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By **DAVID M. BLANK** and
GEORGE J. STIGLER

Has the enormous increase in the number of engineers and scientists taken place in just a few complex industries or throughout our industrial economy? What has been the impact of government financed research? How can we judge whether the increase in scientific personnel has kept pace with demand? The authors have examined these questions in great detail and have produced the first book that fully analyzes the factors influencing the demand and supply of scientific personnel. The book challenges the prevailing belief in a serious shortage of engineers now and for the future, but recognizes that temporary shortages have occurred.

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Questions

BIOLOGY—What is the name of the amino acid formed by the action of photosynthetic sulfur bacteria on carbon dioxide? p. 149.

GEOLOGY—In what kind of rock are Kolar mine's gold-bearing veins found? p. 154.

PUBLIC HEALTH—How many chromosome breaks per 100 cells were produced when human kidney tissue cells were exposed to 25 roentgens? p. 147.

RADIO ASTRONOMY—How does Jupiter's ionosphere compare with the earth's? p. 152.

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SOCIOLOGY

Research Efforts Help Professor's Advancement

➤ A COLLEGE professor's prestige among his colleagues and his ability to advance in his profession do not depend on the quality of his teaching, Dr. Theodore Caplow of the University of Minnesota told the American Sociological Society meeting in Washington.

In fact, successful teaching may even count against the professor.

With minor exceptions, Dr. Caplow found in interviews with heads of department and professors in ten major universities, a professor's prestige among his colleagues depends upon his research productivity.

The central fact affecting the change of jobs by college professors is the gap between major and minor institutions. Most moves across the gap are downward. Moves upward occur only under special circumstances.

Movement is affected more by the push of dissatisfaction, either on the part of the professor or his institution, than it is by the pull of outside opportunity.

The factors governing the movement of professors at present are unfavorable both to the individual and to the institution, Dr. Caplow concluded.

Science News Letter, September 7, 1957

Do You Know?

The losses caused by *rheumatic diseases* to the nations of the world are far greater than the losses suffered during all the wars ever fought by man.

A peculiar *hormone* has been harvested from enormous volumes of worm-like larvae which matures insects and prevents or shrinks tumors, and it is now being tested against cancers in mice.

Scientists are now using radioactive tracers in cows to study the development of *milk*.

A new health hazard to *farmers*—the production of a deadly gas in silos—has been established by medical research workers.