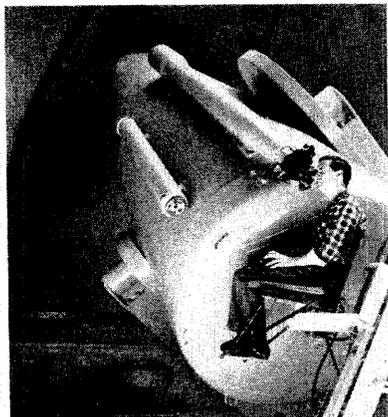


ENGINEERING AND SCIENCE

IN THIS ISSUE



On our cover this month is astronomer-observer George Abell, guiding the Big Schmidt telescope in its work of mapping the heavens for the National Geographic Society-Palomar Observatory Sky Survey. You'll find the story about this impressive atlas of the skies on page 13 of this issue.

Next to smog, water shortages present the most serious challenge to the ultimate growth of southern California. On page 24, in "Looking Ahead for Water," Jack E. McKee, Associate Professor of Sanitary Engineering, considers some possible new sources of water supply for this area. Dr. McKee, incidentally, has just completed the first year of research on one of the phases of the problem of sewage reclamation, in an effort to develop an economic engineering method for the disinfection of sewage.

Prizewinners in the 1954-55 E&S Science Writing Contest, for Caltech undergraduates and graduate students, were selected by the editors of *Scientific American* this summer. The \$100 first prize went to Frank Salisbury for "The Inhabitants of Mars," which ran in E&S in April, 1955. Second prize (\$50) went to James M. Kendall for "Hypersonic Research at Caltech," which we published in June, 1954.

Salisbury, who received his PhD from Caltech last June (in plant physiology and geochemistry) is now teaching at Colorado A & M. Kendall is still on campus, as a graduate teaching assistant in aeronautics.

PICTURE CREDITS

Cover, pps. 14-16 National Geographic Society-Palomar
Sky Survey photos
p. 19 Pasadena Star-News
pps. 21-23 Stuart Bowen '56

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