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1988 Directory of Student Science Training Programs for High Ability Precollege Students

The Directory lists institutions in the United States that will be conducting student science training programs in the summer of 1988 and the academic year 1988-89. The 507 programs listed are of three general types: research, courses, or combination research and courses. Residential and commuter programs are offered; some charge for participation, some do not. Scholarships are available for many.

These programs are designed to provide talented precollege (mostly high school) students with educational opportunities in science, engineering and mathematics beyond those normally available in courses or laboratory work in the students' schools.

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Publication of the Directory is supported in part by a grant from the National Science Foundation.

Science Service, 1988, 48 pages 11" x 8 1/2", paperback, \$1.00

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The Environment of Life — Colin Tudge, Ed. Human evolution has now reached a point, says the introduction, when we can and should frame a totally new relationship with the planet's flora and fauna. This beautifully illustrated book describes how scientists are investigating the behavior of animals in order to determine the evolutionary significance of what they do and why. Explores the ways in which humans exploit nature through agriculture, forestry and fishing. Looks specifically at conservation and shows how we might put into practice a more enlightened attitude toward nature. Oxford U Pr, 1987, 254 p., color illus., \$35.

The Facts on File Dictionary of Geology and Geophysics — Dorothy Farris Lapidus. A reference to the basic vocabulary of geology and geophysics. Contains more than 3,000 entries defining for the general reader and student a wide range of geological phenomena. Extensively cross-referenced. Facts on File, 1987, 347 p., illus., \$24.95.

Insects: Their Biology and Cultural History — Bernhard Klausnitzer. With magnificent color and black-and-white photographs and many drawings this book covers for the general reader the history and the current state of our scientific knowledge of the insect world. Universe, 1987, 237 p., color/b&w illus., \$40.

Mind Tools: The Five Levels of Mathematical Reality — Rudy Rucker. Explains how and why mathematics has evolved five modes — number, space, logic, infinity and information — and then relates these five modes to what Rucker considers the five basic psychological activities: perception, emotion, thought, intuition and communication. Goes on to use information theory to discuss in separate chapters numbers, space, logic and infinity. Originally published in hardback in 1987. HM, 1988, 328 p., illus., paper, \$9.95.

Playing God in Yellowstone: The Destruction of America's First National Park — Alston Chase. Yellowstone Park, the author feels, is being destroyed by the National Park Service, the agency assigned to protect it. Tells how Park Service policies are ruining Yellowstone. Explores how our natural heritage is being devastated because conservationists are, Chase believes, pursuing goals that are based on confusion about the role of humans in nature. In an epilogue, new to this paperback edition, the author examines some alternatives to current Park Service policy. Originally published in hardback by Atlantic Monthly Press in 1986. HarbraceJ, 1987, 464 p., paper, \$10.95.

Setting Limits: Medical Goals in an Aging Society — Daniel Callahan. The director of the Hastings Center presents the goals he feels that medicine should strive for in our rapidly aging society, where limited biomedical resources are causing problems in the health-care system. Discusses controversial questions such as the determination of "natural" life span, rationing of health care among generations and the responsibility for caring for the aged. S&S, 1987, 256 p., \$18.95.