THE MONTH AT CALTECH

Chairman of the Board

**Albert Billings Ruddock** was elected chairman of the Board of Trustees of the Institute at the annual meeting of the board on November 1.

Mr. Ruddock succeeds James R. Page, chairman since 1943, who will continue to serve on the board as chairman of the finance committee and in other important capacities.

At the same meeting John E. Barber, who became a trustee in February of this year, was elected vice president and treasurer of the board. As treasurer, he succeeds Dr. William B. Munro. Dr. Munro has been associated with Caltech since 1926. As Professor of History and Government for nearly twenty years, he was a leading figure in the establishment of the Institute’s Humanities program, and was elected a trustee in 1943. He is also a trustee of the Huntington Library and the Huntington Memorial Hospital.

Mr. Ruddock, a Caltech trustee since 1938, has been prominent for many years as a diplomat and as a civic leader in southern California.

A native of Chicago, Mr. Ruddock was educated at Yale (BA 1907), Columbia (MA 1909), and the Ecole des Sciences Politiques in Paris, 1911. From 1912 to 1916 he was Secretary of the American Embassy in Berlin and the following year held the same post in Brussels. From 1917 to 1920 he served in the State Department in Washington and from 1920 to 1923 in the American Embassy in Peking.

Mr. Ruddock resigned from the foreign service in 1924 to enter private business. Since then he has been associated as trustee or director with many institutions, including the Security First National Bank of Los Angeles, Occidental College, the Los Angeles County Museum, the Town Hall of Los Angeles and the Pasadena Civic Music Association. He has been chairman of the advisory committee of the Los Angeles County General Hospital and chairman of the management committee of the Huntington Memorial Hospital. In 1943 he received the Arthur Noble Award for outstanding service to Pasadena, where he lived from 1923 until 1952.

Mr. Ruddock is currently president of the Southwestern Development Company of Los Angeles and a director of the Universal Consolidated Company. He is also a director of the Santa Barbara Foundation and the Santa Barbara Museum of Art.

Montgomery of Alamein

**Field Marshal Viscount Montgomery of Alamein**, the British World War II hero who is now Deputy Supreme Allied Commander of the NATO forces in Europe, will be the guest of the Institute for three days this month, November 28-30.

Last spring President DuBridge attended a conference in Paris, of which Marshal Montgomery was chairman. When he learned the Marshal’s plans for a visit to the United States this fall he invited him to come to Pasadena.

Marshal Montgomery will be honored at an invitational dinner given by the Trustees of the Institute for the California Institute of Technology on November 29. On November 30 he will attend a public luncheon, given by the Institute and the Los Angeles World Affairs Council, where he will speak on “The Whole Question of NATO and the Defense of the Free World.”
Institute Associates.

tive Council of
of the late Dr. Robert Millikan, chairman of the Execu-
and the National Safety Council. He was a close friend
1933 to his death he was a member of the California
served as a director of the American Petroleum Institute
president and director of several oil companies. He also
Lakes shipping vessels, a machinery manufacturer, and
search Laboratory in 1949.

He was 84 years old.

Harry
Corporation.

HARRY
EARHART,
founder of the Earhart Foundation,
died on October 21 at his home in Ann Arbor, Michigan.
He was 84 years old.

A gift of $407,000 from the
Earhart
Foundation made it
possible for Caltech to build its
Earhart Plant Re-
search Laboratory in 1949.

Mr. Earhart was, successively, an owner of Great
Lakes shipping vessels, a machinery manufacturer, and
president and director of several oil companies. He also
served as a director of the American Petroleum Institute
and the National Safety Council. He was a close friend
of the late Dr. Robert Millikan, chairman of the Execu-
tive Council of Caltech from 1921 to 1945, and from
1933 to his death he was a member of the California
Institute Associates.

Embryologist

Lord Rothschild, Director of Research of the Depart-
ment of Zoology at Cambridge University and Chairman
of the Agricultural Research Council of Great Britain,
will be at Caltech during the month of November work-
ing with Dr. Albert Tyler, Professor of Embryology, on
some problems of the early phases of both plant
and animal reproduction. Rothschild and Tyler worked
together at Caltech in 1951 and during the summer of
1953 at Cambridge.

Appointed a research associate in biology at Caltech,
Lord Rothschild is confining his studies in embryology
here to what takes place in the first 45 minutes after
the fertilization of the egg. (“After that,” he says, “some
other scientist will have to take over.”)

In the first 45 minutes something happens that changes
the nature of the egg. “It is the same in the embryo of
a bit of seaweed, a bumble bee, or a human being,” says
Rothschild.

With the help of Dr. Tyler, Rothschild is trying to
find out what does happen. And they would like to find
answers for such questions as: “What happens if two
sperms enter an egg instead of just one;” and “Do eggs
breathe faster before or after fertilization?”

Lord Rothschild is also at work on a book on this
subject. His research project is being sponsored jointly
by Caltech, Cambridge University, the U. S. Public
Health Service, and Britain’s Agricultural Research
Council.

A member of the famous Rothschild banking family,
he tried working in the family business for three short
months once—then gave it up permanently to do re-
search in embryology.

Top Performers

Dr. George W. Beadle, Chairman of the Division of
Biology, and Dr. Richard P. Feynman, Professor of
Theoretical Physics, are included among the “Top Per-
formers of the Year” in the annual selection of dis-
tinguished Californians which Fortnight Magazine pub-
lished in its November 3 issue.

Dr. Beadle received one of America’s highest scientific
honors in January of this year when he was made presi-
dent-elect of the American Association for the Advance-
ment of Science. He will serve as president during 1955.

Dr. Feynman has been honored twice this year for his
scientific achievements. In April, he was elected to the
National Academy of Science, and in January, he was
selected as winner of the Albert Einstein Award, consist-
ing of a $15,000 cash prize and a gold medal. This
award is made every three years for an outstanding con-
tribution to knowledge in the mathematical and physical
sciences.