



REVIEW

Wood River, Illinois

Vol. 27 No. 8 Nov.-Dec. 1964

Ramsey, Holzman in Senior Staff Moves

J. D. Ramsey, Process Superintendent in charge of the Utilities, Aromatics, Compounding and Lubricating Oils Departments at Wood River Refinery since April, 1963, has been named Chief Engineer at the Houston Refinery, according to an announcement by Refinery Manager A. C. Hogge.

Hogge said George Holzman, Manager Aromatics, would succeed Ramsey as Process Superintendent, and R. D. Mullineaux would transfer to Wood River from Shell's Wilmington-Dominguez, Calif., Refinery to replace Holzman.

Ramsey formerly served at the Houston Refinery, as Manager of the Engineering Field Department. He joined the Company in March, 1947, at Wood River, became a Senior Engineer at the Norco,

La., Refinery in 1952, and was named Manager of the Utilities Department there in 1954. He was Special Engineer in charge of the platforming construction program there from July, 1956, to August, 1958, when he became Manager of the Aromatics Department.

Ramsey was transferred to Houston as Manager Engineering Field in March, 1960, and went to Head Office in September, 1961, to become Assistant Manager of the Manufacturing Engineering Department, the position he held until his transfer here.



Mullineaux



Holzman



Ramsey

Holzman came to Wood River from Shell Development Company's Emeryville, Calif., Research Center in 1948, and also served in Shell's Head Office Manufacturing Research Department before coming to Wood River. He was named Manager Aromatics in March, 1964.

Mullineaux also joined Shell at the Emeryville Research Center, in September, 1951, after receiving a doctor's degree in organic chemistry from the University of Wisconsin. He was on a special training assignment at the Houston Refinery (Continued on Page 4)

Net Income Is Up In Third Quarter

Shell Oil Company had consolidated net income in the third quarter of 1964 of \$48,446,000, amounting to 80 cents a share, an increase of 13 per cent over the \$43,022,000, or 71 cents a share, earned in the third quarter of 1963, Monroe E. Spaght, President, announced October 21.

This was the highest third quarter income reported in the history of the Company, Mr. Spaght noted.

Consolidated net income for the first nine months of 1964 was also a record at \$144,006,000, or \$2.38 a share, a gain of eight per cent over the \$133,943,000, or \$2.21 a share, reported for the comparable period last year.

Mr. Spaght said the increase in earnings had been achieved despite the lowest gasoline prices in over a decade and credited the gains primarily to Shell's continued growth in all areas of the Company's activities.

Reflecting confidence in the future of the petroleum industry, Shell's capital expenditures for the nine months were nearly double those for the same period in 1963, Mr. Spaght reported. A high level of capital expenditures is expected to continue into next year.

Volumes and revenues for the first nine months of 1964 exceeded those for the corresponding 1963 period by sizable amounts. Gross production of crude oil and natural gas liquids amounted to 127,173,000 barrels, up three per cent; gross production of natural gas, 496,151 million cubic feet, up 10 per cent; and refinery intakes, 181,494,000 barrels, up seven per cent.

Refined product sales volume rose nine per cent to 209,494,000 barrels, mainly as a result of larger automotive gasoline sales. This increase, along with higher sales volumes in chemicals and natural gas, contributed to a nine percentage rise in revenues to \$2,034,580,000.

Employees, Company Give \$38,000 to United Funds

Area United Fund organizations will receive more than \$38,000 this year in contributions from Wood River Refinery employees and the Shell Companies Foundation, Inc.

Refinery employees contributed more than \$19,600 in a week-long campaign held at the Refinery October 12-16, and the Shell Companies Foundation contributed \$18,750 to United Funds in September as part of Shell's support of charitable endeavors in the area.

J. W. Askins, Manager Utilities and chairman of the 1964

Refinery campaign, reported some contributions still were expected from a few employees on vacation or sick during the drive. Their contributions will increase the total to an even greater figure.

The total contribution this year exceeded that of 1963 by more than 26 per cent. Preliminary figures show staff employees contributed \$15,100, Engineering Field hourly employees gave \$2,250 and Operations hourly employees, \$2,250.

The Alton-Wood River Area United Fund will receive the bulk of the employee contributions, \$13,000. The balance will go to Edwardsville, St. Louis or other United Fund agencies in the area.

Of the Shell Companies Foundation contribution, \$16,500 will go to the Alton-Wood River area United Fund, and the balance will go to the Edwardsville-Glen Carbon United Fund.

Excellent percentage participation figures were reported for several departments and

(Continued on Page 2)

(Continued on Page 3)

Shell Family Christmas Party Is Set for Thursday, December 10

It's time again to think about Christmas. And while you're thinking about it, make plans now to attend the traditional Shell Family Christmas Party Thursday evening, December 10. It's an event you and members of your family won't want to miss.

The party will be at the East

Alton-Wood River Community High School Memorial Gymnasium. Doors will open at 6 p.m., and musical entertainment begins at 6:30. The evening's program will end at an early hour in order not to keep the children up too late.

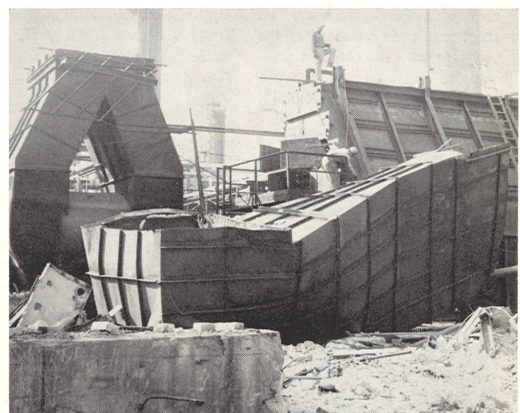
However, the early hour will (Continued on Page 2)

Two New Units to Be Built at Wood River

Construction of two new Refinery units will begin in a few weeks in the largest construction program at Wood River Refinery since Catalytic Reformer No. 3 and the Hydrodesulfurizer were built in 1960-61.

The new units, a large alkylation plant and a catalytic cracker feed hydrotreater, will be built on the Polymerization and Toluene 2 plant sites, respectively. Site clearance work is under way, and the construction contract has been awarded to Procon Incorporated, Des Plaines, Ill. Both units are scheduled to be brought on stream in late 1965.

The new alkylation plant will be one of the largest of its kind in the world and will employ the latest processing concepts in the production of 17,000 barrels per day of high octane alkylate for aviation and motor gasoline. Alkylate from 10 large reactors will be recovered (Continued on Page 5)



SITE CLEARANCE WORK is under way at the site of Toluene 2, where the new Cat Cracker Feed Hydrotreater is to be built. In the above view, the furnaces of the old unit are being dismantled. Another Refinery area being cleared is the Poly Plant site, where a new alkylation plant is to be built. Both new units are scheduled to be brought on the Refinery stream in late 1965.



As we near the close of another busy year at Wood River Refinery, my family and I hope that the peace and happiness of Christmas will be yours every day throughout the coming New Year.

A. C. Hogge

Refinery Employees Donate 318 Pints of Blood

Wood River Refinery employees contributed 318 pints of blood to the American Red Cross November 17-19, during a three day visit of the Bloodmobile to the Roxana Community Center. The Red Cross reported 320 units were collected during the visit.

A total of 338 employees went to the Community Center and offered to donate blood during the three-day period. Last year, 305 employees offered blood.

There were 128 employees reporting to the Community Cen-

ter on Tuesday, November 17; 119 on Wednesday, November 18; and 91 on Thursday, November 19. Hours of operation were varied from day to day in order to provide an opportunity for employees on all shifts to donate. The Bloodmobile was open until 6 p.m. on November 17 to accommodate 4 x 12 workers, and operations began at 8 a.m. November 19 to accommodate 12 x 8 workers wanting to give blood before going home from work.

As in past years, employees

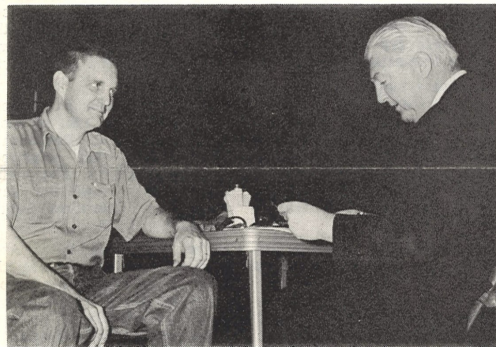
who could be spared from their jobs were given time off work to make blood donations without loss in wages. Transportation was provided between the Refinery and Community Center.

Participation in the Red Cross Blood Program entitles all employees and members of their immediate families to Red Cross blood whenever and wherever needed. You do not need to worry about replacing blood or securing donors if hospitalized locally, since all local hospitals obtain blood through the Red Cross Blood Program. If you are hospitalized anywhere else and need blood, you should contact the Red Cross office so that blood can be made available to you.

The value of the American Red Cross Blood Program cannot be measured. Blood given at Bloodmobile visits such as the one held last month has saved countless lives during illness and after injury. For example, one retired Refinery employee recovering from a lengthy illness reported he had received 36 pints of Red Cross blood in the past 12 months.



A PINT OF WHOLE BLOOD, ready for use in any emergency, is held by American Red Cross Nurse Donna Walla, as Shell Insulator B. C. Gibbons buttons his shirt sleeve and prepares to leave. Gibbons was one of 318 Refinery employees contributing to the Bloodmobile and one of 11 Insulators offering to give blood.



FINAL APPROVAL for prospective donors to give blood came from the physician on duty at the Community Center. In the above photos, the Refinery's Dr. T. J. Kelly gives the okay to M. E. Rogers, Carpenters, (top) and W. D. Johnson, Compounding (lower photo). Dr. Kelly was one of several area physicians volunteering their assistance for the Bloodmobile operations.



EARLY MORNING DONORS were these two Dispatching Department employees, E. A. Nolan and J. C. Crim, who came to the Community Center at 8 a.m. Thursday, November 19, after working the 12 x 8 shift and before going home. The Red Cross nurse is checking and recording their temperatures in this photograph.



CHECKING IN at the Community Center to make his blood donation is Laborer A. M. Kline. The young lady with her back to the camera is Mary Ann Pruetzel, Personnel and Industrial Relations. In the photo below, Mary Ann greets W. A. Miller, Engineering Office; and W. C. Love, Refinery Lab.

Shell Family Christmas Party Is Set for Thursday, December 10

(Continued From Page 1)

not be a deterrent to Santa Claus, who will climax the evening with an appearance on stage and short visits after the program with the children present. He will assist in the distribution of Christmas candies and oranges.

Music will be provided by Russ David and his combo, which includes the ever popu-



The Varju Brothers

lar banjo and guitar player Joe Schirmer. David also will bring with him this year 13-year-old Anita Colombo, who sang as Becky Thatcher in the St. Louis Municipal Opera presentation of Tom Sawyer this past summer.

The stage performance will be geared to entertain adults and children alike. One of the acts will be the Varju Brothers, slapstick comedians billed as the two musical maniacs. They play harmonicas ranging from one inch to 30 inches long. Other acts will include Harry Todd and the Toddlers, a family tap dancing and acrobatic act; and the Claytons, popular trio presenting Australian whip cracking and fancy rope spinning acts.

Motorcycles? Gee Whiz, Mr. Dillon!

Word has just arrived from Dodge City, Kansas, that cowboys in those parts are trading in their horses for motorcycles. The reasons they give are two, and both make horse sense. The first is that it costs as much as

Shell Sponsors 'CBS Reports' On Television

"CBS Reports," an award-winning public affairs television program, is being co-sponsored this fall by Shell.

The program in past years has been the recipient of the Saturday Review advertising awards, the George Foster Peabody Award, and the Gavel Award of the American Bar Association.

The network show, which is telecast in most cities on Wednesday nights, features commercials advertising Super Shell gasoline. Both one- and two-minute "spot" commercials will be used. KMOX-TV Channel 4 is the CBS Network station in the St. Louis area.

\$12 a week to feed a horse, what with hay costing \$35 a ton. The second is that motorcycles suitable for cattle trails run for a week on gasoline costing \$1.50. At 30 cents a gallon, even Marshall Dillon can't go wrong.



Shell Review

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39 Miles Per Gallon Is Tops in Marathon



COMPUTING MILES PER GALLON at the completion of the Marathon is G. E. Bahlmann, seated, with the slide rule. Looking over his shoulder are Bill Glaser, Don Bailey, E. A. Brown, Irv Rozalsky, Al Lince and Tony Galletta, all of Research Lab.

It was a race against the slide rule Saturday, October 10, when 33 Wood River Research Laboratory employees embarked on the latest of their widely known Mileage Marathons.

The winners weren't the first to finish, but those who finished the 65.5-mile Marathon course in the required time (105 minutes) with the best gasoline consumption records. In fact, contestants were penalized for being early or late. Thus, additional driving skill was necessary in order to average just slightly more than 37 miles per hour over the course through both urban and rural areas.

The 31 automobiles and two motorcycles competing were divided into four classes, according to engine size. Class A was for vehicles with four cylinder engines or smaller; cars with six cylinder engines were in Class B; Class C was for vehicles with eight cylinder engines smaller than 320 cubic inches; and Class D was for vehicles with still larger engines.

G. E. Bahlmann, Research

Engineer, was Class A winner, averaging 38.91 miles per gallon in a 1958 model Triumph TR-3. Lab Assistant G. P. McLain won the Class B title, averaging 39.13 miles per gallon in his 1960 Ford Falcon. His miles-per-gallon record was the best of the day for automobiles. Assistant Chief Research Chemist E. R. Lane was winner in C Class. His 1950 Ford with overdrive averaged 28.85 miles per gallon.

And in Class D, Research Engineer E. A. Brown captured the title, averaging 18.08 miles per gallon in a 1942 Packard hearse weighing nearly three tons.

Vehicle weight was another factor considered in the Marathon, since the Researchers carried their computations one step further to determine ton miles per gallon - the number of miles a gallon of gasoline carried a ton. The hearse, at 5,980 pounds, averaged 54.1 ton miles per gallon. Bahlmann's vehicle, weighing only 2,500 pounds, averaged only 47.8 ton miles per gallon. The McLain

Falcon, weighing in at 2,980 pounds, averaged 58.3 ton miles per gallon, and Lane's Ford, at 3,980 pounds, averaged 57.1 ton miles per gallon.

Competing vehicles were weighed at the Refinery's South Gate, and then began the Marathon from the Research Garage after other pre-race preparations were made. The Marathon ended on Kendall Hill, where contestants and their families enjoyed a picnic, climaxed by the awarding of trophies to the Marathon winners.

The Marathon was sponsored by the Research Lab Club, and arrangements were made by committees under the general chairmanship of C. A. Towne and Lab Club President Don Haig. Officials for the Marathon included J. W. Armstrong, H. J. Foster and K. C. Crawford. On the picnic committee were J. G. Damrath and F. L. Starbuck. In charge of arrangements for food were D. W. Williams, J. L. M. Chiolero, Haig and Damrath. G. J. Reinis was in charge of arrangements for children's games.



MILEAGE MARATHON WINNERS received their trophies from Lab Club representative C. A. Towne, shown in the photo at left presenting the trophy for winning in Class B to G. P. McLain. Watching the presentation are A. D. Bazzarone and S. A. Martin. In the small photos above, at left is Class A winner G. E. Bahlmann; in the center is Class C winner E. R. Lane and Mrs. Lane; and at right is Class D winner E. A. Brown, who drove a hearse in the marathon, and his wife.

Employees, Company Give \$38,000 to Charity

(Continued From Page 1)
crafts. One hundred per cent participation was reported for staff employees of 15 departments, with several other departments expected to reach 100

per cent upon the return of employees from vacation or illness.

Top percentage participation figures for Engineering Field hourly crafts came from the Painters (92 per cent), Carpenters (88 per cent), Brickmasons (83 per cent) and Instrument Men (82 per cent). The top percentage participation figures reported by operating department hourly employees were 67 per cent in Cracking and 60 per cent in Compounding.

Chairman Askins and the steering committee for the Refinery campaign, speaking for the many charitable organizations which will benefit from the drive, expressed their thanks to all who took part, including

employees who participated in planning and conducting the Refinery drive, and each person who contributed.

Serving with Askins on the steering committee this year were R. L. Elliott, Engineering Field, representing the 10 craft unions; A. M. Peccola, Engineering Field, representing the International Association of Machinists; H. L. Rice, Refinery Laboratory, representing the International Union of Operating Engineers; J. S. Wilwerding and C. E. Reichert, Treasury; C. L. Baker and M. S. Waller, Engineering; J. S. Brien and C. A. Davidson, Personnel and Industrial Relations; and V. E. Yust, Research Laboratory.



FREE ENTERPRISE DAY was observed in the Alton-Wood River area October 5, with area industries participating by placing displays in business district store windows that week in observance of the event, sponsored by the Greater Alton Association of Commerce. Shell's exhibit, photographically relating the growth of Wood River Refinery since its construction in 1918, was on display in the Young Dry Goods Company department store window on Third Street in Alton. The display, shown above, was viewed by many shoppers during the week-long observance.

31 Golf Films Are Available in Shell Libraries

New 16 millimeter sound motion pictures of the 1964 series of "Shell's Wonderful World of Golf" now are available at Shell film libraries.

A total of 31 matches now are on film from the 1962-63-64 series. So far, films from the first two golf series have been shown more than 11,000 times to more than 573,000 people, in addition to the audiences which saw the series on television.

The 31 matches were filmed in 25 different countries of the world.

A list of the films is available at the Personnel and Industrial Relations Department, and the films may be ordered from the Shell Film Library in Indianapolis.

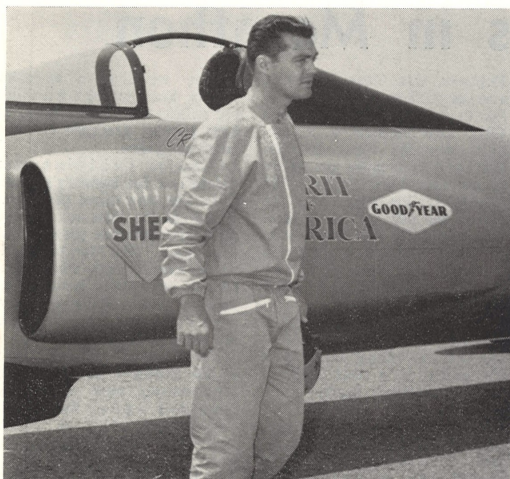
Retirements



C. R. Dillow
Utilities

C. E. Helm
Eng. Field

F. D. Nessl
Lube Oils



526 MILES PER HOUR WASN'T ENOUGH to be world land speed record for very long. Craig Breedlove, 27-year-old Californian shown here with his jet-powered vehicle, "Spirit of America," established the 526.28 miles per hour record on October 15, and escaped injury when his vehicle went out of control. However, the record stood for only a little more than a week before another jet-powered vehicle raced across the Salt Flats at Bonneville, Utah, at a speed of 536 miles per hour. Shell is the primary sponsor of Breedlove's speed efforts, and the special turbine fuel powering the jet car is manufactured at Wood River Refinery.

Engineering Staff Changes Are Announced at Refinery

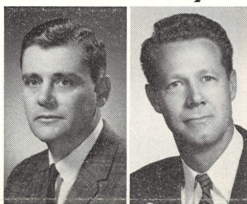
F. W. Rood, Manager Engineering Office at Wood River since June, 1957, was transferred to the Head Office Manufacturing Engineering Department October 1, according to an announcement by Refinery Manager A. C. Hogge. Rood is serving as Assistant Manager of the Head Office department.

He succeeded at Wood River by Hugh M. Kiefer, who formerly was Manager Engineering Field at the Houston Refinery. Kiefer previously served at Wood River, from 1946 to 1951.

Rood came to Wood River from New York in 1956. He began his Shell career at Wilmington-Dominguez Refinery in 1945.

Kiefer began his Shell career at Wood River, and was transferred to Norco Refinery in 1951. He was Manager Engineering Services there from 1958 to 1961, when he was transferred to Houston.

In other Engineering Staff changes announced by Refinery Manager Hogge, M. S. Waller, Assistant Manager Engineering Field, was named Assistant Manager Engineering Office replacing R. J. Swofford, who also was transferred to Head Office October 1.



Kiefer Rood

J. L. Schell, also Assistant Manager Engineering Field, was named Assistant Manager Engineering Services, replacing D. F. Nisbet, who was transferred to the Martinez, Calif., Refinery in July.

N. E. Bruce, formerly Assistant Manager Engineering Office at the Anacortes Refinery, was transferred to Wood River November 16, as Assistant Manager (Mechanical) in the Engineering Services Department.

Bruce, an engineering graduate of the University of Kansas, began his Shell career at the Wilmington Refinery. He was transferred to the San Francisco Office of the Head Office Manufacturing Engineering Department in January, 1954, and then to Anacortes Refinery in September of that year.

requires a continuing program of service station construction by Shell. The Company's newer outlets are generally larger, more attractive — and more expensive — than the stations they replace. Also, their greater efficiency means proportionately fewer stations will be needed to take care of the 88 million passenger cars expected to be registered in the U. S. each year by 1973. This year's car registration figure is expected to be about 70 million.

Nationally, service stations are among the nation's leading small businesses. There are some 200,000 primary service stations in the United States and about 96 per cent of them are operated by independent businessmen.

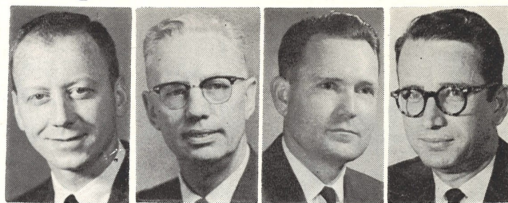
Between 1953 and 1963, total service station sales nearly doubled, jumping from \$10.5 billion in 1953 to \$19.4 billion last year.

Department Manager Moves Announced

L. J. Tichacek, Manager of Wood River Refinery's Thermal Cracking Department since February, 1953, is being transferred to the Company's Head Office in New York, according to an announcement by Refinery Manager A. C. Hogge.

In New York, Tichacek will serve as Assistant Manager of the Manufacturing Technological Department, filling a position formerly held by P. C. Bradford, who previously served at Wood River.

Hogge also announced that H. J. Leamy, Manager Dispatching, would replace Tichacek as Manager Thermal Cracking. Utilities Department Manager J. W. Askins will replace Leamy in the Dispatching Department,



Tichacek Leamy Askins Hymel

and M. A. Hymel, Assistant Chief Research Engineer, will succeed Askins.

Tichacek came to Wood River from Norco Refinery where he had served as Assistant Manager of the Catalytic Cracking and Distilling Departments, and

previously in technological positions in the Gas and Technological Departments. He joined the Company at Shell Development Company's Emeryville Research Center as an Engineer in 1955, and transferred to Norco in 1959.

Hymel joined Shell at Norco in 1947, and served in Engineering and Technological positions there. He was transferred to Head Office in 1959, and served there in the Technological and Manufacturing Operations Departments. He became Assistant Chief Research Engineer at Wood River in July, 1963.

Leeds Takes Martinez Post; Papadopoulos Comes Here

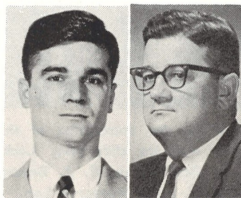
T. F. Leeds, Manager Alkylation, has been named to a newly created Department Manager position at Shell's Martinez, Calif., Refinery, to be effective after the first of the year.

Refinery Manager A. C. Hogge has announced that M. N. Papadopoulos would transfer to Wood River from Norco Refinery to replace Leeds.

Leeds' position at Martinez will involve management of about half of the new process units currently under construction there.

Leeds joined Shell at Wood River as a Junior Technologist, Technological Department, in 1943. He has served in the Light Oil Treating, Alkylation and Gas Departments as a Technologist, and has been Assistant Manager and Manager of the Lubricating Oils and Alkylation Departments, serving as Manager of the latter since January, 1963.

Papadopoulos, who has been serving as Assistant Manager



Papadopoulos Leeds

of Norco's Catalytic Cracking Department, began his Shell career as a Chemist at Shell Development Company's Emeryville Research Center in 1954. He was transferred to Norco in December, 1961, as a Senior Technologist in the Gas Department, later assuming his present position in Catalytic Cracking.

Behrens Named Group Leader In Technological

M. A. Behrens, Jr., Technologist, Technological Department, has been appointed to the position of Group Leader, Cracking Group, Technological Department, according to an announcement by Refinery Manager A. C. Hogge. The appointment was effective November 16, 1964.

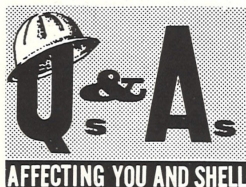
Research Lab Staff Changes Are Announced

Recent personnel changes in Research Laboratory were precipitated by the promotion of M. A. Hymel to the position of Manager Utilities, and the transfer of Group Leader J. L. Bame to the Company's Products Application Department Southern Region Office at Atlanta, Georgia.

Refinery Manager A. C. Hogge announced November 18, that F. J. Cordera had been promoted to the position of Assistant Chief Research Engineer, replacing Hymel.

L. B. Graiff, Group Leader—Engine Fuels Deposition and Combustion, was named to succeed Bame, who was Group Leader—Engine Fuels Antiknock and Performance.

S. R. Sprague, Senior Research Engineer, was named Group Leader—Engine Lubricants, replacing Cordera; and C. E. Legate, Senior Research Chemist has been named Group Leader—Engine Fuels Deposition and Combustion, replacing Graiff.



Q. What does a new Shell service station mean to the average American community?

A. In terms of dollars and cents, according to one estimate, the average new Shell service station adds about \$15,000 a year in wages and \$20,000 in locally purchased materials and services to an area's economy.

In addition, a typical Shell service station annually collects an estimated \$30,000 in state and federal gasoline taxes.

Keeping pace with new highway building and with the steady increases in the number of drivers and motor vehicles



Mr. and Mrs. J. B. Maynard, twins, a son, Jeffrey, and a daughter, Betsy Ann. Maynard is a Research Chemist, Research Laboratory.

Mr. and Mrs. C. A. Towne, a daughter, Janice Elaine. Towne is a Research Engineer, Research Laboratory.

Mr. and Mrs. D. A. Leady, a daughter, Monica Ann. Leady is a Boilermaker Helper, Engineering Field.

Mr. and Mrs. R. M. Kembal-Cook, a son, Brook Stephen. Kembal-Cook is Assistant Manager, Lubricating Oils.

Mr. and Mrs. R. C. Imhoff, a son, Anthony Lyndon. Imhoff is a Technologist, Catalytic Cracking.

Mr. and Mrs. S. A. Rinaldi a son, David Sergius. Rinaldi is a Technologist, Technological Department.



GRAND PRIZE WINNERS in the Shell Recreation Association's annual fishing contest are shown here with their winning catches. At left is crappie division winner H. L. Wagenblast, Compounding; in the center is bass winner L. D. Skeldon, Cracking; and at right is the winner in the bluegill division, E. L. Allen, Dispatching. Looking on are Q. M. Nungesser, Fire and Safety, chairman of the SRA fishing contest, and J. A. Hmurovich, Painters, president of the 16-member SRA Board of Governors.

Researchers Compete in 'Chess by Mail'



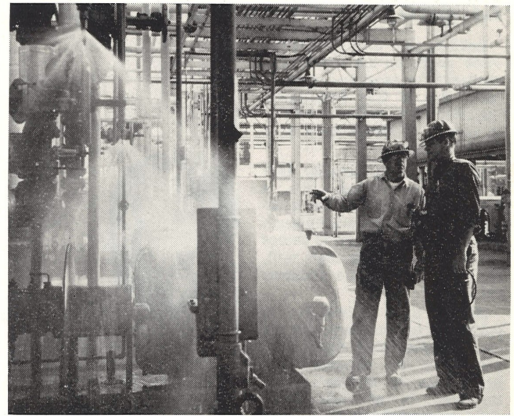
PLOTTING THEIR NEXT MOVE, these four members of a Research Laboratory chess team are considering their next move in a long-distance chess game against a team from The Netherlands. The team is one of many in a world wide Shell chess tourney. From the left are T. J. Akers, J. E. Lauck, E. Wittner and K. T. Wendler. Two other Researchers are on another such team.

Chess by mail, in an international tournament, is a new hobby with six Research Laboratory employees. The tourney is between teams throughout the world at locations of the Royal Dutch/Shell Group of Companies.

A two-man Research team, consisting of J. D. Metcalfe, Senior Research Chemist; and D. E. Poling, Senior Lab Assistant, has won four matches in which it has competed in recent months, and with the mail service to the far corners of the earth being somewhat irregular, there is considerable time involved in the completion of a match.

Metcalfe and Poling currently are involved in matches with Hamburg, West Germany, and Southern Rhodesia. They have won matches with teams in Singapore, Sweden, Birlinghoven, West Germany, and the Los Angeles Marketing Division.

A four man team includes Senior Research Chemist T. J. Akers, Research Chemists K. T. Wendler and E. Wittner, and Senior Lab Assistant J. E. Lauck. They have lost matches with Rijswijk and Rotterdam of The Netherlands, and currently are involved in games with teams from Amsterdam (Netherlands) and Emeryville, Calif.



FIRE EQUIPMENT TESTING is carried on periodically throughout the Refinery in order for it to be ready if necessary. Sprinkler systems, such as this one over a pump at the Distillate Hydrotreater, are tested semi-annually. Aromatics Operator W. L. Grandfield and Fire and Safety Inspector E. H. Anderson are shown checking the results of the sprinkler test in the above photo.

Two New Units for Wood River

(Continued From Page 1)
 ed in a deisobutanizer 18 feet in diameter and 200 feet tall.

The catalytic cracker feed hydrotreater will treat 25,000 barrels per day of catalytic cracker feed at high temperature and pressure in the presence of hydrogen, in a process similar to that of the Refinery's Distillate Hydrotreater. Hydrogen treating will reduce coke formation in the Catalytic Crackers, resulting in increased yields of gas and gasoline. The additional gas production will provide an increased volume of olefinic feed for the new alkylation plant.

The "Poly Plant" was built at Wood River Refinery just

prior to World War II, and during the war years it was used for the production of cumene, an ingredient of the then vital high octane aviation gasoline. Toluene 2 actually was built during the war years as Wood River increased its production of nitration grade toluene for use in the manufacture of explosives.

Deaths

Loy E. Titsworth, Boilermaker Helper who retired August 1, 1960, killed September 30, 1964, in auto accident.

Your Beneficiary Designations Should Be Reviewed Periodically

Is the beneficiary designation for your life insurance and Provident Fund benefits up-to-date?

If you alter your marital status or gain or lose a dependent, you may wish to record the change. This will insure the benefits will be paid promptly to the person of your choice.

Beneficiaries may include wife (or husband), children or grandchildren. It also is possible to name other persons.

It should be remembered that if a minor is named beneficiary, the court probably would have to appoint a guardian in the event of your death. This could cause expense and delay.

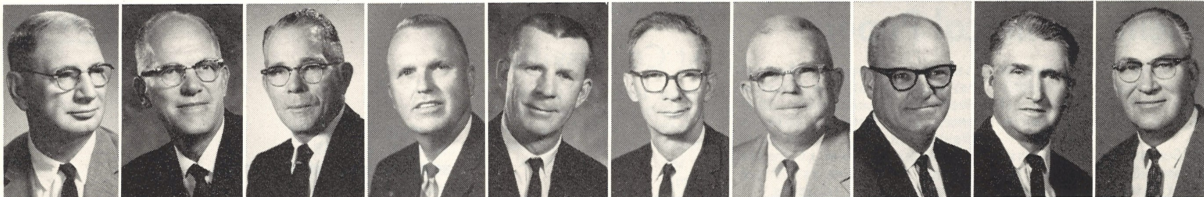
Beneficiary designations should be reviewed periodically and changes made by completing the proper forms at the Personnel and Industrial Relations Department.



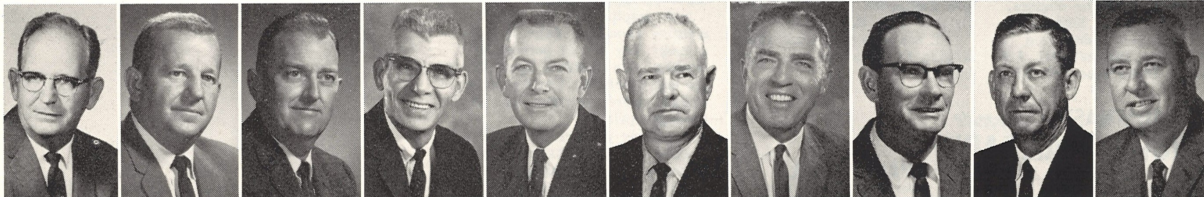
Service



Anniversaries



W. H. Bailey Lube Oil 40 Years	R. T. Brown P&I R 40 Years	L. Adkins Distilling 35 Years	J. S. Brien P&I R 30 Years	D. J. Durham Gas 30 Years	R. L. Waters Tr. Eff. Cont. 30 Years	G. T. Wulf Compounding 30 Years	G. D. Brokaw Exp. Lab 25 Years	H. V. Edgar Eng. Field 25 Years	A. A. Engrlar Eng. Field 25 Years
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E. W. Hindman Eng. Field 25 Years	M. Levi Jr. Eng. Field 25 Years	L. R. McNeilly Refinery Lab 25 Years	C. D. Milford Eng. Field 25 Years	W. F. Monahan Cat Cracking 25 Years	H. E. Read Eng. Field 25 Years	R. C. Scheffel Eng. Field 25 Years	F. O. Smith Cat Cracking 25 Years	H. R. Stropes Eng. Field 25 Years	W. F. Weeks Distilling 25 Years
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20 Years

- | | |
|--------------------------------|---------------------------------|
| A. E. Burmester
Utilities | H. E. Redenbarger
Eng. Field |
| E. F. Cox
Eng. Field | T. Skei
Research Lab |
| W. H. Helfer
Ther. Cracking | J. R. Sullivan
Aromatics |
| P. L. Jones
Eng. Field | F. E. Vedder
Research Lab |
| H. D. Pulliam
Utilities | J. M. Wilhite Jr.
Aromatics |

15 Years

- | |
|----------------------------|
| C. C. Madoux
Eng. Field |
| J. E. Maher
Aromatics |
| O. K. Scott
Alkylation |
| E. C. Stine
Eng. Field |

10 Years

- | | |
|----------------------------------|-----------------------------------|
| D. E. Bradfish
Eng. Office | O. C. Johnson
Eng. Field |
| E. G. Bradstreet
Cat Cracking | T. A. Johnson
Eng. Field |
| P. R. Carriker
Eng. Field | N. W. Lewis
Eng. Field |
| E. M. Dal Pozzo
Dispatching | J. J. Rolfingsmeier
Eng. Field |
| T. A. Doty
Eng. Field | W. Tester
Utilities |
| C. A. Hargrave
Eng. Field | |

Employee Builds and Repairs Clocks in His Spare Time

Building your own grandfather clock might be too much of a challenge for most do-it-yourself fans. But to Gas Department Operator D. C. McLain, the feat is another accomplishment in a favorite hobby.

McLain's clock actually isn't a grandfather clock; it's a grandmother. The gender is determined by height, and although McLain's clock stands 75 inches tall against his living room wall, he says it is of the feminine variety.

McLain used a blueprint to guide him in construction of his clock. Copied from clocks built about 1800, the beautifully finished case of McLain's large timepiece is of light-colored cherry, carefully mitered and fit with the skill of a fine cabinet maker.

The working parts (movements, in clock maker parlance) were imported from Europe. Gleaming metal weights of up to nine pounds are visible through a glass door in the lower part of the case. These weights, suspended on chains, control the timekeeping mechanism and beautifully-toned Westminster chimes for nearly nine days without winding. A pendulum has been adjusted by McLain to the point where the clock keeps nearly perfect time. He estimates that with proper care his clock will operate for a century or more.

McLain's talents as a clock maker have become widely known in the area, and he estimates that he has repaired or rebuilt about 50 large old timepieces in the last three years. He has quite an assortment of them on hand in his home in Roxana - some of them his own but others left there by friends to be rebuilt or repaired.

He emphasizes that he is not a clock collector, but admits in the next breath he won't pass up a bargain, particularly when it's an opportunity to buy an old clock. Much of his repair



PREPARING TO ADJUST HIS CLOCK is D. C. McLain, Operator 1st, Gas Department, who repairs old clocks as a hobby, and built this one which stands in the living room of his home in Roxana. McLain made the case of the clock of cherry, and gave it a shining finish. The movements of the clock were imported from Europe and assembled by Hobbyist McLain in his workshop.

and rebuilding work is done with the aid of parts salvaged from discarded clocks.

One clock McLain has worked on recently is the original time clock used at the Shell Wood River Refinery. It's not a punch clock, and evidently it

was used by a timekeeper who manually recorded the time of employees.

McLain reports that history of most old clocks is difficult to obtain, but that he acquired the former Shell clock from O. E. Phillips (Valve Repairman who

retired in 1948 - another area antique clock repairman) who traced the history of the old Shell instrument. The timepiece was used in the old Wood River Post Office for a time after it was replaced at the Refinery. McLain says the clock now belongs to C. A. Wentz, Engineering Field, who plans to put it in his rathskeller.

Woodworking talents are used by McLain not only in building his own clocks, but in building new or refinishing the wooden cases of others. And this ability has been extended in several cases to other items. For example, McLain built his own cabinet for a hi-fi (another hobby), and currently is in the process of refinishing an old rocking chair - much more quaint than comfortable - for a friend.

Other hobbies enjoyed by McLain are fishing and photography. He reports his fishing has been neglected lately, even on vacation, since he has been spending his vacation time building a cabin in Minnesota. The cabin now nearly is completed, and a part of the furnishings is - you guessed it - an old clock. With a hand-carved case, McLain estimates the age of that clock at 150 to 200 years.

Shell Bowlers Are 'Red Hot' in Industrial Loop

Shell's entry in the Industrial Bowling League, after coming within one game of capturing the first quarter title from Onizede bowlers, is running red hot in the second quarter. They knocked over a total of 3,101 pins in three games in their October 29 match with the Russell Construction Company.

Bob Garner Dispatching, led the Shell team to the victory with a 713 three-game-series score. Garner, opening the evening with an average of 200 pins per game rolled up scores of 245, 224 and 244, to raise his average six points per game.

He was strongly supported by Ken Zumwalt, Utilities, who bowled games of 186, 248 and 225 for a 659 series. Harold Manns, Lube Oils, rolled a 614 series with games of 189, 204 and 221; and Dale Williams, Research, bowled a 609 series with scores of 196, 212 and 201. Bob Awe, Research, bowling for the Shell team for the first time, bowled a 506 series with games of 184, 171 and 151.

The team's scratch scores for the three games were 1,000; 1,059 and 1,042.

John Honchak Wins Refinery Golf Championship for 1964

John Honchak, Thermal Cracking, is the 1964 Refinery golf champion. He won over Bob Schaulat of the Treasury Department in an 18-hole final round in the tourney completed in late September. Honchak won matches with H. D. Tyree and C. V. Mellor before meeting Schaulat in the finals.

H. P. Turley, Refinery Laboratory, last year's Refinery

champion, was eliminated in the first round of this year's tourney.

John Martin, Engineering Office, was A flight champion; Ken Baird, Aromatics, won the championship title in B flight; T. E. Innocenzi, Chief Technologist, was C flight winner; and S. A. Rinaldi, Technological, was the winner of D flight.

Three Research Employees Present Technical Papers

Three Wood River Research Laboratory employees recently presented technical papers at meetings of engineering societies.

S. S. Sorem, Technical Advisor, presented a paper at the Society of Automotive Engineers National Fuels and Lubricants meeting, held in Baltimore the week of October 19. His paper was on the subject of lubrication of two-stroke gasoline engines.

S. R. Sprague, Senior Research Engineer, delivered a paper at the International Lubrication Conference of the

American Society of Mechanical Engineers and the American Society of Lubrication Engineers, held October 13-16, in Washington, D. C. The paper was titled: "Action of Neutral Organic Phosphates as EP (extreme pressure) Additives."

F. J. Cordera, Group Leader, presented a paper at a meeting of the Northern California Section of the Society of Automotive Engineers, held in Berkeley October 28. His paper was "TEL Scavengers in Fuel Affect Engine Performance and Durability."

300 Persons at SRA Fall Dance At Collinsville

More than 300 persons attended the Shell Recreation Association's annual fall dance Friday evening, November 13, at the Collinsville Park Ballroom.

Dancing was to the music of Joe Hlavsa and his orchestra. Refreshments, including a buffet-style luncheon served late in the evening, were free.

And despite the superstitious theories about the date, it was a lucky day for 10 persons attending. Ten turkeys, appropriate and timely for Thanksgiving dinner, were awarded as attendance prizes.

Receiving turkeys were Mrs. Maxine Vaughn, Experimental Laboratory; T. C. Anton, Electricians; L. F. Mor, V. E. Lich and C. A. Post, Carpenters; W. R. Canty, Alkylation; F. W. Albers, Administrative Superintendent; W. N. Hausmann, Aromatics; J. A. Hmurovich, Painters; and L. G. Massa, Purchasing-Stores.

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