

# SHELLEGRAPH

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REFINERY



No. 21

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## WORLDWIDE DEMAND FOR PAPER WRITTEN BY RESEARCH EMPLOYEES



With new thin-layer chromatography instrument are L. A. Woods, J. J. Szakasits and P. V. Peurifoy. The men have worked on the project for a year and a half.

Requests have been pouring in for reprints of a paper published by J. J. Szakasits, Research Physicist; P. V. Peurifoy, Senior Research Chemist; and L. A. Woods, Research Technician; on "Quantitative Thin-Layer Chromatography Using a Flame Ionization Detector."

The trio published the paper in the March E. 1970 issue of Analytical Chemistry. The first 250 reprints have almost been exhausted, and a second printing will probably have to be made.

The paper tells about the flame ionization detector which they designed. The detector scans thin-layer chromatographic strips providing for quick identification of compounds in oil samples.

Requests for reprints of the paper have come from practically every continent including such countries as Japan, Italy, Finland, Argentina, Australia, Czechoslovakia, Hungary and Israel. Scientists in such diverse fields as veterinary medicine, fisheries research, medicine, food and drug, pharmacy, plant physiology, and forensic science are interested in the process and

(Continued on Page 3.)

## 8 SHELL CHILDREN RECEIVE AWARDS AT ANNUAL INDUSTRIAL BANQUET

Four Refinery offspring and four Chemical Plant offspring were among the 84 Deer Park High School honor students feted at the annual Industrial Awards Banquet Monday night.

Vicki Banks, daughter of J. L. Banks, Aromatics; Suzanne Wheat, daughter of I. D. Wheat, Refinery Lab; Frankie Lewis, daughter of F. F. Lewis, Engineering Field; and Gloria Warren, daughter of H. W. Warren, Gas & Thermal Cracking; were honored for outstanding class work.

Students are chosen for academic achievement in the different courses which they take. Gloria Warren has been honored at the 1967 and 1968 banquets, also.

The Chemical Plant honorees were Tim Bryce, Kitty Brittain, Jeanne Stansel and Yvonne White.

Each student was given a medal presented by the Deer Park High School principal.

Fifteen area companies including Shell Oil and Shell Chemical sponsor the banquet which has been held annually for 14 years.



Deer Park Honors Banquet--With the Shell contingent were Bill Antone, School Board President and Shell employee; L. J. Hallmark, Manager Personnel; Mrs. Winnie Helen Hilliard, teacher and Shell wife; Mrs. Bill

Mabry, teacher and Shell wife; and students; Vicki Banks, Suzanne Wheat, Frankie Lewis, Gloria Warren, Tim Bryce, Kitty Brittain, Jeanne Stansel and Yvonne White, and Hank Bettancourt, Shell Chemical.



Top miler in the state, Steve Schroeder shows his first-place winning form.

### STEVE SCHROEDER RUNS BEST MILE, IS IN TOP 5 PERCENT OF MILBY CLASS

Steve Schroeder, 18, son of J. W. Schroeder, Engineering Services, is making headlines on the track field and in school affairs.

He holds the best time for the mile run in the state, 4:16.1, which he won in the recent AAAA Regional meet. On Saturday, May 9, he won the State Track meet with a 4:18.1.

Running is Steve's year-round interest. In the Fall, he spends most of his spare time in the cross country event and in the Spring he devotes his efforts to track. He has earned three cross country letters and two in track.

"We have really enjoyed what's happening to him," said his father. "The phone hasn't stopped ringing since he won the mile in the state meet the other day.



Several colleges are interested in him."

Steve will graduate with honors from Milby High School where he is in the top five per cent of his class.

He was recently named Student Guest of Rotary from Milby and attended the weekly meetings for a month. Junior Rotarians are chosen for leadership and scholarship.

He is vice president of Key Club and Interact, president of Ragnots (booster club), president of the Junior Engineer Society and a member of the National Honor Society.

He is a recipient of the National Merit Award and his hobby is building model airplanes.

Steve will major in mechanical engineering in college.

### LUCILLE SUDWISCHER, E. DUKE DI SERVICES HELD EARLIER THIS WEEK



Two Refiners died this week.

Lucille "Sudsy" Sudwischer, pensioner died May 17. She was 67.

Born in Cleveland, Ohio, she graduated from St. Agnes Academy in Houston. She began working at the Refinery in 1942 as a General Helper and retired in 1962 with 19½ years of service.

Burial was Tuesday. She is survived by her sisters, Mrs. Helen S. Albers and Mrs. Florence Hanks.

E. Duke, Instrument Man #1, died May 18 after an extended illness. He was 48.

He was born in Crockett, Texas, and served in the Army Air Corps before joining Shell in 1945. He served as a Pipefitter Helper, Instrument Man Helper before becoming Instrument Man #1 in 1957.

Services were Wednesday.



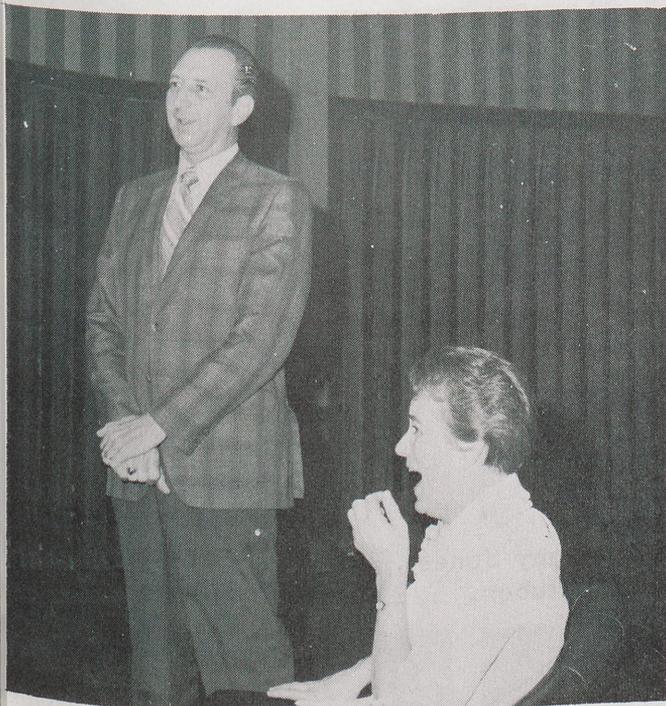
Another group of new hourly employees has completed the prescribed training course taught by members of the Training Staff. Front row, they are L. J. Rice, S. Y. Johnson, D. A. Ecby, G. W. Lee and J. Morehead. Second row (two in center) are S. L. Rapp and J. C. Manley; third row are J. W. Steptoe, W. Harnamji, M. G. Kuhn; fourth row are B. Schmidt, G. R. Hagler, J. Lowe, Jr.; fifth row M. W. Clawson, J. H. Carlson, A. N. Beal, L. T. Dunn, R. H. Etherridge, B. T. Linville, H. L. White, J. H. Milson, L. T. Bookout.

#### ORDER DESK DIARIES NOW

Don't forget to order the 1971 Shell diary before June 15.

Employees may purchase the diary for \$1.50 which includes handling and postage. If you use your Shell credit card, an additional charge of \$1 will be made.

Orders may be sent to F. H. Roberts, Shell Oil Company, Public Relations, 640 5th Avenue, New York, New York 10019



When Electa Tharp was transferred to Head Office, friends got together to recall her story. Left, Bill Antone remembers her



efforts as a Tester in the lab. Right, Refinery Manager, Leonard T. Wilson helps with the presentation of gifts.

**WORLDWIDE DEMAND FOR PAPER--**  
(Continued from Page 1.)

the instrument for use in separations of compounds.

In the process, a tiny drop of oil is applied with a hypodermic syringe to a chromatographic strip coated with activated silica gel. The strip is dipped into a solvent and then the various components are separated by adsorption. Then, the strip is passed between a dual-jet hydrogen flame burning at 300 to 450°C. The flame burns the sample and the ions formed are detected by collector electrodes. Signals from the detector are fed to an electrometer, digital integrator, and recorder which graphically traces the type and amount of each component.

**Many Uses**

Information from the separations is used in research on hydrocracking, motor oil studies and contaminants, jet fuel, and petroleum resin analysis. Most recently, the process has been used to characterize compounds in gas oils that cause deactivation in second stage hydrocracking catalyst in our pilot plants.

This type of thin-layer chromatography is rapid compared to more conventional chromatographic separations. Each sample test takes about half an hour, and many tests can be done consecutively throughout a workday.

**Built at Refinery**

Designed by Szakasits, the instruments were built by R. E. Wilke, Machinist #1. The team has now developed two flame ionization detectors during the year and a half they have devoted to the project.

**WANT AD DEADLINE**

Deadline for ads is Wednesday at noon. All material received after that time will appear in the next week's issue.

**CHEMICAL'S SULFUR RECOVERY UNIT RECEIVES EXTRA FINISHING TOUCH**

The Chemical Plant's two new sulfur removal units were completed and one was put into operation in April, but not before some very unusual finishing touches were applied to the units' 300-foot stack.

After the units were completed and were being prepared for start-up, it was discovered that a construction pulley had inadvertently been left at the top of the stack. As the pulley support would eventually corrode away allowing the pulley to fall, it was obvious that the pulley had to come down. But getting it down presented some difficult problems.

After studying several ways of removing the pulley, a helicopter was chosen as the best solution to the problem. An aircraft was rented and arrived at the Plant early in the morning April 4.

The plan called for a crewman to be lashed on to one of the helicopter's pontoons and for him to remove the pulley as the aircraft hovered next to the stack.

After the crewman and his tools had been secured to the pontoon, the helicopter made its way to the top of the stack. The crewman carried a lightning rod with him to discharge the static electricity from the helicopter to the stack.

As the helicopter hovered next to the stack, the crewman reached out with his wire cutters, freed the pulley and lifted it from the stack. The helicopter returned to the ground with the crewman carrying the trophy.

**SHELLEGRAPH**

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Mrs. Josie Ochoa--Editor

Reprints allowed only by request. To submit news and photographs, call extension 541 or send material to Room 103, Main Office Annex.

TECH DEPARTMENT HOSTS ANNUAL SAFETY DINNER



At recent Tech party were, 1-r, Bill and Sue Bryan, Karl Neber, Merle Hungerford



and Ginny Jones, Eva and Bill Brandes and Helen Neber.



Celebrating another accident-free year were Bob and Shirley Johnston, Bert and Doris



Starker, Aida Kievit, and newlyweds Bob and Joan Potter.



At party were Marc Heidemann, Sharon May, Fred Greenwood and Lorraine Ward.



Dining together were Betty Mann, Mary Geye, Herschell Mann and Bron Geye.



Chatting before dinner were Bob Bryan, Bill Nail, George Roe and Zena Bryan.

CLASSIFIEDS

FOR SALE

8 FT. Cabover camper L.W.B. (with jack) 2 wheel trailer (Sears), walking plow (Sears) 16 ft. R.M.C. boat, 70 hp Mercury. Telephone: 479-2751

Used bathtub, doors & frames, door & window facings, moldings, 5 ft. fan with motor, 40 ft. (3 pieces) wooden porch railing, hardwood stairs with railings, white oak hardwood floors. Telephone: 472-8445

16' fiberglass boat, fishing/ski boat. 15 hp Johnson motor. Custom built trailer \$1095. Telephone: 946-3435

Control unit for electric brakes on trailer \$10. Telephone: 487-0742

Hansen surfboard, Mike Doyle model, 7 ft. 2 in., with racks, good condition, \$100. Telephone: GR 9-2500

4-F70x15 Goodyear red line tires, good tread \$50. Telephone: 946-4912

1968 Wards Riverside 125 cc motorcycle, needs some repair, but will run. Telephone: GL 5-0056 after 4 p.m.

Oster pipe machine, threads 1/2" thru 2", stand with wheels, \$350. Telephone: GR 2-3018