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Cover: Cloud seeding can do more than produce rain. Researchers have found that by seeding thunderstorms with silver iodide or aluminumized nylon fibers they can reduce the amount—or change the nature—of lightning. See p. 317. (Photo: Henry Lansford/NCAR)

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books OF THE WEEK

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THE NEW OUTLINE OF SCIENCE—David Dietz—Dodd, 1972, 495 p., photographs, diagrams, \$17.50. Intended to give the layman an organized overview of modern science, starting with celestial tour of the universe and its theories, followed by discussion of earth, atom, and ending with the chemical nature of life and its origin.

NEW PATHWAYS IN PSYCHOLOGY: Maslow and the Post-Freudian Revolution—Colin Wilson—Taplinger, 1972, 288 p., \$7.95. Examines the life and work of the pioneering American psychologist, surveying in the process the history of psychology.

THE ORIGIN OF THE CHEMICAL ELEMENTS—R. J. Taylor—Springer-Verlag N.Y., 1972, 170 p., illus., paper, \$6.50. Undergraduate treatment of element abundances in the solar system and in cosmic rays, chemical composition of sun and stars, theoretical background, evolution of cosmological element production in universe and galaxies, and radioactive chronologies.

THE ORIGINS OF LIFE—Cyril Ponnamperna—Dutton, 1972, 215 p., photographs, diagrams, \$7.95. Relates in scientific terms the sequence of events in the universe which culminated in the appearance of life, the chemical transition from the nonliving to the living, synthesis of small molecules, polymers, protocells, the particular fitness of carbon, and other evidence.

THE PATIENTS—Jurgen Thorwald, transl. by Richard and Clara Winston—Harbrace, 1972, 434 p., photographs, \$10. Accurately researched and sensitively told stories of the men, women and children who submitted to pioneering operations on failing organs.

PERSONALITY CHANGES IN AGING: A Longitudinal Study of Community Residents—Joseph H. and Jean O. Britton—Springer Pub., 1972, 222 p., tables, \$8.50. Presents the results of a nine-year inquiry into how advancing years affect the ordinary citizen's ability to cope, seeking to identify some of the social-psychological correlates of survival.

SCIENTISTS IN THE QUEST FOR PEACE: A History of the Pugwash Conferences—J. Rotblat—MIT Press, 1972, 399 p., \$12.50. Outlines the organization and documents the 21 conferences in which an international community of scientists has attempted to tackle the problems of peace and world security.

THE SOCIAL CONTEXTS OF RESEARCH—Saad Z. Nagi and Ronald G. Corwin, Eds.—Wiley, 1972, 409 p., \$13.50. Comprehensive analysis of research as a social institution,

the constraints on research, and other aspects of the social environment in which research is conducted.

STUDY ABROAD: International Scholarships and Courses, 1972-1973, 1973-1974—UNESCO (Unipub, N.Y.), 1972, 19th ed., 644 p., paper, \$6. Directory to study opportunities, at university level, throughout the world.

A SUPPLEMENT TO THE OXFORD ENGLISH DICTIONARY, (Vol. I, A-G)—R. W. Burchfield, Ed.—Oxford U. Press, 1972, 1331 p., \$50. Major lexicographical work, first of three volumes to replace 1933 Supplement. Contains some 18,000 main word entries and 130,000 illustrative quotations representing the newer scientific disciplines and the vocabulary of great writers.

THE TREE WHERE MAN WAS BORN: The African Experience—Peter Matthiessen and Eliot Porter—Dutton, 1972, 247 p., color photographs by E. Porter, map, \$17.50. Two naturalists, masters of word and camera, evoke the essence of place, people and wildlife that is Africa, from the upper Nile in the Sudan, through Tanzania, to Lake Rudolf on the Kenyan border.

WILD RIVER—Laurence Pringle—Lippincott, 1972, 128 p., color photographs by author, \$15; till 1/2/72, \$12.95. Scenically beautiful book, tells of the intricate ecological relationships along swiftly flowing streams, unpolluted and undammed.

WORDS FOR BIRDS: A Lexicon of North American Birds with Biographical Notes—Edward S. Gruson—Quadrangle Bks., 1972, 305 p., 238 illus., \$8.95. Provides etymology of some 800 birds of America north of the Rio Grande, and gives the translation and origins of their scientific names.

WORLD DIRECTORY OF COLLECTIONS OF CULTURES OF MICROORGANISMS—S. M. Martin and V. B. D. Skerman, Eds.—Wiley, 1972, 560 p., \$19.95. Comprehensive list of the names of microorganisms and cell lines, enables researcher to locate a particular species as well as collections in particular countries and persons engaged in the maintenance of cultures.

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