

The Summer At Caltech

Chemical Physics Laboratory

Construction has begun on the \$4 million Arthur Amos Noyes Laboratory of Chemical Physics, named for the distinguished chemist who helped pioneer the development of Caltech. The five-story laboratory, scheduled for completion by September 1967, will be the largest building on the campus and will provide space for more than 80 people as well as for the complex instruments required for research in the field embracing chemistry and physics.

Located on San Pasqual Street across from the Church Laboratory, the building will be of contemporary design with three floors above ground and two below.

Board of Trustees

John E. Barber, who has served on the Caltech board of trustees continuously since 1954, has resigned as vice chairman of the board and has been elected an honorary trustee.

Three new members have recently been elected to the board: Reed O. Hunt, chairman of the board and chief executive officer of the Crown Zellerbach Corporation; James C. Self, textile company executive and president of Greenwood Mills in South Carolina; and Arthur M. Wood, vice president of Sears, Roebuck and Company for the Pacific Coast.

Shannon Crandall, Jr., a Caltech trustee since 1955, died on June 30. He had served as vice chairman of the board from 1957 until 1965, when he resigned and became an honorary trustee.

Honors and Awards

Harrison S. Brown, professor of geochemistry, has been elected to a second four-year term as for-

eign secretary of the National Academy of Sciences, responsible for arranging U.S. participation in international scientific organizations and programs. Dr. Brown also was awarded an honorary doctor of sciences degree by Amherst College in June.

Frederick C. Lindvall, chairman of the division of engineering and applied science, recently received the Lamme Award of the American Society of Engineering Education, given annually to a distinguished engineer and educator who has contributed to the advancement of both professions. Dr. Lindvall also was awarded an honorary doctor of engineering degree by Purdue University in acknowledgment of his contributions to curriculum development in electrical engineering when he was a visiting professor there from 1963-65.

Frank E. Marble, professor of jet propulsion and mechanical engineering, has been elected a fellow of the American Institute of Aeronautics and Astronautics. The award, in recognition of significant achievements in aerospace technology, will be presented at the AIAA's December meeting in Boston.

William H. Pickering, director of Caltech's Jet Propulsion Laboratory, continues to receive honors for his space exploration contributions. He was awarded the Spirit of St. Louis Medal by the American Society of Mechanical Engineers and the city of St. Louis in May and, in June, he received an honorary doctor of science degree from Clark University in Worcester, Massachusetts.

John D. Roberts, chairman of the division of chemistry and chemical engineering, is winner of the American Chemical Society's 1967 Roger Adams Award in Organic Chemistry, given in recognition and encouragement of his outstanding contribu-

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Engineering and Science

The Summer . . . *continued*

tions to research in organic chemistry—specifically his investigations on small ring carbon compounds.

Allan R. Sandage, staff member of the Mount Wilson and Palomar Observatories, is the first astronomer to receive the Pius XI Gold Medal for particular excellence in science, presented to him by Pope Paul VI at the Vatican Palace during a week-long meeting of the Pontifical Academy of Sciences in Rome recently.

Thomas Hunt Morgan Centennial

Eight Caltech faculty members took part in a centennial symposium in memory of Thomas Hunt Morgan, first chairman of the Institute's division of biology, which was held last month in Lexington, Kentucky, where Morgan was born. James F. Bonner, Norman H. Horowitz, and Albert Tyler, professors of biology; Alfred H. Sturtevant, Thomas Hunt Morgan Professor of Biology, Emeritus; Henry

Borsook, professor of biochemistry; William B. Wood, assistant professor of biology; and Geoffrey Keighley, research associate in biology, participated in the program at the University of Kentucky.

First Leader

Paul Goodman, author, playwright, literary and social critic, pacifist, teacher, and unofficial philosopher of the Berkeley Free Speech Movement, was on the Caltech campus for three days of discussions and meetings this month, as the YMCA's first Leader of America for the 1966-67 program.

New Coach

Thomas Gutman, outstanding player for UCLA's 1959-61 football teams, is Caltech's new varsity football line coach and the Institute's first full-time wrestling coach. He has been on the coaching staff of Beverly Hills High School for the past three years.

Faculty Changes 1966-1967

PROMOTIONS

To Professor:

ALLAN J. ACOSTA — *Mechanical Engineering*
ARDEN L. ALBEE — *Geology*
ARTHUR J. BOUCOT — *Paleontology*
EVERETT C. DADE — *Mathematics*
ROGER F. DASHEN — *Theoretical Physics*
RICHARD A. DEAN — *Mathematics*
ROBERT S. EDGAR — *Biology*
DEREK H. FENDER — *Biology and Applied Science*
STEVEN C. FRAUTSCHI — *Theoretical Physics*
F. BROCK FULLER — *Mathematics*
ROBERT A. HUTTENBACK — *History*
JON MATHEWS — *Theoretical Physics*
AMNON YARIV — *Electrical Engineering*
FREDERIK ZACHARIASEN — *Theoretical Physics*
EDWARD ZUKOSKI — *Jet Propulsion*

To Associate Professor:

JOHN F. BENTON — *History*
FRED E. C. CULICK — *Jet Propulsion*
DONALD E. KNUTH — *Mathematics*
THAYER SCUDDER — *Anthropology*
DAVID R. SMITH — *English*
BRADFORD STURTEVANT — *Aeronautics*
GEORGE ZWEIG — *Physics*

To Senior Research Fellow:

WILLIAM R. GRAY — *Biology*
EMERSON HIBBARD — *Biology*
SUDARSHAN MALHOTRA — *Biology*
RICHARD B. READ — *Radio Astronomy*
R. H. STANFORD, JR. — *Chemistry*

To Assistant Professor:

BARRY C. BARISH — *Physics*
PAUL C. JENNINGS — *Applied Mechanics*
BYRD L. JONES — *History*
DANIEL G. KEEHN — *Applied Science*
ALAN T. MOFFET — *Radio Astronomy*
RUSSELL M. PITZER — *Theoretical Chemistry*
BOB G. SANDERS — *Biology*
BRUCE A. SHERWOOD — *Physics*

NEW FACULTY MEMBERS

Professors:

NOEL CORNGOLD — *Applied Science* — from Brookhaven National Laboratory, where he was a member of the senior scientific staff.
HARRY B. GRAY — *Chemistry* — from Columbia University, where he was professor of chemistry.

Associate Professors:

CHARLES B. ARCHAMBEAU — *Geophysics* — from United Electrodynamics in Virginia, where he was a research scientist.
PETER GOLDBREICH — *Planetary Science and Astronomy* — from UCLA, where he was associate professor of astronomy and geophysics.

Senior Research Fellows:

S. K. BHATTACHERJEE — *Physics* — from Tata Institute of Fundamental Research in Bombay, India, where he was associate professor.
ISAIAH GALLILY — *Environmental Health Engineering* — from Tel Aviv, Israel.
GORDON P. GARMIRE — *Physics* — from MIT where he was assistant professor of physics.