

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.

Feb. 3 (PBS) Nature — "Birds of Paradox" A look at birds that cannot fly but have evolved highly efficient ways of moving on land and in water.

Feb. 3 (PBS) The Living Planet — "The Building of the Earth" A journey to Hawaii, Nepal, Northern Ireland, Kenya and New Zealand to introduce the forces — both subtle and explosive — that shape our planet.

Feb. 5 (PBS) Nova — "In the Land of the Polar Bears" A rare look at the beautiful, desolate Wrangel Island, a haven for polar bears, walrus, Siberian snow geese and polar foxes, which lies 300 miles off the coast of Alaska.

Feb. 6 (PBS) Arctic Window — This documentary offers a glimpse into the complexities involved in creating a zoo exhibit of North Atlantic puffins and transporting them halfway around the world to Chicago's Lincoln Park Zoo.

Feb. 6 (PBS) Discover: The World of Science — A new science magazine, premiering with stories on sea turtles, space sickness, leukemia therapy and robotics.

Feb. 7 (PBS) Wild America — "Wolverine Country" A visit with the wolverine in the rugged land it shares with the wolf, red fox, deer and snowshoe hare.

Feb. 10 (PBS) Men and Women: After the Revolution — Considers the sexual revolution of the past several years and deals with the difficult transition from traditional sex roles to an era where anything goes.

Feb. 10 (PBS) Nature — "Fungi: The Rotten World About Us" (R) An in-depth look at fungi, the agents of putrefaction and decay essential to life on this planet.

Feb. 10 (PBS) The Living Planet — "The Frozen World" A look at the earth's most frigid zones, including the Himalayas and Antarctica, which support an extraordinary variety of life forms.

Feb. 12 (PBS) Nova — "AIDS: Chapter One" Shows how modern science has been unraveling the mystery of this deadly new disease, which, since its discovery four years ago, has killed more than 2,000 people.

Feb. 14 (PBS) Wild America — "Fascinating Fishes" An underwater exploration of North American waters, which abound with over 2,000 species of fish.

Feb. 17 (PBS) Nature — "The Lost World of the Medusae" Set in the tropical islands of Palau, this program explores some of the richest and most varied communities of marine life in the world.

Feb. 17 (PBS) The Living Planet — "The Northern Forests" A journey through dense woodlands of the Northern Hemisphere. Dozens of species in the woodlands are explored, including the world's largest living organism — the mammoth California Redwood.

Feb. 19 (PBS) Nova — "The Shape of Things" This visually spectacular program examines nature's inventive patterns and explains their inevitability and efficiency.



E. R. Degginger

Feb. 21 (PBS) Wild America — "Wild Refuge" An exploration of America's wildlife refuges from Florida to Alaska.

Feb. 24 (PBS) Nature — "Osprey" (R) This program follows the osprey's progress from its hatching in the Scottish highlands through migration to Africa and its annual trip back to its Scottish breeding grounds.

Feb. 24 (PBS) The Living Planet — "Jungle" An astounding view of the wildlife in the steaming Ecuadorian jungle, including monkeys, parrots, sloths, snakes, the arrow-poison frog and even tree-dwelling cats.

Feb. 26 (PBS) Nova — "Baby Talk" Within the first four years of life, children learn to express themselves using adult words. This program examines the latest information on how children acquire language.

Feb. 27 (PBS) Survival Special — "The Last Round-up of the Elephants" Filmed entirely on location in Sri Lanka and India, this special focuses on the endangered Asian elephant and efforts to preserve it.

Feb. 27 (PBS) My Heart, Your Heart — Heart attack and heart disease are a health concern for one out of four American adults. Host Jim Lehrer, of the MacNeil/Lehrer Newshour, discusses his own heart attack, double bypass surgery and recovery.

Feb. 28 (PBS) Wild America — "Fishers in the Family, Part I" A look at the fisher, a slender, cat-sized member of the weasel family.

Books

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The AI Business: The Commercial Uses of Artificial Intelligence — Patrick H. Winston and Karen A. Prendergast, Eds. Papers from a colloquium held at MIT presented by experts in AI and financial specialists that explain what artificial intelligence is and how far the technology has moved out of the university research laboratories into business applications. Concentrates in four areas — expert systems, robotics, natural language and venture capital. MIT Pr, 1984, 324 p., illus., \$15.95.

Annual Review of Nuclear and Particle Science, Vol. 34 — J. D. Jackson, Ed. Fundamental physical principles of particle accelerators, gauge monopoles and how they emerge from the grand unified theories and hyperon beta decays are some of the topics covered in this volume. Annual Reviews, 1984, 592 p., charts & graphs, \$30.

Biophilia — Edward O. Wilson. Biophilia is here defined as the innate tendency to focus on life and lifelike processes. Wilson makes the case that to explore and affiliate with life is a deep and complicated process in mental development. The descriptions of nature are vivid and fascinating. Wilson's conclusion is "to the degree that we come to understand other organisms, we will place a greater value on them, and on ourselves." Harvard U Pr, 1984, 157 p., \$15.

The Encyclopedia of Mammals — David Macdonald, Ed. Magnificent color photographs and drawings illustrate this comprehensive coverage of the mammals. Recent research findings in biology are woven through the accounts of 4,000 or so species. The appendix includes a taxonomic listing of the mammals, a bibliography and a glossary. Facts on File, 1984, 925 p., color/b&w illus., \$45.

The Fragmented Forest: Island Biogeography Theory and the Preservation of Biotic Diversity — Larry D. Harris. Based on work done in the western Cascades, this book evaluates the use of island biogeography theory as a guide to comprehensive planning for the conservation of old-growth ecosystems in managed forestlands. U of Chicago Pr, 1984, 211 p., illus., \$25, paper, \$11.95.

Genetic Alchemy: The Social History of the Recombinant DNA Controversy — Sheldon Krinsky. Examines the many areas of controversy over the scientific use, development and application of gene-transplantation research. This study looks at how the risks and benefits were conceptualized through time and discusses the social and political events that influenced the controversy. Originally published in hardback in 1982. MIT Pr, 1985, 445 p., paper, \$8.95.

McGraw-Hill Dictionary of Chemistry — Sybil P. Parker, Editor in Chief. More than 9,000 entries concentrate on the terminology of both theoretical and applied chemistry. Includes many important biological terms and defines relevant terms from physics. McGraw, 1984, 665 p., \$32.50.