Science on the Air

Check your local listings for exact times and dates. (R) indicates a repeat broadcast.

Apr. 1 (PBS) Bodywatch — "The Gap Between the Sexes" Tells why the human brain is the most important sex organ in the body.

Apr. 2 (PBS) Nature — "Tiger!" (R) Travels to India to document a mother tiger raising three cubs in the wild.

Apr. 4 (PBS) Nova — "Do Scientists Cheat?" (R) Asks how widespread fraud is in scientific research.

Apr. 5 (PBS) Caring for Tomorrow's Children Examines infant mortality in the United States and traces the history of the government's interest in child health care.

Apr. 5 (PBS) America in the Age of AIDS Focuses on the community of Fort Wayne, Ind., examining how life in this town has been changed by AIDS.

Apr. 6 (PBS) Science Journal Provides timely news on the week's events in science, medicine and technology. Thursdays.

Apr. 6 (PBS) The Sexual Brain (R) Investigates scientific evidence that the brains of male and female mammals are different anatomically, chemically and functionally.

Apr. 8 (PBS) Bodywatch — "The Eyes Have It" Overturns outdated notions about sight.

Apr. 9 (PBS) Innovation — "Getting the Lead Out" Examines the lead content of drinking water and ceramic wares.

Apr. 9 (PBS) Nature — "Elephant: Lord of the Jungle" (R) Looks at the behavior of the Asian elephant.

Apr. 11 (PBS) Nova — "Is Anybody Out There?" (R) Examines the major scientific work in progress to look for intelligent life in space.

Apr. 12 (PBS) National Geographic Special — "Serengeti Diary" Reveals Tanzania's Serengeti National Park through the eyes of wildlife photographer Baron Hugo van Lawick.

Apr. 13 (PBS) The Addicted Brain (R) Tours the most prolific manufacturer and user of drugs in existence, the human brain.

Apr. 15 (PBS) Bodywatch — "Ten Most Asked Questions About Fat" Answers questions presented by viewers.

Apr. 16 (PBS) Innovation — "Beat the Clock" Looks at the medical evidence for the "biological clock" and how it explains jet lag.

Apr. 16 (PBS) Nature — "Islands in the Sky" Examines Venezuelan tepuyes, plateau-topped mountains shrouded in mist and legend.

Apr. 18 (PBS) Nova — "Can the Vatican Save the Sistine Chapel?" (R) Observes the science of art restoration, focusing on the controversy surrounding the restoration of the Sistine Chapel.

Apr. 22 (PBS) Bodywatch — "Eating for Fitness" (R) Top athletes discuss their diets and dispel some myths.

Apr. 23 (PBS) Innovation — "One Step at a Time" Reports on the work of the Miami Project, a research program dedicated to reversing paralysis.

Apr. 23 (PBS) Nature — "The Coral Triangle" (R) Looks at humans' destructive influence on a coral reef located in the Malay Triangle in the Philippines.

Apr. 24 (PBS) Adventure — "Pacific Journey: Adventures of a Musical Mariner" Composer David Fanshawe takes viewers to the islands of the Pacific in search of the region's traditional music.

Apr. 25 (PBS) The AIDS Quarterly Focuses on the medical aspects of the epidemic.

Apr. 25 (PBS) Nova — "Can We Make a Better Doctor?" (R) Tracks eight students through the first year of Harvard Medical School.

Apr. 26 (PBS) Survival Special — "Together They Stand" (R) Illustrates the dwarf mongoose's family system.

Apr. 27 (PBS) Digging Dinosaurs (R) Shows how dinosaur remains are found and looks at new theories about how dinosaurs lived and why they became extinct.

Apr. 29 (PBS) Bodywatch — "The New Sensible Workout" (R) Shows viewers how to calculate daily calorie expenditures and surveys the latest hazard-free forms of exercise.

Apr. 30 (PBS) Innovation — "What Makes Us Tick" Explores research suggesting a genetic basis for traits such as shyness and aggression.

Apr. 30 (PBS) Nature — "Rulers of the Wind" Looks at humans' special relationship with eagles, falcons and hawks.

Books

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Apocalypse When? Cosmic Catastrophe and the Fate of the Universe — Frank Close. This distinguished physicist and science writer ponders the nature of the universe and the myriad ways that life on Earth could cease to exist. He explores the probability of crushing asteroids or comets wiping out population centers and possibly igniting nuclear power plants; burnout of Earth's lifegiver — the sun; the stability of our own universe, and whether there are other universes out there to rival our own; the existence of "strange matter" and how its makeup would affect ours. Close speculates on how we would build a world in space or colonize another planet. Morrow, 1989, 242 p., illus., hardcover, $17.95.

Genethics: The Clash Between the New Genetics and Human Values — David Suzuki and Peter Knudtson. An introduction to the underlying biological principles of the new genetics and a search for unifying ethical themes to deal with questions prompted by this explosion of knowledge. Written by a scientist and a science writer, for the general reader and scientist alike. The authors present case studies demonstrating different ethical dilemmas and offer moral guidelines that are imaginative, humane and scientifically sound. The case studies involve areas such as gene therapy, genetic screening, biological weapons, genetic diversity and genetic mapping. At the end of the book is a glossary of technical terms and suggested futher reading. Harvard U Pr, 1989, 384 p., illus., hardcover, $25.00.

The Music Machine — Curtis Roads, Ed. This composer, producer and writer combines 54 technical articles, many of which appeared in *Computer Music Journal* from 1980-1985, on the art, science and technology of computer music. The eight parts of the book cover interviews with prominent figures in the field, composition techniques, MIDI (Musical Instrument Digital Interface), music software, synthesis and signal processing, signal processing hardware and the musical applications of artificial intelligence. Each part is preceded by an overview placing the research in perspective and explaining basic concepts for beginners. MIT Pr, 1989, 725 p., charts & graphs, hardcover, $45.00.

Pathways to the Universe — Francis Graham-Smith and Bernard Lovell. A beautifully illustrated introduction to astronomy that begins at the level of common experience and develops to explore the frontiers of modern research. Written by two distinguished astronomers who, after more than 40 years of study, are still fascinated with the sky. Their enthusiasm helps readers find their way around the sky with binoculars, a telescope or the naked eye, and conveys what the latest planetary research says about the objects we can see and some that we can't. Cambridge U Pr, 1988, 239 p., color/b&w illus., hardcover, $24.95.