

SCIENCE ON THE AIR

SCIENCE NEWS prints the latest written word of scientific developments and noteworthy news. We've set this space aside to inform our readers of programs of scientific interest that are scheduled on television and radio. Check your local listings for exact times.

Television

• May 12 (PBS) "Life With St. Helens"

The story of what it is like to have an active volcano in your backyard. The program follows Mt. St. Helens from 1830 through the big eruption of March 27, 1980, and beyond into 1981.

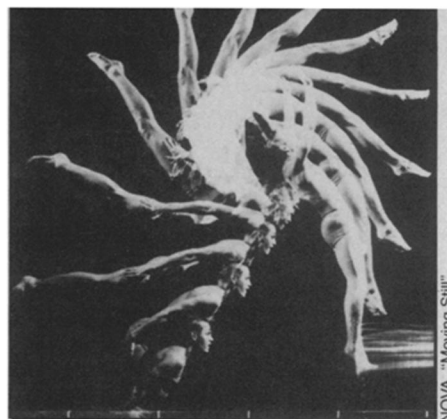
• May 12 (CBS) "The Body Human: Breakthrough 2000" "A new world, in which the future becomes the present, science fiction is no longer fictional, and human beings are at ease with bionic parts." The program shows the progress being made in the development of sophisticated artificial limbs, such as a "myoelectric" hand that responds to brain signals, and also describes newer applications of technology, such as a nerve switch implanted in the brain that releases endorphin to help control pain, a laser beam that acts as a surgical ray gun and a bionic bone implant.

• May 29 (PBS) "Back Wards to Back Streets" A documentary on the deinstitutionalization of the mentally ill. The program looks at some of the disasters of community mental health care and the exceptional programs that provide aftercare for discharged mental patients.

Series

• (PBS) "Here's to Your Health": May 2 "Aging" features the Pulitzer Prize winning author of *Why Survive? Growing Old in America*; May 9 "Narcolepsy" includes interviews with both victims of the disease and medical researchers; May 16 "The Sun and Your Skin" looks at the increased danger of skin cancer from overexposure to the sun; May 23 "Breast Cancer" is a frank investigation of the myths and facts of breast cancer; May 30 "Headaches" discusses professional treatments and offers advice on coping with the problem.

• (PBS) "The Cousteau Odyssey": May 3 "Diving for Roman Plunder" is an investigation of one of early civilization's unresolved scandals: the pillage of Grecian artwork; May 10 "The Nile, Part I" is an exploratory journey focusing on the effect of human intrusions upon nature; May 17 "The Nile, Part II" is a continuation of the journey, with a focus on the changes brought about by the intrusion of technology along the river; May 24 "Lost Relics of the Sea" is an exploration of Mediterranean sites of long-lost shipwrecks.



Still photo of action sequence of dive was taken by Harold Edgerton, pioneer in high- and low-speed photography.

• (PBS) "NOVA": May 5 "The Wizard Who Spat on the Floor" is a rare look at Thomas Edison, the man and the myth, featuring unique archival film of Edison explaining his inventions and interviews with Edison's family, employees and critics; May 12 "The Water Crisis" is a look at a number of water-related problems plaguing the United States — shortages, acid rain, the effect of chlorine in combination with natural and manmade organic chemicals and contamination by industrial wastes; May 19 "Moving Still" is the extraordinary story of how photography and more recent techniques of freezing moments of time bring remarkable insights into the world and life itself; May 26 "A Touch of Sensitivity" is an exploration of the hidden meaning and extraordinary power of human touch.

BOOKS

BOOKS is an editorial service for readers' information. To order any book listed or any U.S. book in print please remit retail price, plus 50¢ handling charge for each book to **Book Order Service**, Science News, 1719 N Street, N.W., Washington, D.C. 20036. All books sent postpaid. Domestic orders only.

AN ANNOTATED BIBLIOGRAPHY OF FILMS AND VIDEOTAPES FOR COLLEGE MATHEMATICS — David I. Schneider. The main entry for the films is by distributor. Subject and title indexes, however, add to the usefulness of the book. Math Assn, 1980, 107 p., paper, \$9.

BASIC LIBRARY LIST FOR TWO-YEAR COLLEGES — MAA Subcommittee on Basic Library Lists. Designed by this Mathematical Association of America committee to provide the faculty with reference material relevant to their teaching and broad mathematical interest and the student with collateral reading for courses and material for the cultivation of special interests. Math Assn, 2nd ed., 1980, 66 p., paper \$8.

COMPARATIVE STUDIES OF HOW PEOPLE THINK: An Introduction — Michael Cole and Barbara Means. Illustrates both the problems of comparative studies and the strategies for coping with them, using actual research from the psychological literature. These illustrations have been chosen because they demonstrate general problems of interpretation that are common in comparative cognitive research. Harvard U Pr, 1981, 208 p., charts & graphs, \$15.

DISTURBING THE UNIVERSE — Freeman Dyson. In this fascinating autobiography Dyson, an outstanding physicist, mathematician and theoretical astronomer, conveys to the general reader both the excitement and dilemma of exploration and discovery in science. Originally published in hardback in 1979. Har-Row, 1981, 283 p., paper, \$4.95.

THE FACTS ON FILE DICTIONARY OF MATHEMATICS — Carol Gibson, Ed. Contains some 1,200 entries that explain the most commonly used mathematical terms. Line drawings illustrate many mathematical concepts. Originally published in Great Britain. Facts on File, 1981, 216 p., illus., \$14.95.

THE FACTS ON FILE DICTIONARY OF PHYSICS — John Daintith, Ed. The most important and the most commonly used terms in the ever-expanding field of physics are explained. Line drawings enhance the text. Originally published in Great Britain. Facts on File, 1981, 217 p., illus., \$14.95.

JAWA: Lost City of the Black Desert — S. W. Helms. In this harsh environment no settlement was ever built on Jawa's ruins, thus making it the best preserved Bronze Age city yet discovered. The town plan, its fortifications and its sophisticated water retrieval and storage system are described and the significance of this city's discovery is discussed. Cornell U Pr, 1981, 270 p., illus., \$37.50.

LIFE BEYOND EARTH: The Intelligent Earthling's Guide to Life in the Universe — Gerald Feinberg and Robert Shapiro. A physicist and a biochemist use what is known about life on earth to infer essential features that any form of life must possess. They then investigate how these general

Radio

• May 2 "Homage à Sakharov" Live radio coverage of N.Y. Academy of Sciences conference will be broadcast over WBAI-FM 99.5 in New York City and over KSNJ 1330 KHz AM in Minneapolis/St. Paul. It will also be made available free via satellite to public radio stations around the country.

features might express themselves in the specific environments that are found in various parts of the universe. Morrow, 1980, 464 p., illus., \$14.95, paper, \$7.95.

PASSIVE SOLAR ENERGY: The Homeowner's Guide to Natural Heating and Cooling — Bruce Anderson and Malcolm Wells. "Passive" solar heating and cooling relies on the natural ebb and flow of the energy of the sun through a house. This book explains passive solar energy in non-technical language and discusses how to take advantage of the sun for heating and cooling. Detailed sketches and photographs of solar homes, windows, walls, roofs and rooms are included with solar ideas for new and existing homes. Brick Hse Pub, 1981, 197 p., color/b&w illus., \$17.95, paper, \$8.95.

THE WOOING OF EARTH — René Dubos. This outstanding scientist offers important insights into our relation to the natural world. "With our knowledge and a sense of responsibility for the welfare of humankind and the Earth, we can create new environments that are ecologically sound, aesthetically satisfying, economically rewarding, and favorable to the continued growth of civilization." Originally published in hardback in 1980. Scribner, 1981, 183 p., paper, \$4.95.