

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.

Sept. 1 (PBS) Nova—“**Freud Under Analysis**” (R) Profiles the creator of psychoanalysis, who, more than 50 years after his death, is still the subject of intense debate.

Sept. 1 (PBS) One Village In China—“**To Taste a Hundred Herbs**” Provides insight into medical and religious practices in the Chinese village of Long Bow, where country healers use a mix of traditional Chinese medicine and Western medical practices.

Sept. 5 (PBS) Innovation—“**Animals in the Middle**” Visits Johns Hopkins University and examines alternatives to animal testing that draw on advances in computer programming, biotechnology and tissue culture.

Sept. 6 (PBS) Survival Specials—“**King Penguin: Stranded Beyond the Falklands**” (R) Features the courtship behaviors of the king penguin colonies on the subantarctic island of South Georgia during the Falkland War.

Sept. 7 (PBS) Only One Earth—“**The Road to Ruin**” Looks at the problems of Senegal, Mexico and Scotland, where development may be ruining the environment, and presents a sign of hope through conservation.

Sept. 8 (PBS) Nova—“**Confessions of a Weaponeer**” (R) Recounts the eventful career of Harvard chemist George Kistiakowsky, who was an atom bomb scientist and a presidential adviser in the Eisenhower White House.

Sept. 9 (PBS) National Geographic Special—“**Treasures from the Past**” (R) Profiles a group of inspired individuals who restore pieces of the past.

Sept. 10 (PBS) Wild America—“**Cutthroat**—**Part 3: Grizzly Creek**” (R) Continues to delve into the life cycle of the trout by going underwater to film its fascinating spawning ritual.

Sept. 12 (PBS) The Great Space Race—“**Payload in the Sky**” (R) Looks at the increasing commercial and military interests in space that have led countries all over the world to join in the “race for space.”

Sept. 12 (PBS) Innovation—“**Sweetness and Health**” Examines whether sugar is the dietary villain many people claim and looks at various sugar substitutes.

Sept. 14 (PBS) Only One Earth—“**The Sinking Ark**” Examines our dependence on the lifesaving drugs produced from nature and how that supply may be threatened.

Sept. 16 (PBS) Discover: The World of Science (R) Looks at the causes of avalanches and how scientists are learning to predict them, reports on aircraft simulators and traces the development of a test to determine whether a fetus is afflicted with cystic fibrosis.

Sept. 19 (PBS) The Great Space Race—“**Unlocking the Universe**” (R) Examines the theories of many experts on how our universe began, including the question of intelligent life elsewhere.

Sept. 19 (PBS) Innovation—“**Tides of Time**” Examines the current fight to save endangered coastlines and the long-term implications of the “greenhouse effect,” which threatens to slowly increase temperatures worldwide, causing a gradual swelling of the earth's oceans.

Sept. 20 (PBS) Nature—“**The Flowing Oasis**” Explores the Nevada desert, where a narrow ribbon of water that covers less than 1 percent of the land supports 70 percent of the wildlife.

Sept. 21 (PBS) The Health Century Depicts the triumphs and tragedies in the fight against infectious diseases and explores the processes by which medical discoveries are made.

Sept. 21 (PBS) Only One Earth—“**The Fate of the Forest**” Looks at forests in Czechoslovakia, Japan and Central America to show why their survival matters to the world.

Sept. 22 (PBS) Nova—“**The Rocky Road to Jupiter**” (R) Chronicles the ambitious and long-delayed Galileo mission to Jupiter.

Sept. 26 (PBS) The Great Space Race—“**The Earth Below**” (R) Tells how the technology that was created to go into space has revolutionized industries from computers to telephones.

Sept. 26 (PBS) Innovation—“**Putting Aside Pesticides**” Looks at alternatives in pest control, such as the use of natural predators and the development of plant strains that produce their own toxins.

Sept. 27 (PBS) Nature—“**Amazonia: A Burning Question**” Looks at one World Wildlife Fund project that is determining the minimum critical size of forest area needed in the Amazon to protect the various forms of wildlife.

Books

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The Cave of Lascaux: The Final Photographs—Mario Ruspoli, translated from the French by Sebastian Wormell. As the glaciers made their last advance and retreat 17,000 years ago, prehistoric artists painted in this cave in the Dordogne region of France. The cave, with its spectacular animal paintings, was discovered in 1940 and sealed in 1963 because of the deterioration of the paintings. In 1981 Ruspoli, under strict precautions, began a three-year project to film and photograph Lascaux before it was once again sealed. The images are beautifully reproduced in this book. The text tells the story of what is known about the sanctuary of Lascaux and looks at the prehistoric tribe that frequented it. Examines the variations in climate, pollen and the surrounding vegetation and fauna, the way of life of this tribe, their religion, their techniques of hunting and fishing and the development of their art. The process of recording the cave paintings on film is described, and the content and the meaning of the paintings are discussed. Abrams, 1987, 208 p., color/b&w illus., \$45.

Drugs and the Brain—Solomon H. Snyder. An outstanding scientist in the field tells what is presently known about the major psychoactive drugs and how they act upon the brain to influence behavior. Describes how scientists have used drugs as probes that yield exciting insights into brain functions. Discusses the diverse processes that contribute to drug discovery. Sci Am Bks(W H Freeman), 1987, 228 p., color/b&w illus., \$32.95.

Flyby: The Interplanetary Odyssey of Voyager 2—Joel Davis. Follows Voyager 2, originally designed to operate for five years, from its launch in 1977 and its encounters with Jupiter and Saturn and on to its flyby of Uranus, a planet never before visited by a space probe. In January 1986, at the time of the Challenger disaster, Voyager 2 began beaming back from some 2 billion miles spectacular images of Uranus. The space probe is now headed for a rendezvous with Neptune in 1989. This book tells the story of Voyager 2's historic journey so far and of the team who shepherded the spacecraft, relating the near-disasters and the great achievements of Voyager 2. Atheneum, 1987, 237 p., illus., \$19.95.

Meditations at Sunset: A Scientist Looks at the Sky—James Trefil. The laws of nature that scientists discover at great effort in their laboratories can be seen, according to the author, working all around us in the natural world. He goes on to say that the number of laws needed to describe the physical world is small; therefore, all the billions of natural phenomena we encounter every day are comprehensible using only a few natural laws. This book explores the atmosphere and explains for the general reader many of the objects and phenomena we see in the atmosphere. Scribner, 1987, 208 p., illus., \$16.95.

Meteorites: And Their Parent Planets—Harry Y. McSween Jr. This introduction to the study of meteorites attempts to trace meteorites back to their parent bodies, the site of geological processes. Each chapter describing related types of meteorites is followed by a chapter on their origin or parent bodies. Cambridge U Pr, 1987, 237 p., illus., \$24.95.