

# Lube Blending-Loading Capacity Increased



AT THE CONTROLS of the computer which regulates the in-line blending operation in the Compounding Department's new lube-oil blending-loading facility is Compounder 1st W. N. Sanders. Use of the computer assures that the product being blended contains the correct amount of each ingredient, while at the same time giving operating personnel a continuing account of the mixture ratios and volume blended. (Additional photograph on Page 2)

Shipments of top quality Shell products from Wood River Refinery's new lube oil blending and tank car loading facility have increased steadily since the recently installed equipment was put in operation in the Compounding Department. The new facility nearly has doubled the Refinery's previous capabilities for handling tank car shipments of lube oil products.

Improved methods in the movement of tank cars and the method of filling them with product provide part of the increase in efficiency. A Shell Development Company-designed continuous blender, partially operated by computer, is largely responsible for the increased efficiency in the preparation and handling of special blends of products.

Through use of the new facility, customer orders for special blends of lubricating oils can be filled by in-line blending of the desired ingredients while loading. Small tanks on the top floor of the new building are available for preparing and injecting special additive mixtures into the main base stock additive stream. Computer control assures that this stream contains the correct amount of each ingredient. The computer also provides operating personnel a continuing account of the mixture ratios and volume blended. The computer console is in a control room in the southwest corner of the top floor, reached by elevator.

At ground level, railroad tank cars are cleaned and prepared for loading by use of new equipment designed to do the

job more efficiently. Electric tank car pullers provide for the positioning of cars in the precise spots desired for loadings. Filler spouts through which the finished product flows are extended into the tank cars manually.

Finished lube oil, blended as ordered, can be pumped into the cars at rates of up to 500 gallons per minute, so it doesn't take long to have a car filled and ready to roll over the tracks to a Shell customer.

The new continuous blender is the biggest of its type at any of the U.S. Shell locations. When not blending products to flow directly into tank cars, it is used to fill finished product storage tanks with blends for which there is constant demand, thus providing still greater efficiency.

## Annual Barbecue Scheduled for July 17

Nearly 2,100 male Wood River Refinery employees and approximately 1,000 retirees are eligible to attend the 19th annual Shell Barbecue to be held Saturday, July 17, at the American Legion Park in Edwardsville. Hours for the annual event will be 11 a.m. to 8 p.m.

Invitations will be mailed in the next few days to those eligible to attend. Male employees who complete 10 years of service with Shell at any time in 1965 are included in the number eligible.

Also eligible to attend are Shell Products Pipe Line and Shell Pipe Line Corporation personnel with 10 or more years of service who work at Wood River or Roxana locations.

Last year's attendance was estimated at more than 1,500 persons, including more than 300 retired employees who en-

joyed the day visiting with their former fellow employees.

As usual, the main attractions will be food and fellowship, and ample supplies of chicken, fish and barbecue have been ordered, along with all of the trimmings. Serving will be continuous, beginning at 11 a.m. Special entertainment planned includes a hole-in-one contest, from 1 to 4 p.m.

There will be prizes for two retired employees, the oldest one present and the one traveling the greatest distance to attend.

## 27 Active Employees Have 40 Years of Shell Service

Wood River Refinery's annual "10 and Over" Barbecue, just a few weeks away, will be held in recognition of pensioners and the approximately 2,100 active employees who will complete 10 or more years of service with the Company during 1965.

Of special interest are the 27

real veterans among these active employees. They are the men who, by the end of 1965, will have 40 or more years of service with Shell.

At the top of the list of this select group is L. Southard, Plant Protection, who has an accredited service date of December 27, 1922 and more than 42 years with the Company.

Employees with accredited service dating back to 1923 include (listed in accredited service date order): G. F. Hof, Economics and Scheduling; D. M. Benner, Dispatching; J. L. Roller, Garage; and N. J. Painter, Refinery Laboratory.

Ten employees began service with Shell in 1924. They include T. E. Hooper, Utilities; J. C. Gorman, Compounding; C. A. Nevin, Refinery Laboratory; E. M. Black, Dispatching; A. G. Uzzell, Research Laboratory; E. Cotner, Utilities; C. E. Beason, Alkylation; R. T. Brown, Personnel and Industrial Relations; W. H. Bailey and F. W. Weber, Lubricating Oils.

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# REVIEW

Wood River, Illinois

Vol. 28 No. 4 June 1965

## Wood River Inventors Are Named in U.S. Patents

A problem of the jet age is the need for strict cleanliness of fuels used in the engines of today's high speed aircraft. One possible solution to the problem has been invented by two Wood River Research Laboratory employees, Thomas J. Akers, Senior Chemist, and Thurston Skei, Group Leader. Their invention was one of six by Wood River Research personnel for which United States patents were issued to the Company in 1964.

The patent specification for the Akers-Skei invention points out that freedom from dirt and water must be maintained in aviation kerosene to avoid abrasion of fuel pumps and plugging of fuel screens in the engines by foreign matter and ice. The problem is inherent in the fuel distribution systems used at airports. The high ratio of fuel usage to storage capacity and the tendency of airlines to schedule most flights during relatively short periods in the morning and evening prevent settling periods in most airport fuel storage tanks from meeting more than minimum standards.

The Akers-Skei invention calls for the injection of steam into



Akers



Armstrong



Price



Rozalsky



Skei



Sprague

the kerosene while it is in the fuel distribution system. Field tests show that after such steam injection, a shorter settling period is required for the removal of water and some solid contaminants, providing a simple, inexpensive method for improving kerosene quality away from the refinery.

In another patent, Dr. Irving Rozalsky, Group Leader, and a former employee were named co-inventors of an improved high-speed quenching oil composition for use in the metals industry. Many such compositions cause stress and strains in the metal being quenched, resulting in warping or cracking, and some others leave deposits which make necessary further buffing or polishing.

Their invention is a quenching

oil composition containing a particular petroleum mixture which increases quenching speed and surface brightness of the metal being treated.

Group Leader Stanley R. Sprague and a former employee were named as co-inventors of a power transmission fluid designed to remain stable at extreme high and low temperatures to provide pumpability and fluidity. The oil base contains minor but critical amounts of certain essential additives.

### Oil Improving Additive

James R. Price, Research Engineer, was named a co-inventor of an oil improving additive. Oil compositions containing the additive may be used under high temperature, pressure and speed conditions in automobile

and truck engines and in some industrial equipment.

J. W. Armstrong, Chief Research Engineer, and R. L. Woodruff, now in Head Office, were named co-inventors of an improved fuel composition designed to reduce formation of combustion chamber deposits. Combustion chamber deposits result in engines requiring higher octane fuel for knockfree performance. Their fuel composition also reduces the tendency of the engine to require this and provides a new method of reducing the octane

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Woodruff

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# Graduates Despite Crippling Disease

Mike Keister, 17-year-old son of Dispatching Department employee and Mrs. Ervin C. Keister, was graduated last month from Roxana High School. He plans to enroll this fall in Southern Illinois University in Alton after a summer of activity which will include many days at a family cabin on the river at Grafton and probably many hours on water skis behind a fast-moving new family boat.



Keister

That sounds like the plan of an average young man just graduated from high school and expecting to enter college. But it's quite remarkable in Mike's case, for in early March young Keister was stricken with infectious polyneuritis, an illness of the nerves. In just a few days after becoming ill with strep throat, the nerve illness left the active young high school senior unable to use his

hands, arms, feet and legs, and he was some 20 pounds lighter.

During the early days of the illness, Mike was hospitalized for 32 days. Then began the long recuperative period, which still is not complete. Mike goes to the hospital three times weekly for therapy treatments, which are expected to help him regain his lost strength.

Unable to attend school during his illness, Mike was able to complete high school with the aid of four teachers who came to the Keister home to tutor him in English, German, physics and sociology. Mike graduated with his class May 28, and was able to attend graduation exercises. Although he was not able to march in the ceremonial parade with his fellow graduates, he was able to go forward to receive his diploma.

### Recovering Rapidly

Fortunately, the effects of the disease eventually disappear, and Mike's physicians report he is recovering rapidly and they expect him to be back to normal by the end of the summer. For several weeks, Mike has been

able to walk about, drive a car, and even swim.

But much to Mike's disgust, he has not yet been able to enjoy his favorite sport, water skiing. There's not yet enough strength in his hands and arms to hold onto a tow-bar and be pulled to a standing position on the water. Mike is looking forward to the day when he can again perform the feats on water skis he learned in past years. Mike's mother has photographs of her son skiing backwards, skiing on his bare feet, and even skiing with children on his shoulders.

The Keisters recently purchased a new boat, powered by a 165 horsepower engine, with which they'll be able to tow Mike over the water at a faster rate than they previously were able to reach. Both Mike and his 13-year-old brother, Brian, handle the boat skillfully, their father reports.

# Employee's Son Appointed To U.S. Naval Academy

Robert Starr Gibson, 19-year-old son of Engineering Field Foreman and Mrs. C. W. Gibson, has received an appointment to the United States Naval Academy at Annapolis. He is to report to Annapolis June 30.



Gibson

Young Gibson was graduated from East Alton-Wood River High School in June, 1964, and for the past year has attended the University of Illinois. In high school, Gibson was president of his senior class and was active in

Thespians. He is a member of the Wood River First Presbyterian Church.

Gibson's appointment to the Naval Academy was by Congressman Melvin Price.

# Shell Camera Club Wins In Color Slide Competition

The Shell Recreation Association Camera Club was winner of a three-club contest May 4, when color slides taken by members won three of five places in competition with Onized and Westerner camera club members. It was the sec-

ond straight year for the Shell club to win the contest.

R. W. Thrasher, Engineering Office, won first prize with a slide titled "Winter Night." Carl Frye of Onized won second place with another winter scene "Winter Design." M. S. Waller, also of Engineering Office, won third and fourth places, and fifth place went to Miss Jewell Hale of Onized.

# 7 Wood River Men Named in U.S. Patents

(Continued From Page 1)

number requirement of engines already having substantial quantities of combustion chamber deposits.

In another patent, Woodruff was named the sole inventor of a fuel composition which also provides an octane requirement reduction agent, which either removes combustion chamber deposits already formed or prevents the deposit of such materials.

# Summer Travel Tips Are Offered by Shell Dealers

Here are three timely travel tips that Shell dealers all across the United States are recommending to their customers for pleasant summer driving ahead.

First, ask any Shell dealer for a tour request card. Fill it out and mail it to the Shell touring center in your area - at least three weeks before you plan to take a trip. You will receive - free - the Shell Tour Kit, which this year includes a new "Shell Touring Guide," a 24-page booklet that tells how to read a map, interesting things to see and do, and where to eat and stay. The booklet also advises on what to wear in various parts of the

country at different times of the year. As in past years, the 1965 Shell Tour Kit also includes clearly marked road maps, personal and automotive expense cards, and a durable plastic wallet for the whole kit.

Second, ask your dealer for details about his Trip Starter Special, a specially priced service package that includes an oil change, Shelllubrication, brake adjustment, new oil filter and several extras.

Third, if you have not already done so, request an application for a Shell Credit Card. It's a convenient way to avoid carrying large amounts of cash when you travel.

# Retirements



C. K. Johnson Eng. Office   B. E. Jun Eng. Services   E. L. Kimmel O. Research Lab   Marlinghaus Eng. Field   H. J. Niemann Purch-Stores   D. Parsons Eng. Field



FINISHED PRODUCT flows from the in-line blender or from any one of several finished product storage tanks into the railroad cars at ground level. W. A. Wiedman, Compounder 3rd, is shown in this scene watching the product flow into a railroad tank car.

# National Drivers Test Is TV Success

watched the show, which has been acclaimed by television critics and safety officials.

The average viewer, however, rated only "fair" on the drivers test. A cross section of 2,000 persons who took the test in four TV studios on the night of the broadcast showed that the mean score was 51 out of a possible 80 points. (Scores of 50 or less were rated "poor.")

The test consisted of four parts. Films in the first part showed stunt drivers in crash situations. Viewers judged the drivers' defensive abilities behind the wheel. The second portion took up "15 true and false questions. IBM computers reported that less than one half of one per cent of those taking the test in the television studios answered all 15 correctly. The third part of the

program tested the viewer's ability to perceive road hazards during a filmed drive down a typical small-town main street. Finally, viewers were quizzed on their knowledge of highway speed situations.

The show, which Shell sponsored as part of the Company's long-standing policy of encouraging safe driving, was produced by CBS News. It received the cooperation of the National Safety Council and the advice of an independent board of consultants from industry, government and education. A CBS News team of Walter Cronkite and Mike Wallace conducted the show. Cronkite administered the test, and Wallace reported IBM computations of viewer scores.

### Praised by Critics

Newspaper television critics were virtually unanimous in their praise of the program. THE NEW YORK HERALD TRIBUNE reviewer called it "a tremendous show," while another described the telecast as "most useful and engrossing."

Howard Pyle, President of the National Safety Council, said that the safety effort which Shell sponsored was an important "extra" in the Council's annual program to reduce the anticipated record numbers of summer traffic fatalities. He added that the program's finding that errors in judgment are the major failing of motorists underscores the need that "more and more must be done to improve the nation's driving skills."

Many companies other than Shell stressed the program's importance by recommending the program to employees and by making test forms available. Other companies that distributed the forms included DuPont, Bethlehem Steel, International Harvester, General Motors and The Borden Company.

Soldiers at Fort Bragg, North Carolina, earned weekend passes by handing in completed drivers test forms.

# SRA Plans For Cruise On Admiral

An evening cruise aboard the Steamer Admiral Friday, July 23, is the next event on the Shell Recreation Association's calendar of activities.

One hundred tickets for the special event are available to SRA members at \$1.60 per person, a reduction of 40 cents from the regular \$2 excursion price. The tickets will be sold on a first-come, first-served basis at the Personnel and Industrial Relations Department.

### Leaves at 9 p.m.

The S. S. Admiral leaves the wharf at the foot of Washington Avenue in St. Louis at 9 p.m., returning at about midnight. Parking is available on the levee near where the Admiral ties up. The increasing popularity of the evening river cruises caused the limitation of tickets available for the July 23 cruise.



# Shell Review

Published monthly for the employees of the Shell Oil Company, Wood River Refinery.

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# Bray Is Named to Anacortes Position

R. W. Bray, Manager of Wood River Refinery's Engineering Field Department, has been appointed Chief Engineer at Shell's Anacortes Refinery, effective August 1. R. M. Weeks will return to Wood River from an assignment in Indonesia to assume the position of Manager Engineering Field.



Bray Weeks

In other recently announced department manager-level personnel moves, E. D. Underwood, Manager Engineering Services, has been assigned to a newly created Special Engineer position in which he will work on several projects of a special nature and report directly to Chief Engineer R. K. MacIntyre.

M. A. Hymel, Manager Utilities, will replace Underwood, and G. E. Sample, Manager Distilling, will replace Hymel. Responsibility for effluent control operations, now a part of the Distilling Department, will be transferred to the Utilities Department under Sample.

W. H. McAdams will transfer to Wood River from Head Office Industrial Relations July 1, to assume the position of Manager Distilling.

Bray joined Shell in September, 1949, at the Houston Refinery, where he served in the Engineering, Technological and Thermal Cracking Departments. He was transferred to Head Office in July, 1958, and came to Wood River as Manager Utilities in January, 1960. He became Manager Engineering Field April 1, 1963.

Weeks joined Shell at Wood River in July, 1948, and held positions in Engineering Office, Engineering Field and Engineering Services. He was named Assistant Manager Engineering

Field in August, 1961, and Manager Utilities April 1, 1963. He accepted a temporary assignment with Shell of Indonesia in early 1964, as Chief Engineer at the Balikpapan Refinery.

McAdams began his Shell career in 1955, at the Wilmington-Dominguez Refinery in California. He was transferred to the Head Office Technological Department in 1963, and to the Head Office Industrial Relations Department in April, 1964. He is a graduate of the University of New Mexico, with a bachelor's degree in civil engineering.

# Gas Department Merged After McCormack Move

D. C. McCormack, Manager of Wood River Refinery's Gas Department, was named Assistant Manager of Shell's Head Office Manufacturing Operations Department, effective June 16.



McCormack

In a departmental reorganization which followed, Thermal Cracking Manager H. J. Leamy was named Manager of a new Gas-Thermal Cracking Department, which includes the Gas plants and the Dubbs 17 and 18 Cracking units.

Flashers 1 and 2, formerly part of the Thermal Cracking Department, became part of the Catalytic Cracking Department under Manager A. W. Clark. The enlarged Catalytic Cracking Department also includes the new Cat Feed Hydrotreater, under construction.

D. R. Koester, Assistant Manager Catalytic Cracking, will be assigned Senior Engineer-Project, in Engineering Office, and J. V. Schauer, presently Assistant Manager Gas, will become Assistant Manager Catalytic Cracking. I. O. Baumgart, Assistant Manager Thermal Cracking, will be assigned as Assistant Manager Gas-Thermal Cracking.

McCormack joined Shell at Wood River in 1951, and served in the Experimental Laboratory, Distilling, Gas and Technological Departments until being transferred to Head Office

Technological in 1958. He returned to Wood River in July, 1963, as Assistant Manager Lubricating Oils, and was named Manager Gas October 1, 1964.

# Deaths

C. F. (Red) Stone, Dispatching Shift Foreman who retired July 1, 1961, died May 28, 1965.

W. D. Bates, Pipefitter who retired December 1, 1958, died June 3, 1965.

V. W. Parker, Process Superintendent who retired February 1, 1959, died June 5, 1965.

B. H. Joslen, Pipefitter Helper who retired January 1, 1951, died June 10, 1965.



A VISIT TO WOOD RIVER REFINERY by members of the St. Louis Desk and Derrick Club June 12, was quite an expedition. The group of club members, their families and friends left St. Louis aboard the Mississippi Belle, bound for the Shell docks at Hartford. Engine trouble on the chartered boat forced the 87 members of the group to transfer to chartered buses at the bridge over the Chain of Rocks Canal. The scene above shows them being helped onto the canal bank to be met by Refinery employees who were tour guides. After dinner in the Refinery Cafeteria and a tour of Refinery units, they re-boarded the Mississippi Belle at the Shell docks for the return trip to St. Louis, aided by a harbor towboat. The Desk and Derrick Club is an international association of women employed in the oil industry and related businesses.

# Ever Been Bitten by a Tiger ?

Ever been bitten by a tiger? Know anyone who has? Probably not. We don't have many tigers in this country. What few we have, we keep behind bars.

Second question: Ever been bitten by a dog? Know anyone who has? The answer probably is yes. Dogs run around loose by the million. Everyone—almost—has met a not-so-tame dog who has taken a taste.

It's not the "tigers" in industry—the high hazard machines and materials—that necessarily cause the most accidents. It's the "dogs"—the familiar, the half tame, the commonplace jobs—that most frequently bite the people who do them.

In planning safety work on your job, remember that more people have the bite put on them by dogs than by tigers.

# 27 Employees Have 40 Years

(Continued From Page 1)

Twelve other men and two women have reached or will reach the 40-year milestone in 1965. They are A. C. Harris, Engineering Field; F. L. Croxton and H. N. Nunnally, Lubricating Oils; I. E. Stull, Utilities; R. L. Bedwell, Compounding; W. E. Harper, Engineering Field; H. H. Travis, Catalytic Cracking; E. W. White, and E. L. Starkey, Thermal Cracking; P. L. Bledsoe, Catalytic Cracking; D. F. Vanfossen and F. E. Pullen, Utilities.

The ladies are represented in this group by Miss M. A. Teachout, Mailing and Filing; and Mrs. H. Z. Wardle, Purchasing-Stores.

# Several Personnel Changes Are Announced

P. J. Leininger, Assistant Manager of the Aromatics Department, has been appointed Group Leader of a newly established Construction Group in Wood River Refinery's Technological Department.

The function of the new group includes liaison among the process design engineers, operating departments and engineering departments during the mechanical design and construction of new refinery units.

I. W. Skaar of Head Office Financial Analysis and Statistics will be transferred to Wood River as Assistant Manager Aromatics, effective July 16. Skaar has served Shell in Head Office, at Norco Refinery, and on special assignment in The Hague.

In other recently announced personnel moves R. C. Bartlett, Assistant Manager Alkylation, has been appointed to the position of Special Analyst in the Product Availability and Economics Department of the Head Office Marketing Economics organization. The move was effective June 16.

Moves to Head Office  
M. A. Behrens, Group Leader in the Technological Department, has been appointed Senior Engineer in the Head Office Manufacturing Technological Department, effective August 1.

J. W. Davis, Assistant Manager Engineering Field, has been appointed to the position of Senior Project Engineer in the Head Office Manufacturing

Engineering Department, effective July 16.

R. E. Glenn, Engineer, Engineering Office - Projects, was named Assistant Manager Engineering Field, succeeding Davis.

Tech Department Move  
R. W. Wheeler, Engineer in the Technological Department, has been named to the position of Engineer in Head Office Manufacturing Operations, effective August 1.

R. C. Spillman, Research Engineer, was transferred to Head Office Research Department in that capacity June 16.

D. J. Hackett, Engineer, Technological Department, was named Engineer in Head Office Manufacturing Operations effective August 1.



H. N. Nunnally 40 Years Lube Oils  
R. E. Henkhaus 35 Years Refinery Lab  
J. Creekmore 30 Years Eng. Field  
H. Oliver 30 Years Eng. Field  
B. C. Cole 25 Years Fire & Safety  
J. A. Marshall 25 Years Technological  
C. E. Mitchell 25 Years Eng. Field  
M. M. Packard 25 Years Eng. Field  
N. W. Schulze 25 Years Gas

## 20 Years

R. R. Clem Compounding  
C. B. Elliott Gas  
H. L. Senteney Eng. Field  
A. C. Shelton Distilling  
R. M. Thornburgh Distilling

## 15 Years

G. G. Blackston Dispatching  
O. H. Taake Eng. Field

## 10 Years

W. G. Cline Technological  
R. E. Glenn Eng. Office  
D. E. Poling Research Lab  
T. Porter Jr. Refinery Lab  
S. E. Smith Eng. Office

# 120 Take Part in SRA Golf Day

Jim Maynard, Research Laboratory, won the top prize in blind bogey competition at the Shell Recreation Association's Golf Day Saturday, June 12. Maynard shot the par-70 Cloverleaf course in 66 strokes and had a blind bogey score of 65 to take the prize.

Second place went to C. W. Gibson, Engineering Field, with a score of 69 and third to R. A. Burton, Treasury, with 71. Fourth and fifth places went to Dave and Al Patton, respectively, both of Engineering Field.

K. J. Darte, Thermal Cracking, won the low scratch score prize with a 73. Roger Sparks, Treasury, was second with 75, followed by J. E. Kingery, Engineering Services, and L. E. Bethards, Personnel and Industrial Relations.

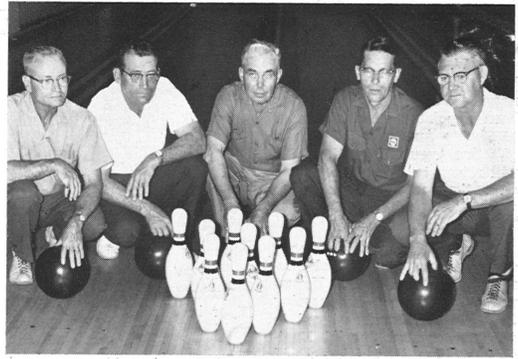
### Other Winners

Stan Sprague, Research Laboratory, won the prize for the longest drive, followed by Ray Robinson, Engineering Office, and Jess Grover, Engineering Field. In competition for closest to the hole on No. 12, J. I. Smith, Aromatics, landed 12 feet-six inches from the cup to win first prize, followed by R. E. Lewis, also of Aromatics, who was 19 feet away.

SRA officers report 120 golfers participated in the tourney and attended the dinner which followed at the Moonlight. A total of 64 prizes were awarded in the various events.



ADDING UP THE SCORES of their SRA Golf Day efforts are R. A. Burton and R. W. Sparks, Treasury, (seated), as E. M. Fabik and W. L. Schroeder, Treasury, and O. J. Wood, Shell Pipe Line, check their arithmetic. SRA officers report 120 golfers took part in the one-day tourney at Cloverleaf and the refreshment period which followed at the Moonlight.



REFINERY BOWLING CHAMPIONS for the 1964-65 season were the North Property keggers, shown here at the Bowl Inn alleys in East Alton the night they won a roll-off from the Mixers for the league title. From the left are R. B. Boyd, Retired; C. L. Shirley, Pipefitters; P. E. Potter, Field Machinists; N. E. Everett, Dispatching; and G. Van Doren, Pipefitters. The North Property bowlers won three straight in a best-of-three-of-five series in the roll-off.

## Five Pros Are Signed for Shell's TV Golf Program

Tommy Jacobs, Dow Finsterwald, Charles Sifford, Tony Lema and Bob Nichols are the first of 22 American and foreign golfers to be signed for Shell's Wonderful World of Golf 1966 television program. Announcement of the signing by Shell Oil Company, sponsor and producer of the program, marks the fifth consecutive year that the international golf show will appear on national television.

"Shell's Wonderful World of Golf" will be televised in color on the NBC Television Network and will feature top American and foreign golfers playing on the world's most famous and difficult courses. The television series will consist of 11 one-hour color matches. They are being filmed during the spring and summer of this year.

The countries and courses the signed golfers will play are: Tommy Jacobs, Ibaraki Country Club, Osaka, Japan; Dow Finsterwald, Valley Country Club, The Philippines; Charles Sifford, Selangor Golf Club, Malaysia; Tony Lema, Glyfada Golf Club, Athens, Greece; and Bob Nichols, Club De Campo, Madrid, Spain.

### Others to Be Signed

Each American golfer will play against a leading golfer of the nation in which the match is played. Other golfers are still to be signed to play courses in Scotland, Norway, Canada

and Panama. Two other matches will be played by American golfers in the United States—at the Air Force Academy Golf Club, Boulder, Colo.; and the Country Club, Brookline, Mass.

## Research No. 2, Utilities Lead Golf Leagues

Research No. 2 and Utilities were the leaders of the two Refinery golf leagues as action began the second week in June.

The Research No. 2 golfers, with an average of 21.5 points per match, were well out in front of their closest competitors in the Silver Shell League. Research No. 1 was in second place with 18.8 points per match, and Treasury and Research No. 3 were tied for third and fourth places with 18.7 points per match.

In the Premium League, the Utilities golfers were averaging 21.2 points per match, while the second place Thermal Cracking team had an average of 19.3 points per match. Field Office No. 1 and Refinery Laboratory golfers were tied for third and fourth places with 19.1 points per match.



A RESEARCH THREESOME totaling their scores includes C. E. Legate, D. C. Deck and R. W. Leonard. The threesome really was a foursome, but D. S. Durham stepped out of the picture.



ENJOYING THE LUNCHEON, J. I. Smith and G. L. Archibald of the Aromatics Department prepare to dig in.

## Hole-In-One by J. W. Carmody

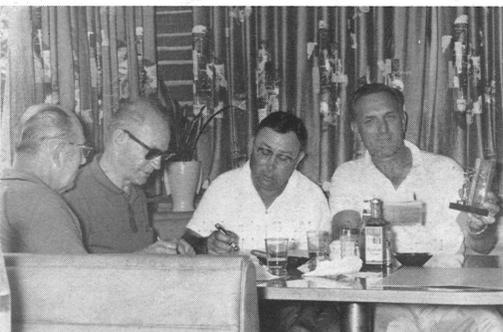
J. W. Carmody, Engineering Services, scored a hole in one Sunday, June 13, at the Granite City Depot golf course. Carmody scored the ace with a five iron on the 165-yard hole.

## Shell Develops New Lighter Fluid For Barbecuers

Your Shell dealer now has on sale a new product tailored to help you enjoy the summer season. It is Shell Barbecue and Fireplace Lighter Fluid.

The Fluid, which sells for 59 cents, comes in a quart-sized container. The product is a heavier fraction of alkylate containing no aromatics or unsaturates, and it burns cleanly without smoke or odor.

Shell Barbecue and Fireplace Lighter Fluid is unlike most competitive charcoal starter fluids that are merely kerosene, and are notorious for smoking and bad odor. The new Shell product is another example of the high quality of all Shell products available from the 25,000 Shell dealers coast to coast.



LISTING THE WINNERS was the task of Retiree Oscar Kleinert (second from left) and H. D. Nelson, Engineering Field. Retiree Elmer Barnett watches from the left, as SRA President J. A. Hmurovich shows one of the prizes to the cameraman.

SHELL OIL COMPANY  
Wood River, Illinois 62095

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