

Science on the Air

Science News prints the latest written word of scientific development 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 and dates. (R) indicates a repeat broadcast.

Nov. 1 (PBS) Nature — "Cold on the Equator" (R) Profiles the animals that survive in the surprisingly cold waters surrounding the Galápagos islands.

Nov. 2 (PBS) The First Eden — "The Making of the Garden" Looks at the collision of continents that created the Mediterranean Sea, its sea life, the plants and animals and the arrival of humans.

Nov. 4 (PBS) Discover — **The World of Science** Focuses on the natural wonders of Hawaii, including volcanoes, evolutionary biology, monk seals, tuna and aquaculture.

Nov. 6 (PBS) AIDS — "Changing the Rules" Addresses the AIDS threat to heterosexuals and suggests steps individuals can take to minimize the risk of contracting it.

Nov. 8 (PBS) Nature — "The Ocean Travelers" (R) Examines the birds that inhabit the Galápagos islands and explores the changing relationship between humans and their environment.

Nov. 8 (PBS) Only One Earth — "People of the Desert" Visits Kenya's nomadic Rendilles people and the efforts to restore their land after a permanent water supply attracted large numbers of people and animals, destroying the desert's fragile environment.

Nov. 9 (PBS) The First Eden — "The Gods Enslaved" Explores humans' gradual understanding and awareness of the natural world and their eventual exploitation of it.

Nov. 10 (PBS) Nova — "Volcano" Looks at the science of predicting when and how forcefully a volcano will erupt.

Nov. 10 (PBS) The Ring of Truth — "Clues" Journeys to the Mediterranean Sea and looks for clues from the past that could answer questions about the birth and life of this planet.

Nov. 15 (PBS) Nature — "A Season in the Sun" Explores the contrasting landscapes of east Africa and the migratory animals that live there.

Nov. 16 (PBS) The First Eden — "The Wastes of War" Reviews the taming of the horse, the triumphs of Islam, the movement of eastern animals toward the western shores of the Mediterranean and the destruction of the forests.

Nov. 17 (PBS) The Ring of Truth — "Atoms" Traces the history of the atom from the experiments of early goldsmiths to modern-day electron microscopes.

Nov. 18 (PBS) Wild America — "At the Crossroads" (R) Journeys on an exploration of wildlife's struggle for survival in modern America.

Nov. 21 (PBS) Wild America — "Bighorn" (R) Visits a band of wild Rocky Mountain bighorn sheep through the seasons, from one spring into the next.

Nov. 22 (PBS) Nature — "The Legend of the Lightning Bird" Features the hammer-headed stork and its legendary ability to call lightning from the skies.

Nov. 23 (PBS) The First Eden — "Strangers in the Garden" Examines how civilization has affected the lands and seas of the Mediterranean, and humankind's struggle to reclaim the environment that nurtured the earliest civilizations.

Nov. 24 (PBS) The Ring of Truth — "Doubt" Discusses the scientific breakthroughs during World War I and the research and conclusions of the scientists of the day.

Nov. 24 (PBS) Nova — "Monarch of the Mountain" Explores the breeding, migration and survival patterns of the Rocky Mountain elk.

Nov. 28 (PBS) Wild America — "The Wolf and the Whitetail" (R) Follows the lives of two deer fawns and wolf pups from birth to maturity, when they assume their adult roles of predator and prey.

Nov. 29 (PBS) Nature — "The Volcano Watchers" Captures the beauty and power of volcanoes erupting in dramatic footage.

CHILDREN'S PROGRAMS

Nov. 2 — **3-2-1 CONTACT** This Emmy award-winning series moves out of the classroom to demonstrate that science and technology are not only textbook topics, but vital, fascinating parts of everyday living. Weekdays and Sundays.

Nov. 2 — **Square One TV** (R) Advances an interest in and an enthusiasm for mathematics for children, using popular television formats, including music videos, news reports, game shows, sitcoms and station breaks. Weekdays.

Nov. 7 — **Newton's Apple** Addresses subjects children often wonder about, including the workings of a submarine, the power of a tornado and why stars twinkle. Saturdays.

Books

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Alone in America: The Search for Companionship — Louise Bernikow. Explores the phenomenon of loneliness, probes the reasons for our aloneness and discusses the ways we look for companionship in a society that does not easily foster personal connections. Originally published in hardback in 1986 by Harper & Row. Faber & Faber, 1987, 255 p., paper, \$7.95.

Beyond the Roaring Forties: New Zealand's Subantarctic Islands — Conon Fraser. A comprehensive and beautifully illustrated account of these islands that lie south of New Zealand on the way to Antarctica, isolated by the notorious Roaring Forties, gale-force winds of the Southern Ocean. Mere dots of land in a vast expanse of sea, the islands are vital breeding grounds for millions of sea birds and tens of thousands of marine mammals. Many animals and plants are unique to the region. Although settlements have been attempted on some of these islands, today the five island groups are managed as nature reserves. U of Wash Pr, 1987, 214 p., color illus., \$45.

Chaos: Making a New Science — James Gleick. The study of chaos, according to the prologue, began in the 1960s with the realization that quite simple mathematical equations could model systems as violent as a waterfall. Tiny differences in input could become overwhelming differences in output. Chaos offers a way of seeing order and patterns in natural phenomena, where formerly only the random and the unpredictable had been observed. The book tells of the development of this new science and the insights of some of the scientists working in the field including Edward Lorenz, Mitchell Feigenbaum and Benoit Mandelbrot. Viking Pr, 1987, 352 p., color/b&w illus., \$19.95.

Darkness at Night: A Riddle of the Universe — Edward Harrison. A leading astronomer/physicist here explores the question of why the sky is dark at night. For more than four centuries investigators have pondered this problem and have proposed many interesting but incorrect theories. While tracing the story of these investigations, Harrison discusses the developments in astronomy that led to the presently accepted answer to the riddle. Harvard U Pr, 1987, 293 p., illus., \$25.

Land's Polaroid: A Company and the Man Who Invented It — Peter C. Wensberg. A portrait of Edwin Land describing his many accomplishments and the unique company he founded and ran for 45 years. The author was with Polaroid from 1958 to 1982, just after Land retired. HM, 1987, 258 p., illus., \$18.95.

Mushrooms: A Quick Reference Guide to Mushrooms of North America — Alan Bessette and Walter J. Sundberg. This Macmillan field guide includes the common mushrooms likely to be found in North America. The species, illustrated with color photographs to show characteristic features, are arranged in groups based on similarities in their appearance or shape and form. The identification outline to major groups of fungi is designed to lead the user to the appropriate group of photographs. Macmillan, 1987, 171 p., color illus., \$24.95, paper, \$12.95.