

space shuttle because he believes that to be economical, it would require an expanded space program.

Finally, McGovern says he would increase funding for basic research, reinstating funds and programs cut off by the Nixon Administration. It is true that basic research, particularly in physics, has not fared well under the Nixon Administration. R&D expenditures have been steadily declining in relation to gross national product and the Federal Government has been sponsoring a declining share of the research. The Administration budget for fiscal 1973 provides for a nine percent increase for Federal R&D with most going to defense and to applied research.

Physics research has been particularly hard hit. The recent study of the National Academy of Sciences' Physics Survey Committee reports that Federal support since 1967 has dropped by eight percent in terms of purchasing power. Over the same period, the cost of conducting physics experiments has risen about 25 percent. Palevsky notes that Brookhaven has had to let go some 500 employees over the past two years because of insufficient funds. The percent of Federal funds devoted to science has been falling since Nixon took over, he says. "Science is slowly dying in this country." The focus for physics research, an area the United States has dominated since World War II, has moved to Europe, says Palevsky.

Part of the problem has been Nixon's very emphasis on relevant science. "He's always looking for the payoff"—an immediate application for the results of research. Palevsky points out that these practical results cannot always be foreseen, or may be far in the future.

In spite of these concerns, they do not seem to be the overriding factors in a scientist's decision of whom to support for President. Palevsky says the main reason that the scientists he knows are supporting McGovern is opposition to the Vietnam war. "Thinking people in general are concerned about the terrible thing we're doing in Vietnam."

Ultimately, though many scientists choose between the candidates on the basis of what they'll do for science, it seems that many of them will vote for one candidate or the other for reasons that are, fundamentally, political. □



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**CONTROL MECHANISMS AND PROTEIN SYNTHESIS**—S. D. Wainwright—Columbia Univ. Press, 1972, 550 p., illus., \$20. Thorough inventory of current research on the regulation of protein synthesis, the mechanism that switches on or off the synthesis of a large variety of enzymes and structural proteins, enabling the differentiation of cells to form highly specialized tissues.

**COSMETICS: Science and Technology**, Vols. 1 and 2—M. S. Balsam and Edward Sagarin, Eds.—Wiley-Interscience, 1972, 2nd ed., 605 p., 691 p., illus., tables, \$27.50 each; \$47.50 for set. Volume 1 deals with skin creams and lotions, suntan preparations, face powders, rouge, lipsticks, dentifrices and mouthwashes. Volume 2, with shaving preparations, shampoos, hair-grooming preparations, deodorants, aerosol cosmetics, nail preparations, eye lotions and fragrances.

**DEVELOPMENTS IN OPERATIONS RESEARCH**, Vols. 1 and 2—Benjamin Avitzhak and others, Eds.—Gordon & Breach, 1971, 622 p., diagrams, tables, \$35. Selected contributions to Third Annual Israel Conference held in Tel-Aviv in cooperation with the Operations Research Society of America. Emphasis is on specific applications of OR methods.

**A DICTIONARY OF NAMED EFFECTS AND LAWS IN CHEMISTRY, PHYSICS AND MATHEMATICS**—D. W. G. Ballantyne and D. R. Lovett—Chapman (Barnes & Noble), 1972, 3rd ed., 335 p., illus., paper, \$6. Reference volume defines effects, laws, units and terms in modern and nuclear physics, as well as certain phenomena named after workers in the fields of chemistry, physics and mathematics.

**DRUG METABOLISM IN MAN**—Elliot S. Vesell, Ed.—N.Y. Acad. of Sciences, Annals Vol. 179, 1971, 773 p., illus., paper, \$35. Conference papers on factors affecting drug metabolism in man, studies of the metabolism of certain drugs, and genetic aspects of drug metabolism in man.

**EATER'S DIGEST: The Consumer's Factbook of Food Additives**—Michael F. Jacobson, foreword by Jean Mayer—Doubleday, 1972, 260 p., tables, \$5.95; paper, \$1.95. Provides authoritative guidelines, states the options, weighs the benefits, costs and risks of additives in our food, singling out the most widespread, the most useful and the most questionable.

**ESTROGEN TARGET TISSUES AND NEOPLASIA**—Thomas L. Dao, Ed.—U. of Chicago Press, 1972, 369 p., diagrams, \$22.50. Reports most recent findings on the effects of estrogen on target cells, and treats the biochemical evidence for chemical transformation of various steroid hormones by mammary cancer tissues.

**EXPLORING THE MEDICAL MALPRACTICE DILEMMA: National Medical Malpractice Seminar**—Cyril H. Wecht, M.D.,

Ed.—Futura Pub. Co., 1972, 234 p., \$15.95. Conference proceedings and relevant papers on such topics as legal implications of medical emergencies, professional negligence in hospitals, medico-legal aspects of adverse drug reactions, evaluation of malpractice cases, pre-trial discovery, and the defendant doctor as expert witness.

**THE HIGH SIERRA: The American Wilderness**—Ezra Bowen and Eds. of Time-Life Books—Time-Life Bks., 1972, 184 p., color plates, 125 illus., map, \$7.95. Narrative tells of the history and geology of the region, its vegetation, climatic zones, its wildlife and preservation.

**HISTORY OF BIOLOGY**—Eldon J. Gardner—Burgess Pub. Co., 1972, 3rd ed., 464 p., photographs, drawings, \$9.95. Presents the major landmarks, themes and concepts in the history of biology, the methods employed, the main accomplishments, and the individuals responsible for major contributions.

**THE INORGANIC CHEMISTRY OF THE NON-METALS**—John Emsley—Methuen (Barnes & Noble), 1972, 60 p., diagrams, paper, \$2.75. Using covalent bonding as the unifying theme, the book discusses covalent bond in terms of length, energy and electron distribution within the bond. Separate chapters deal with individual non-metals.

**LANGUAGE DEVELOPMENT: The Key to Learning**—Morris Val Jones, Ed., foreword by Anthony W. Guidon—Thomas, C. C., 1972, 319 p., illus., \$11.75. Places emphasis on the skills of the emerging profession of the language developmentalist, a trained clinician who must combine the abilities of a teacher, psychologist, speech therapist and language arts specialist.

**MAGNETIC RESONANCE**—K. A. McLauchlan—Clarendon Press, 1972, 105 p., illus., paper, \$3.95. Short text embodies the principles and major applications of both electron spin resonance (e.s.r.) and nuclear magnetic resonance (n.m.r.), and shows their interrelations.

**MEN AND MOLECULES**—Norman Metzger, introd. by Isaac Asimov—Crown Pubs., 1972, 246 p., photographs, \$5.95. Based on the American Chemical Society's radio series, the book presents the wide scope of chemical research today, while attempting to give the layman a basic understanding of the interaction and transformations of atoms and molecules.

**THE NATURAL WAY TO PEST-FREE GARDENING**—Jack Kramer—Scribner, 1972, 118 p., photographs, drawings, \$6.95; paper, \$3.95. Presents basic knowledge on nature's compost system and how plants feed, discusses soil and natural mulches, plant pests, the role of specific insects and birds, natural protective measures for lawns, flower gardens and evergreens.

**ORGANIC SELENIUM AND TELLURIUM CHEMISTRY**—Yoshiyuki Okamoto and Wolfgang H. Gunther, Eds.—N.Y. Acad. of Sciences, Annals, Vol. 192, 226 p., diagrams, paper, \$21. Papers deal with the synthesis and properties of organic selenium and tellurium compounds, their characterization, physical properties, and biological aspects.

**RNA SYNTHESIS: Selected Papers in Biochemistry**, Vol. 5—Tadanori Kameyama, Ed.—Univ. Park Press, 1972, 327 p., diagrams, \$12.50. Papers are limited to studies on the genetic transcription from DNA to RNA, the first step in the expression of genetic information and its regulation.

**TRANSFER RNA: Selected Papers in Biochemistry**, Vol. 6—Kin-ichiro Miura, Ed.—Univ. Park Press, 1972, 220 p., photographs, diagrams, \$12.50. Collection of seminal papers, topics range from soluble ribonucleic acid intermediate in protein synthesis, to total synthesis of the gene for an alanine tRNA from yeast.

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