

Cover: Dow Canada's new complex in Ft. Saskatchewan, Alta., near Edmonton

- 2 Letters
- 3 Editor's Page

Concentrates

- 8 Business
- 24 Government
- 27 Science/Technology

The Departments

- 63 Books
- 64 Newsclips

News of the Week

- **A huge petrochemical industry is shaping up in Saudi Arabia; latest ventures include Dow and Japanese firms.** **Page 4**
- **George A. Keyworth, head of Los Alamos' physics division, nominated as science adviser to President Reagan.** **Page 4**
- **Development of a ceramic sodium-sulfur battery spurred by joint research agreement of GE and U.K. firm.** **Page 5**
- **Hoechst of West Germany gives \$50 million grant for basic genetic research to Massachusetts General Hospital.** **Page 5**
- **Estimate of potential natural gas production in the U.S. is lower than that of 1978 report, survey finds.** **Page 6**
- **Trio of high-temperature alloys for use in aircraft engines and industrial gas turbines introduced by Inco.** **Page 6**

Business

- **Chemical plant capacity recovering after last summer's low point as use rates increase; polymers lead upswing.** **Page 13**
- **Owens-Corning optimistic about future of reinforced plastics, sees big increases in automotive use.** **Page 16**

News Feature

- **Canada's petrochemical industry set for big growth with increased production capacity; energy plan adds uncertainty.** **Page 17**

Government

- **NASA programs hold pat in face of budget cuts; space shuttle program to get largest portion of funding.** **Page 25**

Science

- **Fast atom bombardment allows mass spectrometric analysis of compounds that can't be ionized by other methods.** **Page 28**
- **Puerto Rican scientists take first steps to form an organization.** **Page 30**

Technology

- **Polarization flowmeter combines principles used in induction and magnetoelectric measurement techniques.** **Page 34**
- **Supercritical carbon dioxide replaces hexane in oilseed extraction.** **Page 34**

ACS News

- **Lineups shift in ranking of largest producers of U.S. chemistry graduates; University of Indiana gains top spot.** **Page 37**
- **ACS Committee on Professional Training 1980 annual report shows decrease in B.S. and M.S. degrees from 1979.** **Page 38**
- **Official reports from ACS Atlanta meeting include committee actions.** **Page 46**
- **ACS comments on proposed patent office rules and on Commerce regulation affecting analytical reagents.** **Page 52**