

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.

Feb. 2 (PBS) Nova — "Buried in Ice" Investigates the long-buried remains of members of the 19th-century Franklin expedition to the Arctic to discover why all members were lost.



Owen Beattie

Feb. 3 (PBS) Discover: The World of Science Travels to MIT's annual student design competition, looks at a machine that helps children "see" the shape of their words and explores vision in robotics.

Feb. 6 (PBS) Bodywatch — "Good Intentions: Bad Diets for Kids" Looks at the differences in nutritional needs of adults and children.

Feb. 6 (PBS) Wild America — "Beautiful Blues" Focuses on the color blue in both the plant and animal kingdoms and explains some of the reasons why it exists.

Feb. 7 (PBS) The Brain — "Stress and Emotion" Examines the characteristics of pain, anxiety and behavior as seen through two case histories.

Feb. 7 (PBS) Nature — "Leopard in the Grass" Travels to Africa's hot plains to view the experiences of an elusive female leopard.

Feb. 7, 14, 21, 28 (PBS) Newton's Apple Host Ira Flatow answers science questions for both viewers and studio audience on this weekly show.

Feb. 9 (PBS) Nova — "Why Planes Burn" Looks at the efforts to make airplane fires less likely and more survivable.

Feb. 10 (PBS) National Geographic Specials — "Australia's Twilight of the Dreamtime" Travels to a beautiful and remote corner of northern Australia, where aborigines live out the twilight of their culture.

Feb. 13 (PBS) Bodywatch — "Twin Reflections"(R) Examines the latest research on twins and the implications of twin research for the rest of the population.

Feb. 13 (PBS) Wild America — "Timberdoodles of Moosehorn" Follows the unusual life story of the woodcock.

Feb. 14 (PBS) The Brain — "Learning and Memory"(R) Looks at how brain organization, the synapse and the hippocampus help unravel the mysteries of memory.

Feb. 14 (PBS) Nature — "Hawaii: Islands of the Fire Goddess" Examines the evolution of a Hawaiian island, from underwater volcano to snow-capped mountain to coral atoll.

Feb. 16 (PBS) Nova — "In the Land of the Polar Bears"(R) Travels to Wrangel Island, 300 miles off the coast of Alaska, home of the world's largest maternity denning area for polar bears.

Feb. 20 (PBS) Bodywatch — "Daycare Dilemma" Discusses the pros and cons of alternatives to mother care, and what parents can do to minimize the hazards.

Feb. 20 (PBS) Wild America — "Minnesota Mink" Explores the many facets of the wild mink — graceful, feisty and pungent as a skunk.

Feb. 21 (PBS) The Brain — "The Two Brains"(R) Reveals information about the cortical hemispheres, the relation of thought and language, and sex differences in the human brain.

Feb. 21 (PBS) Nature — "Okavango: Jewel of the Kalahari" Explores how a vast body of water seeped into the Kalahari Desert millions of years ago.

Feb. 23 (PBS) Nova — "Battles in the War on Cancer: A Wonder Drug on Trial" Reports on the progress of interleukin-2, as the hope for a long-sought cancer breakthrough continues.

Feb. 27 (PBS) Bodywatch — "Hair Raising Experience"(R) Focuses on the causes of baldness in men and women and scrutinizes the claims of "miracle" hair-growing compounds.

Feb. 27 (PBS) Wild America — "Season of the Seals" Explores the various species of seals and sea lions on the Pacific Coast.

Feb. 28 (PBS) The Brain — "Madness"(R) Discusses one of the most dehumanizing brain diseases and what research has uncovered and has yet to accomplish.

Books

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Annual Review of Nuclear and Particle Science, Vol. 37 — J.D. Jackson, Ed. The topics in this volume range from a cosmic-ray experiment on very high-energy nuclear collisions to nuclear techniques for subsurface geology. Annual Reviews, 1987, 576 p., charts & graphs, \$34.

The Faculty Directory of Higher Education 1988: Volume 10, Science and Mathematics Faculty — Robert J. Elster, Ed. The 96,574 entries include names, departments, institutions and course titles for science and mathematics teaching faculty at 3,100 U.S. universities, two- and four-year colleges and 220 Canadian institutions. Gale, 1988, 1,010 p., \$150. (Complete set of 12 vols., which are classified by teaching discipline, \$785.)

In the Shadow of Fujisan: Japan and its Wildlife — Jo Stewart-Smith. This beautifully illustrated book, based on a natural history television series, examines Japanese attitudes toward wildlife and the natural world through art, history, religion, legends, present-day culture and conservation programs. From the large variety of plant and animal species on the Japanese archipelago, the author focuses on three animals — the Japanese macaque monkey, the red-crowned crane and the loggerhead sea turtle, along with the other creatures that share their habitat. Viking Pr, 208 p., color/b&w illus., \$29.95.

The Learning Mystique: A Critical Look at "Learning Disabilities" — Gerald Cole. A direct challenge to the idea that learning problems are biological in origin. Cole, a psychiatrist, argues that school failure cannot be separated from the learning environment and must be treated as the product of interaction between social and family relationships, individual behavior and different kinds of neurological function. Pantheon, 1987, 330 p., \$22.95.

Living Treasures: An Odyssey Through China's Extraordinary Nature Reserves — Tang Xiyang, forewords by Dong Zhiyong and S. Dillon Ripley. Many varieties of wildlife abound in China, with its five different climatic zones and varied landforms ranging from Mount Qomolangma, 29,028 feet above sea level, to Aiding Lake, 505 feet below sea level. More than 300 nature reserves have been established in China to protect its diverse plants and animals, its complex ecosystems and its unusual geological sites. This beautifully illustrated book is a fascinating account of journeys through a variety of these reserves and the flora and fauna and the scientists that the author encountered. Bantam, 1987, 196 p., color illus., \$29.95.

Machinery of the Mind: Inside the New Science of Artificial Intelligence — George Johnson. Traces for the general reader the history of artificial intelligence (AI). Discusses the major challenges of AI and the philosophies of the principal avenues of AI. Describes how a number of AI programs function. Touches on international competition in this field and the concern that the major funding for AI research comes from the U.S. Department of Defense. Originally published in hardback by Times Books in 1986. Microsoft, 1987, 336 p., paper, \$9.95.