



◊ * ○ • SYMBOLS FOR STARS IN ORDER OF BRIGHTNESS

Celestial Time Table for June

JUNE	EST	Event
1	3:50 a.m.	Moon passes Mars
	2:00 p.m.	Saturn in opposite direction from sun and nearest; distance 837,100,000 miles
	6:00 p.m.	Mercury farthest west of sun; visible for a few days around this date low in east before sunrise
2	11:00 p.m.	Moon nearest; distance 229,100 miles
5	2:10 a.m.	Moon in first quarter
	7:47 p.m.	Moon passes Jupiter

11	8:57 a.m.	Moon passes Saturn
12	5:02 a.m.	Full moon
18	6:00 a.m.	Moon farthest; distance 251,400 miles
20	5:22 a.m.	Moon in last quarter
21	11:21 a.m.	Summer solstice (sun farthest north; summer commences)
27	3:53 p.m.	New moon
30	3:00 a.m.	Moon nearest; distance 226,200 miles

Subtract one hour for CST, two hours for MST, and three for PST.

Science News Letter, May 25, 1957

GENERAL SCIENCE

Scientists Needed

► A. H. BATCHELDER, vice president of the California Research Corporation, and general manager, Richmond Laboratory, spoke at the Eighth National Science Fair awards luncheon in Los Angeles, describing the job satisfactions industry offers the scientist and engineer.

"In summing up the desirability of a position or profession, personnel specialists consider job satisfaction, opportunity, working conditions, and remuneration, pretty much in the order named. They are of course more or less interdependent and one is not a substitute for the other. It is easy to demonstrate that science and engineering are nearly superlative in all categories," he told the audience of young scientists, teachers, and professional scientists.

Mr. Batchelder compared the scientist today with explorers in the days of Cabot, Hudson and Columbus. Just as the early explorers had job satisfaction because their efforts gave them a feeling of accomplishment and recognition, the scientists and engineers receive the same, or an "even greater sense of accomplishment in making life richer and more secure for all of us," he said.

Emphasizing the important role played by the high school teacher in motivating young people toward a career in science or engineering, Mr. Batchelder said science teaching must be made more attractive as a life work if we are to avoid a shortage of scientists.

Science and technology offer a "triple threat" preparation for the future, Mr. Batchelder said "First of all, study in science or engineering can prepare you for a career in academic research or for instructing others.

"Secondly, it prepares for industrial work which is interesting and at the same time, rewarding in every sense.

"Third, it may lead to opportunity elsewhere; as the world becomes increasingly technical, more and more leaders in manufacturing, production, sales and business management are being drawn from the ranks of the technically trained."

AMA Banquet Speaker

DR. WENDELL M. STANLEY, Nobel Prize winner and director of the Virus Laboratory of the University of California, was the main speaker at the American Medical Association's awards banquet. In discussing the relationship between viruses, genes and "life," Dr. Stanley gave the young scientists in his audience a clear picture of past and current virus research.

He pointed out that eventual synthesis of a "small polynucleotide specifically arranged" means we may "dare to think" of synthesizing in the laboratory a structure possessing genetic continuity and of all the tremendous implications of such an accomplishment. Scientists will one day be able to create living matter in the laboratory.

Science News Letter, May 25, 1957

PHILOSOPHICAL LIBRARY BOOKS

◻ **INTRODUCTION TO ELECTRICAL APPLIED PHYSICS** by N. F. Astbury. A book on physics and engineering, reflecting the development of electrical science into a subject which is neither physics nor engineering, but a combination of both. Brings together the classical basis of the subject and specialist topics which are entering all fields of applied science. Numerous diagrams. \$10.00

◻ **GALACTIC NEBULAE AND INTERSTELLAR SPACE** by Jean Dufay. The most complete account available of the many diverse phenomena, observational and theoretical, involved in the study of interstellar matter. Illustrated. \$15.00

◻ **HIGH-SPEED SMALL CRAFT** by Peter du Cane. A well-known designer of high-speed marine craft discusses the factors governing problems of design and construction, including rudder design, use of reinforced plastics and light alloys, propelling machinery, and use of models for predicting behavior in rough water. 44 plates & 140 drawings. \$12.00

◻ **ENGINEERING STRUCTURAL FAILURES** by Rolt Hammond. A survey of the causes and results of failures in over a century of engineering, including earthworks, dams, harbor works, buildings, bridges, and underground works; with special consideration to failures due to vibration, earthquake, subsidence, and in welded structures. \$12.00

◻ **REASON AND CHANCE IN SCIENTIFIC DISCOVERY** by R. Taton. Dr. Taton examines the relative role of active purpose and chance in the processes of scientific discovery. Steering clear of theory, he illustrates his thesis by practical examples drawn from the lives and works of such distinguished scientists as Poincare, De Broglie, Bernard Galileo, Roentgen, Becquerel, the Curies, Leibniz, Newton and others. Illustrated. \$10.00

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◻ **ELECTRICITY AND MAGNETISM** by J. Newton. A detailed study of the phenomena and theory of electricity and magnetism. The author deals with current electricity, electrostatics, magnetic properties of materials, magnetometry and thermo-electricity, concluding with a survey system of units, electronic circuits and elementary atomic physics. The author is Senior Lecturer in Physics at Northampton Polytechnic, London. 4 plates, 261 figures. \$10.00

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