THE SHELL REVIEW

VOLUME 18 — NUMBER 10 WOOD RIVER, ILLINOIS OCTOBER, 1955

Teachers Offered Shell Fellowships By Foundation

To Ease Science Teacher Shortage

To help offset the dangerous cutback in science teaching at the secondary level—a basic cause for our critical shortage of graduate scientists—Shell Companies Foundation, Inc., today announced a broad program of recognition fellowships for high school teachers of science and mathematics.

Through the program, worked out with the cooperation of the leading educational association, Shell will underwrite summer seminars at Stanford and Cornell Universities for 60 teachers yearly. The fellowship recipients, chosen on the basis of merit and demonstrated leadership qualities, will receive travel allowances, all tuition and fees, living expenses on the university campus and $500 in cash to makeup for the loss of potential summer earnings.

Basically, according to Refinery Manager H. D. Dale, the program seeks to inspire those science teachers who, in turn, can best inspire the scientists and science teachers of tomorrow.

Science Student Decline

Mr. Dale explained that the program, to be known as the Shell Merit Fellowships for High School Science and Methematics Teachers, was developed following studies that showed a rapid decline in the number of college graduates entering the field of science teaching.

Last year, according to surveys, American colleges turned out 57 percent few high school science teachers and 51 percent fewer mathematics teachers than in 1950. Because of this acute science teacher shortage, Mr. Dale added, more than half the high schools in the country now have no classes in physics or chemistry.

Since 1900, the percentage of students studying algebra in the high schools has fallen from 56 percent to 24 percent — geometry students have dropped from 27 percent to 11 percent. Today, only 4.3 percent study physics—as against 19 percent some 55 years ago.

Mr. Dale said there is no lack of young people with the intelligence to master college courses in science and mathematics, but not enough seem willing to make the effort. Shell hopes to stimulate greater interest in the neglected fields. "We hope the merit fellowships will assist in focusing public attention on this critical shortage of science teachers and also induce others to do something similar," he added.

Stanford and Cornell were selected by Shell because of their outstanding science and education departments and their active role in trying to remedy the acute shortage of high school science and mathematics teachers.

For Able Teachers

Broader than any previous program advanced for science teachers, the fellowships are particularly designed for the able, experienced teachers who ordinarily might seek remunerative summer employment outside the school system. The intensive seminar programs will include graduate-level classes, lectures by outstanding scientists and visits to modern industrial installations and research laboratories.

(Continued on Page 2, Column 3)

Main Office Addition

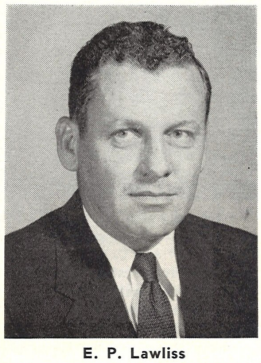
MAIN OFFICE AT NIGHT. This view of the new Main Office Adition, taken from the northwest side of the building, emphasizes the stone Shell pecten and the interior lighting. The new addition, occupied last month, more than doubles the space of the older part of the building.

Named Personnel Manager for Products Pipe Line

Lawliss Receives P&IR Promotion; Brien Appointed His Successor Here

E. P. Lawliss, presently Assistant Personnel and Industrial Relations Manager here, has been promoted to Manager of P and IR for Shell's Products Pipe Line, with headquarters at Indianapolis, Indiana, it was announced October 3 by Refinery Manager H. D. Dale. Lawliss, who will assume his new position November 1, has been Assistant Manager of P and IR here since 1950.

In a later announcement, Dale said that J. S. (Joe) Brien has been named to succeed Lawliss as Assistant P and IR Manager here. Brien, formerly Safety Representative in Shell's Tulsa Exploration and Production area, initially joined Shell at Wood River Refinery, and was employed here until his transfer to Tulsa in 1949.



E. P. Lawliss

E. P. LAWLISS

Lawliss will be handling personnel duties over an area of 11 states in his new assignment with the Pipe Line, the company's transportation and supply division.

He joined Shell in October, 1936, as a clerk in the Compounding Department here. In 1937, he was transferred to the Treasury Department as a yield clerk. He subsequently held clerical positions in the Lube Oils Department and again in Treasury before being transferred to Personnel and Industrial Relations in May, 1942.

His first assignment in Personnel was concerned with handling work schedules. He also worked in employment and employee benefits before being promoted to Supervisor in charge of these sections in 1947. He was appointed Assistant Manager in April, 1950.

Lawliss was born in Alton, and was graduated from Marquette high school. He is married to the former Ethel Mae McAnany of Wood River. He has three daughters, Sharon, 14, Diane, 11, and Michele, 2.

He is chairman of the personnel committee of the Alton District Manufacturers' Association, and has been active in the industrial divisions of the Community Chest and Red Cross. He is a member of the SRA, the Service Club, and the Shell Club.

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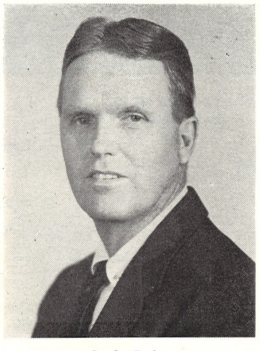

J. S. Brien

Community Chest Campaign Begins Here October 25

Will Continue To November 22

The Refinery Campaign for the 1955 United Community Chest will be held here beginning October 25 and continuing through November 22, it was announced this week by Drive Chairman R. J. Greenshields. The campaign is aimed at receiving 100 per cent participation on the part of all Shell employees.

Of the $228,000 quota set for the Alton-Wood River area, $22,800 is expected to be raised by Wood River Refinery. All Shell employees will be solicited by their respective supervisors, and are being urged by the plant steering committee to contribute their "fair share."

Steering Committee Named

Greenshields has appointed a steering committee which has coordinated the drive here in the plant. Assisting Greenshields on the campaign is J. D. Metcalfe. Steering committee members include C. M. Williams, F. O. King, H. J. Rose, and J. T. Loftis.

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Benefiting from the local drive will be the 10 Red Feather agencies which carry on humanitarian work throughout the year in the Alton-Wood River area. These include: Family Service and Visiting Nurse Association, Illinois Children's Home and Aid Society, Wood River Recreation Committee, Young Men's Christian Association, Young Women's Christian Association, Boy Scouts of America, Catholic Charities, Girl Scouts, Salvation Army, and Hillcrest House.

Not 'Relief' Groups

None of the agencies are relief organizations. That is, the agencies do not duplicate tax supported organizations. The Community Chest makes possible efficient operation, economy, and central financing by one central board, with representatives from all agencies.

Community Chest organizations wage war on dependency, delinquency, social unrest, and crime.

Randels Returns to Wood River After Year in Venezuela

R. A. Randels, Manager of the Fire and Safety Department, will return to his position October 27, according to an announcement made this week by Refinery Manager H. D. Dale. Randels has been in South America since September, 1954, assisting Associates with their safety program.

W. C. Bluhm, who has been acting Manager of Fire and Safety in Randels' absence, will return to his former position as Assistant Fire and Safety Manager.

Randels supervised coordination of safety operations throughout the Maracaibo, Venezuela production area, and at the Cardon Refinery in Venezuela. He was also engaged in training personnel to administer the safety program throughout the area. Randels' recent assignment in Venezuela was his third trip to the country. He previously spent a considerable amount of time there in 1950 and early in 1954.

Your Community Chest Receives Only to Give

America long ago learned a great secret: how to be big—in size, strength, resources—without denying its citizens the rights of individual freedom.

The Community Chest campaigns to be held in some 1,700 American cities and towns this fall have learned that secret, too. It lies in harmonizing national unity of purpose with local freedom of action.

These campaigns make up the largest voluntary effort in communities throughout the country. This fall they will raise more than $300,000,000 for more than 18,000 agencies. They will enlist nearly two and a half million volunteer workers. It is expected that more than 21,000,000 citizens will contribute.

Big though their total results, each united campaign is a strictly independent, homegrown affair. No national authority tells it what to do or how to do it. This is a job for local leadership, local responsibility and local pride.

It is our job.

Voluntary giving today has been called "big business." If so, it is a very warm-hearted big business, business that receives only to give. Its product is a big package, full of vital services to people, packed by many hands, secured by the strong cords of a common humanity. Many more hands are needed to speed it to its destination.

It is my feeling that the employees of this refinery will once again respond to the call of the Community Chest. I know that we all realize the importance of this drive, and that we will do our best to make it a success. A successful drive means 100 per cent participation—contributions from all employees.

Your steering committee and I hope that when employees are asked for their donations, they will consider the magnitude of this venture. That is, we are helping support 10 different agencies in the Alton-Wood River area, not just one. Let us gauge our contributions accordingly.

It will take all of us to do the job—that oft-used term, "teamwork," will be the important commodity.

R. J. Greenshields,
Drive Chairman

Centralia, Ill., Oil Field is Now Being Water-Flooded

Two production sands in the Centralia field in Illinois are being utilized and water-flood equipment is being installed, promising the recovery of an additional two million barrels of oil from the 1,930-acre field.

Shell, although not the largest acreage holder, has been designated operator for the 13 oil producing companies and 240 royalty owners on 49 individual tracts involved. Combining all leases for this operation achieves additional petroleum recovery most efficiently—good conservation of the nation's energy resources and good economics for oil producers.

Other Fields Flooded

The field is the last of Illinois' older producing sections to be water-flooded. Shell has previously installed artificial water-drive in Benton, Cordes, Iron, Mt. Carmel, and South Louden fields.

In the Centralia field, the most modern equipment will be used for well-testing, injection, and treating. Eight automatic testing units will enable production to be sampled and the amount of oil and water being produced by any given well to be gauged through central controls. The equipment will record results automatically either once or twice a day in addition to spot-testing.

Lie Below Coalfields

To create the most favorable water injection and oil production pattern possible, 11 additional wells are being drilled for water injection and 13 for oil production.

Two unusual points of interest are: 1) the oil reservoirs lie below coal deposits which have been mined in the past, and 2) the need for injection water will provide a welcome disposal outlet for salt water produced from other strata.

THE SHELL REVIEW

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Science Teachers Given Fellowships By Shell Foundation

(Continued from Page 1)

Mathematics, physics or chemistry teachers with five years' experience and known leadership ability will be eligible for the fellowships. Thirty teachers from west of the Mississippi River will attend the eight-week Stanford program, which will be administered by the School of Education. Thirty from east of the Mississippi will be invited to a similar six-week series of courses at Cornell.

Department Heads Eligible

In addition to teachers, also eligible are present heads of departments or supervisors with good background in mathematics, chemistry or physics who previously were teachers. Mr. Dale explained that Shell is seeking to spread the recognition program as widely as possible among the nation's secondary schools. Final selection of the sixty will be the full responsibility of Stanford and Cornell.

In developing the plan, Shell consulted representatives of the American Association for the advancement of Science, the National Association of Secondary School Principals, the National Science Teachers Association, the National Research Council, the Joint Council on Economic Education and the National Council of Teachers of Mathematics.

The fellowships are in addition to the Shell Companies Foundation's present $350,000 Aid-To-Education Program, which includes fifty graduate fellowships and twenty grants in fundamental research in science and engineering at forty-one colleges and universities.

Brien Appointed Assistant P & IR Manager Here

(Continued from Page 1)

J. S. Brien

Brien began his Shell career in 1934 as a gauger in the Lube Oils Department. He advanced through higher operations positions, and in 1941 was transferred to the Fire and Safety Department as a Safety Inspector.

In 1945, Brien was promoted to Assistant Zone Supervisor of the Gas Department. He spent two years in the Personnel and Industrial Relations Department before being appointed a Senior Inspector in Fire and Safety.

Brien was transferred to Tulsa in 1949 as Safety Representative for the area. He has also been engaged in Industrial Relations work at Tulsa, and has been handling the area's retirement counseling program there.

Brien is married to the former Grace Stoneham of Wood River. He has one daughter, Carol Jo, 13.

Research on New Oil Carried on Here

Navy's Supercarrier Forrestal Using Shell LG326 Turbine Oil

The USS Forrestal, the U. S. Navy's first supercarrier, went on her first sea trials during August and September with Shell's LG326 turbine oil lubricating her main propulsion and other equipment.

LG326, an anti-wear turbine oil, is the cumulation of about eight years of development work by Shell in cooperation with the Navy. The Shell product was chosen over all others as the best to meet the special needs of the USS Forrestal's main propulsion equipment. It is also used in the auxiliary generators, and other turbine-driven auxiliaries.

Stocked with 18,500 Gallons

The USS Forrestal took on some 18,500 gallons of LG326 for her trials. The 59,650-ton carrier, launched early last year, has a speed of over 30 knots. On the sea trials, the Shell-developed turbine oil met specified performance standards completely.

The problem originally presented to Shell was that of developing a high quality turbine oil which would satisfactorily lubricate heavily-loaded marine propulsion gearing of new design. The anti-wear characteristics developed in LG326 now have been incorporated into Shell's Turbo Oil Series 27 to 41.

Developed Here

Participating in research work on LG326 were the Wood River Research Laboratory, the Control Laboratory, and the Products Application Department and Lubricants Department in New York. LG326 is manufactured at Wood River and Martinez (California) Refineries, and at the Sewaren Plant in New Jersey.

As a leader in industrial research to improve present products and discover new ones, Shell is known for the high quality of its products. You can be sure that anything you buy bearing the Shell trademark represents top quality in its field, and you can be confident in recommending Shell products to your friends.

"Uh, oh. She thought she had *hidden* his vitamin tablets!"

Calvin Reynolds Prevents Injury to Eyes With Goggles

Calvin Reynolds, Yardman in the Engineering Field, recently prevented a possible lost-time accident through the proper use of safety goggles.

Reynolds was working at the Blow-Off Pits when the accident occurred. He knew that the tank the crew was cleaning contained caustic, and immediately put on his goggles. As he started a stream of water to clean crust from the top of the tank, caustic splashed in his face.

He reeceived chemical burns about the face, but his eyes were not injured, thanks to the goggles.

Good Old Shoes

Shell truckdriver W. D. Saul, left, this month prevented a possible lost-time accident when he was involved in a drum-unloading incident. Saul and C. C. Heil, right, were unloading a 400 pound drum from the truck when it slipped off the tailgate and fell on Saul's left foot. His instep was bruised, but a disabling injury was avoided because of the protection of the safety shoes. Saul prevented an injury in a similar incident years ago through his habit of wearing safety shoes, and he is soundly convinced of their importance.

Queen Janet

MISS JANET BARR, daughter of A. W. Barr, Shell Boilermaker, was elected 1955 Homecoming Queen at Roxana high school in ceremonies held this month. Miss Barr, a senior at Roxana high, was crowned by the retiring Homecoming Queen, Shirley Ewens of the Refinery Stenographic Section. Miss Barr is drum majorette for the school band and is also active in extra-curricular activities.

Cafeteria Looks Bright These Days—Sporting New Tables and Chairs!

Jim Geluso, personable young manager of Nationwide's refinery cafeteria here, is a happy man these days.

Jim is watching the finishing touches of a re-decorating program being added to the cafeteria—a venture which has brightened things immensely. The re-decorating includes an attractive green-and-yellow paint job, various new fixtures, and most recently, new tables and chairs.

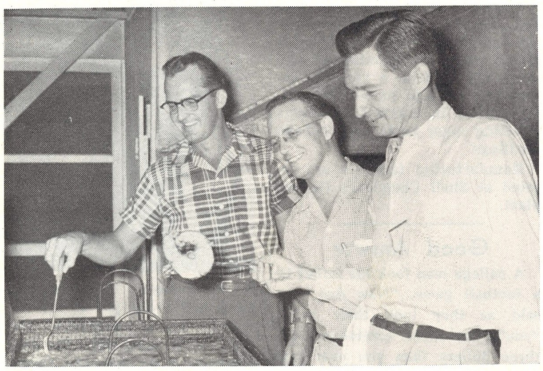
To be real exact about it, the cafeteria this week added 43 new tables and 172 chairs, replacing a like number of old models. The tables have tan formica tops featuring a linen design, and the chairs are chrome with oak seats and plywood backs. The tables also have chrome legs.

Needless to add, Jim is hoping the tables can be kept free of the gum which usually finds itself underneath the table-tops. "My first week here was a hectic one as far as the gum under the tables is concerned," Jim laughed, "I scraped off two buckets and still had some to go."

And as Jim proudly gazed at the new tables, we could almost hear him thinking, "Boys and girls—wrap the Wrigleys in a wrapper, huh?"

Know how to safely park your car on a hill? The Institute For Safer Living lists three precautions that should be taken to prevent the car from rolling away and causing an accident. First, set your handbrake firmly and be sure that it holds; second, put the car in gear — reverse if heading down, low or "drive" position if heading up; third if at a curb turn your front wheels solidly against it — if on an open road play it safe and block the downhill wheel with a stone.

Gala Fish Fry!



Shell Club officers turned chefs for an evening last month when the organization held a fish fry at the Edwardsville VFW Club. Left to right are, E. C. Lewis, vice president, P. J. Leininger, treasurer, and J. T. Loftis, president. The boys were rather proud of themselves, and rightly so — the fish was delicious!

Shell Building New Gas Installation At Corpus Christi

Shell will obtain additional supplies of propane, butane, and natural gasoline from gas produced from its Red Fish Bay and Mustang Island fields in the Houston Exploration and Production Area when a new stripping plant now under construction is completed next March.

The $3,300,000 plant will be built on the mainland a few miles east of Corpus Christi on the Texas Gulf coast. Shell will be a part owner of the facilities, which will be capable of processing 140 million cubic feet of gas daily.

The liquids removed from the wet gas will be sold to local industrial plants. The dry gas after processing will be sold to pipeline transmission companies.

In Edwardsville

Betty Hellrung, 13, Is Outstanding Newspaper Carrier

Girls can be more than adept in men's jobs sometimes!

As proof, take the outstanding example set this month by Betty Hellrung, a cute 13-year-old who is the daughter of Bart Hellrung, Shell machinist. Betty was named one of the 10 outstanding newspaper carriers of the EDWARDSVILLE INTELLIGENCER in a contest of the Inland Daily Press association,

On top of that, she was runner-up to Bob Weckman as the top carrier of the year for the Edwardsville paper. In recognition of her competence and ability, Betty was awarded with a certificate, arm patch, and lapel pin.

In the selection of the outstanding carriers, five basic qualifications were considered. They were service record and customer satisfaction, salesmanship and general promotion, collections and account records, scholarship and general conduct, and civic pride and general group participation.

Betty has been carrying the INTELLIGENCER for 13 months. She's an eighth grader at St. Boniface School in Edwardsville, where she is a member of the school band and safety patrol. She is also interested in astronomy and dancing.

It Pays to Take Periodic Inventory of Your Estate

Have you taken inventory of your estate recently? It is wise to review it from time to time to see how well it would meet the needs of your family in the event of your death. Your inventory should include: 1) money which would become available at once; 2) money which your family could expect to receive in the form of regular payments, and 3) property which could be converted to cash if necessary or retained for family use.

Could Be!

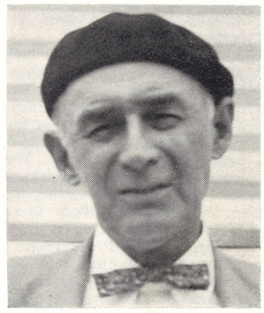
The average girl needs more beauty than brains because the average man can see much better than he can think.

IT'S COMMUNITY CHEST TIME

His First Visit to Homeland in 41 Years

Personable Bill Hoppe Tells of Trip to Germany

Bill Hoppe, 61-year-old Shell pensioner who retired here in 1951, returned in September from a vacation trip to Germany—his first visit back to his homeland since he arrived in the United States in 1914. Hoppe, a retired boilermaker, spent three months visiting his five sisters and two brothers who still live in Germany.



Bill Hoppe

Bill visited Wood River Refinery this month sporting a black French beret and a loud bow tie. He said one of the many highlights of his trip was a plant tour of a Shell refinery near Harburg, Germany. The plant, which employs approximately 800 people was, according to Bill, "neat as a pin." While visiting the plant, Bill was the personal guest of the refinery manager, Mr. Von Wwal, who treated him to dinner and presented Bill with a silver ashtray in the form of a Shell pecten.

In addition to the refinery tour, Bill was feted by several other groups, and in general was treated as a celebrity by the newspapers, radio and TV stations. Features concerning he and his family appeared in five German newspapers, Bill said.

Visited Sweden

Speaking seven or eight languages, including High German, Low German, and Dutch, Bill said he had no trouble getting from place to place and talking to the people. He spent the greater part of his three-month visit near Hamburg, Germany, where most of his family live. But his trip also included a three-day visit in Sweden, which he said is, "just wonderful."

Bill noted many changes which have taken place in Germany since he left there as a youth of 20. He said the cities are now modern and much has been done to clean up the crumbled buildings left after World War II. But he also stated that in the farming communities, life is still relatively primitive.

American Influence

"Wages still are low in Germany," he said, "The top wages are paid by oil companies and shipyards, and these are about 50 cents an hour for craftsmen." Speaking of the American influence in Germany, he said, "You know, throughout the country, workers now observe a 15-minute coffee break each morning and each afternoon."

A bachelor all his life, Bill said that a man would have a hard time remaining "single" in Germany. "There seem to be about six women for every man," he smiled, "But I wouldn't let any of them catch me."

Throughout the country and on the freighter going over and back Bill said he captured audiences with his magic. He's a professional magician, and makes frequent appearances throughout the area at various gatherings. "When things got dull, all I'd do is take my white mouse out of my coat pocket, and we had lots of laughs," he said.

"To tell you the truth, though," he added, "I'm glad to be back." Bill smiled as he said sincerely, "There's still no place like the United States."

Service Club Dinner Features Al Mack

Al Mack, popular St. Louis magician and comedian, entertained guests at the Service Award Dinner October 11. The event, which was held at the Wood River V.F.W. Hall, was also highlighted by the showing of several films on sports and the outdoors.

But, as usual, Mack stole the show!

His original jokes and amazing wizardry had the audience in stitches. A magician who works with very few props, Mack made up for the lack in staging with his originality and all-around stage personality.

The dinner marked the second of the year for Service Club members. Present for the banquet were all those employees who have or will observe a service anniversary of 10 years or more during the last six months of 1955.

AL MACK . . . As Usual, he stole the show!

Part of Site Clearance for Canning House

Tank A-16 Moved 565 Feet in Plant's Biggest Re-location Job

Moving a 466,000 pound storage tank is a big job.

This is true when tank movement is spoken of in terms of 50 to 100 feet. And when a tank is re-located to a site 565 feet distant of a given location, it actually becomes a giant operation.

This tremendous project took place the latter part of September here when Tank A-16 was moved a record 565 feet near Cooling Tower 7 as part of the site clearance for the Compounding Canning House. The movement of A-16 constitutes the biggest tank re-locating job in the history of Wood River Refinery.

Three Weeks' Preparation

The whole project took approximately three weeks of preparation for an actual moving operation of 23 minutes. Although the "floating" itself went quickly, the job of dike-building, dirt-hauling, and other preparatory work was a time-consuming operation.

Tanks are moved by floating them in water and pulling them by means of a winch to the prospective site. In the case of A-16, the water had to be three feet deep, and an area of 102,750 square feet had to be flooded. In all, more than 2,500,000 gallons of water were necessary in the movement of A-16 to its new site.

The first job in the operation was that of dike-building. Dirt was hauled in by truck for the construction of a substantial wall to confine the water in the intended area. After the dike had been built, other problems had to be dealt with. Perhaps the biggest problem in the project was the movement of the tank over railroad tracks and a large drainage ditch.

Teamwork Required

The open drainage ditch was diverted through three eight-inch pipes which were 200 feet in length. The pipes served as a culvert under the entire dike area. The dikes were then built over the pipes in the ditch.

Water under pressure was pumped in from four fire hydrants to form the man-made lake. In order to overcome the problem of the tracks and drainage ditch, the Engineering Department had to work closely with the Effluent Control and Utilities Departments. The Engineering Department had to re-route the drainage system, and the water pressure from Cooling Water had to be stepped up to pump the water in quickly.

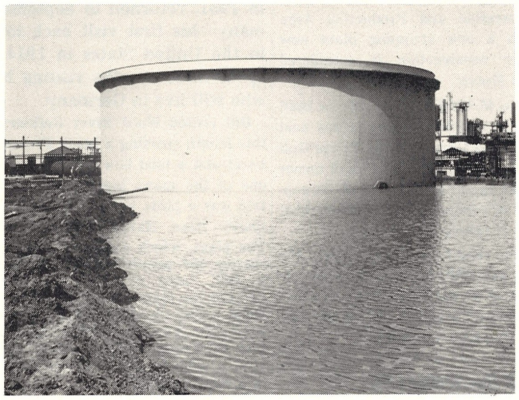
When the site was prepared, the tank was moved in a series of two movements. The first movement was to a position adjacent to the drainage ditch, after which time additional dikes were built. The second and longest movement was to the new location just south of Cooling Tower 7.

Pulled by Bulldozers

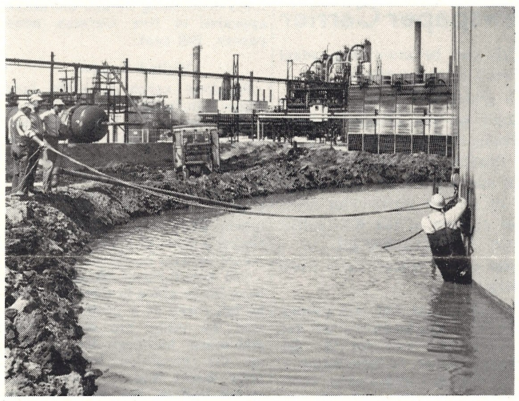
Deflection of the tank bottom, brought about by water pressure, necessitated the 23-inch depth of water at the highest point over which the tank had to pass, the railroad tracks. The original tank site was two-feet, four inches lower than the tracks, and the final site was one foot, nine inches lower. When 23 inches of water was covering the tracks, four feet, three inches stood over the old site. Three feet, eight inches of water stood over the new tank site.

Two bulldozers, pulling the huge tank along with two five-eighths inch wire cables, handled the actual movement. At its new location, by means of water drainage, the tank was gently lowered onto a sand pad and concrete ring.

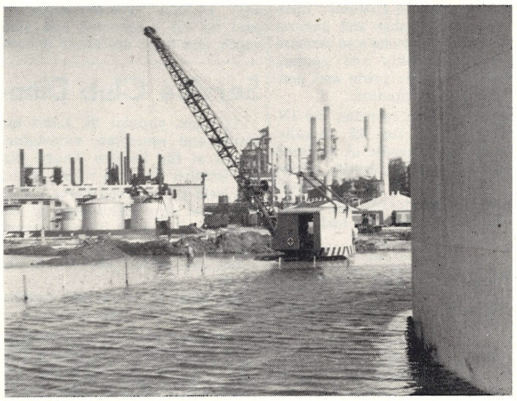
Drainage of the water was a major problem in itself. The water was actually drained over tarpaulins at low points dug in the dike. This was necessary so that the water would not undercut the dike and flood the entire area. The tarpaulins supplied a practical means of control for the drainage of the water to refinery sewers.



A view of the huge 466,000 pound tank from the south-east side. Over 2,500,000 gallons of water were necessary to float the tank 565 feet to its new location. A portion of the man-made lake is pictured above.



The tank was pulled by a winch to its new location. Two three-eighths inch wire cables were attached to the tank. Here workmen prepare the tank for moving. The Boilermakers were responsible for rigging and actual movement.



A large crane works on the dike which was built up around the entire area to be flooded. Dirt for the dike was hauled in by truck to form a substantial wall to confine the water to its limits.

✦ ✦ ✦

Provides First Leg to Wood River

New 452-Mile Pipe Line Moves Williston Basin Crude Quickly

Crude production from fields in the Williston Basin now is flowing towards refineries through the 452-mile, 18 million dollar Butte Pipe Line, completed in October.

This first large-diameter crude line in the Williston area moves oil from northeastern and eastern Montana and eastern Wyoming south to a juncture with existing carriers, the Platte Pipe Line and Western Pipe Line. These systems move oil from Wyoming to refining centers at Chicago and Wood River, Illinois.

Moves Oil Quickly

Previously, oil produced in the areas served had to move by truck or tank car, less efficient forms of mass oil tranportation. With the new line in operation, both development and exploratory drilling are expected to increase in adjacent portions of the Williston Basin.

The line is operated by Shell Pipe Line Corporation for its owners, Shell Oil Company, Murphy Corporation, Placid Oil Company, and Northwestern Improvement Company, a subsidiary of Northern Pacific Railroad. Offices for the new Rocky Mountain Division of Shell Pipe Line have been established in Casper, Wyoming.

Line Gets Bigger

Beginning with a 10-inch diameter line in the East Poplar field in Montana, the system extends south, becoming 12-inch in diameter at Glendive and increasing to 16-inch pipe as the route nears Baker, 100 miles north of the Montana-Wyoming border. Incorporated in it is the 12-inch, 35 mile line from Cabin Creek to Glendive formerly owned and operated by Shell Pipe. Two mainline stations, Baker and Osage, will give the line an initial throughput of from 27,000 to 37,000 barrels a day. Additional units can be added to give the line a 50,000 barrell daily capacity.

Unusual aspects of the line are: 1) it runs uphill, from 2,000 feet above sea level to 4,300 feet; 2) it crosses three major rivers — the Missouri, Yellowstone, and North Plattee: 3) it tunnels under 11 mainline highways.

Endrin Supplies are Increased by Shell Chemical Corporation

Endrin supplies were substantially increased when additional manufacturing facilities were recently completed, F. W. Hatch, manager of the agricultural chemicals division of Shell Chemical Corporation, announced today.

Endrin, a stereoisomer of dieldrin, has been used extensively for the control of cotton and tobacco insects since its introduction two years ago. Endrin, a versatile insecticide, has also shown outstanding results in controlling insects affecting sugar beets and cabbage seedlings.

Manufacturing facilities are located at Shell Chemical's Denver plant.

Good Answer

A college man took his father to a football game. "Now dad," he said as they took their seats, "you'll see more excitement for three dollars than you ever saw before."

"I don't know about that," replied the old gentleman. "That's what I paid for my marriage license."

"Gee, Mr. Hornswoggel. Couldn't we just settle for a close guess?"

Norco's Units Now Supply Fumigant For Hawaii's Plants

Shell Chemical's new plant at Norco, Louisiana, now is the principal source of the soil fumigant D-D (R) used by Hawaii's famous pineapple plantations. Shell's highly-effective killer of root-attaching nematodes has been extensively used as a soil fumigant in the Hawaiian Islands for years.

Previously, Hawaii received its supplies of D-D from Shell Chemical's plant at Houston, Texas. Now, the D-D output of the Houston Plant will be largely used to meet the growing demand from farmers in California, the Midwest and the Southeast. Growth in the demand for D-D is another indication of increasing importance of agricultural chemicals among the products made by Shell Chemical.

D-D kills the tiny, worm-like nematodes which attack the roots of a wide variety of plants. It is used most extensively in areas where pineapples, tobacco, and vegetables are raised.

Over seven million American families today enjoy the comfort, convenience, and safety of dependable oil heat.

Barbecue?

B. W. Malone, left, and Tom Reed had a big job at the Research Lab's Barbecue last month at Kendall Hill. The boys combined their domestic talents to mix the tasty brew, correction, sauce. Over 75 families attended the event, which went over in a big way with adults and kids alike.

Anchors Aweigh!

A justly proud father these days is James C. Brown whose two sons, Robert, left, and Richard, are both in the U. S. Navy. Richard, the older of the two, has just completed an electronic course at San Francisco and Robert is now enrolled in a similar course at Great Lakes, Illinois. Brown, a Shell employee for 33 years, is a senior clerk in the Automotive Department.

Shell Fuel Oils May Be Purchased In Many Towns

On several occasions, employees have inquired concerning the names of branded fuel oil jobbers-distributors in the area from whom they might purchase their home requirements of Shell Fuel Oils.

In order to make it convenient for employees and their families to purchase Shell Fuel Oils for their coming heating season, the names of the following establishments are listed:

Alton — City Fuel & Supply Co.
Roxana — Langen Oil Co.
East St. Louis — Harry Fleming
Belleville — Leonard Buescher
Dupo — Charles Reichert
Collinsville — J. Podesta
Granite City — J. H. Kenner
Breese — Clinton County Oil Co.
Benld — Fassero Oil Co.
Greenville — Greenville Service Co.
Carrolton — Howard Oil Co.
Mascoutah — Juenger Oil Co.
Highland — Klaus Service Co.
Columbia — Kremmel Oil Co.
Hardin — F. A. Munsterman
Jerseyville — E. J. Munsterman
Pittsfield — C. H. Smith & Sons

SHORTY

Ed and Mrs.

Mr. and Mrs. E. P. Lawliss view Ed's new three-suiter following a banquet in his honor held October 17 at the Stratford Hotel. Approximately 50 people including the entire Personnel and Industrial Relations office, were on hand to present the luggage and issue Ed a hearty send-off to Indianapolis. Ed has been promoted to Manager of the P and IR Department for Products Pipe Line, the transportation and supply division of Shell.

Shell Sees Jury Duty as Civic Responsibility

The Company likes to see Shell men and women doing what they can to make their towns and neighborhoods better places in which to live . One important civic duty is serving on a jury when called. Shell allows its employees time off the job with pay during the period of jury duty. When called, you should cooperate with your supervisor by informing him as far in advance as possible so he may take any steps necessitated by your absence.

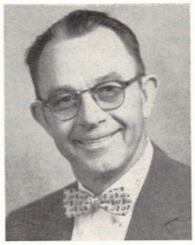
Houston Group Leader Wins Chemistry Grant

Milburn J. O'Neal, Jr., group leader in Shell Oil Company's manufacturing-research laboratory in Houston, Texas, has been named winner of the $1,000 Precision Scientific Company award in petroleum chemistry. It was given O'Neal in recognition of his work in the application of mass spectrometry to hydrocarbon analysis in the high molecular weight range.

October Service Anniversaries

25 YEARS
A. J. Baker
Pipe

30 YEARS
J. J. DeCota
Lube



30 YEARS
H. G. Hanson
Treating

25 YEARS
E. L. Pitchford
Cracking

25 YEARS
V. P. Shook
Utilities

25 YEARS
H. H. Travis
Cracking

25 YEARS
R. R. Yarnell
Lube

20 YEARS
G. T. Graddy
Cracking

20 YEARS
W. H. Gross
Alkylation

20 YEARS
D. W. Gurley
Treating

20 YEARS
E. F. Hinson
Boilermaker

20 YEARS
H. F. Lange
Distilling

20 YEARS
F. A. Miller
Pipe

20 YEARS
R. P. Smith
Lube

20 YEARS
B. F. Steffon
Boilermaker

15 YEARS

E. E. Clawson
Machinist

E. W. Eberlin
Pipe

J. C. Moore
Machinist

C. J. Echel
Labor

J. H. Williams
Asbestos

Retired
O. L. Bond
Carpenter

Retired
W. E. Romine
Pipe

Retired
Harry Smith
Compounding

10 YEARS

S. A. Duval
Research

R. A. Kasten
Compounding

B. E. Fenton
Tool Room

B. P. McKinney
Control Lab.

R. L. Holder
Cracking

V. F. Azzarello
Asbestos

E. W. Howell
Electrician

A. B. Browder
Labor

SPORTS

Affair Scheduled November 14

Edwardsville's Joe Lucco Is SRA Banquet Speaker

The area's outstanding basketball and baseball coach, Joe Lucco of the Edwardsville Tigers, will be guest speaker at the Annual SRA Awards Banquet November 14 at the Rose Bowl in Granite City. All of the Plant and Industrial League champions will be honored at the annual affair, according to Jack Harris, SRA board chairman.

Wood River's 1955 Industrial League Softball champs, the 1954-55 Bowling Champs, and other plant league winners will be awarded trophies at the banquet, which also annually fetes the Ladies' League Champions.

Approximately 150 persons are expected to attend the dinner.

Joe Lucco

In Joe Lucco, the banquet guests will be hearing one of the fine after-dinner speakers in the area, as well as one of the most successful coaches in the state.

Lucco, head basketball and baseball coach at Edwardsville high school since 1944, has gained popularity throughout the state for his winning cage and diamond teams. In addition to taking two basketball teams to the Illinois State Tournament in the past five years, Lucco has also coached three baseball teams to the State tourney.

His outstanding basketball team of 1953-54 won 28 games and lost only 7 in winning fourth place in the Sweet Sixteen Tournament at Champaign. Only three times in the past 11 seasons have his teams failed to win 20 or more games in basketball.

But Watch Research!

Firecrackers Hot In Ladies' Bowling; Take 3-Game Lead

Putting on the steam early this season, the Firecrackers are off to a three-game lead in the Shell Ladies' Bowling League with a record of 15 wins against only 6 losses. Last year the Firecrackers finished second to the amazing 1954 Oilerettes, and they're not making any bones about wanting that title in 1955-56.

In second place behind the Firecrackers are the Shell Mrs., Oilerettes, and Research, League Champs the year before last. All three have similar records of 12 wins, 9 losses. The Shell Mixers are close behind with 11½-9½.

Dotty Kladar has been a big hand in helping Research make a bid for their second league title in three seasons. Dotty is leading the league with a 159 average, followed by Boren with 158, and Booten, 157. Tootsie Nash, traditionally tops for high average, is staying fairly close with a commendable 150.

The Firecrackers are first in Team High Three, carrying a 2228. They are followed by the Shell Mrs., 2213, and Oilerettes, 2116. The Shell Mixers have a 780, good enough for first place in Team High Single. Close behind are the Activators with 757, and Research with 741.

Dotty Kladar's 530 and Boren's like score pace the Individual High Three division.

Smart Girl

A smart girl is one who can hold a man at arm's length without losing her grip on him.

Standings Knotted Up in Three of Four Leagues

Plant Bowling Exhibiting Most Spirited Competition in Years

As was predicted early in the bowling season, the competition this year is really at its best. And no better is this fact illustrated than in at least three of the four plant leagues, where one or two games separates the league leaders from the top contenders in the circuit. Going into the final week of the first quarter, only one game stood between the first and second place teams in the Premium, Super Shell, and Golden Shell leagues.

Only a single game separates the Machinists, in first place, from the Extraction Plant, in the Premium League. In the Super Shell, Fire and Safety holds a slim one-game lead over the Research Pilots. And in the Golden Shell, it's anybody's race, with the Fab Shop, Distilling, and Engineering Office ready to take over. Action in the X-100 league is tight, but the Cat Crackers hold a two-game edge over the Bulk Depot, which will make things a little tougher.

Premium League

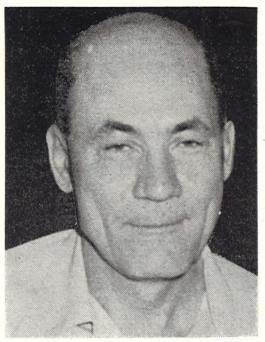
Mel Hubach's fine 584 series on October 19 helped the Machinists, a new addition to the league, whip the leading Extraction Plant three-in-a-row and enable the newcomers to take over first place. Going into the final night of the first quarter, the Machinists have 13 wins, 8 losses, while Extraction has 12 wins against 9 defeats. Three teams are in a tie for third with records of 11 wins, 10 losses. Included in this trio are the Electricians and Machinists, Dispatching Gaugers, and Engineering Inspection.

Julie Brown proved he is a big man for the Electricians-Machinists most convincingly October 19 when his 598 led the group over Industrial Relations. Brown has been out of the lineup on three nights this year, a major factor for the Electricians slow start this season.

Walt Fiessel's great night early in the season has assured him top place in the Individual High Three division for a long time. Walt has a 638, topping teammate Don Isted's 627, and Paul (Dutch) Hertel's 610. Engineering Inspection has a 3153 for Team High Three, which probably won't be topped this quarter. Over in the Team High Single, it's a toss-up with the Electricians-Machinists' 1062, the Inspectors' 1052, and Industrial Relations, 1020. Julie Brown has the high single for the year with 232, followed by Don Isted, 225, and Joe Nagy, 223.

X-100 League

The Cat Crackers' record of 13 wins, 5 losses puts them in first place in the X-100 league. Followed by the Bulk Depot with 11-7 and the Cracker Box and Inspectors with 9½-8½, the Crackers have better than an average chance of copping the first-quarter crown. Led by Skrobul's 167 average, the Crackers have grabbed the big ones throughout the quarter to stay just two big jumps ahead of the opposition.



WALT FIESSEL . . . His 638 high three leads the Premium League pack.

A 3061 in the Team High Three division by the Bulk Depot is high for the quarter in the X-100. Plant Tech is second with 3038, followed by the Inspectors with 3029.

Mellor's 568 is high for the year in the Individual High Three. He is ahead of Walt Kress, 558, and Brenner, 547. The Cracker Box's 1102 leads the Team High Single parade, followed by 1051 by the Bulk Depot, and 1039 for the Dispatching Office.

Super Shell

Big Bob Kapp's 187 average and his big nights for the leading Fire and Safety team are the talk of the league. Kapp had a 577 on October 7 to raise his average another two pins, making everyone wonder where he is going to stop. Kapp is 11 points better than his closest competitor, Rau, also of the Fire and Safety outfit.

Even though Fire and Safety holds a one-game lead over the Research Pilots, 15-6 to 14-7, this league bears watching as one of the most exciting in the four leagues. The Control Lab, with some steady bowling, could make some of the leaders sweat next quarter. And the Boiler House, having their troubles this first quarter, might shift into high gear in the weeks that follow.

The Research Pilots, second in the league going into the final week of the initial quarter, have a firm hold on the Team High Three with a 3077, followed by the Lab with 3016 and the Brickmasons, 2924.

A real good night in September puts the Control Lab out in front in Team High Single with 1106, 30 points better than the North Property Engineers with 1076. North Property, helped out by Blair's 548 on October 14, was helped considerably by the handicap. The Boiler House, with 1012, is in third position.

Weule's 595 is still tops for High Three, and Elmer Gillis has a 591, just four pins down. Dutch Fors is third with 581. Bert Strebler leads the high single with 248. Blair has a 229, and Sumpter a 226.

Golden Shell

The Golden Shell circuit is really knotted up, with the Fab Shop, Distilling, Engineering Office, Alkylation, Instrument, and Research Ramblers all capable of winning the first quarter. The Fab Shop and Distilling were tied on October 7 with records of 11 wins, 7 losses. The Engineering Office was 10-8, and the other teams mentioned were all batting .500 with 9 wins, 9 losses.

Tassan, Kranz, and Hibbard lead the Individual High Single with respective games of 224, 222, and 220. In the Team High Single race, the Engineering Office is on top with a 1046. Close behind are the Engineering Mixups with 1029, and the Instrument Department, 1027.

Over in the Individual High Three, we find Thomsen's whooping 636 far ahead of the pack. He is being chased from afar by Judd and Ferrante with 577 and 570 respectively.

Distilling leads the Team High Three with 3018. The Instrument boys have 2983 for second, and in third place are the Research Rollaways with 2941.

No. 2 Team in 7th

No. 1 Industrial Bowlers Still Fighting for Title

Shell Number One, one of two refinery entries in the Industrial Bowling League, still has a mathematical chance of winning the first-quarter round of play. The Number One boys, last year's league champions, are currently in fourth place in the circuit with a record of 13 wins, 8 losses. The league leader, Boxboard One, has a 16-5 record.

Shell Number Two meanwhile is in seventh place in the 10-team league with a record of 8 wins and 13 losses.

While their won-and-lost records are not good enough to be leading the league, both Shell teams have high individual and team averages of which to be proud. Shell Number One has the team high three for the year with a blistering 2880. Shell Two is running a close third with 2734, just 10 pins shy of Onized Two with 2744.

Six of the top 15 bowlers in the league are members of Shell teams. Team Number Two has Archibald and Thompson in the Top 15, and four of Shell One's six men are up among the leaders. These include Schindewolf, Grover, Oden, and Hertel.

Jim Thompson, captain of Shell Two, has the highest average of any Shell Industrial bowler with a 183. He is followed by Ray Schindewolf with 181; Jess Grover, 180; Archibald, 177; Lou Oden, 176, and Paul (Dutch) Hertel, 176.

Two Shell men are in contention for Individual High Three honors. Dave Patton has a 656, good enough for second place behind Wrest, and Archibald has a 624 for third place in this division.

Industrial League Champs

Wood River Refinery's Industrial League Champs (September SHELL REVIEW) are, left to right, front row: Doc Cunningham, Catcher; Johnny Martin, Shortstop; Bob Garner, Pitch; Kenny Zumwalt, Jr., Official Mascot; Clay Romani, Third Base; Sandy Sandbach, Catch and Infield; Harold Ufert, Infield. Back row: Hub Turley, Infield; Dick Downer, Infield; Bill Shields, Center; Kenny Zumwalt, Outfield and First Base; Jim Price, Infield, and Frank Stringer, Infield-Outfield.