

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.

Oct. 1 (PBS) Nova — "Farmers of the Sea" (R) Explores the status of aquaculture in such diverse locations as Japan, China, the United States and Scotland.

Oct. 1 (PBS) An Uncertain Harvest — An important analysis of the problems of agriculture in the United States, with emphasis on the potential of new scientific and organic methods to ensure an adequate yield.

Oct. 5 (PBS) Innovation — "Meat and Potatoes" Looks at new methods used in U.S. agriculture to produce more protein from fewer animals, and examines how to get the most nutrition from meat.

Oct. 7 (PBS) Quest For The Killers — "The Last Wild Virus" Follows the campaign to eliminate a particularly virulent strain of smallpox that erupted in Bangladesh after that nation's civil war.

Oct. 8 (PBS) Nova — "The National Science Test II" This all-new sequel to last year's science quiz show features the return of Edwin Newman to defend his championship title.

Oct. 9 (PBS) Smithsonian World — "Where None Has Gone Before" Profiles modern-day explorers who risk life and reputation to conquer new frontiers.

Oct. 12 (PBS) Innovation — "The Tastemakers" Innovation travels to the General Foods Research Lab, where scientists create foods with new tastes and textures, and artificially imitate ingredients found in "natural" foods.

Oct. 14 (PBS) The Brain — "The Enlightened Machine" (R) Models, micrographs, computer animation and people in action help demonstrate what the brain does, how it works and the mysteries of consciousness.

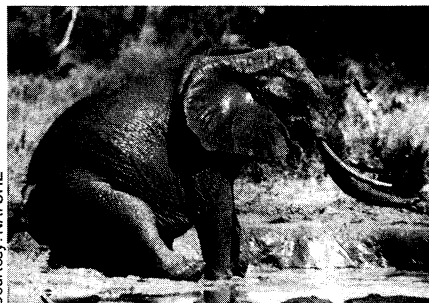
Oct. 15 (PBS) Nova — "Seeds of Tomorrow" Examines the aggressive agricultural technologies now being developed to create tougher crop strains.

Oct. 16 (PBS) Space Senator, One-Way Jake — Takes a look at the space frontier through the eyes of Sen. Jake Garn.

Oct. 19 (PBS) Newton's Apple — A fun, fast-paced weekly science series that answers viewers' questions with in-studio and on-location demonstrations. Saturdays.

Oct. 20 (PBS) Nuclear National Park (R) This documentary concerns the siting of the nation's first high-level nuclear waste repository adjacent to Canyonlands National Park in Utah.

Oct. 20 (PBS) Nature — "And Then the Rains Came" An examination of the hardships animals faced on Kenya's Tsavo plains during one of the worst droughts in memory.



Courtesy: NATURE

Oct. 21 (PBS) The Brain — "Vision and Movement" (R) With appearances by champion diver Greg Louganis and Nobel Prize winners David Hubel and Torsten Wiesel, this program explains how we perceive the world and move within it.

Oct. 22 (PBS) Nova — "What Einstein Never Knew" Probes the quest of many of the world's finest physicists to devise a grand theory of unification to explain the enigma of the universe.

Oct. 23 (PBS) Survival Special — "Battle of the Bison Forest" Tells the story of the bison and other animals that are protected in the forest preserve of Bialowieza in Poland.

Oct. 23 (PBS) Trash! — An investigation of trash, ranging from the history of society's coping with waste to the increasing scarcity of disposal sites to the potential uses of garbage for energy and raw materials extraction.

Oct. 27 (PBS) Nature — "Battle of the Leaves" An investigation of leaves and their natural defense mechanisms in three different climates: desert, temperate woodland and tropical forest.

Oct. 28 (PBS) The Brain — "Rhythms and Drives" (R) Vignettes from both the animal world and human society help illustrate instinctive, subconscious rhythms and drives, and the workings of the "primitive" brain.

Oct. 29 (PBS) Nova — "Technology at Work" Chronicles the progress and controversy surrounding the techniques of computer automation now sweeping American industry.

Books

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The Great Devonian Controversy: The Shaping of Scientific Knowledge among Gentlemanly Specialists — Martin J.S. Rudwick. The Devonian controversy began as a dispute about the identification and correct sequence of strata in Devonshire, England. It has now been forgotten because geologists use and take for granted the Devonian system. The controversy is important today because it was a good example of a scientific debate that resulted in a significant new piece of knowledge. Here this controversy is traced and analyzed in detail for those with little or no previous knowledge of geology or of the early 19th century. U of Chicago Pr, 1985, 494 p., illus., \$39.95.

Just Friends: The Role of Friendship in our Lives — Lillian B. Rubin. It is friends, the author says, who provide a reference outside the family against which to measure and judge ourselves, who help us during passages that require our individualism and separation from family and who heal the hurt and make good the deficits of other relationships in our lives. In these ways and more, friendship, as discussed here, assumes its place in the process of human development. Har-Row, 1985, 235 p., \$15.95.

The Natural History of the Primates — J.R. Napier and P.H. Napier. This beautifully illustrated book introduces the primates and describes their general characteristics and distribution. Reviews primate origins in the fossil record and discusses anatomical details and social behavior. Provides profiles of 57 representative nonhuman primate species. The final chapter focuses on human evolution. MIT Pr, 1985, 200 p., color/b&w illus., \$19.95.

Origins of Mental Illness: Temperament, Deviance and Disorder — Gordon Claridge. The theme of this book by a scholar from Oxford University is that psychiatric disorders are abnormal manifestations of temperamental and personality characteristics that all humans possess to a greater or lesser degree and that correlate with the ways in which individual central nervous systems vary. Examines abnormalities such as anxiety, depression, hysteria and schizophrenia. Basil Blackwell, 1985, 213 p., paper, \$9.95.

The Recursive Universe: Cosmic Complexity and the Limits of Scientific Knowledge — William Poundstone. The game of "Life" developed at Cambridge University in 1970 is based on three rules, with a simple beginning and no end. Poundstone uses this game to discuss the problems of knowledge, the discoveries of modern physics and the creation of life in the universe. Originally published in hardback by Morrow. Contemp Bks, 1985, 252 p., illus., paper, \$7.95.

The Story of the Earth — Peter Cattermole and Patrick Moore. Presents the complex history of the earth from its formation through the emergence of humans. Explains methods scientists use to discover what processes have contributed to the internal makeup and external appearance of the earth. Well illustrated throughout. Cambridge U Pr, 1985, 224 p., color/b&w illus., \$24.95.