

<u>Subscription Address</u>	<u>Subscription Cost</u>	<u>Reprint Policy *</u>	<u>Recent Articles Related to Earthquakes, Volcanoes, Tsunami **</u>
OWL 255 Great Arrow Ave. Buffalo, NY 14207	A one-year subscription (10 issues) costs \$14.95. Two years costs \$24.95.	Back issues are \$4.00 per issue, and are subject to availability.	"Volcano" by P. Bourgeois, October, 1991. "Why Are There Volcanoes on Earth?" April, 1981
RANGER RICK National Wildlife Federation 1400 Sixteenth Street, NW Washington, DC 20036-2266	One year membership dues are \$15.00; includes 12 issues of RANGER RICK. An additional fee of \$9.00 is required outside the U.S.	Ranger Rick is reproduced on "Talking Books" by the Library of Congress and distributed free by regional libraries.	"Great Shakes: It's Doctor Quake!" by C. Wakeman Evans, May, 1990. "Meet a Real Quake Watcher" by C. Duckworth, May, 1990. "It Shakes. It Roars. It Throws Melted Rock into the Sky: It's a VOLCANO!" by C. Wakeman Evans, June 1988.
SCIENCE WORLD Scholastic, Inc. 2931 East McCarty Street P.O. Box 3710 Jefferson City, MO 65102-9957	Eighteen issues (bi-weekly during the school year) cost \$5.95 for 10 or more subscriptions to the same address; 1-9 subscriptions each \$9.50 per student; \$20 teachers edition.	Back issues can be obtained by writing: Customer Service Scholastic, Inc. 2931 East McCarty Street Jefferson, MO 65101 Back issues cost \$2.50 for Teachers' Editions and \$1.25 for Student Editions; subject to availability.	"Deep Heat" by J. Fishman, January 25, 1991. "Quakes from Man-Made Lakes" by H. Brennan and B. Goodman, April, 1989. "Tectonic Terror" by K. Heller and J. Brune, April, 1989. "Armenia: Scientists Survey the Damage" by H. Brennan, March, 1989. "Quake Up, Sleepyhead" by J. Brune, March, 1989.

* Copies of articles can also be obtained through Interlibrary Loan. If you are affiliated with a school, contact the school librarian. If you are not associated with a school, go to the reference desk at your public library and request the article. Allow at least 2 weeks to obtain an article through Interlibrary Loan.

** This is not intended to be a complete list, just a sampling of articles.

3.3 Magazines for Children (Continued)

<u>Subscription Address</u>	<u>Subscription Cost</u>	<u>Reprint Policy *</u>	<u>Recent Articles Related to Earthquakes, Volcanoes, Tsunami **</u>
SUPERSCIENCE BLUE Scholastic, Inc. P.O. Box 3710 2931 East McCarty Street Jefferson City, MO 65102-9957	Eight issues during the school year, \$5.75/year 10 or more subscriptions to the same address. 1-9 subscriptions, each \$11.50. \$20.00 Teachers' Edition, per school year. Each Teachers' Edition subscription includes a copy of the student edition.	Single copies: \$1.25 student; \$2.50 Teachers' Edition. Teachers can write for permission to reproduce selected articles for use in workshops or with their class.	"Earthquake Power" in October, 1990 issue. Includes articles on the following: "Science and Society: Earthquake!," "Shaking Predictions," "Bracing for the Big One," and "SuperGraph: Predict a Quake."

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3.4 Selected Software

<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Continental Drift"	Ward's Natural Science Establishment, Inc. 5100 West Henrietta Road P.O. Box 92912 Rochester, NY 14692-9012 (800) 962-2660 (716) 359-2502	7-12	Apple II+/IIfx 48K Disk Minimum DOS required: 3.3	Explores concepts behind continental drift through separate tutorials, graphics, questions and review.
"Continental Drift"- part of <u>Earth Science</u> series	Prentice-Hall Sylvan Avenue Englewood Cliffs, NJ 07632 (800) 848-9500 (201) 592-2540	6-12	Apple Series, IBM PC, PC Jr, Tandy 1000; Requires DOS 2.1, double-sided disk drive, RGB color monitor, and color graphic adapter.	Students can journey back in time to look at and map the earth's surface as it appeared at various times in its past.
"The Earth and Its Composition"	Right on Programs 755 New York Ave. Huntington, NY 11743 (516) 424-7777	Grade 3	Apple Series Commodore 64, 128	This two-part program first introduces the student to some basic geologic information. It includes information about water, mountains, earthquakes, and volcanoes. The second part of the program is a game to test student retention of the information just read. Students are informed whether their answers are correct or incorrect. This comes with a reproducible Activity Packet and Teacher's Guide.

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3.4 Selected Software (Continued)

<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Earth: The Inside Story"	Educational Activities, Inc. P.O. Box 392 Freeport, NY 11520 (800) 645-3739 (516) 223-4666 FAX:(516) 623-9282	4-9	Apple, 48K IBM, PC Jr. and MS-DOS compatibles, 128K Tandy 1000 and Tandy 2000	Using computer graphics and animation, along with action news footage of recent earthquakes, this fascinating video teaches students the theory of plate tectonics and the earth's layers and plates, how and why earthquakes and volcanoes occur, how earthquakes are measured, and how to identify the most earthquake-prone areas. The guide includes activities to develop critical thinking and problem-solving skills. Note: Educational Activities also publish a live-action video program for grades 6 to 8, entitled, "Earthquakes and Moving Continents."
"Earthquake"	Micro-ED, Inc. P.O. Box 24750 Edina, MN 55424 (612) 929-2242	6-9	Commodore 64 (64K) Apple IIE	Given shock waves, find the epicenter.

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<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
*Earthquake Effects: A Computer Animation and Paper Model** Open-File Report 92-200B by Tau Rho Alpha, Robert A. Page, and Leslie C. Gordon, U.S. Geological Survey Menlo Park, CA 94025	U.S. Geological Survey Books and Open-File Reports Section P.O. Box 25425 Denver, CO 80225 (303) 236-4476	Junior-Senior Highschool	Requirements for the diskette version are: Apple Computer, Inc., HyperCard 2.0™ software, and an Apple Macintosh™ computer with High-Density drive. If you are using System 7, we recommend using at least 3 MB of RAM with 1.5 MB of system memory available for HyperCard.	This report illustrates, by means of a computer animation, how an earthquake occurs and what types of damage may result. The report is intended to help students and others visualize what causes earthquake shaking and some of the possible results of the shaking. By studying the animation and the paper model, students will come to understand that earthquakes result from faulting in the Earth and that the potential consequences of earthquakes are numerous and serious. Included in the diskette version of this report are the templates for making a paper model, instructions for assembly, educators' guide, and animations describing the effects of the earthquake, including the collapse of structures, fire, and a tsunami. The paper version of this report includes everything except the animations. Purchasers of the diskette version of this report, which includes all of the text and graphics, can use HyperCard 2.0™ software (not supplied) to change the model (by adding geologic patterns,

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3.4 Selected Software (Continued)

<u>Program Name</u>	<u>Available From. *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Earthquake Simulator"	Focus Media 839 Stewart Ave. P.O. Box 865 Garden City, NY 11530 (800) 645 8989 (516) 794 8900 Also available from: Cambridge Development Laboratory, Inc.	7-12 7-12	Apple series, color monitor recommended; Disk Apple	symbols, colors, etc.) or to transfer the model to other graphics software packages Also available from the U.S. Geological Survey Books & Open-File Reports Section: "How to Construct a Paper Model Showing the Motion that Occurred on the San Andreas Fault During the Loma Prieta, California, Earthquake of October 17, 1989" (Open File Report 89-640), "How to Construct Seven Paper Models That Describe Faulting of the Earth" (Open File Report 90-257), and "Make Your Own Paper Model of a Volcano" (Open File Report 91-115B). This is one in a series of earth science computer programs. Provides a simulation, tutorial and review Graphically demonstrates earthquake waves, faults, folding Students observe anticlines and synclines, faults, and future movement of the San Andreas fault Each of the program's modules is supported with the Student Workbook containing worksheets which can be completed by students either

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<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"The Earthquake Simulator"	Ward's Natural Science Establishment, Inc. 5100 West Henrietta Road P.O. Box 92912 Rochester, NY 14692-9012 (800) 962-2660 (716) 359-2502	7-12	Apple II Series	at the computer or back at their desks. Put yourself in control of beautifully animated color simulations of the Earth's crustal movement. Demonstrate plate movement, including subduction zones and ridge development. Observe and compare earthquake waves, and locate epicenters. Utilize the programs to demonstrate various types of faults, as well as anticlines and synclines. Each of the program's modules is supported with the Student Workbook containing worksheets for activities. Program includes: 1 Teacher's Lesson Planner, 1 Student Workbook, 1 double-sided disk and backup. Additional Student Workbooks available in sets of 10.

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3.4 Selected Software (Continued)

<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Earthquakes"	Cambridge Development Laboratory, Inc. 214 Third Ave. Waltham, MA 02154 (800) 637-0047 (617) 890-4640	5-9	Apple Screen displays can be reproduced on a printer.	Provides hands-on experience plotting real earthquakes and volcanoes on a world map. Data comes from USGS and National Earthquake Information Service. After plotting earthquakes, can superimpose tectonic plate boundaries. Note: Is no longer listed in the catalog, but is still available.
"Earthquakes"	Science Kit and Boreal Laboratories 777 East Park Drive Tonawanda, NY 14150-6782 (800) 828-7777 (716) 874-6020 Also available from: Cambridge Development Laboratory, Inc.		Apple II+ 48K Disk	Will plot epicenters of all earthquakes with magnitude greater than 5.0 on the Richter scale.

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<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Earthquakes"- part of <u>Earth Science</u> series	Prentice-Hall Sylvan Ave. Englewood Cliffs, NJ 07632 (800) 848-9500 (201) 592-2540	6-12	Apple Series, IBM PC, PC Jr., Tandy 1000 Requires DOS 2.1, double-sided disk drive, RGB monitor, and color graphic adapter	Students discover patterns in locations of earthquake origination points, and observe and control factors that cause earthquakes. They then use seismographs to record seismic waves and interpret resulting seismograms. Students use devices such as tiltmeters in earthquake prediction situations.
"Earthquakes/ Latitude-Longitude"	Ward's Natural Science Establishment, Inc. 5100 West Henrietta Road P.O. Box 92912 Rochester, NY 14692-9012 (800) 962-2660 (716) 359-2502	General Program effective at all levels: 6-12	Apple II+/Ile 48K Disk Minimum DOS required: 3.3	Gives hands-on experience plotting earthquakes and latitude- longitude lines. Includes a detailed Teacher's Guide with instructions for modifying the program to include new seismic data.

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3.4 Selected Software (Continued)

<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"The Earth Moves" A Simulation Program	Aquarius Instructional P.O. Box 128 Indian Rocks Beach, FL 34635-0128	For Life Science, Earth Science and Physical Science classes	2 Disk Set Apple	This contains two programs: "Folds and Faults" and "Earthquakes" "Folds and Faults" allows students to watch geological processes change the landscape. Students are able to select folds, faults, erosion, deposition or intrusions in any sequence to see how the earth moves. Includes teacher's guide with reproducible skill sheets. "Earthquakes" gives students hands-on experience plotting earthquakes and latitude/ longitude lines Includes reproducible plotting map
"Earth Science"	Nasco West, Inc. P.O. Box 3837 Modesto, California 95352 (800) 558-9595 (209) 529-6957	Upper elementary- junior high	Atari 400/800	Helps students determine an earthquake's epicenter and learn to identify minerals in different sections of this program

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<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Geodynamics Database"	Cambridge Development Laboratory, Inc. 214 Third Ave. Waltham, MA 02154 (800) 637-0047 (617) 890-4640	8 - college	Requires a PC XT, AT, PS/2 or compatible with hard disk and graphics card (IBM). Site license and Network available (call for price).	This is a comprehensive software resource with extensive data on 1,353 volcanoes and 23,000 earthquakes which lets students plot locations on maps of the world, a hemisphere, a particular geologic region, or other area of their choice. Volcano data includes: name, location, height, type, eruptive activity, lava characteristics, casualties, and damage. Earthquake data includes location of epicenter by latitude and longitude, date and depth of focus. Includes a comprehensive teacher's guide.
"Geology in Action: Experiments and Puzzles"	Cambridge Development Laboratory, Inc. 214 Third Ave Waltham, MA 02154 (800) 637-0047 (617) 890-4640	6-12	Apple	Allows students to experiment with different variables that teach them about the evolution of landscapes while learning basic geological concepts. Problems can be set for students or the program can be used to demonstrate basic geological processes such as faulting, sedimentation, volcanoes, and erosion. Includes Teaching Guide and backup.

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3.4 Selected Software (Continued)

<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"The Great Quake of '89"	The Voyager Company 1351 Pacific Coast Highway Santa Monica, CA 90401 (310) 451-1383 Also available from: Ztek, Co. P.O. Box 1055 Louisville, KY 40201-1055	5-12	Macintosh Plus or greater, hard disk with 185K free space, laser disc player with an RS-232 interface	This videodisc and software is a vast resource and collection of films, stills, maps, and drawings related to this and other earthquakes. The laser disc has been assembled from the ABC News Company's coverage of this earthquake. The HyperCard stack lets the teacher view the sequences in any order, pause at segments, and customize material for presentation. Chapters include: "The Bay Bridge," "Highway 880," "San Francisco Marina and Downtown," "The Richter Scale," and "Earthquake Preparation at Home." Reviewed: <u>Science and Children</u> , April, 1992.
*Macmillan Earth Science Scienceprobe"	Cambridge Development Laboratory, Inc. 214 Third Ave Waltham, MA 02154 (800) 637-0047 (617) 890-4640	6-9	Apple	This package lets students apply science concepts to solve challenging problems. Each activity includes a specific problem to solve, scientific data to be used in problem solving, immediate evaluation of solution, and an automatic manager that stores that student's scores. Includes seismology, meteorology, hydrology and paleontology.

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<u>Program Name</u>	<u>Available From:</u> *	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"The Moving Crust"	Focus Media 839 Stewart Ave. Garden City, NY 11530 (516) 794-8900 (800) 645-8989 Also available from: Ward's Natural Science Establishment, Inc. (800) 962-2660 74 E 1976 (IBM) 74 E 1977 (Apple)	7-12	Apple 64K, IBM 256K, MS-DOS Compatible	This program introduces the theory of plate tectonics with interactive simulation where students collect evidence to prove the theory. The program emphasizes decision making and strategy formation in individual and group situations. Includes three disks, back-ups, manual/planner/black-linemasters (26 pp.). Reviewed: <u>Science and Children</u> , April, 1992.
"Plate Tectonics" - part of <u>Earth Science</u> series.	Prentice-Hall Sylvan Ave. Englewood Cliffs, NJ 07632 (800) 848-9500 (201) 592-2540 Also available from: Ward's Natural Science Establishment, Inc. (800) 962-2660 74 E 1705 (IBM) 74 E 1704 (Apple)	6-12	Apple Series, IBM PC, PC Jr., Tandy 1000, 2 disk drives	Uses graphics, text, questions to demonstrate how earth's crust is divided into plates and how volcanoes, mountains, earthquakes relate to plate movement. Reviewed: <u>Science and Children</u> , Feb. 1987.
"The Restless Earth"	Cambridge Development Laboratory, Inc. 214 Third Ave. Walham, MA 02154 (800) 637-0047 (617) 890-4640	9-12	Apple	Provides highly graphic tutorial with many student options for review and remediation.

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3.4 Selected Software (Continued)

<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
Science Toolkit Module 2: "Earthquake Lab"	Broderbund Software - Direct, Dept. 15 P.O. Box 6125 Novato, CA 94948-6125 (800) 521-6263 FAX (415) 491-6665 Also available from: Cambridge Development Laboratory, Inc. (Apple and IBM)	4-12	Apple II + IIc/IIc and Apple II GS with at least 64K memory. One or two disk drives, printer (optional). To use, an Apple II+ and adapter is needed for the game port.	This is both a software and hardware package that requires Science Toolkit Master Module. It is used to detect and record earthquake waves with the included "seismoscope." The "seismoscope," made of cardboard and plastic, is an optional lever type seismograph with a claimed magnification of 2000. It can detect hammer blows and books dropped at a range of up to 20 feet. The software draws a strip chart graph of the detected data. New Experiment Manual. Note. to upgrade existing copies of any Science Toolkit Module, send original program disks, the manual cover, or a copy of the original purchase order with the appropriate price. Free upgrades are available if ordered within three months of purchasing

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<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Seismological Data Acquisition Software"	Joseph J. Gerencer, Jr. Department of Physics and Earth Sciences Moravian College 1200 Main Street Bethlehem, PA 18018-6650	6-12; college	Apple IIe or IIgs with 128K; one or two disk drives; AE 8-bit A/D and D/A board; access to an Apple ProDOS Utilities disk; Orange Micro Pro-Grappier or Grappier Plus Printer Interface; and a compatible parallel printer. Also an AE Timemaster II HO clock card is required for the Apple IIe.	Monitor and display in real time from 1 to 4 simultaneous seismometer inputs. Digitized data is accumulated in internal memory in 12K or 24K blocks until subsequent seismic inputs are evaluated. If selected seismic traces exceed user-set boundaries, all sequestered data is saved to disk, along with all current inputs from seismometers. User-friendly menus alter the variables which control the data acquisition, monitoring, displaying, system triggering, and subsequent viewing and printing of any combination of inputs. SAS package includes 3 disks (source code, assembled object code, and example data) and detailed 64-page <u>User's Manual</u> . Most of the features of the software are described in the article, "Cross Utilization of a Multi-Axis Lehman Seismograph System" by Gerencer and Jackson, <u>Journal of Geological Education</u> (1991), volume 39, pp. 306-310

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3.4 Selected Software (Continued)

<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Shaping the Earth's Surface"	Focus Media 839 Stewart Ave. Garden City, NY 11530 (516) 794-8900 (800) 645-8989	7-12	Apple II Family (Laser 128)	This is a four part series which can be used for review, as a tutorial, learning game or combination of the three: "Weathering," "Agents of Erosion," "Systems of Erosion and Deposition," and "Forces That Raise the Surface." "Forces That Raise the Surface" includes earth movements, major landforms, volcanoes, and plate tectonics.
"Volcanoes"	Ward's Natural Science Establishment, Inc. 5100 West Henrietta Rd. P.O. Box 92912 Rochester, NY 14692-9012 (800) 962-2660 (716) 359-2502	Advanced high school (9-12), college	Apple II/IIe, 48K, Disk Minimum DOS required: 3.3	In addition, a related, 3 part program, "Your Universe," contains information about the earth's structure, volcanoes, earthquakes, and continental drift. Simulates behavior of different active and dormant volcanoes and teaches the use of cartesian coordinates, simple mapping, volcanic terminology, seismic studies etc. Includes master copies of maps suitable for reproduction.

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<u>Program Name</u>	<u>Available From: *</u>	<u>Grades</u>	<u>Computer</u>	<u>Program Information</u>
"Volcanoes" - part of <u>Earth Science</u> series	Prentice-Hall Sylvan Ave. Englewood Cliffs, NJ 07632 (800) 848-9500 (201) 592-2540	6-12	Apple Series, IBM PC, PC Jr., Tandy 1000, 2 disk drives.	Students discover geographical patterns in volcano activity and plate interactions, compare the basic types of volcanoes with the subsurface activity and the composition of magma involved, and investigate the harmful and beneficial effects of volcanic eruption.
"Volcanoes Deluxe" "Volcanoes" Apple II series	Earthware Computer Services P O. Box 30039 Eugene, OR 97403 Also available from: Cambridge Development Laboratory	5-12	For the PC and Apple II GS. Deluxe PC requires CGA; Apple II GS requires 1.2 Meg RAM, Networkable, Color monitor recommended, Disk	Students investigate simulated volcanic situations and predict eruptions. Teaches deductive reasoning, map reading skills and cooperation. Used in applied physics, geology, and geography courses. "Volcanoes" is a less graphic version of Volcanoes Deluxe. This is a simulation game where students study and learn how to predict earthquakes. Reviewed: <u>Science and Children</u> , May 1987.

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3.5 Software Evaluation

Software can be difficult to evaluate. Some of it is so technologically dazzling that it is easy to be impressed by the graphics and blinded to the educational soundness of the program itself. It's important to keep in mind the purpose of the software for your program as well as the level and needs of your students. In addition, look at its ease of use, the clarity of instructions, graphic details, evidence of field testing, and any existing reviews. Preview of software prior to purchase is also desirable.

The following are some additional questions to guide you in your selection of the best software for your program.

For what purpose do you intend to use the software?

Is it to supplement the lessons?

Introduce a unit? Conclude a unit?

Do you want the students to have a review of the material or to learn something new?

Do you want students to visually see something you could not demonstrate in class?

How will students use the software?

Will students be using the software independently or under your guidance?

Will they be using it singly, or in small groups?

Will they be using it with a text, or reading textual information from the screen?

Will they be using it to do reports or projects?

Will the software facilitate learning?

Is the software developmentally appropriate for the students? Does the software consider students' prior knowledge?

Does it provide appropriate feedback?

Is the feedback immediate or delayed?

What is the level of feedback complexity?

3.6 Selected List of Resource Organizations

<u>Organization:</u>	<u>Source For:</u>
American National Red Cross Disaster Services 18th and E Street N.W. Washington, D.C. 20006	Variety of disaster materials
Arkansas Office of Emergency Services P.O. Box 758 Conway, AR 72032 (501) 329-5601	"Ready Teddy" tape, "Rumble, Tumble Ready" buttons; (K-3) Braille translations of FEMA earthquake booklets
Bay Area Regional Earthquake Preparedness Project (BAREPP) MetroCenter 101 8th Street Suite 152 Oakland, CA 94607 (415) 540-2713	<u>Earthquake Planning and Preparedness Activities for Childcare Providers; Identification and Reduction of Nonstructural Earthquake Hazards in California Schools</u> and a variety of other earthquake preparedness and curriculum materials
California Earthquake Education Project Lawrence Hall of Science University of California Berkeley, CA 94720 (415) 327-6017	CALEEP materials including "Earthquake Hazards Around the Home" coloring book
Center for Earthquake Research and Information Memphis State University Memphis, TN 38152 (901) 678-2007	Reprints of articles related to seismographs, the Earth- quake Education Project and New Madrid Seismic Zone

Center for Earthquake Studies
Southeast Missouri State
University
One University Plaza
Cape Girardeau, MO 63701-4799
(314) 651-2019

Earthquake Education Center
Charleston Southern University
9200 University Blvd.
P.O. Box 10087
Charleston, SC 29411
(803) 863-7531

Emergency Management Division
City of Irvine
One Civic Center Plaza
Irvine, CA 92713
(714) 724-7149

Emergency Preparedness Canada
Public Information
2nd floor, Jackson Building
122 Bank Street
Ottawa, Ontario
Canada K1A 0W6
(613) 991-7077

Environmental Volunteers
2448 Watson Court
Palo Alto, CA 94303
(415) 424-8035

New Madrid Earthquake by
Fuller (reprint);
"How to Build and Use
Your Earthquake Liquefaction
Model;"
The Effects of Earthquakes in the
Central United States by Nuttli
(reprint)

"Emergency 'Q' Tips" 1 & 2;
Information about earthquakes
in South Carolina

Officer Ollie's Earthquake Show -
videotape; Zoo Friends Earthquake
Safety Tips; videotapes of school
preparedness workshops

Earthquakes in Canada
videotape; also emergency
preparedness booklets in
French & English

Hands-On Earthquake Learning
Package with hands-on teaching
materials including motor
driven shaking table

Federal Emergency Management Agency
Earthquake and Natural Hazards Division
SL-NT
500 C Street, S.W.
Washington, D.C. 20472
(202) 646-2800

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
Canada K1A 0E8
(613) 995-5745

Lafferty & Associates, Inc.
4529 Angeles Crest Hiway
Suite 215, P.O. Box 1026
La Canada, CA 91011
(818) 952-5483

Math/Science Nucleus
3710 Yale Way
Fremont, CA 94538
(510) 490-6284
FAX: (510) 490-0256

Ministry of Education
620 Superior Street
Victoria, B.C.
Canada V8V 2M4
(604) 356-7821

Guidebook for Developing a
School Earthquake Safety
Program (FEMA 88);
Earthquakes: A Teachers
Package for K-6 (FEMA 159)
Big Bird Get Ready for
Earthquakes (CTW)

References on Earthquakes,
Tectonics, Maps and Earthquake
occurrences

Preparedness handbook;
videotapes: Shake,
Rattle and Roll; How to
Survive a Major Earthquake

Plate Tectonic Cycle
teacher manual (K-6);
materials including maps,
shaker tables, videos

Seismic Upgrading for
School Buildings; School
Earthquake Safety Guidebook

National Center for Earthquake
Engineering Research
State University of New York
at Buffalo
Red Jacket Quadrangle
Buffalo, NY 14261
(716) 636-3391

National Research Council of
Canada
Institute for Research in Construction
Building M-22, Montreal Road
Ottawa, Ontario
Canada K1A 0R6
(613) 993-2607

New England States Earthquake
Consortium
501 Islington St., Suite 7
Portsmouth, NH 03801
(603) 430-9876

Quake Safe
700 State Dr.
Los Angeles, CA 90037
(213) 744-2008

Seismological Society of America
201 Plaza Professional Building
El Cerrito, CA 94530
(415) 525-5474

Southern California Earthquake
Preparedness Project (SCEPP)
P.O. Box 50310
Pasadena, CA 91115-3010
(818) 795-9055

Earthquake Education Materials
for Grades K-12; Fact Sheets;
Earthquake Engineering Publications

Earthquake Building Codes;
Guidelines for Building

New England Earthquake Fact
Sheets; Speakers Bureau;
Information Resource

Newsletter; programs for
children

"A Catalog of Earthquake
Related Sounds" - tape with
21 entries

Pre-School Earthquake
Preparedness Guide

University of Missouri-Columbia
College of Education
Southwestern Bell
Science Education Center
108 Townsend
Columbia, MO 65211-0211
(314) 882-4363

Videotape about the New
Madrid fault zone;
resources appropriate
for earth science teachers
(Grades 7-12).

University of British Columbia
Centre for Human Settlements
2206 East Mall
Vancouver, B.C., Canada V6T 1W5
(604) 228-5254

Catalog of Emergency
Preparedness and Earthquake
Information

University of California at
Los Angeles (UCLA) Extension
10995 Le Conte Avenue, Suite 639
Los Angeles, CA 90024-2883
(213) 825-4191

Videotapes; Certificate Program
and Classes in School Earthquake
Preparedness

U.S. Geological Survey
Public Inquiries Office
302 National Center
Reston, VA 22092
(703) 648-6891

References on earthquakes;
catalogs, maps of earthquake
occurrences

U.S. Geological Survey
Western Region Library
345 Middlefield Road
Mail Stop 955
Menlo Park, CA 94025-3591
(415) 329-5081

Resource materials for K-12th
grade earth science educators.
Includes textbooks, videotapes,
maps, computer software.