

and nonferrous metals, with paint-bond treatments and/or coatings, and describes final processing techniques.

**REGIONAL DIFFERENCES IN JUNIOR COLLEGES**—James M. Richards, Jr., Leonard P. and Lorraine M. Rand—R&D Div., Am. College Testing Program, 17 p., paper, single copies free upon request direct to publisher, P.O. Box 168, Iowa City, Iowa 52240. Examines the geographical distributions of various junior college characteristics.

**THE ROLE OF THE FEDERAL COUNCIL FOR SCIENCE AND TECHNOLOGY**: Report for 1963 and 1964—Office of Science and Technology, Donald F. Hornig, Dir.—Executive Office of the President, 53 p., paper, single copies free upon request direct to Office of Science & Technology, Executive Building, Washington, D.C. Reviews specific activities of the Council and its committees, and the general setting in which the Council works.

**SCIENTIFIC AND ENGINEERING MANPOWER IN COMMUNIST CHINA, 1949-1963**—Chu-yuan Cheng—National Science Foundation (GPO), 588 p., map, paper, \$2. Brings together and analyzes all available materials on mainland China's scientific planning, training programs, quality and quantity, employment and utilization of scientists and engineers, and other related data. See story, p. 91.

**THE SOCIAL SCIENCES AND THE POLICIES OF GOVERNMENTS**—Lucien Massart, Chmn.—O.E.C.D. (McGraw), 102 p., paper, \$1.50. Prepared for the 1966 Ministerial Meeting on Science in Paris, this report focuses on the relations between governmental science policies and the social sciences as instruments of research needed to determine and predict the human, social and economic effects of such policies.

**TELEVISION IN THE LIVES OF OUR CHILDREN**—Wilbur Schramm, Jack Lyle and Edwin B. Parker—Stanford Univ. Press, 324 p., paper, \$2.95. Reprint (1961).

**TRANSFORMATIONS**: Change from Learning to Growth—W. R. Bion—Basic Bks., 183 p., \$4.50. Develops the author's theory of psychoanalysis.

**THE WARRIOR APACHES**: A Story of the Chiricahua and Western Apache—Gordon C. Baldwin—Dale Stuart King (Ariz.), 144 p., illus. by C. Randolph McKusick, photographs, maps, \$3.50; paper, \$1.95. Narrative account of the history, tribal life, customs and crafts of two groups of Apache Indians, for young people.

• Science News Letter, 89:92 February 5, 1966

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# Nature Note

## Crayfish

➤ **CRAYFISH**, lobsters, shrimp and crabs are relations in the class Crustacea, all bearing two pairs of antennae and at least five pairs of legs. The head and thorax of these marine animals are fused into one piece, called the cephalothorax, and form a protective sheath over the animal. This sheath, or crust, suggested the class name Crustacea.

Crayfish are abundant in streams and freshwater ponds of all the continents, wherever there is a sufficient amount of calcium carbonate in the water. Some live in rapidly flowing streams and others of these creatures, also called crawfish, live in stagnant ponds or in wet meadows and marshes.

These beady-eyed creatures lurk patiently under flattish stones, with just their heads protruding from their hiding places. Two pairs of waving antennae, one pair short, the other long and slender, keep tabs on passing visitors, and when a small fish or other tasty creature passes within reach, the crayfish grabs it with his pincer claws.

When its watery world is calm and quiet, the crayfish crawls forward around the bottom slowly and jerkily. But if disturbed, it shoots backward rapidly by contracting its abdominal muscles and folding its tail fin underneath its body. It is to this swift ability to retreat that a person refers when he says someone has "crawfished" out of an undertaking.

• Science News Letter, 89:93 February 5, 1966

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