

# Shellegraph

Houston Refinery

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## SHELL MANUFACTURES ASPHALT FOR NUMEROUS CONSTRUCTION USES

Editor's note: The following article has been condensed from a story written by H. W. Swanson, Manager, Construction Sales, for the February-March Commercial Journal, the company's commercial marketing department's newspaper.

Although you may never see products when they are finished here at the Refinery, you use many of them everyday without a moment's thought to where they come from or how they are made.

Asphalt is one of these products which is manufactured here and used in a variety of applications.

This versatile product is the largest single group of petroleum products sold to the construction industry. It also accounts for approximately 90% of Shell's current sales to the construction industry.

The history of asphalt can be fascinating since Noah used it as a waterproofing material to seal his Ark. Christopher Columbus dropped anchor in 1498 off Trinidad and caulked his galleons with "a natural waterproofing substance" found in a natural asphalt lake. With the coming of the automobile, dustless, mudless, all weather roads were demanded, so asphalt was used. With perfection of methods for distilling crude oils, refinery products of asphalt replaced materials taken from natural deposits. Today, asphalt is refined into many different grades ranging from rock-like solids to freeflowing liquids.

Asphalt's versatility enables engineers to build many kinds of surfaces. An asphalt pavement may be a thin coating of liquid asphalt sprayed on a dirt road to hold down dust. Or it may be a mixture of asphalt cement and mineral aggregate blended and mixed, then laid on a compacted base to form a rugged, heavy-duty pavement.

Paving applications also include airport runways, taxiways and aprons which must carry the tremendously heavy loads of today's large airliners. One million gallons of Shell asphalt was used at Kennedy International Airport in preparation for the Boeing 747.

Other important uses of asphalt are for constructing jetties and sea walls to protect our shoreline from ocean wave and wind erosion, and for lining irrigation and drainage canals.

Asphalt is used in countless other products that serve our daily needs. With its excellent waterproofing quality, asphalt is used more widely for roofing than any other substance. This roofing material is highly resistant to fire and practically unaffected

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Electricians J. P. Brasher and B. R. Stefka move one of the eight motors from the #7 cooling water tower. "These were some of the many items the craftsmen worked on and turned out in good time during the shutdown," said Leo Dickey, Master Mechanic.

### SAFE, CLEAN SHUTDOWN WINDING UP AT CAT. CRACKING DEPARTMENT

"This has been a very safe and very clean shutdown, and as far as I'm concerned, we are moving along really good. We are on schedule if not ahead of schedule," said L. E. Vaughan, Supervisor Engineering.

The foremen and craftsmen have cooperated fully in the 3-week shutdown of the Catalytic Cracking department according to Vaughan. "Not only do we have the foremen and craftsmen to thank, but the weatherman has given us some good days," he added.

During the first week and a half those assigned to the shutdown worked ten hour days and later went back to the regular shift. "Except for the furnace," said Vaughan, "we encountered some additional work there and that has been the only hold-up. We have been working on it around the clock."

To help make this a safe speedy shutdown, each foreman familiarized himself with his assigned areas and the jobs to be done. On the first day of the shutdown a safety meeting was held for the craftsmen. As an added precaution, workmen were required to wear goggles and breathing equipment in highly concentrated dust areas.

All major work has been completed and shutdown personnel are now wrapping up the final stages of the operation before turning the units back over to the operators for startup.

## FRENCH COUPLE ON SPECIAL ASSIGNMENT HERE VISIT DEER PARK HIGH SCHOOL



Renilde Houte shows a hamster to Coleen Black in a biology class lecture.

Michel Houte, Research Chemist, on special assignment at the MTM Research Lab-Houston, gave students of French first-hand information on his country when he and his wife visited Deer Park High School recently.

When Mary Gilmore mentioned to her daughter Marvis that Michel was at the Refinery, Marvis then passed the word on to her French teacher. Arrangements were then made for Michel and his wife, Renilde, to visit the school. Renilde, who teaches biology in high school talked to a biology class.

The couple will return to France this summer when Michel completes his assignment in process economic evaluations. Michel will return to his job at the Shell Rouen Research Center in Rouen, Normandy.

### RESEARCH WIVES INVITED TO ACT AS HOSTESSES FOR EMERYVILLE TRANSFERS

Wives of Houston-Based Research employees are planning a round of "get acquainted coffees" for their counterparts at Emeryville who are moving here this summer.

Working under the title "Operation-May We Help You?", the Shell wives plan the first of the coffees for late August or early September and are seeking volunteers to host the get-togethers in neighborhoods where Shell families live.

Wives who would like to volunteer as hostesses are asked to call one of the three co-chairmen for the events: Mrs. Helen Kingsley, 497-7178, Mrs. Karen Mullineaux, 465-3177 or Mrs. Mary Smith, 467-3749.

About 150 volunteer hostesses will be needed, since at least three coffees tentatively are to be scheduled for each neighborhood. Some of the volunteers will also be asked to offer the use of their homes for one of the neighborhood "get togethers."

"We are not basing this on organizational lines and would like to have as many Shell wives volunteer as possible," the co-chairmen said. "We need at least eighteen to twenty



Michel Houte points out his hometown, Rouen, Normandy, to Deer Park High School French students, Mary Chapman and Marvis Gilmore.

### ASPHALT APPLICATIONS MANY-- (Continued from Page 1.)

by weather changes. Asphalt saturated papers and wallboard containing asphalt are widely used in insulating and weatherproofing homes. Exterior asphalt sidings and internal walls of asphalt-treated materials are available in many attractive patterns and textures.

The largest current and future estimated use for asphalt, however, is in pavement construction and maintenance. Approximately 25 of the estimated 33 million tons of asphalt sold in the U.S. during 1971 were used for this purpose.

In 1975 the 42,500 mile national Interstate highway system, much of which has been constructed using asphalt, will be completed. The problem that faces engineers today is the updating and rehabilitating of the existing Federal highway system which has been neglected. Approximately 200,000 miles of main line primary highways must be modernized. This program is made to order for asphalt.

wives in each neighborhood who would be willing to help.

Three coffees are currently planned for each area. Each coffee will be led by a chairman and a co-chairman, and hostessed by six to eight "established" residents of their new neighborhoods, with all newcomers invited to all three coffees.

The co-chairmen said that this format will give each newcomer the chance to meet 18 to 20 "established" residents of the new neighborhoods and to get answers to questions they may have about the best places to shop, to go for entertainment, to obtain necessary services, or how to get involved in community activities.

"It will also be a good opportunity for newcomers to renew acquaintances or make new ones with other newcomers from Emeryville," the co-chairmen said.

Interested Shell wives are urged to contact one of the three co-chairmen as soon as possible in order that plans may be firmed up for preparing a warm, friendly welcome for the new residents of Houston and Harris County.

**WOMEN LEARN MORE ABOUT CARS IN JOBS AS DRIVEWAY SALESMEN...a...WOMEN**



sophomores at the all-girl Wheaton College in Norton, Massachusetts, recently took an 8 a.m. until 6 p.m. Monday through Friday driveway salesman's job at a Shell service station in Attleboro, Massachusetts.

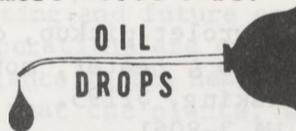
Their objective? To learn more about their cars while acquiring some additional pocket money. The students say they want to learn while doing, and earn while learning. The eight-way split of duties simply allows them to do this without neglecting their studies, they report.

The project got started when one of the students, Betsy Densmore of Worcester, heard that the Shell dealer needed additional help on the driveway. She decided to apply and convinced the dealer that she was serious about wanting to learn and earn; and she enlisted the aid of the seven other students after finding out the opening was for a full-time driveway salesman.

The students all say they are not seeking the experience under any slogan and are not trying to prove anything to anybody. In fact, they say they regard as one of the less interesting chores the need to come up with pleasant rebuttals to humorous remarks about women's lib.

When not busy on the driveway, the girls adjourn to the service bays for observation and intermitten instruction. They say their tenure at the station depends on the demand for their services and how their budgets balance. But they all agree that the experience they are getting from the job is beneficial to them in operating their own automobiles.

Given a preliminary three-hour instruction session on everything from opening hoods to handling Shell credit cards, the students perform all the duties of a driveway salesman while accomplishing their basic objective of learning more about cars.



**CHANNEL 8 TELE-AUCTION FEATURES SHELL VOLUNTEERS FOR FUND DRIVE**

See three Refinery ladies when they do their part to help Channel 8 raise money in their second annual Tele-Auction, April 30-May 6.

Mrs. Sandra Bryant, Mrs. Jewell Moss, and Mrs. Sheri Duhon will be part of a 20-man Shell task force on Monday, May 1 acting as bid takers, confirmers, verifiers and trouble shooters. Bidding will be fierce on many of the far out items donated by citizens to help the educational TV station raise money for its operations.

Last year at home viewers telephoned in \$100,000 in bids.

Shell Oil Company is also helping by buying a one-half sponsorship for Monday night's program. The auction will be carried live nightly from 5 to midnight.

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Evelyn Stebbins will be exhibiting her Four Seasons show at the Alfred Lee Gallery, April 25-May 20. Evelyn is Charlie Stebbins' wife.

Carol Lane, Woman's Travel Director for Shell, long has encouraged women to become more familiar with workings of the family automobile.

"Today, with more and more women taking over the responsibility of the family car, it's important that we know more about a car's operation," says Miss Lane. "That's why automobile orientation courses are popping up all over the country with classes geared for women."

With no orientation course readily available but anxious to pursue this ideal, eight

**PROVIDENT FUND NEWS**

The following are the Provident Fund valuations:

Equities Fund

April 5, 1972 - \$2.707

Shell Stock Fund

March 1972 - \$48.568

**BOWDEN, PENSIONER, DIED APRIL 19, RETIRED IN 1963 AS MACHINIST NO. 1**

Elmore A. Bowden, pensioner, died Wednesday, April 19. He is survived by his widow, Mrs. Gladys Bowden, a daughter and a son.

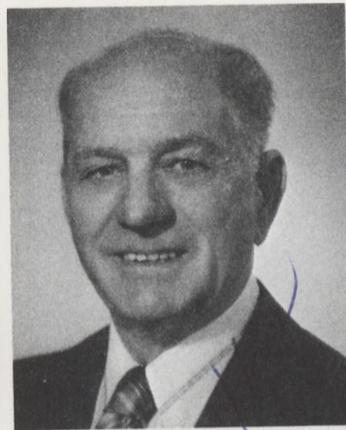
Funeral services were held at the United Methodist Church and burial was Saturday in Dayton, Tex.

Bowden was first employed by Shell in 1937 as a General Helper. He became a Machinist Helper in 1938. He went on military leave in May 1941, returning to the Refinery in November 1945. He became a Machinist No. 1 in December of that year. He retired in 1963 with 25 years of service.



Bowden

**SERVICE ANNIVERSARIES**



35 Years  
C. L. Braddy  
Eng. Field

30 Years  
L. J. Hallmark  
Employee Relations

30 Years  
W. L. McCarley  
Eng. Field

**CLASSIFIEDS**

FOR SALE

1971 Yamaha mini Enduro. Very good condition, good dirt bike, \$200.  
Telephone: 487-3853

1962 19' Cruisers Inc., lapstrake hull, 75 hp electric start Johnson, big wheel trailer, generator, power tilt, needs refinishing, \$600.  
Telephone: MI 3-8859

Comm. 225A welding mach. 220 v, 1 phase, \$150. 1968 Appleby foldout camper, \$250. 1970 Ford Fairlane 500, fact. air, auto, pwr steering, 6 cyl., will consider trade-in, \$1945.  
Telephone: 479-2083

Garage sale, 3-speed-bike, TV, bottle collection, etc., May 3, 4, 5.  
Telephone: 472-5988

Breathing machine, \$100.  
Telephone: 479-5408

1966 ½ ton Chevrolet pickup, one owner, 4 new tires, radio & heater, motor recently overhauled, asking, \$1195.  
Telephone: WA 3-8061

2 suits, excellent condition, coat size, 39 waist, 32 (regular), still in style. Make offer.

Telephone: 926-4842 after 5

10-speed Huffy Marc 10 bicycle. \$50.  
Telephone: 926-5274

1972 Caprice Chevy, just over 6,000 miles, very reasonable.  
Telephone: 774-4348

Zenith Circle of Sound stereo, new needle cartridge, \$75.  
Telephone: 926-5274

1969 Opel GT, very good condition, new Michelin tires, \$1995.  
Telephone: 774-4348

Signature gas stove. Apartment size, 4 burners, removable oven door for cleaning, lighted panel, clock, timer, used 8 months, like new, \$175.  
Telephone: 926-5274

18½ft. Critchfield, 120 OMC, inboard & outboard, large wheel trailer, 6 ply tires, walk-thru-windshield, top, 24 gal. tank, purchased late '68, \$3500.  
Telephone: 353-5214 after 6

2000 sq. ft. 3 bedroom brick home on ¾ acre lot, 2 car garage, den, built-ins, etc. fenced, only 4 years old, Homestead-Little York area. \$27,000.  
Telephone: 442-7685

**PLEASE OBSERVE AD RULES**

Please note: The following rules for submitting ads still apply.

All ads must be submitted in writing. To avoid mistakes, no ads are taken over the telephone. Blanks for submitting ads have been placed in the Shellegraph boxes for your convenience. It is not necessary that you use these blanks, however.

The deadline is still at 9 a.m. on each Wednesday unless there is a holiday at the end of the week, then the deadline is one day earlier.

Ads are published free of charge in the Shellegraph for Refinery employees and their families only. Items must be sold by owner, not agent or dealer.

**LAW REQUIRES LIFESAVING DEVICE FOR EACH PERSON ON BOARD BOAT**

If you go out in a canoe without a Coast Guard approved life saving device, you could be "up the creek without a paddle."

New water safety laws require all recreational boats, including sailboats, canoes, rowboats and even towed boats, to have one Coast Guard approved life saving device for each person on board. Children 12 and under must wear a vest-type device when the boats are underway.

Texas Parks and Wildlife Department officials who enforce the state's water safety laws say all types of watercraft, not just motorboats, can lead to drownings, and life preservers should give boaters an edge against fatal accidents.