466 ABSTRACTS

### Structure of Platinum Films

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The results of electronographic and microscopic studies show that platinum films consist of conglomerates of Pt crystals, which account for the porous structure of the films. The conglomerates are up to 1,000-2,000 A—and even larger—in size, whereas the size of the basic Pt crystals is ~100 A. Heat treatment at temperatures of 250°-400° results in formation of the conglomerates; however, preadsorption of oxygen retards the conglomeration during the heat treatment.

# An Improved Apparatus to Measure Specific Catalyst Surfaces by Krypton Adsorption

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An improved duplex apparatus is described to measure by krypton adsorption specific surfaces of solids in the range of 0.01 to 100 m<sup>2</sup>/g. Productivity of the apparatus was raised to 4 sample analyses in 6 hours by installation of a semi-automatic pressure-measuring device, a burette of special design to control the gas flow rates, and of withdrawable ampoules for the test samples.

#### LETTERS TO THE EDITOR:

Kinetics of Radiative Polymerization of Acrylonitrile in Gaseous Phase Over a Mineral Base

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On the Nature of Oxygen Adsorption on Nickel

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