

## 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.

### Television Specials

- Oct. 3 (PBS) "The Navigators" Follow the path of the ancient Polynesian mariners who discovered Hawaii, Tahiti and New Zealand without charts, sextants or compasses.
- Oct. 4 (PBS) NOVA — "Animal Imposters" (R) Mimicry and camouflage in nature.
- Oct. 4 (PBS) "River of Innocence" Evolution in and around the San Marcos River in central Texas.
- Oct. 6 (PBS) "Diagnosis: AIDS" The latest information and research on this fatal disease and its impact on the gay community.
- Oct. 9 (PBS) Nature — "Forest in the Sea" Kelp forest off the California coast.
- Oct. 11 (PBS) NOVA — "Signs of the Apes, Songs of the Whales" The latest in animal communication.
- Oct. 13 (PBS) Wild America — "Animal Oddities" Unusual prehistoric animals and curious contemporary creatures.
- Oct. 16 (PBS) Bradshaw on the Eight Stages of Man (Educator John Bradshaw draws from the teachings of Erickson, Piaget, Maslow and Jung and offers advice on how to cope with life's crises.) "Cradle Hypnosis" The nature of hypnosis.
- Oct. 16 (PBS) Nature — "Fungi: The Rotten World About Us" In-depth look at these essential agents of decay.
- Oct. 18 (PBS) NOVA — "Artificial

Heart" The continuing controversy about research on artificial hearts.

- Oct. 20 (PBS) The New Tech Times (Nicholas Johnson, former FCC Commissioner, looks at the technology explosion.) "How to Buy Your First Computer" Looks at what computers can teach you, and the business of illegal copying.
- Oct. 20 (PBS) Wild America — "Born to Run" Graceful North American running animals.
- Oct. 23 (PBS) Bradshaw on ESM — "Who Do You Trust?" How trust develops between parent and child.
- Oct. 23 (PBS) Nature — "Acacia: Tree of Thorns" An umbrella-like tree that is a haven of life in Africa.
- Oct. 25 (PBS) NOVA — "Talking Turtles" Computers and children.
- Oct. 27 (PBS) Tech Times — "Bye-bye Ma Bell" The break-up of AT&T, and the computer in business.
- Oct. 27 (PBS) Wild America — "Owls: Lords of Darkness" A rare film of these nocturnal hunters.
- Oct. 30 (PBS) Bradshaw on ESM — "Guilty or Not Guilty?" When a lifelong sense of guilt is most likely to develop in a child.
- Oct. 30 (PBS) Nature — "Kopje: A Rock for All Seasons" Outcroppings of bedrock on Africa's Serengeti Plain.
- Oct. 31 (PBS) The Making of a Continent (Chronicles the geologic formation of the spectacular scenery in the American West.) "The Colorado Plateau" How this land was formed, life on the plateau, and present-day formations there.

Programs listed here are regularly scheduled features that are offered in many parts of the United States and Canada. Check your local listing for times and dates.

- Lorne Greene's New Wilderness (Independent Network), weekly. Travel the world of the wilderness and meet inhabitants of the wild such as the grizzly, the orangutan, the wild cheetah, arctic penguins and a battalion of army ants.
- Newton's Apple (PBS), weekly. Family science series hosted by National Public Radio science editor Ira Flatow. In-studio demonstrations on topics such as: medical uses for fiber optics, voiceprinting, the physics of a curve ball and training for the space shuttle mission.
- 3-2-1 Contact (PBS), daily. A magazine series that brings to life concepts in science and technology for the 8- to 12-year-old; visits scientists on the job and

tells the story of contemporary scientists with emphasis on what childhood factors led them to science. Captioned for the hearing impaired.



Nobel prize winner James Watson discusses DNA on 3-2-1 Contact.

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## Books

Books is an editorial service for readers' information. To order any book listed or any U.S. book in print please remit retail price, plus \$1.00 handling charge for each book, to Book Order Service, Science News, 1719 N Street, N.W., Washington, D.C. 20036. All books sent postpaid. Domestic orders only.

**Animals as Navigators** — E. W. Anderson. A comprehensive survey of what is known about animal navigation. Discusses the senses employed by animals and the methods they use in their search for subsistence and for mating. Illustrates the interface between human and animal navigational skills. Van Nos Reinhold, 1983, 207 p., illus., \$19.50.

**Critique of Scientific Reason** — Kurt Hübner, translated by Paul R. Dixon, Jr. and Hollis M. Dixon. A systematic critique of the idea "that truth and knowledge in the proper sense exist only in science." Hübner's solution is to place science as a special case within the larger and more general sphere of human cognition. He examines the status of artistic, spiritual, religious and moral experience and concludes that mythic thought has as much claim to rationality as has science. Originally published in German in 1978. U of Chicago Pr, 1983, 283 p., \$27.50.

**The Diversity of Crop Plants** — J. G. Hawkes. Examines the ways in which cultivated plants have evolved and diversified, the importance of this diversity and the means by which it can be protected and made available to breeders throughout the world. Harvard U Pr, 1983, 184 p., illus., \$20.

**Powers of Ten: A Book about the Relative Size of Things in the Universe and the Effect of Adding Another Zero** — Philip and Phylis Morrison and the Office of Charles and Ray Eames. An adventure in magnitudes, an excursion across the universe from its largest known dimension (10<sup>25</sup> meters) to its smallest (10<sup>-16</sup> meters). Based on the film *Powers of Ten*, the book uses color illustrations in its journey through the 42 orders of magnitude linking galaxies, the solar system, earth, lakes, humans, fingerprints, atoms and quarks. Scientific American Bks (W H Freeman), 1983, 164 p., color/b&w illus., \$29.95.

**Stress, Coping, and Development in Children** — Norman Garnezy and Michael Rutter, Eds. Experts in the field explore the effects of stress on children. Some of the topics examined in detail are the nature of neurochemical systems and how they respond to stress, significant stressors at various age levels, anti-social behavior in children at risk and divorce as the antecedent for a variety of children's ills. McGraw, 1983, 356 p., \$24.95.

**Taming the Tiger: The Struggle to Control Technology** — Witold Rybczynski. Shows, through fascinating historical examples, that the shock of the machine is not a new phenomenon and that in the past as in the present individuals and even entire nations have resisted technology. The author goes on to offer a perspective on technology as an aspect of our total environment and indicates that the issue is not control of machines but control of ourselves. Viking Pr, 1983, 247 p., \$15.95.

**Your First Personal Computer: How to Buy and Use It** — Charlie Buffington. For someone with little or no familiarity with computers this book is designed to help get acquainted with the language of the computer world, to provide information for making wise buying decisions and to aid in the integration of the computer into everyday life. McGraw, 1983, 326 p., illus., paper, \$8.95.