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Science

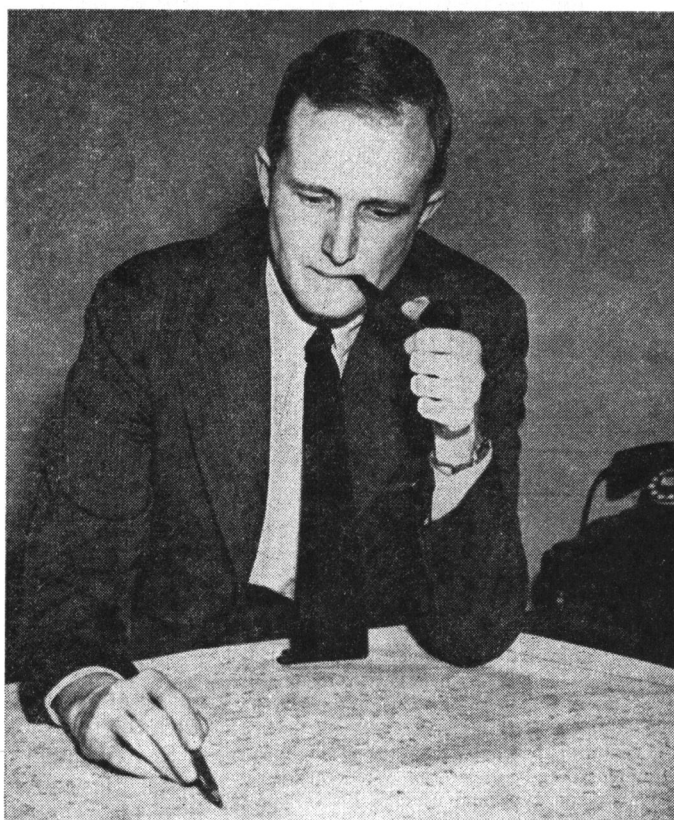
THE SCIENTISTS NEWSWEEKLY

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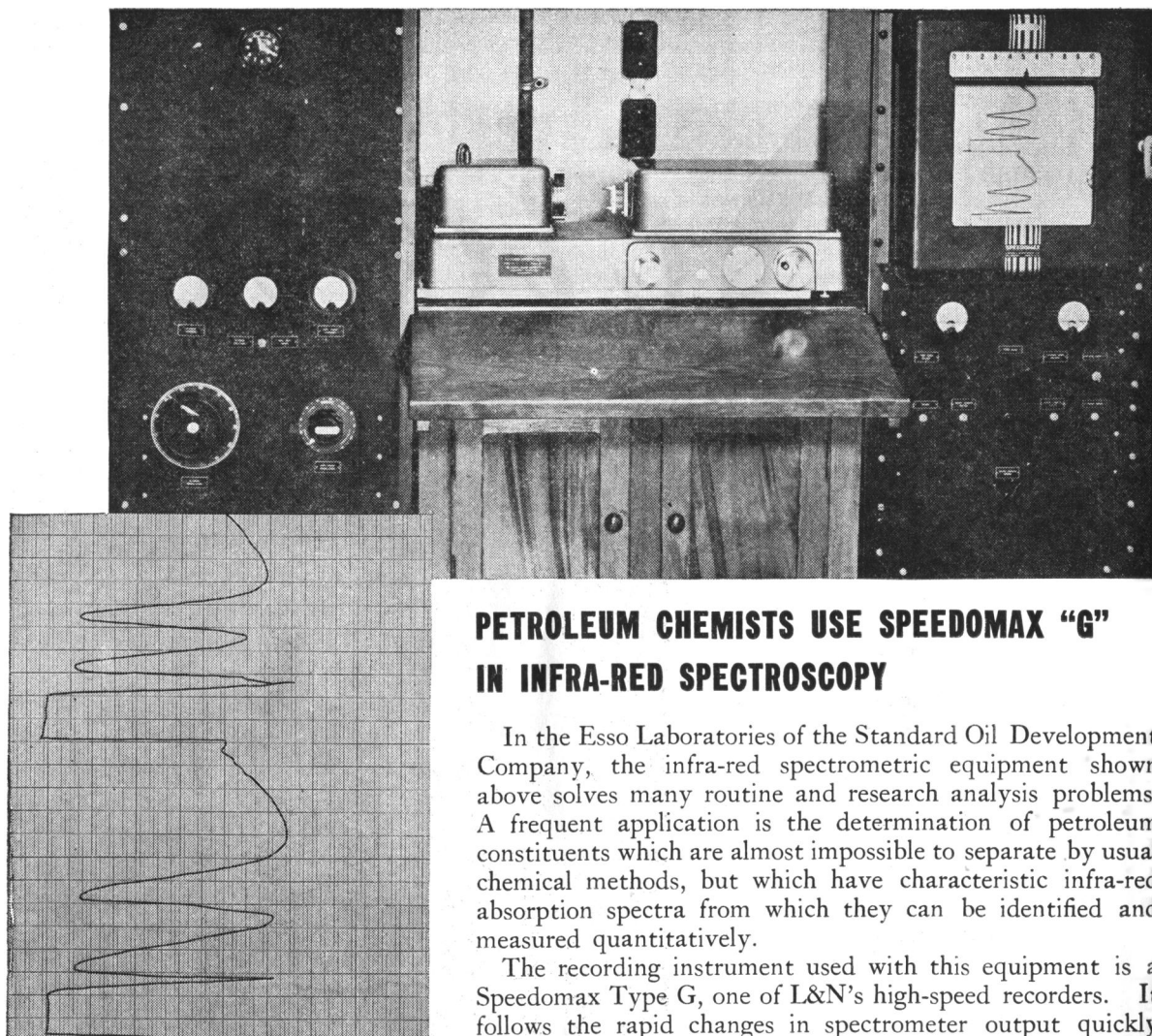


James B. Fisk, formerly assistant director of physical research, Bell Telephone Laboratories, who resigned on February 1 to become director, Division of Research, Atomic Energy Commission. Dr. Fisk joined the Bell staff in 1939 after a year as associate professor of physics at the University of North Carolina. After receiving his B. S. degree in 1931 and his Ph.D. in 1935 from Massachusetts Institute of Technology, he did postdoctorate work at Harvard and Cambridge University, England.

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Harlow Shapley: President of AAAS, 1947

Otto Struve



PETROLEUM CHEMISTS USE SPEEDOMAX "G" IN INFRA-RED SPECTROSCOPY

In the Esso Laboratories of the Standard Oil Development Company, the infra-red spectrometric equipment shown above solves many routine and research analysis problems. A frequent application is the determination of petroleum constituents which are almost impossible to separate by usual chemical methods, but which have characteristic infra-red absorption spectra from which they can be identified and measured quantitatively.

The recording instrument used with this equipment is a Speedomax Type G, one of L&N's high-speed recorders. It follows the rapid changes in spectrometer output quickly and accurately; faithfully reproduces on its wide strip-chart each of the complex details of the unknown's spectrum. Its speed and sensitivity are more than adequate to keep pace with the rest of the spectrometric equipment.

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An L&N engineer will be glad to discuss how this recorder can be applied or, to send Catalog ND46(1).

At top: Infra-red spectrometric equipment at Standard Oil Development Co. Speedomax Type G, in upper right panel, records the output of the Perkin-Elmer spectrometer in the center of the photograph. Pre-amplifier mounted directly under the Speedomax is a galvanometer type and uses an L&N Type HS galvanometer.

Enlarged view of chart shows detailed record of infra-red spectrum drawn by the Speedomax.



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