

ALUMNI REVIEW

CONTRIBUTORS

ALUMNI ASSOCIATION, INC.
CALIFORNIA INSTITUTE
OF TECHNOLOGY

VOL. 5 No. 4 JUNE, 1942

PASADENA, CALIF.

Published four times a year — September, December, March and June by the Alumni Association, Inc., California Institute of Technology, 1201 East California Street, Pasadena, California. Annual Subscription \$2.50, Single Copies \$0.65. Entered as second class matter at the Post Office at Pasadena, California, on September 6, 1939, under the Act of March 3, 1879.

All Publishers' Rights Reserved

Reproduction of material contained herein forbidden without written authorization.

STAFF

Hugh Colvin, '36 *Editor*
2425 West Blvd., Los Angeles

John Rubel } *Associate Editors*
Al Jerrens }
Calif. Inst. of Technology

David Hill *Business Manager*
Calif. Inst. of Technology

George Langsner '31 Fred S. Scott '30

Albert Atwood '32 William H. Mohr '29

Theodore C. Combs '27

CONTENTS

JUNE, 1942

INDUSTRIAL DESIGN SECTION OF THE CALIFORNIA INSTITUTE OF TECHNOLOGY . . .	4
COSMIC RAY RESEARCH	11
WORLD WAR: THEN AND NOW	14
THERMOSTATIC BIMETAL	16
BOLIVIA: SHANGRI-LA OF SOUTH AMERICA	18
GAS UTILITIES IN THE PRESENT EMERGENCY	21
. . . OF INTEREST	25
NEWS OF CLASSES	31

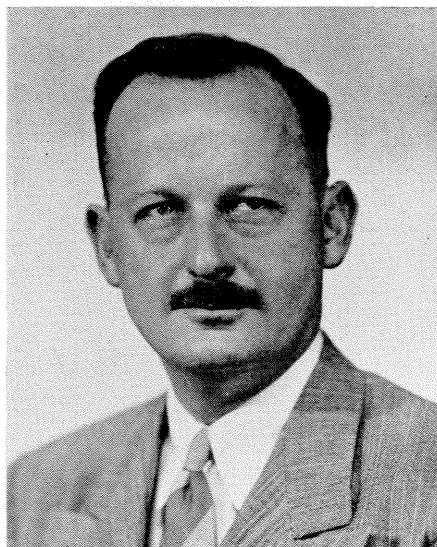
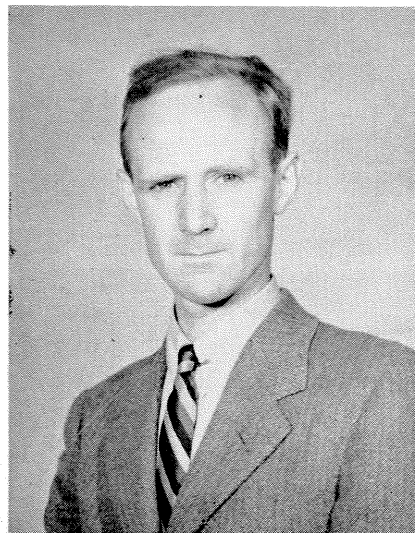


Photo by Dave Meiklejohn

FRED HOUGH

The important problem of maintaining and increasing gas utility service in the present emergency is discussed in this issue by Alumnus Fred Hough. Mr. Hough has been with the Southern Counties Gas Company since 1925. He has worked in both Research and Distribution Engineering, and is now Executive Engineer.

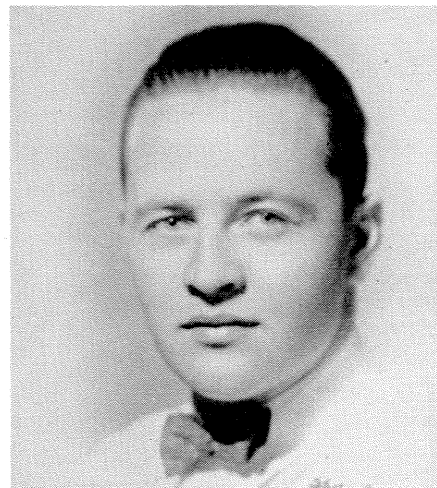


Photograph by Harter

PROF. W. H. PICKERING

William H. Pickering contributed the article on cosmic ray research to this issue. Dr. Pickering is nationally famous for the cosmic ray research he has done in conjunction with Dr. R. A. Millikan and Dr. H. V. Neher; but the press of his many other academic activities in addition to his cosmic ray work leaves him little time to write articles for the Review. We were happy indeed to receive his interesting article. Dr. Pickering's rapid rise to Assistant Professor of Electrical Engineering

dates from his graduation from Caltech in 1932. Since then he has become known to many students and alumni as a very capable and interesting instructor in physics, electronics, radio, electrical engineering and many other subjects.



ERNEST R. HOWARD

Thermostatic Bimetal is the subject of Mr. Howard's article in this issue of the Review. Mr. Howard received his M.S. degree at the Institute in 1935, presenting as his thesis a study of bimetal behavior. After leaving Caltech, he worked on bimetal problems for General Electric at Ontario, before going to the H. A. Wilson Company where he is now carrying on similar studies.



Photograph by Harter

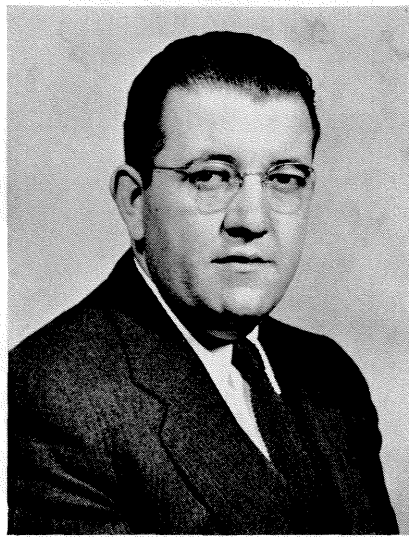
PROF. J. E. WALLACE STERLING

One of Caltech's most popular lecturers is Dr. Sterling. Students and alumni alike have never failed to listen attentively to his carefully prepared and carefully delivered

ered talks on history old and current. It is with a great deal of pleasure that we present the first of a series of articles Prof. Sterling has consented to write dealing with aspects of the present war.

Current events are changing so rapidly, and often so surprisingly, that Dr. Sterling has, so far as we know, formulated no definite plans for his future articles other than that they shall deal with aspects of current history which will be of interest to readers of the Review. If you have any suggestions, or if you have a subject in mind you would like to see discussed, pass your ideas along by writing to the Alumni Review.

Dr. Sterling received his B.A. from the University of Toronto in 1927. In 1938 he was awarded a Ph.D. by Stanford University. An assistant professor at Tech in 1939, Dr. Sterling has served as Associate Professor of History since 1940.



Photograph by O. K. Harter

LUIS HERNÁN TEJADA-FLORES

In his paper, Bolivia: Shangri-La of South America, Mr. Tejada paints a clear and interesting picture of his native land. Mr. Tejada, son of a former President of Bolivia, spent his undergraduate years at Tech as a member of Dabney House, majoring in Electrical Engineering. After graduation he returned to Bolivia; but the desire to go on with advanced studies soon brought him back to the Institute, where he is now working for his Master's Degree.

COVER

The striking photograph which appears on the cover of this issue was taken by Mr. W. Ellis Teas. It was displayed in the Pacific Photo Show where it won a Special Award, and it has appeared in several other photographic exhibitions.

PHOTO FINISH

Oxy's George Jennings and Tech's Bob Densmore, pictured in the remarkable shot below, are shown at the finish of their 880-yard race in the all-conference meet. The Tiger hit the tape with his teeth, but lost the race, the Beaver's foot having crossed the line first. This unusual photograph was given a full page in a recent issue of Life Magazine.



Photo Herbert Matter, New York, 1941

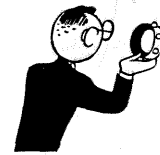
ANTONIN HEYTHUM

Antonin Heythum received his Certificate in Architecture in 1922. After working as Art Director and Stage Designer for National Theatre and Opera House in Prague and other theatres, he graduated as Engineer Architect, Dipl. Ing. Arch., from Prague Institute of Technology, 1934. Then followed other activities, including extensive practice in residential and exhibition architecture, in commercial and industrial design; advisor for Czechoslovak Glass Research Institute and Industrial Arts Museum; Grand Prix, Brussels 1935; Officer de L'Ordre Leopold II, King of Belgium.

Heythum came to the United States as architect for the Czechoslovak Government, San Francisco Exposition 1939, and New York World's Fair 1940. In 1940-41 he worked with the New School for Social Research, New York, as Associate Professor of Design. In 1941 he came to the Institute to organize Industrial Design Department and lecture in Industrial Design.

in other words

by JOHN CLINTON



It's been a long empty while since *Rags* departed this world. We had the house painted and there aren't

even any paw marks left. Even the old divan where *Rags* slept out on the porch is gone. Yet—it hasn't been a year!

* * *

Time has suddenly gone crazy like the world. You can't measure it with clocks any more, but in ships, guns, tanks and the probable length of your automobile's life. And today lubrication of the family car is almost as important as Junior's vitamins.

* * *

Now I've never kidded anyone in these columns. They may have been dull here and there, but they've been sincere. And I was never more sincere than I am now when I recommend Stop-Wear Lubrication at Union Oil stations.

* * *

Stop-Wear, first of all, is guaranteed in writing for 1000 miles against faulty chassis lubrication — a guarantee good anywhere in the West. Moreover Stop-Wear is done with special tools and a minimum of 9 exclusive lubricants developed by Union Oil engineers.



* * *

The Minute Men have to graduate from a lubrication school before they can perform any Stop-Wear service. They follow factory specification charts, and they give you written reports on the condition of your car.

* * *



When you get it back you can see the difference in how it looks — you can hear the difference in the quiet-as-a-mouse way it runs, and you can feel the difference in the way it handles. Try guaranteed Stop-Wear, today.