

Books

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Bicycling Science — Frank Rowland Whitt and David Gordon Wilson. For mechanically inquisitive bicyclists, teachers of elementary mechanics or physiology (to be used as a teaching tool), and engineers and others concerned with bicycle design, which at this time is undergoing considerable change. This technical guide starts "from basic principles — which are, in general, the laws of physics." Includes discussion and illustration of unusual pedaled machines and the human-powered vehicles of the future. This second edition has been thoroughly revised and brought up-to-date. MIT Pr, 2nd ed., 1982, 364 p., illus., \$19.95, paper, \$9.95.

Celebrations of Life — René Dubos. A prominent scientist, humanist and Pulitzer Prize winner tells about the living experience, especially in the human adventure. "I shall try," he says in the foreword, "to convey this experience by stating what I *know* and how I *feel* about certain places and events that have been of particular interest to me or that have affected some aspects of my own existence." Originally published in hardback in 1981. McGraw, 1982, 260 p., paper, \$5.95.

Delinquency, Its Roots, Careers and Prospects — D. J. West. Twenty years of British research that have come to be known as the Cambridge Study in Delinquent Development took 400 schoolboys and studied them from 8 to 25 years of age searching for reasons why some became delinquent while others did not. Provides an overview of the findings of the project and reflects upon their implications for social policy. Harvard U Pr, 1982, 186 p., \$15.

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. (R) indicates a repeat broadcast.

• Dec. 1 (PBS) "Health Care at the Crossroads" is an hour-long debate on national health care issues between former HEW Secretary Joseph Califano and Robert Rubin, Assistant Secretary for Planning and Evaluation in the current Department of Health and Human Services.

• Dec. 15 (PBS) "The Sun Dagger" (R) is the story of the discovery and implications of a solar calendar designed by the Pueblo Indians in Chaco Canyon, N.M.

• Dec. 23 (PBS) "The Whales that Wouldn't Die" is the story of the Pacific gray whale. Archival and rare film footage documents the history of these whales, which have twice faced near extinction.

• Dec. 30 (PBS) "Zookeepers" is a behind-the-scenes visit to Chicago's Lincoln Park Zoo.

Series

• (PBS) "The Body in Question" (R): Dec. 10 "Native Medicine" contrasts the practice of modern medicine with tribal

Hanging In: What You Should Know About Psychotherapy — Harvey R. Greenberg. Discusses for the adolescent and the family common emotional problems of adolescence that respond to psychotherapy. Gives advice on how to get professional help. Four Winds, 1982, 273 p., \$12.95.

The Negev: The Challenge of a Desert — Michael Evenari et al. First published in 1971, the text summarized some 20 years of scientific study of Israel's southern desert. This second edition includes data from another decade of desert research. Extends the weather data another ten years, describes the efforts to start a new farm, presents further work on the adaptation of plants and animals to desert conditions. Harvard U Pr, 2nd ed., 1982, 437 p., illus., \$35.

Pluto's Republic — Peter Medawar. A collection of this Nobel Prize winner and science communicator's work in which he explores the realm of scientific reasoning and misconceptions about science. Includes the whole of *The Art of the Soluble* and *Introduction and Intuition in Scientific Thought*, selected essays from *The Hope of Progress* and a number of lectures and essays that have not before appeared in book form. Oxford U Pr, 1982, 351 p., \$25.

Reproduction: The Cycle of Life — Karen Jensen. This volume in The Human Body series covers the story and the science of reproduction from the earliest known research in 2500 B.C. to the newest procedures of fetal surgery. The myths, superstitions and social customs of pregnancy and birth throughout history are explored. The reproduction systems of the male and female, the growth cycle of the fetus and the childbirth process are some of the topics presented together with outstanding color photographs. U.S. News Bks (Scribner), 1982, 165 p., color/b&w illus., \$15.95.

medicine; Dec. 17 "Balancing Act" analyzes the body's repertoire; Dec. 24 "Brute Machine" uses analogies from gunpowder to electronics to probe the "mind-body problem"; Dec. 31 "Heads and Tails" explores the lower nervous system.

• (PBS) "Nature": Dec. 5 "In Praise of God" looks at the naturalists who were among the first to study animal behavior; Dec. 12 "Search for the Mind" focuses on the efforts of naturalists and zoologists who study the animal mind; Dec. 19 "A Question of Learning" investigates how animals learn; Dec. 26 "Signs and Signals" is a look at naturalists' efforts to learn the language of animals.

• (PBS) "NOVA": Dec. 7 "Whale Watch" is a close-up look at some of the world's most magnificent mammals, gray whales; Dec. 14 "Tracking the Supertrains" questions the need for a high-speed train between Los Angeles and San Diego, slated for completion by 1985, and finds out why the nation's first high-speed train is not American made; Dec. 21 "The Television Explosion" (R) surveys the past, present and future of American television; Dec. 28 "Test Tube Babies: A Daughter for Judy" (R) contains exclusive footage of the birth of America's first test-tube baby, rebroadcast on her first birthday.

The Rocket Team — Frederick I. Ordway III and Mitchell R. Sharpe, foreword by Wernher von Braun. An account (spanning the years from the late 1920s to the early 1970s) of a group of German amateur rocketeers, led by Wernher von Braun, which grew into the rocket team that became one of the world's most influential technological forces. Originally published in hardback in 1979. MIT Pr, 1982, 462 p., illus., paper, \$9.95.

Science and Technology Centers — Victor J. Danilov. Traces the evolution of the science and technology center movement, describes the characteristics and operations of many such museums and provides information for those considering starting or operating them. MIT Pr, 1982, 355 p., illus., \$40.

The Skeleton: Fantastic Framework — Kathy E. Goldberg. With magnificent illustrations the reader can see inside bone to observe its composition as living tissue. How the skeleton works is illustrated and described. The nature of bone growth and what happens when it goes wrong are explained. New technology that has led to modern artificial limbs and joint replacement is discussed. A volume in The Human Body series. U.S. News Bks (Scribner), 1982, 165 p., color/b&w illus., \$15.95.

A Woman's Choice: New Options in the Treatment of Breast Cancer — Mary Spletter. Gives in clear, concise language a review of current information on breast cancer from scientific theories and available treatment to the social and personal ramifications of the disease. Imparts to the general reader a method for analyzing the most up-to-date findings and suggests the key questions one should ask a physician about each area. Contains accounts from women who have had breast cancer, explores the problems that can arise and points up ways of coping. Beacon Pr, 1982, 236 p., illus., \$14.50.

• (PBS) "Odyssey" (R): Dec. 2 "The Three Worlds of Bali" examines the artistic offerings the Balinese make in order to maintain a balance among the world they live in, the world of the gods and the world of the demons; Dec. 9 "Masters of Metal" looks at new theories of the development of metal technology; Dec. 16 "Dadi's Family" is a portrait of a farming family in India; Dec. 30 "Margaret Mead: Taking Note" is a portrait of the person largely responsible for popularizing anthropology in America.

• (PBS) "Survival Specials": Dec. 1. "Mzima: Africa's Mysterious Spring" eavesdrops on the variety of creatures who visit the spring for nourishment and those who make the spring their home; Dec. 8 "Parents of the Wild" is a look at how various wildlife creatures raise, care for and protect their young.

• (PBS) "Wild America": Dec. 2 "The Wolf and the Whitetail" follows young deer and wolf pups through the age of innocence into maturity; Dec. 9 "Living with Wildlife" illustrates how we can best live with and preserve our natural heritage; Dec. 16 "Wild Babies" examines baby skunks, flying squirrels, raccoons, owls, bears and other wild youngsters as they attend a wilderness "school of survival."