). *Collaborative knowledge construction environments: An example of argument based hypertext*. Association for Educational Communications and Technology, New Orleans, LA.

Wang, S. & Jonassen, D.H. (1993, January). *Flexibility in processing cognitive flexibility hypertexts*. Association for Educational Communications and Technology, New Orleans, LA.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Marra, R.M., Tessmer, M., & Jonassen, D.H.(1993, January). *Six human computer interface principles for instructional design*. Association for Educational Communications and Technology, New Orleans, LA.

\* Jonassen, D.H. & Cole, P. (1993, January). *Learner-generated vs. instructor provided analysis of semantic relationships*. Association for Educational Communications and Technology, New Orleans, LA,.

Jonassen, D.H. & Wang, S. (1993, January). *Effectiveness of Mindtools in Schools*. Association for Educational Communications and Technology, New Orleans, LA.

Jonassen, D.H., Allen, B.S., & Wang, S. (1993, April). *Applications of semantic networks for learning and instructional design*. American Educational Research Association, Atlanta, GA.

Jonassen, D.H.(1993, April). *Effects of semantic net versus production rule representations on structured knowledge*. American Educational Research Association, Atlanta, GA.

Wang, S. & Jonassen, D.H. (1993, April). *Investigating individual differences and performance in cognitive flexibility hypertexts*. American Educational Research Association, Atlanta, GA.

Wang, S. Jonassen, D.H. (1993, April). *Using computer-based concept mapping to foster critical thinking*. American Educational Research Association, Atlanta, GA.

Jonassen, D.H. (1993, October). *Evaluating learning outcomes from constructivist learning environments*. Advancements in Integrated Delivery Technologies (Center for Applied Psychology and U.S. Air Force Armstrong Laboratories), Denver, CO, October, 223-23, 1993.

Jonassen, D.H. (1994, February). *Representing, conveying, and acquiring structural knowledge: Implications for instructional design*. Association for Educational Communications and Technology, Nashville, TN.

Koneman, P.A. & Jonassen, D.H. (1994, February). *Hypertext interface design and structural knowledge*. Association for Educational Communications and Technology, Nashville, TN.

Jonassen, D.H. (1994, June). *Conceptual models for structuring computer mediated collaborative knowledge construction*. International Conference on Distance Education, University Park, PA: Scanticon Conference Center.

Jonassen, D.H. (1994, October). *What might constructivism mean in education* . Penn State Education Summit: Issues on the Forefront. University Park, PA: Scanticon Conference Center.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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\* Doricott, D. & Jonassen, D.H. (1995, February). *Utilization of a fluid system microworld in engineering education: A comparison of worked example and trial and error learning methods*. Association for Educational Communications and Technology, Anaheim, CA.

\* Li, T., Jonassen, D.H., & Lambert, C. (1995, February). *Modeling vs. coaching of argumentation in a case-based learning environment*. Association for Educational Communications and Technology, Anaheim, CA.

Ross, S., Clark, R., Kozma, R., Jonassen, D.H., Morrison, G., Reiser, R., & Shrock., S. (1995, February). *Delivery trucks or groceries? More food for thought on whether media (will, may, can't) influence learning* (Presidential Session). Association for Educational Communications and Technology, Anaheim, CA.

Wilson, B.G., Orey, M., Jonassen, D.H., Lin, X. (1995, February). *Situated learning and everyday cognition: Implications for instructional design*. Association for Educational Communications and Technology, Anaheim, CA.

Cognitive Learning Environments Group at Penn State. (1995, February). *Designing constructivist learning environments*. Association for Educational Communications and Technology, Anaheim, CA.

Jonassen, D.H. & Li, T. (1995, April). *Modeling vs. coaching of argumentation in case-based learning environments*. American Educational Research Association, San Francisco, CA.

Jonassen, D.H., Doricott, D., & Engels, R. *Comparing the effectiveness of worked examples and trial-and-error learning methods in an engineering microworld*. American Educational Research Association, San Francisco, CA.

Jonassen, D.H., Wilson, B.G., Orey, M., Nelson, W., & Duffy, T.M. *Situated learning: What implications for instructional design*. American Educational Research Association, San Francisco, CA.

Jonassen, D.H., & Reeves, T.C. (1995, June). *Research support for multimedia and hypermedia as Mindtools*. World Conference on Educational Media (ED MEDIA 95), Graz, Austria.

Jonassen, D.H. (1995, June). *Scaffolding reasoning in case-based learning environments*. World Conference on Educational Media (ED MEDIA 95), Graz, Austria.

Jonassen, D.H. (1994, October). *Mindtools for critical thinking: Using computers constructively*. Penn State Education Summit: Issues on the Forefront. University Park, PA: Scanticon Conference Center.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H. (1995, June). *An instructional design model for designing constructivist learning environments*. World Conference on Educational Media (ED MEDIA 95), Graz, Austria.

Jonassen, D.H., Li, T., & Popp, D. (1995, June). *Computer-based Mindtools for critical thinking*. National Educational Computing Consortium, Baltimore, MD.

Jonassen, D.H. (1995, September). *Reconceptualizing learning in undergraduate programs: Implications for engineering education*. Invited presentation, Center for Innovation in Engineering Education, Arizona State University, Tempe, AZ.

Jonassen, D.H. (1995, October). *Computer supported collaborative learning*. Penn State Education Summit: Collaborating for the Planned Curriculum. University Park, PA: Scanticon Conference Center.

McKillop, A.M., Myers, J., & Jonassen, D.H. (1995, October). *Learning with technology: Student design of multimedia/hypermedia*. Penn State Education Summit: Collaborating for the Planned Curriculum. University Park, PA: Scanticon Conference Center.

\* Jonassen, D.H. (1995, October). *Operationalizing mental models: Strategies for assessing mental models to support meaningful learning and design supportive learning environments*. Computer Support for Collaborative Learning 95, Indiana University Bloomington, IN.

Jonassen, D.H. (1995, October). *Computer-based Mindtools for critical thinking*. Pennsylvania Department of Education/Pennsylvania Association of Federal Program Coordinators Educational Technology Conference, Altoona, PA.

Jonassen, D.H. (1995, October). *Designing constructivist learning environments: An instructional design model*. Pennsylvania Department of Education/Pennsylvania Association of Federal Program Coordinators Educational Technology Conference, Altoona, PA.

Jonassen, D.H. (1995, November). *Developing communities of learners*. Pennsylvania School Boards Association/Pennsylvania Association of School Business Officials Technology Conference: Technology in the Schools: The Last and Next 100 Years, Penn State Scanticon Conference Center, State College, PA.

McKillop, A.M., Myers, J., & Jonassen, D.H. (1995, November). *Learners as designers: Learning by producing multimedia and hypermedia*. Pennsylvania School Boards Association/Pennsylvania Association of School Business Officials Technology Conference: Technology in the Schools: The Last and Next 100 Years, Penn State Scanticon Conference Center, State College, PA.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H. (1995, November). *Mindtools: Intellectual partners for critical thinking*. Pennsylvania School Boards Association/Pennsylvania Association of School Business Officials Technology Conference: Technology in the Schools: The Last and Next 100 Years, Penn State Scanticon Conference Center, State College, PA.

Li, T.C. & Jonassen, D.H. (1996, February). *The effect of case-based lesson structure on retention and transfer*. Association for Educational Communications and Technology, Indianapolis, IN.

Moller, L. & Jonassen, D.H. (1996, February). *An instructional design model for problem solving*. Association for Educational Communications and Technology, Indianapolis, IN.

Tessmer, M. & Jonassen, D.H. (1996, February). *Individual learning* (Invited Presentation). US Air Force "Cognitive Approaches to Work Behavior." Penn State Scanticon Conference Center, State College, PA

Jonassen, D.H. (1996, February). New ways to learn mean new ways to teach university science (Invited presentation, Science Education Lecture Series). Eberly College of Science, Pennsylvania State University.

Robinson, D.H., Katayama, A.D., Armbruster, B.B., Dubois, N.F., Grouix, J.G., Jonassen, D.H., Kiewra, K.A., & Winn, W.D. (1996, April). *Graphic organizers or concept maps? Why studying either adjunct display will probably not lead to improved classroom test performance*. American Educational Research Association, New York, NY.

Jonassen, D.H. & Li, T.C. (1996, April). *Modeling argumentation and reasoning in a case-based learning environment*. American Educational Research Association, New York, NY.

\* Jonassen, D. H. & Li, T.C. (1996, July). *Modeling justification and reflection in case-based learning*. 2nd International Conference on the Learning Sciences, Evanston, IL, Northwestern University.

\* Jonassen, D. H. (1996, July). *Scaffolding causal, diagnostic reasoning in a case-based learning environment in medicine*. 2nd International Conference on the Learning Sciences, Evanston, IL, Northwestern University.

Jonassen, D. H. & Henning, P.H. (1996, July). *Mental models: Knowledge in the head and knowledge in the world*. 2nd International Conference on the Learning Sciences, Evanston, IL, Northwestern University.

\* Marra, R.M. & Jonassen, D. H. (1996, July). *Transfer effects of semantic networks on expert systems: Mindtools at work*. 2nd International Conference on the Learning Sciences, Evanston, IL, Northwestern University.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Lake, C., Jonassen, D.H., & Tessmer, M. (1997, February) *Constructivism's implications for formative evaluation*. Association for Educational Communications and Technology, Albuquerque, NM.

Jonassen, D.H., & Henning, P. (1997, February). *Knowledge in the head and knowledge in the world: Strategies for assessing mental models*. Association for Educational Communications and Technology, Albuquerque, NM.

Marra, R.M., Jonassen, D.H., McKnight, P. (1997, February). *Expert systems as cognitive tools in meteorology*. Association for Educational Communications and Technology, Albuquerque, NM.

Tessmer, M. & Jonassen, D.H. (1997, February). *An outcomes-based taxonomy for the design, research, and evaluation of instructional systems*. Association for Educational Communications and Technology, Albuquerque, NM.

Marra, R.M., & Jonassen, D.H. (1997, March). *Transfer effects of semantic networks on expert systems: Mindtools at work*. American Educational Research Association, Chicago, IL.

Jonassen, D.H. (1997, March). *Research reflections and directions: Review of the new handbook of research on educational communications and technology*. American Educational Research Association, Chicago, IL.

Jonassen, D.H., Rohrer-Murphy, L. (1998, February). *Activity theory as a framework for designing task analysis for constructivist learning environments*. Association for Educational Communications and Technology, St. Louis, MO.

Jonassen, D.H., Carr, C., Breman, J., Toci, M., Rubisch, J., & Taricani, E. (1998, February). *Constructivist learning environments: A design model and examples*. Association for Educational Communications and Technology, St. Louis, MO.

Jonassen, D.H. (1998, March). *Constructivist learning environments: Engaging the learner*. Northeast Regional Agricultural Communicators in Education Conference, State College, PA.

Tessmer, M., & Jonassen, D.H. (1998, April). *A learning outcomes taxonomy for the design, evaluation, and research of instructional systems*. American Educational Research Association, San Diego, CA.

Jonassen, D.H., & Hong, N.S. (1999, April). *Predictors of Well-Structured and Ill-Structured Problem Solving in a Project-Based Learning Environment*. American Educational Research Association, Montreal, Quebec, Canada.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H., & Kwon, H.I. (1999, April). *Effects of Computer Conferencing on Group Problem Solving*. American Educational Research Association, Montreal, Quebec, Canada.

Jonassen, D.H., & Moller, L.J. (1999, April). *Instructional; design models for problem-solving outcomes*. American Educational Research Association, Montreal, Quebec, Canada.

Colaric, S., & Jonassen, D.H. (2000, February). *Intentional information searching as a Mindtool*. Association for Educational Communications and Technology, Long Beach, CA.

Carr, C. & Jonassen, D.H. (2000, February). *The effect of computer-supported collaborative argumentation (CSCA) on argumentation skills in second year law students: A dissertation study*. AECT, Long Beach, CA.

Harvey, D. M., & Jonassen, D.H. (2000, February). *Exploring the impact of task in learning with cognitive flexibility hypertexts*. AECT, Long Beach, CA.

Harvey, D.M., Clariana, R., & Jonassen, D.H. (2000, June). *Cognitive flexibility hypertexts and the role of the learning tasks*. World Conference on Educational Multimedia, Hypermedia, & telecommunications. Montreal, Quebec, Canada.

Jonassen, D.H. (2000, October). *Technology tools for representing problem spaces*. Association for Educational Communications and Technology, Denver, CO.

Jonassen, D.H. (2000, October). *A typology of problem-solving outcomes*. Association for Educational Communications and Technology, Denver, CO.

Jonassen, D.H. (2000, October). *Learning as activity*. (Invited paper as part of Presidential Symposium, In Search of the Meaning of Learning. Association for Educational Communications and Technology, Denver, CO.

Christensen, D., Jonassen, D.H., & Dunnagan, C. (2000, October). *What is wrong with ISD: What can a designer do?.* Association for Educational Communications and Technology, Denver, CO.

Jonassen, D.H. (2001, March). *Computers for critical thinking*. Higher Education Learning & Information exchange: Converging technologies: Effective Approaches in Distributed Learning. Osage Beach, MO.

Jonassen, D.H. (2001, April). *Toward a design theory of problem solving*. American Educational Research Association, Seattle, WA.

Jonassen, D.H. (2001, June). *Epistemological development: An implicit entailment of constructivist learning environments*. ED MEDIA: World Conference on Educational Multimedia, Hypermedia, and Telecommunications, Tampere, Finland.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Marra, R.M., & Jonassen, D.H. (2001, June). *Limitations of online courses: Barriers to supporting constructive learning*. ED MEDIA: World Conference on Educational Multimedia, Hypermedia, and Telecommunications. Tampere, Finland.

Jonassen, D.H. (2001, November). *Cognitive Models of Problem Solving*, Association for Educational Communications and Technology, Atlanta, GA.

Jonassen, D.H. (2001, November). *Systems Dynamics of Problem Solving*, Association for Educational Communications and Technology, Atlanta, GA.

Jonassen, D.H. (2001, November). *Visions of Distance Education: A Panel Discussion*, Association for Educational Communications and Technology, Atlanta, GA.

Jonassen, D.H., & Remidez, H. (2002, January). *Mapping alternative discourse structures onto computer conferences*. Computer Support for Collaborative Learning, Boulder, CO.

Jonassen, D.H. & Hernandez-Serrano, J. (2002, April). *The effects of case libraries on problem solving*. American Educational Research Association, New Orleans, LA.

Jonassen, D.H. (2002, April). *Building a cognitive simulation of metacognitive reasoning*. American Educational Research Association, New Orleans, LA.

Jonassen, D.H. & Cho, K.L. (2002, April). *The effects of argumentation scaffolds on problem solving*. American Educational Research Association, New Orleans, LA.

Jonassen, D.H. (2002, April). *Problem solving online*. American Educational Research Association, New Orleans, LA.

Wijekumar, K., & Jonassen, D.H. (2002, April). *Experts, computers, and ill-structured problem solving*. American Educational Research Association, New Orleans, LA.

Strobel, J., Cernusca, D., Wang, F.K., Jonassen, D.H., Wedman, J., Shyu, C.R., Moore, J., He, W., Hamsomburana, J., Means, T., & Hsieh, H.C. (2002, June). *Learning to integrate technology in the classroom: A case-based reasoning approach*. Paper presented at the annual meeting of ED MEDIA: World Conference on Educational Multimedia, Hypermedia, & Telecommunications, Denver, CO.

Jonassen, D.H. (2002, November). *An instructional design architecture for teaching story problems*. Association for Educational Communications and Technology, Dallas, TX.

Gottdenker, J., Jonassen, D.H., Strobel, J., Hong, R.Y., Hung, W., & Oh, S. (2002, November). *Building cognitive simulations with systems modeling tools*. Association for Educational Communications and Technology, Dallas, TX.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Wang, F.K., Jonassen, D.H., Strobel, J., & Cernusca, D. (2002, November). *A searchable case library of technology integration stories*. Association for Educational Communications and Technology, Dallas, TX.

Jonassen, D.H., & Churchill, D. (2002, December). *Learning Objects in E-learning*. Paper presented at the 4th Asia-Pacific Conference on Problem-Based Learning, Hatyai, Songkora, Thailand.

Jonassen, D.H., Strobel, J., & Cernusca, D. (2003, March). *Modeling for conceptual change*. Higher Education Learning & Information Exchange, Osage Beach, MO.

Jonassen, D.H. (2003, March). *Problem solving online*. Higher Education Learning & Information Exchange, Osage Beach, MO.

Jonassen, D.H. (2003, April). *The case against learning theories*. American Educational Research Association, Chicago, IL.

Jonassen, D.H. (2003, April). *Building cognitive simulations with systems dynamics tools*. American Educational Research Association, Chicago, IL.

Marra, R.M., & Jonassen, D.H. (2003, April). *Faculty beliefs: The impact of the design of constructivist learning environments on teaching faculty epistemologies*. American Educational Research Association, Chicago, IL.

Wichmann, A., Gottdenker, J., Jonassen, D., Mildrad, M. (2003). *Developing a Framework for Conceptual Change within the Scientific Inquiry*. ICALT 2003, Athens, Greece.

Jonassen, D.H. (2003, October). *Instructional Design and Design Problem Solving: Is There a Match?* Association for Educational Communications and Technology, Anaheim, CA.

Jonassen, D.H. (2003, October). *Modeling for Conceptual Change*. Association for Educational Communications and Technology, Anaheim, CA.

Jonassen, D.H. (2003, October). *An Overview of the New Revised Handbook of Research on Educational Communications and Technology*. Association for Educational Communications and Technology, Anaheim, CA.

Wichmann, A., Gottdenker, J., Jonassen, D., Mildrad, M. (2003, December). *Model Based Reasoning within a Reflective Prediction Cycle to Foster Conceptual Change*. International Conference on Computers in Education, Hong Kong.

Jonassen, D.H. (2004, October). *Center for the study of collaborative problem solving*. Association for Educational Communications and Technology, Chicago, IL.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Strobel, J., & Jonassen, D.H. (2004, October). *Cognitive Flexibility Authoring System: Design Rationale and Development*. Association for Educational Communications and Technology, Chicago, IL.

Strobel, J., Hung, W., Jonassen, D.H., Reid, D. (2004, October). *Construction of Complexity: Implementation of a Cognitive Flexibility Authoring System Into a Religious Studies Classroom*, Association for Educational Communications and Technology, Chicago, IL.

Strobel, J. & Jonassen, D.H. (2004) Supporting being historians: Historical reasoning with a cognitive flexibility authoring hypertext. In Gerjets, P., Kirschner, P.A., Elen, J. & Joiner, R. (Eds.) (2004). *Instructional design for effective and enjoyable computer-supported learning*. Proceedings of the first joint meeting of the EARLI SIGs Instructional Design and Learning and Instruction with Computers (CD-ROM), pp. 208-219.

Jonassen, D.H. (2004, October). *Learning to solve complex (real-world) problems*. Training for Tomorrow 2004, National Aeronautics and Space Administration, Johnson Space Center, Houston TX.

Jonassen, D.H., & Erdelez, S. (2004, November). Bibliographic access using a case-based reasoning engine. American Society for Information Science and Technology, Providence, RI.

Ferry, B., Kervin, L., Puglisi, S., Turbill, J., Cambourne, B., Hedberg, J., & Jonassen, D. (2004, December). *The design of an on-line classroom simulation to enhance the decision-making skills of beginning teachers*. Australian Association for Research in Education, Melbourne, Australia.

Kervin, L., Cambourne, B., Ferry, B., Turbill, J., Hedberg, J., & Jonassen, D. (2004, December). *From classroom reality to virtual classroom: The role of teacher-created scripts in the development of classroom simulation technology*. Australian Association for Research in Education, Melbourne, Australia.

Turbill, J., Kervin, L., Ferry, B., Cambourne, B., Hedberg, J., & Jonassen, D. (2004, December). *The use of embedded tools and support materials within a classroom simulation to support quality teaching*. Australian Association for Research in Education, Melbourne, Australia.

Jonassen, D.H., & Erdelez, S. (2005, March). *Teachers' Perceptions About Usability of a Case Library*. Teaching & Learning Symposium at New York University.

Jonassen, D.H. & Oh, S. (2005, April). *Scaffolding argumentation during problem solving*. American Educational Research Association, Montreal, Quebec, Canada.

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#### **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H. ,& Strobel, J. (2005), April. *Using case-based reasoning to analyze engineering tasks*. American Educational Research Association, Montreal, Quebec, Canada.

Jonassen, D.H. (2005, April). *Learning to solve problems*. American Educational Research Association, Montreal, Quebec, Canada.

Jonassen, D.H. (2005, April). *Scaffolding argumentation*. American Educational Research Association, Montreal, Quebec, Canada.

Jonassen, D.H. (2005, April). *Conceptual change in religious studies: Learning with a cognitive flexibility authoring system*. American Educational Research Association, Montreal, Quebec, Canada.

Strobel, J., & Jonassen, D.H. (2005, April). *Contextual epistemologies: Differences on epistemological beliefs with individual students*. American Educational Research Association, Montreal, Quebec, Canada.

\* Jonassen, D.H., Schmidt, M.A, Miller, W., & Neumeyer, G. (2005, June). *A problem-based introduction to nuclear sciences*. American Society of Engineering Education, Portland, OR.

\* Jonassen, D.H., Strobel, J., & Lee, C.B. (2005, June). *Everyday problem solving in engineering: Lessons for educators*. American Society of Engineering Education, Portland, OR.

Strobel, J., Spector, J.M. Jonassen, D.H., Seel, N., & Hung, W. (2005, October). *Learning by modeling*. Association for Educational Communications and Technology, Orlando, FL.

Jonassen, D.H., Strobel, J., & Ionas, I.G. (2005, October). *Crisscrossing: A web environment for authoring cognitive flexibility hypertexts*. Association for Educational Communications and Technology, Orlando, FL.

Jonassen, D.H. & Erdelez, S. 2005, October). *Usability of a case library of technology integration stories*. Association for Educational Communications and Technology, Orlando, FL.

Cernusca, D., Jonassen, D.H., Ionas, I.G., & Friesen, S. (2005, October). *Supporting the introduction of new testament interpretation methods in a survey course with a hypertext-based learning environment: An exploratory study*. Association for Educational Communications and Technology, Orlando, FL.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

---

Jonassen, D.H. (2005, October). *A constructivist's perspective on functional contextualism*. Association for Educational Communications and Technology, Orlando, FL.

Jonassen, D.H. (2006, June). *Modeling for conceptual change*. AECT Summer 2006 Research Symposium, Bloomington, IN.

Cho, M.H., Wescott, D., Jonassen, D., Oh, S. (2006, October). *The effects of epistemological beliefs on conceptual change in biology*. Association for Educational Communications and Technology, Dallas, TX.

Jonassen, D., (2006, October). *A new taxonomy of meaningful learning*. Association for Educational Communications and Technology, Dallas, TX.

Jonassen, D., (2006, October). *On the nature of concepts in learning and instruction* (Award Presentation). Association for Educational Communications and Technology, Dallas, TX.

Burton, J., Jonassen, D.H., Reigeluth, C.M., Spector, J.M. (2006, October). *Building the research bridge: How do We connect theory to research?* Association for Educational Communications and Technology, Dallas, TX.

Jonassen, D.H. (2006, November). *Building models with Mindtools*. Focus on Teaching and Technology: A Regional Conference, Center for Teaching and Learning, University of Missouri-St. Louis, St. Louis, MO.

\* Schmidt, M.M., Easter, M.A., Ionas, I.G., Jonassen, D.H., Miller, W.H., Marra, R.M., & Neumeyer, G.M. (2006, November). *Advancing a new paradigm to address workforce needs for radiation protection associates degree education*. Paper presented at the Winter Meeting the American Nuclear Society and Nuclear Technology Expo, "Ensuring the Future in Times of Change: Nonproliferation and Security, Albuquerque, NM.

\* Schmidt, M.M., Easter, M.A., Marra, R.R., Jonassen, D.H., Wang, J., Miller, W.H., & Neumeyer, G.M. (2006, November). *Development of a Problem-Based Introduction to Nuclear Science and Engineering to Increase Diversity in the Future Nuclear Workforce*. Winter Meeting the American Nuclear Society and Nuclear Technology Expo, "Ensuring the Future in Times of Change: Nonproliferation and Security, Albuquerque, NM.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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\* Schmidt, M. M., Easter, M. A., Wang, J., & Jonassen, D. (2006, September). *Investigation of an online, problem-based introduction to nuclear sciences: A case study*. Proceedings of American Nuclear Society's Topical Meeting on Reactor Physics PHYSOR-2006. Vancouver, BC.

Cho, M.H., Wescott, D., Jonassen, D., Oh, S. (2006, October). The effects of epistemological beliefs on conceptual change in biology. Association for Educational Communications and Technology, Dallas, TX.

Spector, J.M., Merrill, M.D., Merrienboer, J., Driscoll, M., Shute, V., Jonassen, D., Gibbons, A. (2006, October). Update on the third edition of the Handbook of Research on Educational Communications and Technology. Association for Educational Communications and Technology, Dallas, TX.

Jonassen, D., (2006, October). A new taxonomy of meaningful learning. Association for Educational Communications and Technology, Dallas, TX.

Burton, J., Jonassen, D.H., Reigeluth, C.M., Spector, J.M. (2006, October). Building the research bridge: How do we connect theory to research? Association for Educational Communications and Technology, Dallas, TX.

\* Schmidt, M.M., Easter, M.A., Marra, R.R., Jonassen, D.H., Wang, J., Miller, W.H., & Neumeyer, G.M. (2006, November). *Development of a Problem-Based Introduction to Nuclear Science and Engineering to Increase Diversity in the Future Nuclear Workforce*. Winter Meeting and Nuclear Technology Expo "Ensuring the Future in Times of Change: Nonproliferation and Security, Albuquerque, NM.

Jonassen, D.H. (2007, April). *The role of case-based reasoning in ill-structured problem solving*. American Educational Research Association, Chicago, IL.

Jonassen, D.H. (2007, April). *What role do cases play in learning: A typology of case-based learning*. American Educational Research Association, Chicago, IL.

Lee, C.B. & Jonassen, D.H. (2007, April). *Building models in problem solving: The role of problem representation in ill-structured problems*. American Educational Research Association, Chicago, IL.

Cho, M.H. & Jonassen, D.H. (2007, April). *Reliability and validity of the Motivated Strategies for Learning Questionnaire (MSLQ) in online environments*. American Educational Research Association, Chicago, IL.

Park, K., Ho, S.C., Duan, W.S., & Jonassen, D.H. (2007, October). *Integration of blended learning strategies to an engineering problem-based learning course*. Association for Educational Communications and Technology, Anaheim, CA.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Tobias, S., Kirschner, P.A., Rosenshine, B., Jonassen, D.H., & Spiro, R.J. (2007, April) Debate: Constructivism, Discovery, Problem-Based, Experiential, and Inquiry-Based Teaching - Success or Failure? American Educational Research Association, Chicago, IL.

\* Jonassen, D.H., Rebello, S., Wexler, C., Hrepic, Z., & Triplett, G. . (2007, June) *Learning to solve problems by scaffolding analogical encoding*. American Society for Engineering Education, Honolulu, HI.

\* Jonassen, D.H., Schmidt, M.A., Easter, M.A., Marra, R.M., & Miller, W. (2007, June). *Designing an activity-based curriculum for radiation protection personnel*. Proceedings of the annual conference of the American Society for Engineering Education, Honolulu, HI.

Wu, B., Jonassen, D.H. (2007, June). *Healthcare systems engineering – Context, contents, and pilot implementation*. American Society for Engineering Education, Honolulu, HI.

Mateycik, F., Hrepic, Z., Jonassen, D.H., & Rebello, N.S. (2007, July). *Students' perceptions of case-reuse problem solving in algebra-based physics*. Physics Education Research Conference, Greensboro, NC.

Triplett, G., & Jonassen, D.H. (2007, December). *Development of learning modules for semiconductor and device*. International Semiconductor Device Research Symposium. College Park, MD: University of Maryland.

Park, K., Ho, S.C., Duan, W.S., & Jonassen, D.H. (2007, October). *Integration of blended learning Strategies to an engineering problem-based learning course*. Association for Educational Communications and Technology, Anaheim, CA.

Jonassen, DH (2008, March). *Instructional design as a design problem*. American Educational Research Association, New York, NY.

Jonassen, DH (2008, March). *Facilitating schema induction during problem solving through analogical encoding*. American Educational Research Association, New York, NY.

Cho, M.H., & Jonassen, D.H. (2008, March). *The development of self-regulated learning questionnaire explaining human interactions in online learning environments*. American Educational Research Association, New York, NY.

Jonassen, D.H. (2008, June). *Using computers to support qualitative understanding of causal relationships*. American Society for Engineering Education, Pittsburgh, PA.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H., Cho, Y.H., & Wexler, C. (2008, June). *Facilitating problem solving transfer in physics*. American Society for Engineering Education, Pittsburgh, PA.

Jonassen, D.H., Miller, W., Schmidt, M.A., Easter, M., & Marra, R.M. (2008, June). *Technical college program in radiation protection*. American Society for Engineering Education, Pittsburgh, PA.

Jonassen, D.H., Knott, T., & Goff, R. (2008, June). *Scaffolding collaborative design online*. American Society for Engineering Education, Pittsburgh, PA.

Marra, R.M., Shen, D., Jonassen, D.H., Lo, J. (2008, June). *Fostering engineering ethics problem solving through cognitive flexibility hypertext: An application of multiple perspectives, making connections, and criss-crossing*. American Society for Engineering Education, Pittsburgh, PA.

Schmidt, M.A. & Jonassen, D.H. (2008, November). *Preparing Radiation Protection Technologist: An Activity-Based Approach*, Design & Development Showcase, Association for Educational Communications and technology, Orlando, FL.

Jonassen, DH, Shen, D, & Marra, R. (2008, November). Fostering ethics problem solving in engineering through cognitive flexibility hypertext: The role of link type in crisscrossing. Association for Educational Communications and Technology, Orlando, FL.

Jonassen, DH (2008, November). *Design as iterative constraint satisfaction*. Association for Educational Communications and Technology, Orlando, FL.

Schmidt, M.A. & Jonassen, D.H. (2008, November). *Preparing Radiation Protection Technologist: An Activity-Based Approach*, Design & Development Showcase, Association for Educational Communications and technology, Orlando, FL.

Marra, R.M., Jonassen, D.H., Miller, W.H., & Neumeyer, G. (2008, November). Stakeholder Perspectives and Effectiveness Data on Scenario-Based RPT Curriculum. American Nuclear Society Winter Meeting and Nuclear Technology Expo, Reno, NV

Miller, W.H., D.H. Jonassen, R.M. Marra, G.M. Neumeyer, R.L. Etter, M.A. Easter, M.M. Schmidt, H. Henry, I.G. Ionas, "The Role of Instructional Technologists in the Development of a Problem-Centered Radiation Protection Technician Curriculum," Proc of the Conf on Nuclear Training and Education CONTE09: An International Forum on Nuclear Training and Education and Workforce Issues Facing a Renewed Nuclear Energy Option, Jacksonville, FL (Feb. 2009).

Jonassen, DH, Cho, YH, Easter, MA, Henry, H., Kwon, KB, & Shen, D. (2009, April, Evaluating vs. constructing arguments. Paper presented at the annual conference of the American Educational Research Association, San Diego, CA.

## **PROFESSIONAL CONFERENCE PRESENTATIONS, continued**

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Jonassen, D.H. (2009, April). *The role of argumentation in instructional design*. American Educational Research Association, San Diego, CA.

Jonassen, D.H. (2009, April). *Cognitive supports for learning in problem-based learning environments*. American Educational Research Association, San Diego, CA.

Shen, D., Marra, R.M., Jonassen, D.H., Tsai, C.L., Lo, J. (200, April). *Fostering ethical problem solving in engineering: A comparison of embedded links and question links in online learning environments*. Paper presented at the annual conference of the American Educational Research Association, San Diego, CA.

Mateycik, F., Rebello, N.S., & Jonassen, D.H. (2009, April). *Do structure maps facilitate expert-like problem solving strategies in physics*. National Association of Research in Science Teaching, Garden Grove, CA.

Mateycik, F., Rebello, N.S., & Jonassen, D.H. (2009, April). *Facilitating case based reasoning in physics problem solving*. National Association of Research in Science Teaching, Garden Grove, CA.

Jonassen, D.H., Schmidt, M.A., & Easter, M. (2009, October). *Modeling reflection-in-action: Exploring problems through an Ask System interface*. Association for Educational Communications and Technology, Louisville, KY.

Jonassen, D.H., Schmidt, M.A., Kwon, K.B., Henry, H., & Easter, M. (2009, October). *Solving ethical dilemmas through argumentation*. Association for Educational Communications and Technology, Louisville, KY.

Jonassen, D.H. (2009, October). *Designing for problem solving*. Association for Educational Communications and Technology, Louisville, KY.

## **PUBLISHED EDUCATIONAL SOFTWARE**

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"Handling Transfusion Hazards". (1991) University of Colorado Health Sciences Center.

"Decisions, Decisions, Decisions". (1990) Software to accompany "You, Me and Technology" program of same title. Funded by National Science Foundation.

"Hypertext/Hypermedia". (HyperCard Hypertext). (1989). Englewood Cliffs, NJ: Educational Technology Publications.

"Computer Controlled Numerical Equipment" (1985) Computer simulation, Randolph Technical College, NC

## **CURRENT RESEARCH INTERESTS**

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### Problem Solving

- Models for designing problem-solving learning environments
- Design problem solving
- Strategies for supporting learning to solve problems

### Knowledge Representation

- Systems Dynamics
- Knowledge-Based (Expert) Systems
- Externalizing Knowledge Representations
- Mapping Knowledge Representations in Software
- Conveying, Assessing, and Acquiring Structural Knowledge
- Case-Based Reasoning

### Technologies

- Computers as Cognitive Tools for Critical Thinking
- Designing Constructivist Learning Environments
- Expert Systems for Student Modeling and Cognitive Simulations
- Computer-supported Collaborative Argumentation

### Instructional Design and Learning

- Cognitive Learning Strategies and Critical Thinking Skills
- Task Analysis

### Individual Differences and Learning

## **PROFESSIONAL ASSOCIATION ACTIVITIES**

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European Association for Research on Learning and Instruction, member

International Society for Learning Sciences, member

European Association for Research on Learning and Instruction, member

Association for Educational Communications and Technology

Research and Theory Division

Board of Directors, 1985-1988

President-Elect, 1986-87

President, 1987-89

Invited discussant, 1988-present

Division for Instructional Development

Board, 1990-92

White House Task Force on Libraries and Information Services, 1979-1981

Microcomputer Committee, 1986-1989

Definition and Terminology Committee, 1986-1989

Division Council Representative, 1986

AECT Assembly, 1986-1988

Research on the Profession Committee

Chair, 1989-91

American Educational Research Association

Learning and Instruction Division

Reviewer, 1989-present

Program Section Head, Division C, Learning Environments Section, 1997

Conference

SIG/Text Design and Learner Strategies

American Society for Training and Development, Rocky Mountain Chapter

Professional Trainer Series Task Force

Piedmont, NC Chapter, Program Committee

National Society for Performance and Instruction

Front Range Chapter, Presenter

Association for the Development of Computer-based Instructional Systems

SIG Theory and Research

MICRO-5 Regional Microcomputer Interest Group

Conference Coordinator for Registration, October, 1985

Professors of Instructional Design and Technology Conference, Indiana University

Program Planning Committee, 1987, 1989

## **HONORS**

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- EPDA Fellowship, University of Delaware, 1970-71
- University Fellowship, Temple University, 1972
- Masters Comprehensives, Passed with Honors, 1972.
- Doctoral Comprehensives, Passed with Distinction, 1975
- Outstanding Book in Instructional Development, Division of Instructional Development, Association for Educational Communications and Technology, 1984.
- Outstanding Book in Instructional Development, Division of Instructional Development, Association for Educational Communications and Technology, 1986
- Honorable Mention, Outstanding Journal Article Award, Division of Instructional Development, Association for Educational Communications and Technology, 1986
- Research and Creative Works Award, School of Education, University of Colorado at Denver, 1988
- Outstanding Instructional Communication. National Society for Performance & Instruction, Front Range Chapter, 1988.
- Outstanding Systematic Practice, National Society for Performance & Instruction, Front Range Chapter, 1988
- Honorable Mention, Outstanding Book in Instructional Development, Division of Instructional Development, Association for Educational Communications and Technology, 1989
- James W. Brown Publication Award, Educational Communications Foundation, Association for Educational Communications and Technology, 1990.
- Honorable Mention, Outstanding Book in Instructional Development, Division of Instructional Development, Association for Educational Communications and Technology, 1990
- Finalist, Outstanding Performance Improvement Quarterly Article Award, National Society for Performance and Instruction, March, 1990.
- Outstanding Instructional Communication. National Society for Performance & Instruction, Front Range Chapter, 1990.
- Service Award, School of Education, University of Colorado at Denver, 1991.

**HONORS, continued**

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- Special Award for Outstanding Contribution to the Field, Division of Instructional Development, Association for Educational Communications and Technology, February, 1992 with Tom Duffy
  - Excellence in Research and Creative Works Award, School of Education, University of Colorado at Denver, 1993
  - Researcher/Creative Artist of the Year, University of Colorado at Denver, 1993
  - James W. Brown Publication Award, Educational Communications Foundation, Association for Educational Communications and Technology, 1994.
  - Excellence Award, National Society for Performance and Instruction, Awards of Excellence Finalist for Outstanding Work in the Field of Human Performance Technology, March, 1995.
  - James W. Brown Publication Award, Educational Communications Foundation, Association for Educational Communications and Technology, 1997.
  - Outstanding Book in Instructional Development, Division of Instructional Development, Association for Educational Communications and Technology, 1997
  - Outstanding Publication, Research and Theory Division, Association for Educational Communications and Technology.
  - Outstanding Article in Instructional Development, Division of Instructional Development, Association for Educational Communications and Technology, 1998
  - Outstanding Practice in Instructional Development, Division of Instructional Development, Association for Educational Communications and Technology, 1998
  - Outstanding Journal Award, Division of Instructional Development, Association for Educational Communications and Technology, 2001.
  - 2001 Presidential Service Award, Association for Educational Communications and Technology.
  - Lifetime Achievement Award for Excellence in Research and Theory, Association for Educational Communications and Technology, 2004
  - 2005 Outstanding Book Award, Teacher Education Division, Association for Educational Communications and Technology

## **HONORS, continued**

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- Eleventh Annual *Educational Technology: Research & Development Research* Reviewer Award, October, 2006.
- Distinguished Development Award, Education Technology: Research & Development, Association for Educational Communications and Technology, October, 2006.
- Distinguished Service Award, Association for Educational Communications and Technology, October, 2006.
- Outstanding Publication Award, Division I (Education in the Professions), American Educational Research Association, April, 2007.

## **GRANTS AWARDED**

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Faculty Development Grant, Smith-Reynolds Foundation, 1985

Research Council Grants, University of North Carolina at Greensboro, \$2,000, 1976, 1977, 1978, 1979, 1983

Instruction in Transfusion Medicine to NIH. Ambruso, D., & Jonassen, D.H. University of Colorado Health Sciences Center, October, 1989. \$621,080.

Scientific Affairs Division, North Atlantic Treaty Organization, NATO Advanced Research Workshop. \$31,000 funded, May, 1989.

National Center for Atmospheric Research, Computer Based Training on Mesoscale Meteorology, \$46,950, 1989-90

Scientific Affairs Division, North Atlantic Treaty Organization, NATO Advanced Research Workshop. \$30,500 funded, May, 1990.

Jonassen, D.H. (1993, May). Cognitive Outcomes from Building Expert Systems. Colorado Institute for Artificial Intelligence, \$29, 665.

COMET, University Consortium for Atmospheric Research, \$26,997, January, 1991

COMET, University Consortium for Atmospheric Research, \$25,776, March, 1991

Computer Mindtools for Critical Thinking. Apple Computer Company, University of Colorado President's Fund, \$27, 965.

Jonassen, D.H. & Moller, L. Unrestricted Grant, Astra Merck, \$20,000 per year, 1995-1998.

Cole, R.A., Whitney, G.N., Jonassen, D.H., Moeller, B., & Carver, S. Conceptualization of a Flagship Center for Collaborative Learning in Human Language Technologies. National Science Foundation, \$50,000.

Jonassen, D.H. Editorial review, Association for Educational Communications and Technology, \$11,200, 1995-96.

Jonassen, D.H. & Duffy, T.M. Building Scaffolded WWW Computer Conferences and MOOs to Support Different Forms of Reasoning in Classroom Conversations. Committee on Institutional Cooperation: LTI Seed Grant Program. \$10,000, 1997.

Co-PI: Hood, L.F., Stefanou, S., Jonassen, D.H., Hawthorne, E., & Anantheswaren, R.C. (1997). Critical Thinking and Problem Solving: A Food Product Development Case Approach. United States Department of Agriculture, \$ 79,820.

## GRANTS AWARDED, continued

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Co-PI: Streit, D., Jonassen, D., Marra, R. & Wakhungu, J. GK-12: hybrid and Electric Vehicle M3 Education. National Science Foundation. 1999: \$478, 519; 2000: \$464,838.; 2001: \$445,923.

Jonassen, D.H. (1999). Rainbow Project, Raytheon, Inc. User interface design. \$30,000.

Wang, F.K., Jonassen, D.H., Marra, R.M., & Wedman, J. (2001). Knowledge development for the technology integration community. Knowledge development Catalyst Grant, Preparing Tomorrow's Teachers to Use Technology, U.S., Department of Education, \$1,615,411.

Ferry, B., Hedberg, J.G., Cambourne B.L., Turbill, J.B., & Jonassen, D.H. (2003-2004). Investigating a classroom simulation designed to support pre-service teacher decision making in planning and implementing literacy teaching, AUSS\$ 160, 500, Australian Research Council.

Wynn A. Volkert, WH Miller, JD Robertson, SS Jurisson, P Micelim, SK Loyalka, MA Prelas, TK Ghosh, RV Tompson, DH Jonassen, RM Marra, GK Springer, JC McKibben. (2003-2004). Midwest Nuclear Science & Engineering Consortium. US Department of Energy (DE-FG07-03ID14531), Innovations in Nuclear Infrastructure and Education, \$600,000.

Jonassen, D.H. (2003). International Center for the Study of Problem Solving. National Science Foundation (NSF-0350305), Science of Learning Center Catalyst, \$250,000.

Volkert, W.A. (PI), Ghosh, T.K., Jonassen, D.H., Jurisson, S.S., Loyalka, S.K., McKibben, J.C., Marra, R.M., Miceli, P. Miller, W.H., Prelas, M.A., Robertson, J.D., Springer, G.K., Tompson R.V. (2004). US Department of Energy Office of Nuclear Energy, Science and Technology, Midwest Nuclear Science and Engineering Consortium: Innovations in Nuclear Infrastructure and Education Award (DE-FG07-03ID14531). \$1,400,000 in Year 2

Walker, B.J., Crowe, T.J., Greening, D.W., Johnston, J.A., Jonassen, D.H., Moesel, D.D., & White, A.C. (2004). *Adoption and diffusion of interdisciplinary education programs*. Kansas City, MO: Kaufmann Foundation, \$225,588.68

Wu, B., Crowe, T., Noble, J., Jonassen, D., & Moesel, D. (2004). Discovering the nature of organizational change and innovation in entrepreneurial education. University of Missouri Research Council Grant, \$6,600.

Wu, B., Klein, C., Occena, L. Noble, J., Jang, W., T., Stone, T. & Jonassen, D. (2005). Healthcare Systems Engineering - Context, Contents and Pilot Implementation. National Science Foundation, Course, Curriculum, and Laboratory Improvement, \$129,457.

## **GRANTS AWARDED, continued**

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Miller, W.H., Jonassen, D.H., & Marra, R.M. (2006). Center of Excellence for Radiation Protection Technology Education and Training: A Model Demonstration Proposal (September 1, 2005 – August 31, 2008), \$2,305,995.

Jonassen, D.H., & Lo, J. (2006). Facilitating case reuse during problem solving. . National Science Foundation: Course, Curriculum, and Laboratory Innovations #DUE-0618459, 10/1/06 – 12/31/08, \$450, 001.

Wu, B., Khanna, S.K., Jonassen, D.H., Noble, J.S. (2006, July). *Missouri Industrial Assessment Center*, 8/1//06-7/31/08. Department of Energy, \$255,278.32.

Volkert, W.A., Miller, W.H., Robertson, J.D., Jurison, S., Miceli, P., Loyalka, S.K., Prelas, M.A., Ghosh, T.K., Tomson, R.V., Springer, G.K., Jonassen, .H., Marra, ER.M., Neumeyer, G.M., Robertson, J.,D., & McKibben, J.C. (2006). Midwest Nuclear Science and Engineering, Year 4. U.S. Department of Energy, \$1, 725,694.00.

Khanna, S., Winholtz, RA, & Jonassen, DH. (2008). CCLI Phase I: Effectiveness of Problem-Based Learning in a Materials Science Course in the Engineering Curriculum. National Science Foundation, 8/1/09 – 8/1/11, \$149,998.50.

## DISSERTATIONS CHAIRED

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Sherwood Wang, University Consortium for Atmospheric Research, *Effects of Individual Differences and Orientation on Learner Performance in a Complex Computer-Based Learning Environment*, 1992

Tammy Sue Means, *The Validation of Relevance as an Independent Dimension of the ARCS Model of Instructional Design*, 1995

Philip Henning, Pennsylvania College of Technology, *A Qualitative Study of Situated Learning by Refrigeration Service Technicians Working for a Supermarket Chain in Northeastern Pennsylvania*, 1996

Nada Dabbagh, George Mason University, *The Effects of Contextualizing Instruction of Quantitative Subject Matter in Large Introductory Classes to Students' Most-Preferred and Personally-Relevant Interests on Knowledge Acquisition and Relevance*, 1996

Namsoo Shinn Hong, University of Michigan, *The Relationship Between well-Structured and Ill-Structured Problem Solving in a Multimedia Simulation*, 1998

Li, Tiancheng, Management 21, Nashville, TN, *Modeling and Prompting for Complex Problem-Solving and Argumentation in a Case-Based Learning Environment*, 1998

Jyh Mei Liu, Ashland University, Ohio, *Support System for Promoting Metacognition in Large Classrooms*, 1998.

Hsiu-Ping Yueh, National Taiwan University, *The Relationship Between the Quality of Portfolios and Students Use of Self-Regulated Learning Strategies*, 1997

Hyug Il Kwon, Cheongju University, Korea, *The Effects of Computer-Mediated Communication on the Small-Group Problem-Solving Processes*, 1998

Anita Ondrusek, Medical Research Library of Brooklyn, *The Effects of Varied Problem-Solving Models in Facilitating Knowledge Acquisition*, 1999

Chad Carr, Northern Illinois University,, *The Effect of Computer-Supported Collaborative Argumentation (CSCA) on Argumentation Skills in Second-Year Law Students*, 2000

Seng Chee Tan, Nanyang University, Singapore, *Supporting Collaborative Problem Solving Through Computer-Supported Collaborative Argumentation*, 2000

Kyoo Lak Cho, Yuengnam University, Korea, *The Effects of Argumentation Scaffolds on Argumentation and Problem-Solving*, 2001

## DISSERTATIONS CHAIRED

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Susan Colaric, East Carolina University, *Search Engines on the World Wide web: A Comparison of Instructional Methods to Improve Syntactic Knowledge*, 2001

Julian Hernandez-Serrano, University of Puerto Rico, *Effects, meaning, and Learning Processes Regarding Experts' Stories and Novice Problem Solving in an Ill-Structured Problem-Solving Environment*, 2001

Woei Hung, University of Arizona, *The Role of Causal Reasoning Methods in Facilitating Conceptual Understanding of Physics*, 2003.

Sangchul Oh, Korea Institute of Curriculum and Evaluation, *The effects of constraint-based argumentation scaffolding and epistemological beliefs on ill-structured diagnosis-solution problem solving*, 2004.

Johannes Strobel, Concordia University, Montreal, Canada, *Historical reasoning with a cognitive flexibility hypertext authoring system: an explorative study on the role of epistemological beliefs on advanced knowledge acquisition*, 2004.

Chwee Beng Lee, National Institute of Education, Nanyang Technological University, Singapore, *Capturing and assessing conceptual change in problem solving*, 2006.

Dan Cernusca, University of Missouri at Rolla. *A design-based research approach to the implementation and examination of a cognitive flexibility hypertext in a large undergraduate class*, 2007.

Moon-Heum Cho, Indiana University-Purdue University Fort Wayne, *A Development of Human Interaction Aspect of Online Self-Regulated Learning Questionnaire*, 2008.

Bosung Kim, *The Effects of socio-emotionally Enhanced Prompts on Peer-Led Interactive Argumentation*. 2009.

## CONSULTANCIES

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- Staff Development, Moses Cone Hospital, Greensboro, NC
- University of South Carolina, School of Library and Information Studies
- Occupational Education Research Projects, Randolph Technical Institute, Ashboro, NC
- IBM, Atlanta, Georgia
- American Society for Training & Development, Rocky Mountain Chapter.
- Pacific Mountain Network, Lakewood, CO
- NSPI- Front Range Chapter, Denver, CO
- Educational Images, Denver, CO
- Farm Credit Corporation
- Rockwell International
- National Center for Atmospheric Research, National Weather Service, Boulder, CO
- Office of Personnel Management, National Independent Study Center, Lakewood, CO
- Dent, Lee, Witte, plc., London
- SAMAREC Oil Company, Jeddah, Saudi Arabia
- Colorado State Police
- U.S. Air Force
- Arthur Anderson/Anderson Consulting, St. Charles, IL
- Arizona State University, College of Engineering
- University of Brasilia, Ministry of Education, Brasilia, Brasil
- The Roach Organization, Minneapolis, MN
- Multimedia Development Unit, University of Wollongong, Wollongong, NSW, Australia
- Pan-American Health Organization, Washington, DC
- Ministry of Education, Singapore
- National Institute of Education, Singapore
- Nanyang Technological University, Singapore
- Ngee Ann Polytechnic, Singapore
- Alberta Teachers' Association, Edmonton, Alberta, Canada
- Singapore Armed Forces Training Institute
- University of Saskatchewan, Saskatoon, Saskatchewan, Canada
- Queen's College, Kinston, Ontario, Canada
- College of Technology, University of Houston, Houston TX
- Municipality of Rovererto, Rovererto, Italy
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- Center for Instruction, Research, and Teaching, Indiana State University, Terre Haute, IN
- Colorado Technical University, Colorado Springs, CO