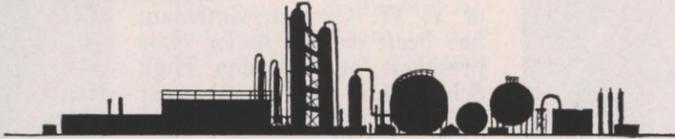


# shellegram



SHELL OIL COMPANY  
HOUSTON REFINERY

SHELL CHEMICAL CORP.  
HOUSTON PLANT

VOL. 23, No. 7

HOUSTON, TEXAS

JULY, 1958

## Chemical Plant Announces Five Personnel Changes

Several staff changes were recently announced that will affect three Houston Plant departments.

R. B. Hanning, recently of Head Office Manufacturing Engineering, has moved to Houston to replace I. B. Wilson as Assistant Department Manager in Shipping. Wilson came to the Houston Plant from the Martinez Plant in 1956 and is returning to assume the duties of Manager in its Shipping Dept.

H. C. Terford, who replaced L. Robertson as Assistant Chief Chemist (Acting) has been named Assistant Chief Chemist. Robertson has been on foreign assignment and will return to the Chemical Plant as Assistant Manager in G Dept., replacing E. H. Van Vooren who will move to Head Office in the Economic Research Dept.

Hanning has in the past been assigned to the Houston Plant on three occasions during which time he held the position of Assistant Department Manager in two operating departments and supervised the construction of the Product Development Unit. Hanning began his career in 1943 as a Chemist. He received his B.S. degree in chemical engineering from Michigan State University. Besides his work in Houston, Hanning has been on foreign assignment and in Head Office where he worked before this recent transfer.

After completing work on a Ph.D. in analytical and physical chemistry at the University of Illinois, Terford came to work at the Houston Plant in 1954 as a Chemist in the Laboratory Dept. He has remained in this department holding positions of increasing responsibility.

Robertson was graduated

from the University of Michigan in 1949 with a B.S. degree in Chemical Engineering. That same year he began work at the Houston Plant. In 1954 Robertson was transferred to Head Office and returned to Houston in 1956 to assume duties as Assistant Manager in E Dept. He was subsequently transferred to the Laboratory Dept. as Assistant Chief Chemist.

## Refinery Safe Period Ended By Accident

I regret to announce that the admirable safety record which we were building at the Refinery was halted at approximately 1,226,000 man-hours by an unfortunate lost-time accident.

The safe period of 80 days ended on July 29 when an employee turned his ankle and broke a bone in his foot as he stepped off a tank car. In this case there was no slip or unsafe condition which contributed to the injury. The man was engaged in an activity which he and others do at least several times a day, and, actually, aside from the injury this was a minor incident.

While I am gratified at the fine record you have established and sincerely congratulate you for it, I am concerned that such a minor incident should end so seriously.

Let's take a lesson from this experience and determine that we must not take our routine assignments for granted. Regardless of the simplicity of the job, keep alert to all details of our work and action.

John Tench  
Refinery Manager

## H-S-M Booklet Delivered To All Concerned

Copies of the revised Shell Hospital-Surgical-Medical Program booklet were recently distributed to all covered staff employees at the Refinery and Chemical Plant.

A copy was mailed to the home of each employee covered by this insurance. Any possessor of this insurance who has not received a copy of

See BOOKLET, Page 2



J. L. Caldwell N. D. Andrews

## Block Ice Is Getting Gate At Refinery

Old-fashioned ice boxes will be a thing of the past at the Refinery when some 42 pieces of new electrical ice-making machinery are soon installed at various spots.

A lengthy survey conducted by the Industrial Engineering Section showed that the system of delivering block ice to various locations gives rise to the possibility of unsanitary conditions, is wasteful and does not provide as much ice for the use of personnel as will the new system. The new equipment is being purchased so that employees may enjoy a more steady and adequate supply of ice and may also have a more satisfactory place for keeping lunches fresh.

A refrigerator, an automatic ice machine, or an electric water cooler with an ice-making compartment will be installed in most areas that now receive block ice. Being purchased are 30 refrigerators, seven water coolers and five ice machines.

The ice machines will go into areas where past ice consumption has been heavy or where the refining process requires ice; namely, the Cafeteria, Labor Office, Aromatics Concentration Unit, Wax Plant and Dispatching Zone Supervisor's Office. Both 8- and 11-cubic-foot refrigerators will be installed, the size depending upon the number of persons to be served. Ice-making water coolers will be placed in less densely populated work areas.

Portable water coolers will get ice from the large ice machine installed in the Refinery Laboratory last year. However, some of these portable coolers will be replaced by electric coolers to be removed from the areas receiving the ice-making type of fountain.

In a letter announcing this improved system, Refinery Management pointed out that personnel will be expected to maintain the new equipment in a sanitary state to be considerate of employees on the next shift by making sure that ice trays are refilled.

## Purchasing and Stores Duties Being Combined

Shell's Central Purchasing Office in Houston will be disbanded effective Oct. 1 with its functions to be transferred to reorganized Purchasing and Stores Depts. at both the Refinery and Chemical Plant, and at other Shell facilities in Houston.

New Assistant Manager positions for handling the purchasing activities at each plant have been created and will be filled by J. L. Caldwell at the Chemical Plant and N. D. Andrews at the Refinery. A. M. Eaton will be Manager of the new Purchasing and Stores Dept. at the Refinery with I. M. Shore to fill the same capacity at Chemical.

Other personnel who will move from the Houston Office to the Refinery to handle purchasing duties include G. B. Bell, Buyer; Mrs. L. L. Murphree, Clerk, and Mrs. L. J. Weiner, Typist.

In addition to Caldwell, W. R. Parlett, Buyer, will come to the Chemical Plant from the Denver Area, and Miss Eunice J. Migl, Typist, will come from the Houston Office.

R. S. Cox at Chemical and E. E. Craig at the Refinery will continue as Assistant Managers of their respective

Purchasing and Stores Depts., supervising operations other than those concerned with purchasing.

Andrews, who is now a Senior Buyer in Houston, has been a Shell employee since 1927 when he joined the St. Louis Head Office Warehouse Accounting section. He held various Purchasing-Stores positions in St. Louis, Dallas and Houston prior to being named a Senior Buyer in the Houston Office in 1956.

Caldwell started working for Shell in 1923 as a Store House Clerk at the Wood River Refinery. He came to the Houston Refinery as Assistant Store Keeper in 1928 and left as Store Keeper in 1933 to become a Buyer in Houston. He was named a Senior Buyer in 1952.

Bell, who will be a Buyer at the Refinery, first joined Shell in 1933 in what was then the Texas Gulf Coast Area Purchasing-Stores office. He held a number of positions in this Houston office before being named a Buyer in 1945.

Parlett joined Shell in 1952 when the Julius Hyman organization was purchased and became a part of the Shell

See STORES, Page 2

## SERA Board Approves \$40,246 Yearly Budget

A \$40,246 budget to finance activities of the Shell Employees Recreation Association from May 1, 1958 to May 1, 1959 was approved at the June meeting of the group's Board of Directors.

This budget calls for the expenditure of \$14,190 for recreational activities, \$20,920 for operating expenses and \$5,136 for construction at the Shell-wood Grounds. Income for this fiscal year is expected to amount to approximately \$35,000, meaning that some \$5,246 will be spent out of the reserve fund on deposit in the Credit Union. A \$6,000 reserve fund will be left on deposit.

A breakdown of anticipated income shows \$12,500 each from members' dues and from matching Company contributions. An estimated \$10,000 income will be realized from the vending machines operated by SERA in the Refinery and Chemical Plant.

The 1958-59 budget eliminates three recreational activities which were allocated funds the previous year; namely, tennis, bingo and the teenage club. No new recreational activities were added this year. The total budget is \$1,740

lower than that for 1957-58 operations.

The complete list of budgeted expenditures is as follows:

RECREATIONAL ACTIVITIES	
Picnic	\$10,200
Bowling	650
Softball	300
Style Show	200
Basketball	250
Golf	525
Dances	200
Gun & Skeet Club	365
Big Bore Club	500
Fishing	300
Miscellaneous	700
	\$14,190
OPERATING EXPENSES	
Caretaker's Salary	\$ 3,240
Accountant's Salary	420
Office & Administration	350
Utilities	1,200
Taxes	750
Insurance	900
Maintenance	2,000
Note Payments	9,460
Swimming Pool Expenses	1,600
Miscellaneous	1,000
	\$20,920



R. B. Hanning H. C. Terford



E. H. VanVooren I. B. Wilson

## Hard Hat Hit, But Hill Unhurt

According to the National Safety Council, a majority of accidents occur because of human error. There is another classification of accidents that seemingly involves no human fault, and can be truly classed as unforeseeable.

Recently W. T. Hill, A-Maintenance Area Foreman, was involved in such an accident at the Chemical Plant. While standing near the Chemico Concentrators under a steel stairway, Hill was struck by a piece of falling duriron pipe. The fragment had been unknowingly dislodged by workmen and fell about 24 feet through the grating of the stair landings, striking Hill on the brim of his hard hat, and ricocheting off harmlessly.

There is little doubt that Hill would have been injured if it had not been for his hard hat. The probability that the pipe could fall unhindered through the grating, plus the fact that Hill should be standing there at the exact moment, nears the impossible.

However, the National Safety Council warns that such unforeseen incidents form the very foundation for using every possible means for protecting oneself at all times.



W. T. Hill, A-Area Maintenance Foreman, holds piece of duriron pipe that fell 24-feet and struck his hard hat. G. R. Duke, F & S Inspector examines where fragment struck hat.

## Stores—

(Continued from Page 1)

Chemical organization. He has worked in purchasing-stores throughout his career and comes here from the Denver Area.

Mrs. Murphree has been with the Company in Houston since 1944 and has been a Clerk-Stores since 1946. Mrs. Weiner began as a Junior Mail Clerk in Houston and has been a Typist since 1957.

Miss Migl first went to work for Shell Pipe Line Corporation in Houston in 1956 as a Messenger and in 1957 became a Typist in the Purchasing office.



Refinery Technologist Marx Isaacs points out installations to four Harris County school teachers who took part in field trip to Refinery and Chemical Plant as part of a Petroleum Workshop held at the University of Houston under sponsorship of Shell and 29 other oil industry firms. The teachers (l to r) are C. M. Boyd, Mrs. Audrey Cole, Mrs. Mary Ruth Hart and J. D. Smith.

## Oil Industry Sponsors Workshop for Teachers

Thirty science and mathematics teachers from Harris County schools visited the Refinery and Chemical Plant in June as part of the activities of a three-week Petroleum Workshop sponsored at the University of Houston by 30 oil industry firms, including Shell.

The workshop was the first of its type held anywhere in this country. R. E. Dobyns, of Shell's Houston Area, headed the joint committee which was composed of representatives of the oil industry, public schools and the University. The 32-man faculty for the course was composed entirely of personnel from oil and allied industries, including three Refinery and Chemical Plant representatives.

Serving as discussion leaders were H. W. Anderson, Chief Research Chemist in the Refinery Research Lab; J. A. Byerly, Assistant Chief Technologist at the Refinery, and W. A. Chantry, Senior Technologist at Chemical.

The purpose of this program was to demonstrate just how the fundamental principles taught in the classroom can be applied in industry. The teachers, who were nominated to attend by school administrators, received college credits for this program which was held four hours daily for three weeks.



The group of 30 science and mathematics teachers from Harris County schools is seen in the lobby of the Refinery's East Research Building.

## 10 Years Service

### CHEMICAL ENGINEERING

L. M. Barnes  
M. A. Burgess  
V. H. Clarke  
R. L. Gorman  
A. W. Hart  
B. C. Hart  
W. A. Keepers  
C. L. Lively  
A. R. McFadden  
R. D. McLendon  
S. E. Morgan  
L. E. Panzer

H. Phelps  
B. M. Phillips  
J. A. Rolke  
P. J. Thompson  
R. A. Townsend  
C. J. Vachule  
G. C. Vornkahl  
H. L. Waddell  
F. A. Ward  
W. G. Wieser  
F. Willis

### OPERATIONS

J. E. Blankenship  
M. C. Compton  
S. Curlee  
L. C. Folly  
W. D. Fountain  
D. B. Goodson  
E. H. Baker, Shipping  
O. L. Chappell, P&IR  
R. H. Winters, Shipping  
J. H. Hanks  
W. H. Holley  
H. W. Jones  
J. J. McDermott  
P. R. Sheridan

### REFINERY

#### ENGINEERING-FIELD

T. E. Allen  
L. W. Garner  
Joe Geadon  
C. L. Heying  
G. G. Miles  
C. L. Miller

F. M. Angel, Utilities  
W. S. Bell, Eng.-Office  
K. D. Benjamin, Refy. Lab  
L. B. Burch, Refy. Lab  
T. R. Davis, Lube  
G. W. Jeanes, Therm. Crack.  
L. F. King, Eng.-Serv.  
A. H. Moore, Distilling  
T. F. Nowak, Refy. Lab.  
R. J. O'Brien, Lube  
Y. M. Putman, Distilling  
J. C. Schumacher, Dispatch.  
J. R. Thompson, Dispatch.  
B. T. Weatherly, Distilling

## Sons Receive School Honors

The sons of two Chemical Plant employees were recently honored by their respective schools.

Larry (Buster) Garrett, son of V. W. Garrett, Gateman, has been elected senior class president at Pasadena High School for the school year 1958-59. Larry is active in sports and has played basketball and baseball, both in the Little and Teenage leagues.

Billy Marsh, son of R. H. Marsh, Stores, was presented the Merit Award for outstanding accomplishment in scholarship, leadership, service, citizenship and character. Billy will be in the 8th grade next fall at Jackson Junior High School.

One of only two boys to receive the award, Billy posted straight A's for the past school year.



Larry Garrett Billy Marsh

## Booklet—

(Continued from Page 1)

the booklet should contact his respective P&IR Dept. Benefits Section.

This booklet incorporates changes in the program which were announced last December as effective Jan. 1, 1958.

The new publication should be of interest to all enrolled employees because it includes full details of the Program's coverage under both the Basic and Excess Plans. Insurance certificates covering the new Program are incorporated in the booklet.

Each employee should be familiar with the general benefits under the Program and the booklet should be kept handy for reference in case the need arises for the use of this insurance.

## Nurse's Husband Gets Scholarship

Leon D. Callihan, the husband of Refinery Nurse Katherine Callihan, received a scholarship this summer to attend a six-week institute in advanced physics and electricity at U.C.L.A.

A physics teacher at Robert E. Lee High School in Baytown, Callihan also was offered a scholarship course at the University of Texas. He received credit for this program which he can apply toward his Doctoral degree.

The holder of a B.S. and M. Admin. Ed. degrees from the University of Houston, Callihan has been teaching for seven years, the last four at Lee. He has been appointed chairman of the Science Dept. at the school for the 1958-59 school year.

Katherine and the children were planning to drive to California to meet him at the close of school to enjoy a family vacation in that area.

## 35 Years Service



J. W. Lisano  
Cat. Cracking (Refy.)

## Chem. Golfers Win Tourney

Chemical Plant golfers grabbed the top three spots both divisions of the June golf tournament.

L. W. Jennings won the handicap division first prize with four golf balls with a gross and a net 66. Toby Eschmann finished second with a net 67, and E. Saxon, a net 68 for second third spots.

In the high handicap division, J. A. Marr netted a 63 shooting a 94 gross. G. Kilgore and H. G. Sealy finished second with net 64's.

## Shell Research Improves Paints

Professional and do-it-yourself painters will benefit from a Shell Development Company research project which has led to the ideal leveling additive for latex paints.

Extensive tests at Emeryville Research Center have proved hexylene glycol, a solvent derived from petroleum, provides latex paints with superior leveling properties. In addition, the paint film is easier to clean and will stand frequent scrubbing.

For the painter this means that latex paints contain correct amounts of hexylene glycol can be applied without brush or roller marks. A further advantage over other chemical solvents is the complete lack of odor.

Tests at Emeryville indicate drying time, hardness, adhesion, power, cleansability, tensile strength and flexibility of the paint film and resistance to the paint in the can to be improved by extreme temperature changes.

**WHEN DOWN MEANS UP**

The average cost per foot to drill an oil well in 1957 was \$14... a 30% increase in ten years.

During the same period the price of gasoline increased only 13%.

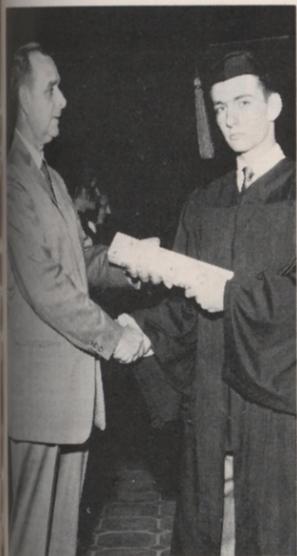
\*Based on statistics of American Association of Oil Drilling Contractors. \*\*Based on 50-City Average (Regular grade, excluding tax).

## Houston Science Students Given Texas Chemical Council Award

Representatives from the Chemical Plant recently presented Texas Chemical Council awards to four outstanding science students in Houston.

This year J. F. Roorda, Assistant Superintendent-Technical, H. A. Dufresne, Manager P & IR, and V. W. Wilson, Chief Chemist, presented the slide rule awards.

Receiving the award at Milby High School was Fernando Requeses. Fernando was graduated in the upper 10 percent of his class. At St. Thomas High School John K. Robinson with a scholastic standing of 92.2 was the recipient.



H. A. Dufresne, Manager, P & IR, presents TCC Award to John K. Robinson of St. Thomas High School.

John C. Reece of Marian High School was selected for the award. John was Valedictorian and President of the student council and student body. The award for the outstanding science student at St. Agnes Academy went to Carolyn Skebo. Carolyn was the class Valedictorian.

All high schools are requested to participate in this program which is aimed at interesting young people in a technical career. The school officials select the individual they consider to be most deserving, and to that person goes the award.

The slide rule is like a key to better things. Having received it, the student is eligible to enter an essay contest that will bring the winner a handsome financial scholarship.



J. F. Roorda, Assistant Superintendent-Technical, gives Carolyn Skebo of St. Agnes Academy TCC Award.

## Safety Catch Developed For Welder Torch Lighter

In a joint effort the Chemical Plant Welding and Tinner Shops recently designed a safety device that will assist in overcoming a long-existing safety hazard.

The problem involves the use of the welding torch spark lighters. This instrument is carried by all welders during their working day and is used to light acetylene torches. The lighter has one disadvantage—it is actually too easy to spark.

The lighter is worn on the belt where it is in easy reach when needed. Many welders admittedly have a habit of reaching down and pushing the lever on the lighter causing it to spark. Naturally such an act in a gaseous area could have its dangerous effects.

When welders enter an area for work they are given a Safety Permit that shows that tests have been made and that there are no dangerous gases present that might be set off by either the lighter or welder's torch.

There is no problem while

the welder remains in the test area. But for any number of reasons he may need to enter an untested area. Now there is a problem.

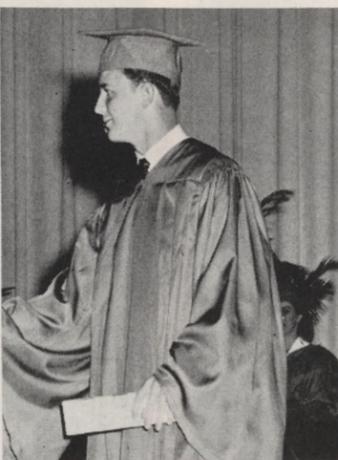
To combat this problem Otis Weaver, Welder Foreman, devised a small catch that would automatically slip down and hold the lighter open when not in use. When a welder needs to light his torch, all he need do is turn the lighter to an upright position and the catch will fall out of the way.

Weaver requested that the Tinner Shop fabricate a sample of the safety catch. H. L. Thomas, Tinner No. 1, did the work and fashioned a smooth working catch that will soon be attached to all lighters.

Statistics show that most automobile accidents cannot be blamed on poor driving conditions. For example, visibility and road conditions were good when more than 85 per cent of the fatal highway accidents occurred in the United States in 1957.



J. D. Dillard, Foreman; H. L. Thomas, Tinner No. 1, and Otis Weaver, Welder Foreman, discuss problems involving safety lighter catch. Weaver designed catch and Thomas fabricated it.



John C. Reece of Marian High School was slide rule winner.

## New Station Opening In Deer Park

All Refinery and Chemical Plant employees are invited to attend the grand opening ceremonies Aug. 15 of the new, modern Shell Service Station in Deer Park.

Located at the intersection of Center and Eighth Sts., the Station will offer the most up-to-date services along with the best gasoline that can be purchased—Super Shell and Shell. Oscar Wilson, a Deer Park resident and long-time operator of Lack's automotive supply store there, will operate the new Station.

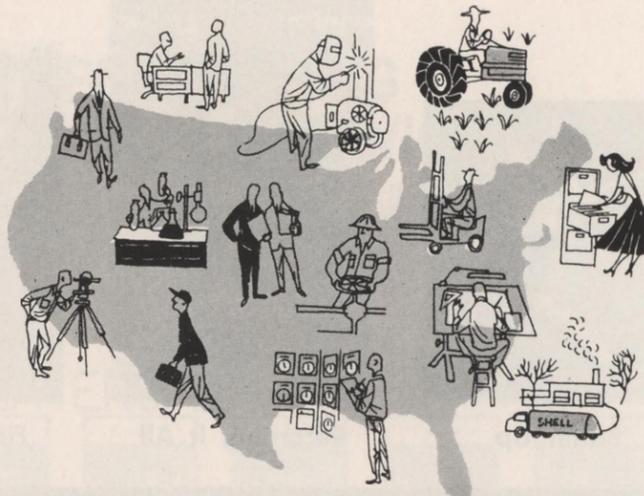
Grand opening festivities have been planned to include such major items as door prizes, and orchids for the ladies. The Station was actually scheduled to open for business about Aug. 1 with the big event slated for Aug. 15.

## Jane Leach Gets High Rainbow Post



Jane Leach has been installed as the worthy advisor in the Pasadena Assembly 93 of the Rainbow Girls. Jane is the daughter of M. O. Leach, Area Engineer at the Chemical Plant.

Jane has been active in Rainbow Girl work for about four years.



**Anacortes Refinery**—The new alkylation unit went on stream in June with a yearly capacity of 800,000 barrels of alkylate for use in aviation gasoline.

**New Orleans Area**—A. C. Dahl was named Manager of the Lafayette Production Division which was formed by combining the Lake Charles and Franklin Production Divisions. Exploration and Land Division staffs in Baton Rouge have occupied some 26 new offices in the recently-added third floor of their building.

**Indianapolis Marketing Div.**—J. C. Kelbaugh, who was Head Office Industrial Relations Representative, has been named Division Operations Manager.

**New York Marketing Div.**—The Brooklyn District was honored for making trees grow in Brooklyn. A Certificate of Commendation came from the New York Park Association for Shell's landscaping and tree planting done in conjunction with the construction of the new Brooklyn Plant and District Office building.

**Tulsa Area**—Safe driving certificates were recently presented to 473 Area employees who drove more than 5,000 miles each in a Company car during the past year. In addition, 83 of these drivers received leather billfolds for five or more years of safe driving.

**Atlanta Marketing Division**—Area Ten-And-Over parties will be held in Atlanta and Jacksonville, Fla., this year with luncheons and football games providing the entertainment for some 150 eligible employees.

**Wood River Refinery**—Construction will begin this fall on new lubricating oil facilities that will increase production of high viscosity index oil from 2,000 to 4,000 barrels a day. Completion is scheduled for mid-1959.

**Shell Pipe Line**—The new Four Corners Division office building to be known as the Los Angeles Terminal is scheduled for completion this month.

**Norco Refinery**—J. D. Walker has been named Manager of the P&IR Dept. replacing the late G. J. Bleakley. E. L. Schlesinger, who started his Shell career at the Houston Refinery and was at one time Editor of the SHELLEGRAM, will move from Head Office to Norco to become Assistant Department Manager.

**Dominguez Chemical Plant**—New isopropyl alcohol facilities are now in use. Personnel at the Chemical Plant and at the Wilmington-Dominguez Refinery recently donated 171 pints of blood to the local Red Cross blood bank.

## Who's New?

## 30 Years Service

### REFINERY

June 19—Paul, son of Mr. and Mrs. J. J. Wisnoski, Engineering Technical Services.

June 23—Mona Lisa, daughter of Mr. and Mrs. P. G. McDowell, Dispatching.

June 30—Mark, son of Mr. and Mrs. S. C. Slaymaker, Research.

July 3—Randall, son of Mr. and Mrs. H. E. Janicki, Gas.

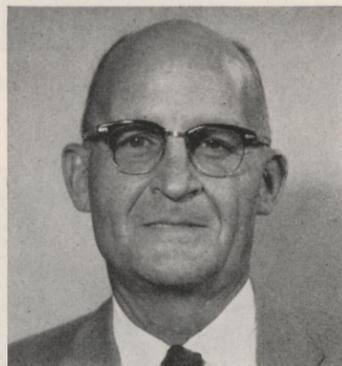
July 4—Kelly B., son of Mr. and Mrs. H. H. Reat, Refinery Lab.

July 21—Sarah Lugean, daughter of Mr. and Mrs. P. E. Slack, P&IR.

### CHEMICAL

June 17—William Hendricks, son of Mr. and Mrs. M. D. Alexander, Pipe Shop.

June 28—Thomas Edward, son of Mr. and Mrs. H. C. Boseman, Eng.-Dev.



B. H. Broughton  
Treasury (Refy.)



JAKE KOBLER, Editor  
(Refinery)

R. L. BURGET, Associate Editor  
(Chemical Plant)

Staff Photographers: Sam Davis, Al Locke

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Batter Up



Recording It All



Fish and a Hat

# Large Crowd Enjoys Annual SERA Picnic



Hayrides Are "The Most" at Any Time



A Table Full of Food and a Pool Full of Fun



Dancing, Pony Rides and Bingo Spell Fun



Good Friends and Good Harmony



A-Sailing We Will Go



A Lot of Folks Watch Some Others Live Dangerously

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motor  
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# HOUSTON REFINERY



S.S. DRAUGH

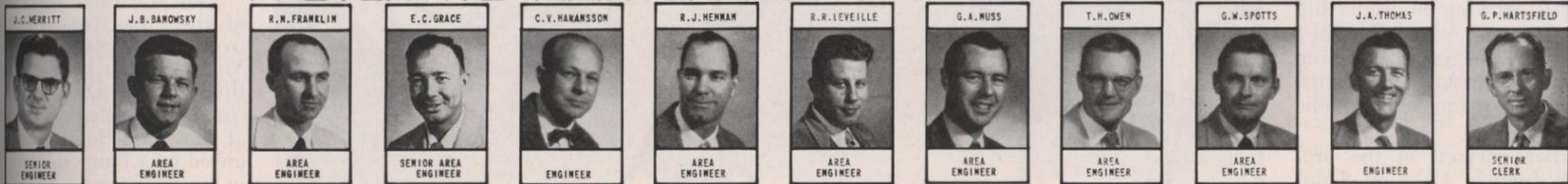
ASSISTANT CHIEF ENGINEER

# ENGINEERING TECHNICAL SERVICES

## STAFF PERSONNEL

JULY 1, 1958

### PREVENTIVE MAINTENANCE & AREA ENGINEERING



### PAINT & CATHODIC PROTECTION



### CORROSION & MATERIALS



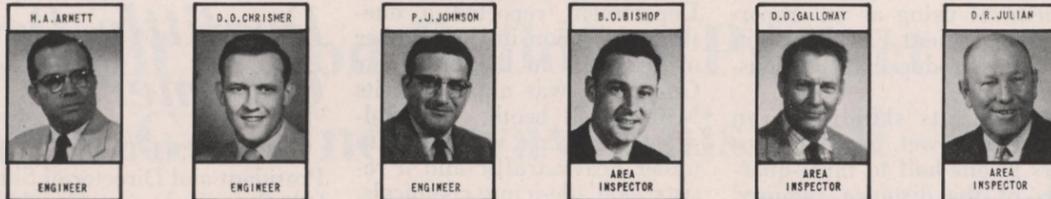
### ELECTRICAL



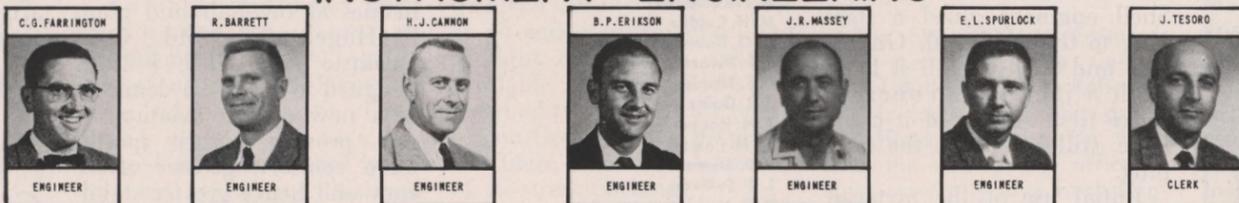
### EQUIPMENT ENGINEERS



### INSPECTION



### INSTRUMENT ENGINEERING



### ENGINEERS IN TRAINING PROGRAM



## Lube Oil Sales Campaign Set for X-100 Premium

Shell Oil Company launches a new advertising campaign this month to promote sales of X-100® Premium.

The campaign, coinciding with a sales promotion program for Shell dealers, aims at capitalizing on a large potential for motor oil sales which was highlighted by a nationwide survey of cars driving into Shell service stations. The survey revealed that 54 per cent of all cars are using motor oil that should be changed.

The statement, "One out of two cars needs an oil change now," will be a key point in the advertising and sales promotion campaign. Full-page, four-color ads are scheduled to appear in *Reader's Digest*, *The Saturday Evening Post*, *Life*, *Look* and *Sunset* magazines. In addition, the campaign will make use of outdoor billboards, radio and television.

Shell dealers are being asked to advise motorists on the recommended intervals to

change oil in an engine. For best results oil should be changed every 500 miles for dusty or cold weather driving; 1,000 miles for city and suburban driving, and 2,000 for highway driving.

If oil is not changed at regular, recommended intervals, this is what happens:

- 1—Engine wear increases because the oil loses its alkalinity and therefore its ability to combat acid action.
- 2—The oil loses its ability to pick up and carry along dirt particles as it flows through the engine, resulting in a build-up of sludge.
- 3—The oil becomes increas-

ingly contaminated with carbon, dirt and particles of metal. These contaminants act as abrasives, causing engine damage.

Advertising copy will tell how the motorist benefits when X-100 Premium is used. Major points which will be made are that X-100 Premium:

- 1—Saves gasoline wasted in pushing thick, heavy oil around during engine warm up.
- 2—Stops acid action, the major cause of engine wear.
- 3—Saves your engine—does not thin out dangerously when hot.
- 4—Quiets valve lifter noise, prevents valve lifter sticking.
- 5—Saves repair bills.

## 20 Years Service



A. J. Wood Admin. (Refy.)

## Refinery Men Take Training

Ten Refinery men recently completed the Professional Employees Development Course conducted by the Employee Communications Section.

The week-long course is held for senior professional employees to give them advanced training in leadership and human relations. They also get theoretical training and actual practice in discussion leadership and public speaking.

Other portions of the program include talks on Company history and policies and on subjects relating directly to the Refinery.

Those completing the latest course are F. H. Greenwood, E&S; L. C. Tuggle, Eng.-Office; J. A. Thomas and T. E. Lackey, Eng.-Services; V. E. Lehmborg, Lube; R. G. Eveld, Refinery Lab; K. G. Arabian, E. G. Carlson and R. Y. Seaber, Research, and K. F. Marr, Treasury.

## Big Oil Change Takes 2 Days

An oil change of giant proportion, involving 8,000 gallons of Shell transformer oil, took place recently at Columbia University's Nevis Cyclotron Laboratory, located at Irvington-On-Hudson, N. Y.

For the first time since 1948, the oil used to cool the 400,000,000-electron-volt cyclotron was replaced during a general overhaul of the instrument. Two days were required to pump the oil, Shell DIALA® Oil AX, through a series of filters and into the coil tank of the cyclotron's electro-magnet.

The Shell product, which is manufactured at the Martinez Refinery, is particularly suited for this application because of specific cooling and non-corrosive properties.

Scientists at the University estimated that the energy absorbed by the oil during the last 10 years could have sent a rocket ship to the moon. As it was, the heat was dissipated in the Hudson river.



Refinery employees who recently completed a training course for senior professional personnel are (l. to r. seated) Ken Marr, Kerry Arabian, Jim Thomas, Bob Eveld, Ted Lackey, Fred Greenwood, Gus Carlson, Layton Tuggle, Virgil Lehmborg and Russ Seaber. Standing are Bob Maddux, Supervisor of Employee Communications, and Homer Smith, Training Representative.

## Epoxy Resins Used To Surface Highways

A new safety pavement made of plastic has been demonstrated on the heavily traveled San Francisco-Oakland Bay Bridge. The plastic adhesive called Guardkote Paving Resin was developed by Shell Chemical using as an important ingredient EPON® Resin which is produced at the Houston Plant.

It inhibits skidding even when it is wet. And it stops cars in one-half to three-quarters of the distance required by cars stopping on concrete. Experiments with a similar material were carried out on small areas of the Houston Plant streets. It is poured on a conventional road surface—either concrete or asphalt—and covered with grit as it begins to harden. The result is a thin, sand-line coating stuck firmly to the road.

In a demonstration on the material's adhesive strength, a Shell engineer glued a steel plug to the road with Guardkote and tried to pull it loose with a jack. The concrete broke first. A slug of it came loose, still bonded to the steel plug.

Initial use of the material will probably be at toll booths and on dangerous grades and curves where traffic has worn road surfaces smooth and made them slick with oil.

There are 15 test strips of Guardkote Paving Resin on highways and bridges in various sections of the country.

Most are in heavily traveled locations such as the New Jersey Turnpike, Connecticut's Wilbur Cross Parkway and the Triboro Bridge in New York City.

The Connecticut Highway Department reported a one-third reduction in the number of accidents in the first year Guardkote was applied at its Milford toll booth. The skid-proofing surface will stand up under heavy traffic and it resists acid, de-icing chemicals, oil and other chemicals that erode concrete.

Guardkote grew out of Shell Chemical's research in EPON® Resin which led to a cooperative road surfacing program with Reliance Steel Products Company, McKeesport, Pa.

## New Employees

### CHEMICAL ENGINEERING

Bobbie Jean Conner, Clerk  
ENGINEERING-DEVELOPMENT  
J. T. M. Oldenburg, Engineer  
LABORATORY Chemists

K. O. Brenton  
D. T. Campbell  
M. H. Colditz  
D. O. Dawson  
J. E. Dwarsky  
R. F. Fleming  
J. R. Goins  
T. N. Hooper  
G. M. Powers  
L. D. Siemers  
L. B. Sullivan  
D. R. Verhines

### RESEARCH

R. T. Dawd, Chemist  
REFINERY

Stephen H. Levin, Res. Chem.  
Agnes C. Taylor, Key Pnch. Op.  
Shirley R. Dipboye, Steno.

### RETURNED FROM MILITARY LEAVE

Joseph M. Coman, Res. Eng.  
Milton Manis, Tech.

## Doolittle Dedicates First Commercial Turboprop

Lt. Gen. J. H. Doolittle, Vice President and Director of Shell Oil Company, recently dedicated the first American built turboprop aircraft to be delivered to a commercial airline.

The aircraft, Fairchild Engine and Airplane Corporation's 40-passenger medium range F-27 transport, is the first of six F-27's which West Coast Airlines will put into regularly scheduled service in September.

Speaking at dedication ceremonies at the Fairchild plant in Hagerstown, Md., Gen. Doolittle said: "The F-27 is designed to meet the demands of a new era in aviation. It will provide higher speeds, more comfort, greater efficiency and hence greater stability for operators in the local service field."

Gen. Doolittle noted that the F-27 is the first new plane built for local service operations since the DC-3 was introduced nearly 25 years ago. He termed the F-27, which like the DC-3 extends to military and corporate flying, "important progress."

Shell Oil Company is the exclusive supplier of turbine fuels to West Coast Airlines. An estimated 5,500,000 gallons of Shell 640 Kerosene will be consumed annually by the airline.

## Cogan's Sons Are Doctors

In the home of M. H. Cogan the answer to the question, "Is there a doctor in the house?" would be "yes, there is." Cogan, who is Assistant Chief Engineer at the Chemical Plant has two sons, one a doctor of medicine and the other a doctor of dentistry.

John E. Cogan, the younger of the two, was graduated from the Texas University Medical Branch in Galveston this spring. Dr. Cogan will come to Houston for one year at Hermann Hospital to be followed by a four-year residence in general surgery at that hospital.

Myles I. Cogan, a Doctor of Dental Surgery, completed a post graduate course at the University of Michigan this spring, with a Master's degree in public health and will come to Houston to open a practice in general dentistry.

It takes about 150 days of drilling time to sink an oil well below 15,000 feet.

## Bag Made From Curbs Litterbuggin

Special facilities have been installed by Shell for fueling the new turboprops at Seattle, Yakima, Walla Walla, Spokane, Wash.; Idaho Falls, Lewiston and Boise, Idaho; Portland, Klamath Falls, Eugene, Ore. The fueling systems for the F-27 airliners are similar to others Shell has installed at airports where turbine-powered aircraft are serviced. Because the instruments in turbine engines are supersensitive to contamination, special precautions are taken to assure the quality of the fuel.

## Curbs Litterbuggin

Fine for litterbugs—a stiff one, says the law in many states. But the motorist can avoid being "bagged" for littering if he takes along his litterbag. News in travel wastebaskets is a neat, useful bag made of oil-based plastic. Twin sets of rings make it easy to snap the bag onto an instrument panel, window crank, or robe rail. And the snap open just as easily as the trash can be emptied at the side litterbaskets.

## 15 Years Service



H. F. Cowart  
Eng.-Field (Refy.)



C. W. DeLong  
Eng. (Chem.)



C. L. Harlow  
Eng.-Field (Chem.)



A. P. Jackson  
Eng.-Field (Refy.)



J. R. Lamb  
P&IR (Refy.)



W. L. Machala  
Stores (Refy.)



J. R. Nelson  
Eng.-Field (Chem.)



F. H. Parker  
P&IR (Chem.)



H. R. Smith  
Eng.-Field (Chem.)



J. J. Templet  
Eng.-Field (Refy.)



S. D. Terry  
Eng.-Field (Refy.)



C. F. Williams  
Eng.-Field (Refy.)

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