

ROBERT G. FULLER

EDUCATION

1957 BS Physics, University of Missouri, Rolla, Missouri
1965 Ph.D., 1958 MS, Physics, University of Illinois, Urbana, Illinois

PROFESSIONAL EXPERIENCE

1956 (summer) Research Assistant - Owens Illinois Glass Co.
1957 (summer) Research Assistant - Minneapolis-Honeywell Corp.
1957-1958 National Science Foundation Fellow, Univ. of Illinois
1958-1961 Science Teacher, Methodist English High School, Rangoon, Burma
1961-1965 Graduate Student, University of Illinois
1965-1967 Research Associate, Naval Research Laboratory, Washington, D.C.
1967-1969 Physicist, Naval Research Laboratory, Washington, D.C.
1969-1976 Associate Professor, Department of Physics, Univ. of Nebraska -Lincoln (UNL)
1975 (Spring) Research Physicist, VA Hospital, Syracuse, NY
1976-1977 Visiting Professor, Department of Physics, Univ. of Cal., Berkeley and Research Physicist, Lawrence Hall of Science

1979-1981 Senior Fellow, Centennial Education Program, UNL
1982-1983 Interactive Video Consultant, The Open University, U.K.
1986-1988 Distinguished Visiting Professor, U. S. Air Force Academy, CO
1995-1996 Visiting Professor, U. S. Air Force Academy, CO
1975 -1997 Director, ADAPT Program, UNL
1976 - 2003 Professor, Department of Physics, UNL
1999 (Spring) Visiting Scholar, Department of Physics, Univ. of California, Berkeley
1999-2000 Visiting Professor, Dept. of Physics, U.S. Military Academy, West Point, NY
2003-2005 Part-time Professor, Department of Physics, UNL
2005 Professor Emeritus, Department of Physics, UNL

PROFESSIONAL SOCIETY MEMBERSHIP AND HONORS

Phi Kappa Phi, Sigma Pi Sigma, Tau Beta Pi, Sigma Xi
American Physical Society, Fellow, 1965- , 1997;
National Science Teachers Association, 1971-1996, 1998-
American Association of Physics Teachers (AAPT), 1969- : Vice President (1978). President-elect (1979),
President (1980), Past-president (1981); Instructional Media Committee (1974-1977, 1985-1988), Chair
(1985-87); Student Confidence Workshop Committee Chair (1983-1986); Physics Teaching and the
Development of Reasoning Committee (1973-75); AAPT Distinguished Service Citation, 1986; Editor,
AAPT Instructional Materials Center, 1987-1994.
Distinguished Teaching Awards, UNL, 1973 and 1986.
American Association of Higher Education Faculty Leadership Salute, March 1986
(Featured in *Change* 18(4), 5,15,17, 22 & 31, 1986)
Insight magazine, "one of 10 best college professors in America", March 11, 1987
Commendatory resolution 307, Nebraska Legislature, March 10, 1988
UMR-MSM Alumni Merit Award, 1988
Robert A. Millikan Medal for outstanding contributions to the teaching of physics, AAPT, 1992
Outstanding Teaching and Instructional Creativity Award, Univ. of Nebraska, 1993
Academy of Distinguished Teachers, UNL, 1995 - 2005

INNOVATIVE TEACHING ACTIVITIES

Problem Solving Using Computers course for non-science majors, 1981-1995
Topics in Environmental Science course, team-taught, 1971-74
Individualized Instruction in Physics using the Keller Plan, 1971-78
Multi-disciplinary, Piagetian-based program for college freshmen, 1975-1997
Interactive videodisc lessons, beginning with The Puzzle of the Tacoma Narrows Bridge Collapse, 1978-1994
Workshops on College Teaching and the Development of Reasoning, 1975-1997
Energy in Perspective physics course for non-science freshmen, 1981-1997
"Paperless" and "Paperlite" computer intensive physics, 1996-1998
Mathematics and Physics combined course, 1999

R.G.Fuller Vita, December, 2001

Reforming Physics: Algebra-based general physics with human applications, 2000-2005

I. EXTERNAL FUNDING

Educational Projects -

Cooperative College School Science (CCSS) Workshop Co-director with Dr. W. Sims, Elementary Education Dept (for K-2 grade level teachers in Lincoln Public School System), 1970	\$17,940 (NSF)
Film Loop Instructional Course (FLIC) for college physics teachers, Director, 1971.	\$27,250 (NSF)
CCSS Workshop, co-director with Dr. W. Sims (for 3 and 4 grade level teachers in the Lincoln Public Schools), 1971.	\$16,980 (NSF)
CCSS Workshop, co-director with Dr. W. Sims (for 5 and 6 grade level teachers in the Lincoln Public Schools), 1972.	\$18,650 (NSF)
Quantitative Reasoning and Science Teaching (QRST) for Elementary School Teachers in Nebraska, Director, 1973.	\$50,660 (NSF)
Skylab Film Project, funded to American Association of Physics Teachers, film editor, 1974	\$ 8,460 (NASA)
Intellectual Development Workshop Materials Project funded to the AAPT, Dr. Karplus, Director, Dr. R.G. Fuller one of five on staff, 1974.	\$ 9,100 (NSF)
QRST (II) Renewal, Dr. Walter Mientka, Director, Dr. Robert G. Fuller, staff member, 1974.	\$58,600 (NSF)
Multidisciplinary Freshman Program for the Development of Formal Thought Processes, Director, 1975 (ADAPT Program)	\$99,850 (Exxon)
Physical Science Modules for Bioscience Students, Director, 1975	\$77,920 (NSF)
College Faculty Workshop for Developing Keller Plan Modules for Calculus-based General Physics, Director, 1975	\$62,000 (NSF)
Piagetian Based Physical Science Course for Preservice Teachers, Director, 1978	\$24,100 (NSF)
Program for the Advancement of College Teaching (PACTS), co-director with Dr. D. Brooks, FIPSE, 1978	\$68,800 (FIPSE)
Piagetian-based Activity Kit for Junior High Science Instruction utilizing Skylab Films, developmental specialist, 1979 (Dr. T.C. Campbell, director)	\$20,000 (NSF)

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Low Cost Approach to Videodisc Education, Director, 1979.	\$60,000 (NSF)
Individualized Computer Directed Physics Laboratories (with Dr. C. Bettis), 1982.	\$38,380 (NSF)
University of Nebraska Computer Learning Experiment (with Dr. C. Bettis), 1982	\$10,960 (UNF)
Interactive Videodisc Lessons. Alternative Science Laboratories - Jack McBride (PI) \$433,000, 1982, Physics subcontract.	\$31,505 (ASC/CPB),
Workshop on Developing Student Confidence In Physics, funded to the AAPT. Chairman of the Development Committee, 1982.	\$39,000 (Exxon)
Problem Solving in Physics Using Application Software, 1986 (Tandy Corp.)	\$10,000 (Tandy Corp.)
Physics Demonstration/Laboratory Institute for High School Physics Teachers, co-director C.R. Lang, 1986	\$38,300 (NCCPE)
Physics Demonstration/Laboratory Institute for High School Physics Teachers, co-director C. R. Lang, 1987.	\$36,982 (NCCPE)
Extending High School Physics: A Modern Physics Demonstration/Laboratory Institute, co-director C. R. Lang, 1988	\$34,860 (NCCPE)
New Careers in the Sciences for Rural Girls in Nebraska: A Possible Model for Other States, 1989, co-director, N. Lindsley-Griffith	\$50,000 (NSF)
Bridges, Bicycles, and Traffic: Thematic Physical Science Lessons, 1989	\$114,825 (NSF)
The Physics of the Earth's Environment, Young Scholars Institutes, 1989, co-author	\$210,071 (NSF)
A National Interactive Media Project for Secondary Physical Science Courses, 1989	\$590,815 (DOE)
Transforming Physics Content Using New Technologies: An Undergraduate Faculty Enhancement Leadership Development Workshop, 1989	\$112,986(NSF)
Every Physics Teacher's CD-ROM Toolkit, 1991	\$1,479,982 (NSF)
Using New Technologies to Teach Physics, 1991	\$98,995 (NSF)
Transforming Physics Laboratories Using New Technologies, UNL subcontract, 1991	\$36,998 (NSF)
Biological Sciences Undergraduate Education Initiative at UNL, Physics Subcontracts	\$75,000 (HHMI)
A Special Conference to Consider Initiating a Network for Creating CD-ROMs for Science Education	\$52,471 (NSF)

Teaching Physics Using Interactive Digitized Video	\$99,633 (NSF)
Every Physics Teacher's CD-ROM Toolkit, (Extension of Above Project)	\$ 273,522 (NSF)
Guidebook for the Physics InfoMall	\$167,954 (NSF)
Teaching Physics Using Interactive Digitized Video, 1994-1996	\$162,579 (NSF)
Graduate Research Traineeship Program Using Hypermedia for Knowing Physics 1994-99 (\$112,500 per year payment)	\$562,500 (NSF)
MultiMedia Mathematics: Across the Curriiculum and Across the Nation, 1994 (Planning Grant Approved)	\$49,986 (NSF)
Thinking and Doing Physics: An Institute for Crossover Physics Teachers in Small Class C & D Schools , 1995	\$63,315 (NCCPE)
Integrating Multimedia-based Activities into University Physics Laboratories, 1996	\$ 40,000 (NSF)
Mechanical Universe - High School Adaptation: An Institute for Pre-Service Physics Teachers, 1996	\$42,973 (NCCPE)
Enhancing High School Physics Teaching with CD-ROMs: An Institute for People Who Intend to Teach, 1997	\$37,038 (NCCPE)
Integrating Multimedia-based Life-science Applications into College Physics Laboratories with V. Plano Clark, 1996	\$62,487 (NSF)
Multimedia Mathematics: Across the Curriculum and Across the Nation (with S. Dunbar, B. Evans, B. Crauder), 1995-99	\$476,135 (NSF)
Color Images of Physical Phenomena A CD-ROM Visual Database, 1997	\$13,600 (Ztek)
Twin Views of the Tacoma Narrows Bridge Collapse A Videotape Project, 1997	\$2,830 (AAPT)
Multimedia Mathematics: Across the Curriculum and Across the Nation Supplemental Award (1999)	\$20,000 (NSF)
Co-PI with D. Winch, Kalamazoo College. Scientific and Cultural Investigations of the Bicycle Using Multimedia. A Student Exchange Program. Funded FIPSE/EC, 1997-2000.	About \$10,000/yr. (for UNL)
Co-PI with V. Plano Clark. Modernization of Physics Laboratory Environments. UNL Foundation (1996)	\$49,000(UNL)
Consultation on Pre-Medical Physics, May 11, 12, 1999 College of Arts and Sciences, Math/ Science Area of Strength,.	\$8,100(UNL).
Co-PI with V. Plano Clark, Beth Ann Thacker, Texas Tech. Univ., and Nancy Beverly, Mercy College, to NSF (CCLI/DUE). Collaborative proposal with Doane College, Reforming Physics:	\$474,021.

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Algebra-based Physics with Human Applications (2001-2005)

NSF (UNL/Doane)

Editor, A Love of Discovery: Science Education - the Second Career of Robert Karplus, a book published by Kluwer Academic/Plenum (2002)

\$2760 (AAPT)

Physics Research Projects -

Ionic Transport, 1972

\$7,900(Res. Corp.)

II. REFEREED JOURNALS

1. Robert G. Fuller, DIFFUSION OF THE CHLORINE ION IN POTASSIUM CHLORIDE. Phys. Rev. 142, 524 (1966).
2. David A. Patterson and Robert G. Fuller, F-BAND IN X- AND ELECTRON- IRRADIATED CAF₂. Phys. Rev. Letter. 18, 1123 (1967).
3. R.G. Fuller and M.H. Reilly, ANION CONTRIBUTIONS TO THE ELECTRICAL CONDUCTIVITY OF ALKALI CHLORIDES. Phys. Rev. Letter. 19, 113 (1967).
4. Robert G. Fuller, Michael H. Reilly, and Charles L. Marquardt, ELECTRICAL CONDUCTIVITY OF POTASSIUM CHLORIDE. Phys. Rev. Letter. 20, 662 (1968).
5. R.G. Fuller, C.L. Marquardt, M.H. Reilly, and J.C. Wells, Jr., IONIC TRANSPORT IN POTASSIUM CHLORIDE. Phys. Rev. 176, 1036 (1968).
6. R.G Fuller and M.H. Reilly, POSSIBLE TRIVACANCY CONTRIBUTION TO IONIC CONDUCTIVITY, J. Phys. Chem. Solids 30, 457 (1969).
7. R.G. Fuller and H.B. Rosenstock, EQUILIBRIUM CONCENTRATION OF IMPURITY VACANCY COMPLEXES, J. Phys. Chem. Solids 30, 2105 (1969).
8. R.T. Williams, R.G. Fuller, M.N. Kabler, and V.H. Ritz, SPECTROPHOTOMETRIC SYSTEM FOR TRANSIENT OBSERVATION OF SOLIDS UNDER PULSED ELECTRON IRRADIATION. Rev. Sci. Instr. 40, 1361 (1969).
9. R.G. Fuller and F.W. Patten, ELECTRICAL CONDUCTIVITY IN NH₄Cl AND ND₄Cl SINGLE CRYSTALS. J. Phys. Chem. Solids 31, 1539 (1970).
10. R.G. Fuller, R.T. Williams, and M.N. Kabler, TRANSIENT OPTICAL ABSORPTION BY SELF-TRAPPED EXCITONS IN ALKALI HALIDE CRYSTALS. Phys. Rev. Lett. 25, 446 (1970).
11. R.M. Fuller and R.G. Fuller, RESEARCH PROJECT FOR UNDERGRADUATES; IONIC THERMOCONDUCTIVITY IN DIELECTRICS. Am. J. Phys. 40, 883 (1972).
12. S.L. Cunningham and R.G. Fuller, EVALUATION OF AN EXPERIMENT IN COMPUTER-ASSISTED TUTORING. The Phys. Teach. 11, 238 (1973).
13. R.G. Fuller and W.L. Sims, YOU'RE OK, AND SO IS PHYSICS, THE USE OF TRANSACTIONAL ANALYSIS AND INQUIRY METHODS IN PHYSICS TEACHING. The Phys. Teach. 12, 217 (1974).
14. W.L. Sims and R.G. Fuller, AN OK SCIENCE TEACHER. Science and Children 11, No. 6, 17 (1974).
15. D.E. Golden, R.G. Fuller, and D.D. Jensen, REPEATABLE TESTING - A TOOL FOR LEARNING PHYSICS. Am. J. Phys. 42, 941 (1974).
16. R.G. Fuller and V.G. Williams, A FRESH APPROACH TO TEACHING RECITATION CLASSES. J. Coll. Sci. Teaching , 4, 240 (March 1975).
17. R.G. Fuller, YOUR CLASSROOM AS AN EXPERIMENT IN EDUCATION: THE REINFORCEMENT THEORY OF LEARNING. J. Coll. Sci. Teaching . 5, 259 (1976).
18. R.G. Fuller, A.A. Marino and R.O. Becker, PHOTOCONDUCTIVITY IN BONE AND TENDON. Biophysical Journal 16, 845 (1976).
19. R.G. Fuller, R. Karplus, and A.E. Lawson, CAN PHYSICS DEVELOP REASONING? Physics Today 30(2), 23 (1977) (Invited).

20. D.W. Brooks, R.G. Fuller, et al., REPEATABLE TESTING. J. Chem. Ed. 54 276 (1977).
21. R.G. Fuller, PHYSICS TEACHING VERSUS PIAGET, WHAT'S THE SCORE? The Physics Teach. 18, 99 (1980).
22. R.G. Fuller, IMPROVING PHYSICS TEACHING. Physics Today 33(12), 112 (1980).
23. D.W. Brooks, R.G. Fuller, et al., SABBATICAL LEAVES IN PEDAGOGY. J. Chem. Ed. 57, 845 (1980).
24. M.C. Thornton and R.G. Fuller, HOW DO COLLEGE STUDENTS SOLVE PROPORTION PROBLEMS? J. Res. Sci. Teach., 18, 335 (1981).
25. R.G. Fuller, SOLVING PHYSICS PROBLEMS - HOW DO WE DO IT? Physics Today 35(9), 43 (1982) (Invited).
26. Zollman, D. and Fuller, R.G. (1982) "The Puzzle of the Tacoma Narrows Bridge Collapse: An Interactive Videodisc Program for Physics Instruction," Creative Computing, 10/10, 100.
27. R.G. Fuller, ANNENBERG FUNDS NEW U.S. TELECOURSES. BBC Open Line, No. 3, 4, (1983) (Invited).
28. R.G. Fuller, FROM THE DRAGON'S LAIR TO THE TACOMA BRIDGE, Videodisc and Optical Disc News, 5(1), 37 (1985) (Invited).
29. R.G. Fuller, RESOURCE LETTER CPE-1: COMPUTERS IN PHYSICS EDUCATION", AJP 54(9), 782-786 (1986) (Invited).
30. R.G. Fuller, "APPLICATIONS SOFTWARE TRANSFORMS SCIENCE TEACHING", J. of Coll. Sci. Teach. 16(4), 239 & 412-415, (1987).
31. T.E. Gist, G. L. Lorenzen, R. E. Swanson, M. K. McQuade, and R.G. Fuller. The Air Force Academy Instructor Workstation (IWS): I. Design and Implementation. J. Educational Technology Systems, Vol. 17(4) 273-284, 1988-89.
32. T.E. Gist, M. K. McQuade, R. E. Swanson, G. L. Lorenzen, J. R. Boudot, and R. G. Fuller. The Air Force Academy Instructor Workstation (IWS): II. Effectiveness J. Educational Technology Systems, Vol. 17(4) 285-295, 1988-89.
33. R.G. Fuller, "Beyond Where The Sidewalk Ends", CD-ROM EndUser, Vol. I (4), 39, 1989.
34. G. A. Sowell and R. G. Fuller, SOME DOs AND DON'TS FOR USING COMPUTERS IN SCIENCE INSTRUCTION, J.of Coll. Sci. Teach., Vol XX (2), 90-93, 1990.
35. R. G. Fuller, Hypermedia and the Knowing of Physics: Standing Upon the Shoulders of Giants. American Journal of Physics, 61(4), 300-304, 1993.
36. R. G. Fuller, Multimedia --Hype Or No?, Computers in Physics, 7 (1), 5 Jan/Feb 1993.
37. Dean A. Zollman and Robert G. Fuller, Teaching and Learning Physics with Interactive Video, Physics Today, 41-47, April, 1994.
38. Norman F. Derby, Robert G. Fuller and Phil W. Gronseth, "The Ubiquitous Coffee Filter", The Physics Teacher, V.35, 168, March 1997.
39. Norman F. Derby, Robert G. Fuller and Thomas A. Summers, "A Football Chase on Video", The Physics Teacher, V.35, 359, Sept., 1997.

40. R.G. Fuller," ADAPT A Multidisciplinary Piagetian-based Program for College Freshmen" *The Genetic Epistemologist*, vol. 26, No. 2, pp 1-5, 1998., ADAPT A Multidisciplinary Piagetian-based Program for College Freshmen (Part 2)" *The Genetic Epistemologist*, vol. 27, No. 3, pp 1-5, 1998.
41. W. Zhang and R.G. Fuller, "Nobel Prize Winners in Physics from 1901 to 1990: Simple Statistics for Physics Teachers," *Physics Education*, vol. 33, No. 3, 196-203, 1998.
42. Norman F. Derby and Robert G. Fuller, "Reality and Theory In Collision", *The Physics Teacher*, Vol. 37, 24-27, Jan. 1999.
43. A. Runge, A. Spiegel, L.M. Pytlik Z., S. Dunbar, R. Fuller, G. Sowell, and D. Brooks, "Hands-on Computer Use in Science Classrooms: The Skeptics Are Still Waiting", *J. of Science Ed. and Tech.* Vol. 8, No. 1, 33-43, 1999.
44. R.G. Fuller, book review, "Integrated Physics and Calculus" *American Journal of Physics*, "69(7), 396-7, 2001.
45. R.G. Fuller. "Don't Tell Me, I'll Find Out" Robert Karplus—A Science Education Pioneer, *Journal of Science Education and Technology* December 2003, Volume 12, Issue 4, pp. 359-369.

III. INVITED PAPERS AT INTERNATIONAL, NATIONAL, OR REGIONAL MEETINGS

1. R.G. Fuller, ION TRANSPORT IN ALKALI HALIDES, Bull. Am. Phys. Soc. 14, 303 (1969).
2. R.G. Fuller, PHYSICS FILMS FOR FACT, FUN, AND EVERYONE. AAPT Announcer 2, 6 (1972).
3. R.G. Fuller, PHYSICS AND THE EDUCATING OF AMERICA. Illinois Section of AAPT, October, 1975.
4. T.C. Campbell and R.G. Fuller, CALCULUS-BASED PHYSICS MODULES (CBP). AAPT Announcer 5 (4), 51 (1975).
5. R.G. Fuller and T.C. Campbell, PHYSICAL SCIENCE MODULES FOR BIOSCIENCE STUDENTS. AAPT Announcer 5(4), 53 (1975).
6. R.G. Fuller and T.C. Campbell, SKYLAB SCENES-SEEN AND UNSEEN. AAPT Announcer 7, 58 (1975).
7. R.G. Fuller, PIAGET AND PHYSICS TEACHING. Arkansas-Oklahoma-Kansas Section of AAPT, April, 1976.
8. R.G. Fuller and T.C. Campbell, FROM THE AAPT SKYLAB FILMS TO SUGGESTIONS FOR FUTURE EXPERIMENTS. International Symposium on Educational Physics Experiments in Space, Copenhagen, Denmark, May, 1976.
9. R.G. Fuller and M.C. Thornton, COLLEGE SCIENCE TEACHING AND THE DEVELOPMENT OF REASONING. AAAS-NSF Chautauqua Short Course: 3 Midwest Regional Centers, 1976-77; 4 Western Regional Centers, 1977-78; 4 Eastern Regional Centers, 1978-79.
10. R.G. Fuller, A PIAGETIAN-BASED APPROACH TO PHYSICS TEACHING. Pacific Northwest Association of College Physicists, April, 1978.
11. R.G. Fuller, ADAPT - A PIAGETIAN-BASED PROGRAM FOR COLLEGE FRESHMEN. 4th General Conference on Chemistry Education, July, 1978.
12. R.G. Fuller, TENTATIVE STEPS TOWARD UNDERSTANDING STUDENTS; PHYSICS TEACHING AND PIAGET. 4th European Physical Society General Conference, September, 1978.
13. R.G. Fuller, HOW CAN PHYSICS SURVIVE? Iowa Section of AAPT, October, 1978.
14. R.G. Fuller, DOES PHYSICS FACE A FINITE FUTURE? Oklahoma State University and University of Missouri-Rolla, 1979-80.
15. R.G. Fuller, SOME TRUTHS ABOUT VIDEODISCS, LOCI Directors Meeting, May, 1980.
16. R.G. Fuller, TRIALS AND TRIBULATIONS OF DEVELOPING VIDEODISCS, National Symposium on Videodisc Technology, October, 1980.
17. R.G. Fuller, LOW COST APPROACH TO VIDEODISC EDUCATION, Texas Section of AAPT, October, 1980.
18. R.G. Fuller, COHERENCE FOR A CORE, Association of Integrative Studies, Grand Rapids, MI, April, 1981.
19. R.G. Fuller, PHYSICS TEACHING AND THE VIDEODISC REVOLUTION, IS IT REALLY COMING? Michigan Section, AAPT, April, 1981.
20. R.G. Fuller, PIAGET - A LIGHT FOR ALL SEASONS, National Conference on Reasoning, Piaget, and Higher Education, Denver, April 1981.
21. D. Zollman, R.G. Fuller and T.C. Campbell, DISCOPHYSICS; OR LASERVISION MEETS THE TACAOMA NARROWS BRIDGE, AAPT Announcer, 11(2), 87 (1981).

22. R.G. Fuller, HOW CAN PIAGETIAN-BASED PROGRAMS SURVIVE? COMPAS Project Meeting, Chicago, May 1981.
23. R.G. Fuller, D. Zollman, and T.C. Campbell, THE TACOMA NARROWS BRIDGE VIDEODISC, 2nd National Videodisc Symposium, Lincoln, October, 1981.
24. R.G. Fuller, CONSTRUCTING SOLUTIONS TO THE PROBLEM OF SOLVING PHYSICS PROBLEMS, AAPT Announcer, 11(4), 79 (1981).
25. R.G. Fuller, INTERACTIVE VIDEODISCS AND PHYSICS LABORATORIES, AAPT Announcer, 11(4), 112 (1981).
26. R.G. Fuller, THE PUZZLE OF THE TACOMA NARROWS BRIDGE COLLAPSE. AN INTERACTIVE VIDEODISC LESSON FOR UNIVERSITY PHYSICS STUDENTS. Symposium on Computer Assisted Learning, University of Bristol, April, 1983.
27. R.G. Fuller, TEACHING PHYSICS ISN'T SO EASY AFTER ALL, AAPT Announcer 13(4), 116 (1983).
28. D. Zollman and R.G. Fuller, INTERACTIVE VIDEODISCS: NEW TECHNOLOGY FOR THE ANALYSIS OF HUMAN MOTION, Second National Symposium on Teaching Kinesiology and Biomechanics in Sports, Colorado Springs, CO, January, 1984.
29. R.G. Fuller, INTERACTIVE VIDEO IS FOR US, TOO. South Dakota Academy of Science, Sioux Falls, April, 1984.
30. R.G. Fuller, STUDENT CENTERED EDUCATION, WHAT IS IT?, Student Centered Computer Education Conference, Union College (NE), May, 1984.
31. R.G. Fuller and D. Zollman, USING INTERACTIVE VIDEODISCS TO TEACH MECHANICS, G.I.R.E.P. Conference, Utrecht, Netherlands, August, 1984.
32. R.G. Fuller, WHAT YOU THINK IS WHAT YOU GET, Reasoning and Higher Education Conference, Boise State University, February, 1985.
33. R.G. Fuller, GET WITH IT, GROUP! APPLICATIONS SOFTWARE TRANSFORMS PHYSICS TEACHING, AAPT Announcer 5(4) 40, 1985.
34. R. G. Fuller, GET WITH IT, GROUP1 APPLICATIONS SOFTWARE TRANSFORMS PHYSICS TEACHING, (AAPT Announcer 5 (4) 40, 1985) Invited Presentation at the AAPT meeting, Atlanta, GA, Jan. 1986.
35. R. G. Fuller, WHAT IS OUR CLASSROOM ANYWAY?, Today's College Teacher, A Workshop, Montana Tech, Butte, Oct. 1986.
36. R. G. Fuller, THE NEW VIDEODISC/ COMPUTER TECHNOLOGIES & THEIR USES IN THE CLASSROOM, Today's College Teacher, A Workshop, Montana Tech, Butte, Oct. 1986.
37. R. G. Fuller, INTRODUCTION TO DEVELOPING STUDENT CONFIDENCE IN SCIENCE, Pacific Northwest Native American Science Education Conference, Seattle, Nov. 1986.
38. R. G. Fuller, INTRODUCTION TO SCIENCE TEACHING FOR THE DEVELOPMENT OF REASONING, Pacific Northwest Native American Science Education Conference, Seattle, Nov. 1986.
39. R. G. Fuller, INTERACTIVE VIDEODISCS IN SCIENCE CLASSROOMS, Pacific Northwest Native American Science Education Conference, Seattle, Nov. 1986.

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40. R. G. Fuller, TECHNOLOGY IN THE TRENCHES-A CLASSROOM USER'S VIEW, National Association of State Universities and Land Grant Colleges, Phoenix, Nov. 1986.
41. R. G. Fuller, COMPUTERS IN THE PHYSICS CURRICULUM CONFERENCE, Dickison College, Carlisle, PA, Jan. 1987.
42. R. G. Fuller, organizer, Videodisc Workshop, AAPT Meeting, San Francisco, Jan. 1987.
43. R. G. Fuller, "Cognitive Development", staff development day, School District 20, Colorado Springs, Feb. 1987.
44. R. G. Fuller, "Physicist and/or Mystic, Which is Which? The Philosophy of Quantum Mechanics", physics department colloquium, Southern Colorado College, March, 1987.
45. R. G. Fuller, INTERACTIVE TECHNOLOGIES CAN CHANGE PHYSICS CLASSROOMS, Physics Dept. Colloquium, University of Wyoming, April, 1987.
46. R. G. Fuller, THE ART OF KNOWING SCIENCE, Colorado/Wyoming Academy of Sciences, plenary address, April, 1987.
47. R. G. Fuller, PRESERVING THE OLD, ENCOURAGING THE NEW. AAPT Announcer 17(4), 45, 1987. Invited Presentation at the AAPT meeting, Crystal City, VA. Jan. 1988.
48. R. G. Fuller, LDs, CDs, AND NEW POSSIBILITIES, Proceedings of the Conference on Computers in Physics Instruction, North Carolina State University, August, 1988.
49. R. G. Fuller, Colloquium, "HyperMedia and the Future for Higher Education. A Case Study of Physics" Purdue University, February, 1989
50. R. G. Fuller, Presentation, "HyperMedia and The Future of Higher Education. " Software Engineering Institute, Carnegie Mellon University. March, 1989.
51. R. G. Fuller, Presentation, "Send in the Discs", TITE Conference, Colorado Springs, CO. March, 1990.
52. R.G. Fuller, "Save the Films: How Are We Planning To Do It?", AAPT Announcer, 20(2), 65 (1990).
53. R.G. Fuller, Colloquium "National Interactive Media Project," University of Missouri-Rolla. November, 1990.
54. R.G. Fuller, "Six Slick Discs for Teaching Physics," AAPT Announcer, 20(4), 107 (1990).
55. R.G. Fuller, "Interacting with Real Events: Can it Save Engineering Education?" Nebraska Society of Professional Engineers, Columbus, NE. May, 1991.
56. R.G. Fuller, "Computers and Video in Science Education", National Science Foundation Director's Meeting, Washington, D.C., May, 1991.
57. R.G. Fuller, "What Can The New Media, e.g. Videodiscs and CD-ROM's Contribute to the Teaching of Science?", Computers and New Media in Instruction in Science and Technology. Amsterdam, The Netherlands, May, 1991.
58. R. G. Fuller, Videodiscs for Physics Instruction, Computers and New Media in Instruction in Science and Technology Conference, University of Amsterdam, The Netherlands, Two Sessions, May, 1991.
59. R. G. Fuller, "Bringing Interactivity Into Your Physics Teaching From The Low End Up." Physics Computing '91 Conference, San Jose, CA, June, 1991.
60. R.G. Fuller, G.A. Sowell, R. Enger, D. Winch and D. Zollman "USING NEW TECHNOLOGIES TO IMPROVE PHYSICS TEACHING", AAPT Announcer 21(2), 50,1991.

61. R. G. Fuller, "CREATING CD-ROMs FOR SCIENCE EDUCATION: CONFERENCE OVERVIEW " Colorado Springs, CO, April, 1992.
62. R. G. Fuller, "TRANSFORMING COLLEGE TEACHING USING NEW TECHNOLOGIES", Indiana University, Purdue University at Indianapolis, April, 1992.
63. R. G. Fuller, "HYPERMEDIA AND THE KNOWING OF PHYSICS: STANDING UPON THE SHOULDERS OF GIANTS." Millikan Medal Lecture, AAPT Summer Meeting, Orono, ME, August, 1992.
64. R. G. Fuller, "HYPERMEDIA AND THE KNOWING OF PHYSICS: STANDING UPON THE SHOULDERS OF GIANTS." University of Nebraska-Lincoln Physics Colloquium, August, 1992.
65. R. G. Fuller, "How Do We Sing Praises To Our God in a Strange Land." Invited Lecture, Matriculation Service, Cornerstone, UMHE. September, 1992.
66. R. G. Fuller, "HYPERMEDIA AND THE KNOWING OF PHYSICS: STANDING UPON THE SHOULDERS OF GIANTS." University of Nebraska at Omaha Physics Colloquium, October, 1992.
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69. R. G. Fuller, "MOTIVATION AND REASONING: VIDEO PROVIDING THE CONTEXT FOR MBL." NATO Advanced Research Workshop, Amsterdam, The Netherlands, October, 1992.
70. R.G. Fuller, "MULTIMEDIA PHYSICS FOR THE 21ST CENTURY." Enschede, The Netherlands, September 29, 1993.
71. R.G. Fuller, " THE PHYSICS CLASSROOM FOR THE 21ST CENTURY." NiMON Conference, Utrecht, The Netherlands, September 30, 1993.
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76. R. G. Fuller, "Implementing Multimedia for the Physics Masses", Physics Department Colloquium, Ohio State University, November, 1994.
77. R. G. Fuller, Workshop Physical Science for Pre-Service Teachers, Dickinson, College, Carlisle, PA. February 10-11, 1995.
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79. R. G. Fuller, Use of Multimedia to Teach Physics, Center for Occupational Research and Development, Waco, TX , March 23, 1995.

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83. R. G. Fuller, Oversight Committee, C3P Project, Rome, Italy. June 26-30, 1995.
84. R. G. Fuller, Teaching Physics Using Interactive Digital Media, U.S. Air Force Academy, June 11-25, 1995. NSF Undergraduate Faculty Enhancement Workshop.
85. R. G. Fuller, Thinking and Doing Physics: An Institute for Physics Teachers in Class C and D Schools, June 4-10, 1995. Kearney, NE.
86. R. G. Fuller, "How to Create Interesting Physics Lessons", The New Hampshire Technical Institute, June, 1996.
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90. R. G. Fuller, "Teaching Without Paper", Dept. of Physics Colloquium, Univ. of Northern Colorado, March 29, 1996.
91. R. G. Fuller, "Critical Thinking", Math Department Colloquium, USAFA.
92. R. G. Fuller, Conference of Future of Education, USAFA facilitator, April 17-19, 1996.
93. R. G. Fuller, Preparing for Paperless Pedagogy: An interactive workshop - coordinated by R. G. Fuller, V. Plano Clark and C. Moore, UNL, May, 1996.
94. R.G. Fuller, "Preparing Physicists for Paperless Pedagogy" SESAPS Meeting, Atlanta, GA, November, 1996.
95. R. G. Fuller, "How to Create Interesting Physics Lessons", The New Hampshire Technical Institute, June, 1996.
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97. R. G. Fuller, "Making the Learning of Physics Intrinsically Motivating", The New Hampshire Technical Institute, June, 1996.
98. R. G. Fuller, "College Teaching and Developing Reasoning" Workshop, DFP, USAFA, July, 1996.
99. R. G. Fuller, "Developing Student Confidence" Workshop, DFP, USAFA, July, 1996.
100. R. G. Fuller, "Preparing for Paperless Pedagogy" - First Tuesday Presentation by R. G. Fuller, V. Plano Clark and C. Moore, UNL, October, 1996.
101. R. G. Fuller, "Computer Intensive Physics (CIP) with Mathematics - Beyond Lectures, Recitations and Laboratories" University of Alabama-Tuscaloosa, October, 1997.
102. R. G. Fuller, "Teaching Paperless Physics", Unitarian Church, Lincoln, January 26, 1997.

103. R. G. Fuller, "Paperless Pedagogy", UNL Technology Group, February 5, 1997.
104. R. G. Fuller, "Preparing to Teach Paperless Courses", UNOPA, UNL, February 11, 1997.
105. R. G. Fuller, "Preparing to Teach Paperless Courses", Rotary Club, Falls City, NE, May 7, 1997.
106. R. G. Fuller, Paperless Physics Pedagogy, Project Kaleidoscope, UNL, Sept. 27, 1997.
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113. R. G. Fuller, "Mathematics for Use Across the Curriculum. A Tool, a Language or What?, Interdisciplinary Workshop on Core Mathematics: Considering Change in the First Two Years of Undergraduate Mathematics, West Point, NY, Nov. 4-7, 1999.
114. R. G. Fuller, "Integrating Physics and Mathematics ", Vanderbilt University, March, 2000.
115. R.G. Fuller, "Is There a Light at the End of the Tunnel?" Wesley Foundation, University of Illinois, April, 2000.
116. R.G. Fuller, "Physicist or Mystic? Which is Which?" Sigma Pi Sigma Banquet, USMA, April, 2000.
117. Project Kaleidoscope Math Across the Curriculum workshop presenter, USMA, June, 2000.
118. R. G. Fuller, "Physics Curriculum Reform: How Can We Do It?", Physics Department Colloquium, Texas Tech Univ., February, 2001.
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V. ABSTRACTS AND PROCEEDINGS

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