

## School expanding with Shell's help

Marquette High School in Alton is \$12,500 closer to a new wing with a recent Shell Companies Foundation, Inc. donation that matched private contributions by Wood River employees and pensioners two to one.

The donation was part of the Shell Matching Gifts program instituted in 1978 to encourage employees and pensioners to join the Foundation in the voluntary support of colleges, universities and private secondary schools.

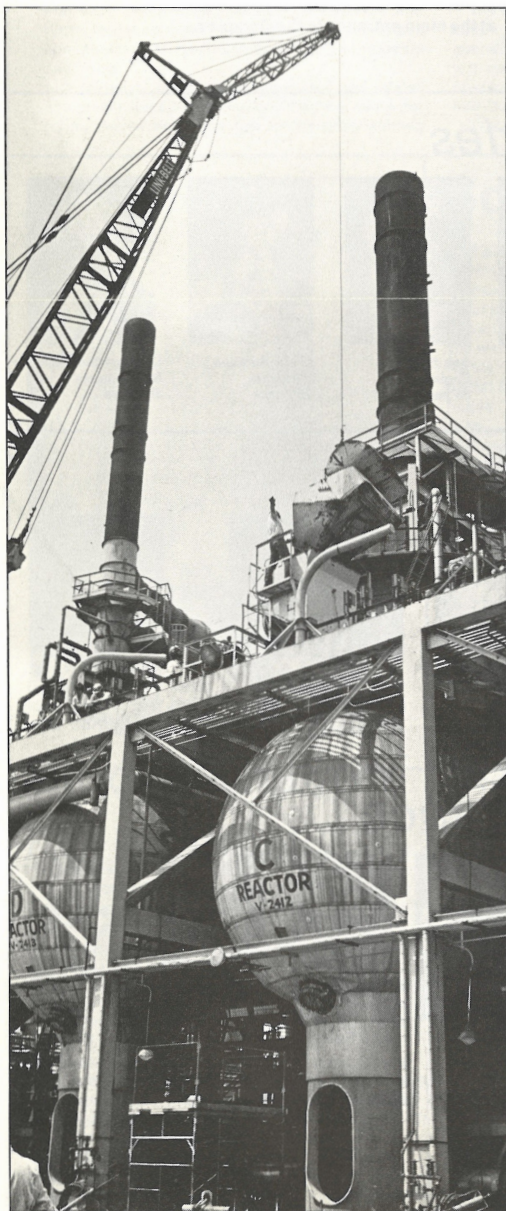
The Shell donation will be put toward a million-dollar expansion program started several years ago. The work is necessary to relieve the current overcrowding and to bring the building up to safety code standards. Marquette is a Catholic High School owned and operated by the Ursuline nuns in cooperation with the Catholic parishes and parishioners of the Alton area, including Wood River, Godfrey and East Alton.

"Shell is our largest single contributor to the campaign," said Sister Rose Marie Moran, principal. "That really makes an impression."

Since the expansion was started, 123 Shell employees and pensioners have contributed \$25,689 to the program and the Shell Companies Foundation, Inc. has matched that figure with \$51,378. That brings the total Shell contribution to Marquette to over \$77,000.



In sight of the construction area at Marquette High School in Alton, A.R. Williams, far right, complex manager, presents a \$12,500 check to Emmett Fitzgerald, head of the Marquette Advisory Board; Sister Sebastian Vizard, Supervisor of the Ursuline Convent; and Sister Rose Marie Moran, principal.



A crane lifts a hopper full of catalyst to the top of reactor C during the last phases of the CR-3 shutdown. Reactor C was the fifth and last reactor to have catalyst replaced in the shutdown.



## Wood River Review



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# CR-3 shutdown allows much deserved rest

Catalytic Reformer-3 is enjoying a much deserved shutdown after a two-year run that went beyond the original projected shutdown date by two months.

CR-3 isn't often allowed to rest from her task of turning heavy gasoline fractions into more usable higher octane fractions. The unit has been taking in gasoline feed non-stop for over two years. In the presence of a platinum based catalyst and under controlled temperatures and pressure, CR-3 changes the chemical structure of the gasoline so it has higher octane qualities.

An air-preheat unit was installed and regular maintenance performed during the last CR-3 shutdown in 1979. The unit was put back on stream in April with hopes that it would go two years without a shutdown.

J. I. Smith, process manager, Aromatics East, attributes the over two-year run to four areas: good construction, good maintenance, good inspection and good handling by the operators. "Whenever you can exceed a two-year run, you're better than most," said Smith.

Work on this shutdown falls into three areas: construction work on the catalyst regeneration section, screening and replacement of the catalyst, maintenance work to the furnaces that heat the unit, and general maintenance and clean up.

In the major part of the shutdown, the platinum based catalyst was taken out, screened, and reloaded in two of the five reactors. The other three reactors received new catalyst. Two reactors had new catalyst put in during a prior shutdown and, with a cleaning, this newer catalyst will still have several years of life. A third reactor also got new catalyst, but it was found that it needed to be replaced along with the older catalyst.

John Edwards, engineer in P&PE, explained that the catalyst is made up of aluminum oxide beads with platinum throughout. Pores in the bead plug up and need to be cleared. When the pores can't be cleared any more, the spent

catalyst is sent out to have the platinum recovered. The metal is then reworked into new catalyst.

"We actually own all the platinum; it was bought with the plant," said Edwards, explaining that the metal is very expensive. "We handled about \$7 million worth of platinum catalyst in this shutdown," he said.

The reworked catalyst carries a high price tag also, even though the cost of the platinum is not included. According to Edwards, the three reactors worth of catalyst purchased for this shutdown cost \$600,000.

Four of the five reactors are running at any one time when CR-3 is in operation. Catalyst from the fifth reactor is put through the regeneration section where it is cleaned and coke deposits are burned off. A new unit will be added to the regeneration section after the shutdown to remove water from the system to improve the efficiency of the catalyst.

The start of the CR-3 shutdown was followed with a shutdown of the Benzene Extraction Unit (BEU), which depends on feed from the two catalytic reformers. With CR-3 out of commission for the shutdown, CR-1 has to supply all the heavy reformate for the gasoline plant, and wouldn't be able to provide all the light reformate the BEU needs.

The major part of the BEU shutdown is the annual cleaning of the heat exchange equipment in the feed fractionation part of the plant, according to Richard Gerth, process manager Alkylation.

"The feed fractionation section fractionates light reformate into a benzene cut that is fed to the extraction section of the plant," explained Gerth. Benzene is used as a solvent for fats and in making lacquers, varnishes, many dyes and similar compounds.

The couple of weeks needed for the shutdown work is all the rest CR-3 is going to get. Soon she'll be back at non-stop work, perhaps for another over two-year run.



# Shell shorts

## Wood River employee named to state board

The Illinois Board Of Boiler and Pressure Vessel Safety Rules has selected a Shell employee as its newest member.

**Tony Calcaterra**, maintenance manager-administration /construction, was appointed by Governor Thompson to the board. He has already attended his first meeting, held in June.

The board was created in 1951 and operates out of the state fire marshal's office. Its purpose is to develop and interpret the rules of the Boiler and Pressure Vessel Act and to ensure safe construction and use of pressure equipment in Illinois. Calcaterra will attend regular meetings as a member of the board.

The seven-member board has representatives from labor and industry. Calcaterra is representing owners and users of high pressure boiler and pressure vessels. He has been a registered professional engineer in Illinois for 25 years.

## Wood River Pensioner's dinner set

The date for the Wood River Pensioner's dinner has been set for Oct. 31 at the Wood River Moose Hall. Mark your calendars now. More information will be coming later.

## Bass tournament 'nets' winners

The SRA bass fishing tournament, held June 13 at Otter Lake in northern Ill., had 16 participants trying for master fisherman honors.

Coming in first place was **Orville Rahn**, Quality Control, with a two pound catch. Second place went to **Dick Pond**, truck driver, with one pound, two ounces. Third place was taken by **Larry Stark**, with a one pound catch, Distilling.

The next fishing tournament will be held Sept. 12 at Kinkaid Lake in Murphysboro, Ill.

## 1982 Calendar features color reproductions

Americana Calendar fans, the 1982 model awaits you.

Once again this popular calendar features nostalgic scenes from America's past in full color. They are reproduced from paintings by award-winning artist Charles Wysocki.

Special price for Shell employees and pensioners is \$4.20. Orders of 12 or more, delivered to one address, reduce the price to \$3.70 each. (Suggested retail price is \$8.00.) Decorative corrugated mailers for calendars to be sent as gifts are available at \$.30 each.

To order, make check payable to Amcal, Inc. Add \$1.50 per order for postage and handling.

Send check and order information to Amcal, Inc., 1050 Shary Court, Concord, California 94518.

## Oil Products booklet released

The Oil Products organization has achieved outstanding success in the business of refining and marketing petroleum products, states J.B. Henderson, Executive Vice President, Products, in a new Shell booklet.

"In our Oil Products business, we rank among most efficient and profitable of major oil companies," says Henderson.

The booklet describes how Shell runs its Oil Products business, makes comparisons with others who manufacture, transport, and market refined products, and shows how Oil Products fit into Shell's crude oil-transportation-refining-marketing-chemicals chain.

Addressed primarily to the financial analyst community, the booklet also may appeal to readers with a more general interest in oil companies.

Copies of the booklet, titled "Oil Products," are available from Public Affairs, Room 1535, One Shell Plaza.

## Hey kids—

**If your mom or dad works for Shell and you are between the ages of five and 13, you are eligible to enter the safety poster contest. It's a great chance to win some really neat prizes, and maybe your poster will be featured in the 1982 Shell safety calendar. Watch your mailbox for more details!**

## Classifieds

**Car tires.** Four G78-15 radial tires, 32,xxx miles, \$50 for all four, call Quint Nungesser, ext. 2345.

**1976 Subaru coupe.** Five speed, 35 MPG, \$1600, call A. Depping, 632-7573.

**Washer and dryer.** Automatic Kenmore electric washer and dryer, two years old, excellent condition, price reasonable. Call W.L. Little at 656-7930 or 465-9054.

**1975 Buick LeSabre.** Custom 2-door, Landau roof, air conditioning, power steering, power brakes, AM-FM stereo, good

rubber. Call L. Whitworth, 633-2351 after 5:00 or on weekends.

**Camper shell.** 36" camper shell, electric, light pack insulation, double windows and slip, carpeted, \$275. Call Mr. Sackman at 462-8436.

**Guttering.** 186 ft. of used, embossed aluminum guttering, complete with joints, downspouts. Call retiree Lowell Crossman, 254-4997.

**Handmade windchimes.** Sound like church bells, \$17.50. Call retiree Lowell Crossman at 254-4997.



## Safety over the rainbow

Adding tape to the safety rainbow, J. D. Leichsenring, safety inspector, chalks up more safe working days on the board. The rainbow is located outside the cafeteria at the main entrance to the Complex.

## Anniversaries



**John Gerson**  
Aromatics-E  
35 years



**Louis Mor**  
Maintenance  
25 years



**Bob Port**  
Engineering  
30 years



**Lloyd Rudolph**  
Financial  
25 years



**Lamoine Schoenleber**  
Maintenance  
30 years

## Retirements



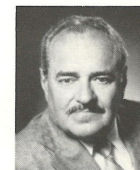
**"Burgy" Burgdorf**  
Maintenance  
38 years



**De Alton Dickinson**  
Maintenance  
38 years



**Maynard Green**  
Purchasing  
38 years



**John Reynolds**  
Maintenance  
39 years

## In remembrance



**V. V. Lucas**



**C. F. Oglesby**



**J. Paur, Jr.**



**A.G. Rahn**



**R. E. Tjaden**



**C. H. Sharp**

Vern Velvet Lucas, 83, died May 19. Mr. Lucas was a Container Man 1st in Compounding before his retirement in 1958.

Calvin Foster Oglesby, 74, died May 21. Mr. Oglesby was a Compounder 2nd in Compounding before his retirement in 1966.

Joseph Paur, Jr., 71, died June 6. Mr. Paur was a Field Machinist 1st in the Engineering Field before his retirement in 1972.

August George Rahn, 73, died May 17. Mr. Rahn was an engineering foreman in the Engineering Field before his retirement in 1967.

Conda H. Sharp, 81, died May 1. Mr. Sharp was a laborer in Engineering Field before retiring in 1960.

Robert Edwin Tjaden, 68, died May 22. Mr. Tjaden was a concrete finisher in the Engineering Field before his retirement in 1973.

# IBM 4300 getting down to work

The day the Wood River Manufacturing Complex is connected to the new IBM 4300 computer is closer now that necessary rewiring has been completed and equipment is being put into operation.

Major rewiring of the computer room in the basement of the main office building had to be done to prepare for the new computer and related equipment. The new IBM 4300 had taken over the functions performed by the old computing system by the end of June and will pick up other functions later.

Wood River is the first Shell manufacturing location to receive an IBM 4300 computer. Once the system is fully installed and operating, it will perform a wide variety of information gathering and reporting functions. Approximately 75 cathode ray tubes (CRTs) — terminals that resemble television screens — and 30 printers will be installed throughout the Complex to give users quick access to the computer.

According to Paul Grover (P&PE), project manager, the rewiring process could be more accurately described as a series of moves.

First, programmers had to be moved from their office west of the computer room to a nearby area.

Next, the vacated programming room had to be wired to temporarily handle the computing systems that were being used, including the Univac and Harris terminals connected by the Shell microwave communications system to computers in Houston and Tulsa.

In the next phase, the two terminals and related equipment were disconnected from the computer room, moved down the hall to the programming

room, and reconnected in a matter of minutes in order to keep communications as continuous as possible.

Once all the equipment had been moved out of the computer room, the nine-inch raised floor was removed so wiring that had accumulated from equipment dating back to 1960, when the first computer was installed in the room, could be removed. Electricians finished the rewiring and a new floor was installed a few days before the computer arrived.

The first new applications of the computer and terminals will begin with test runs in August, said Al Slivka (Financial), project coordinator. Three systems have been selected for initial application at Wood River and other Shell locations expected to receive IBM 4300 computers in the future: a financial accounting system, an operating data system, and a manpower utilization and tracking system.

The financial accounting system will be the first put into operation. This system will provide revisions to the financial accounting system to allow use of CRTs to report and validate Wood River's data relating to disbursements and accounting. The target date for this phase is the end of July.

The operating data system will be the next application. This system is designed to provide key operating data to process managers. The system will also perform calculations to optimize boiler operation. This phase should be put into use in mid-October.

The manpower system is targeted to be put into

operation in October or November. The system will keep records on overtime callouts and automatically determine who is next in line for overtime work. The system will also be used to allocate Maintenance employees to priority projects.

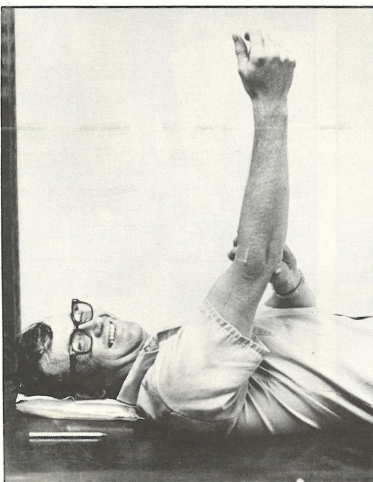
Slivka said the last complete business computer at Wood River was removed in 1972. At that time, Shell's Information and Computer Services decided to centralize and standardize data processing from company locations throughout the United States to the Information Center in Houston. Wood River has continued to use technical and process computers.

More control is now being returned to the field locations, Slivka said, as evidenced by the IBM 4300 project.

Eventually most staff and operating employees will be trained to use the CRTs, said Slivka. Training plans are being formulated for hands-on training in the Main Office, or possibly on site as CRTs become operable.

"Initially, several hundred people will be involved," he said. "But as the use of the computer grows, more and more people will receive the training."

The IBM 4300 project has been a major project at Shell, and an important one. "Teams of people have been working behind the scenes to make this project work," Slivka said. "We've never had such a tremendous opportunity to design systems and be in the forefront, so this is really a pioneer effort. There was a big need for this computer, and hopefully, it will be around for many, many years."



Holding his arm aloft to allow the blood to clot, Ray Tiona, boilemaker, flashes a grin after donating blood for the first time at Shell.

## Blood donation not pint-sized

Shell Wood River employees did it for the Red Cross again this year, collecting 365 pints of blood at a time when it is needed most.

"We're always low in the summer, and with the Fourth of July holiday coming up we really needed to overcollect," said Kitty Toombs, Blood Services consultant for the Alton-Wood River chapter of the Red Cross. "The Shell blood drive always comes at a time to help us through a low period."

Besides helping fill a community need, blood donors also had the opportunity to register in a drawing for a free case of SHELL FIRE & ICE motor oil. The winners were: Paul Berney, Jr., Engineering Services; Steve Erston, Maintenance; Terry Green, Quality Assurance; Jim Grimes, Safety; Bob Klug, P&PE; Wayne Michalik, Quality Assurance; David Miller, Lube; Tom Miller, Aromatics East; Stan Pohlman, Jr., Maintenance; George Reddish, Lube; Matthew Smith, Maintenance; and Bill Tester, Engineering Services.

## Softball a hit with SRA women



"Talk it up out there," the coach admonishes. "You can do it, Barbie. Watch your arc. Put it in there. Good call. What do you mean strike? 'Bout time you called one right. Good eye, Suzy. Make it a single, Evelyn. Let her hit a homer if she wants to. Just a little hit, Bev. Make it yours, Nancy. Don't worry. Nobody hurt. Run! Get back!! Out of play. I hit it - it went way over their heads."

They call it chatter, the good natured sound that rolls off Kendall Hill Park every Monday evening, when it doesn't rain, as the new women's softball teams meet. The Shell's Angels facing off against the Leftovers.

In this league, abilities aren't nearly as important as wanting to play ball. "It really doesn't matter what kind of an athlete you are," said organizer JoAnn Manning, P&PE. "We're just trying to make a fun evening out of it."

With all the fun they're having, the women would like to see more get involved. "We'd especially like to let the wives know they can come out and play," said Manning. "Don't worry that you won't know anyone — our whole team didn't know each other. But we're getting to."

It's not too late to join. Interested women can find out more by calling Manning at 254-7371, ext. 2382. Eventually the softball players would like to have two more teams, and get the league in gear for coming years.



Above; Barb Paul, Financial, lofts a ball for the Shell's Angels.

Left; JoAnn Manning manages to grin and grit her teeth at the same time, waiting for a pitch to score for the Leftovers.

Most of the game so far have had very close scores, but the Leftovers were leading the Shell's Angels 3-1 at last report.



# Learning to fight fires by doing

WRMC fire training school is back in session, giving Shell personnel from all areas of the Complex the chance to get some hands-on experience fighting fires.

Every Friday afternoon between now and the end of September, 15 or so employees will be given the opportunity to learn by listening and doing. After a talk about fire fighting, the group gets a chance to practice squelching controlled flames staged in the practice area at the east end of the Complex.

"We're trying to get people familiar with the types of fires and what sort of extinguisher you should use on them," said Leroy Langendorf, senior safety inspector over the fire department. "One of my famous sayings is, 'Don't put water on an electrical fire or your ears will light up.'"

Anyone who has attended a fire training session would know better than to use water on a Type C, or electrical fire. CO2 or dry chemical is the type of extinguisher that should be used. As Langendorf tells his fire fighting students, Type A fires are highly combustible things like wood, paper or clothing. Water works best for these types of fires. Type B fires would be burning hydrocarbons, gas, oil, or grease.

"After we tell them about it, we actually go in and build a fire for them to practice on," said Langendorf. "If you can get your hands on it you can learn a lot more. It gives people an idea how to use an extinguisher. They can see for themselves what effect it has on a fire."

Practice can really make the difference. "The more you do it the better you get at it," said Langendorf. "We see this with our regular fire crews. The job of putting out a fire is getting easier and easier as they get more experienced."

The name of the fire fighting sessions was changed this year from "operator fire training" to "fire training." This was meant to open the session up to more people.

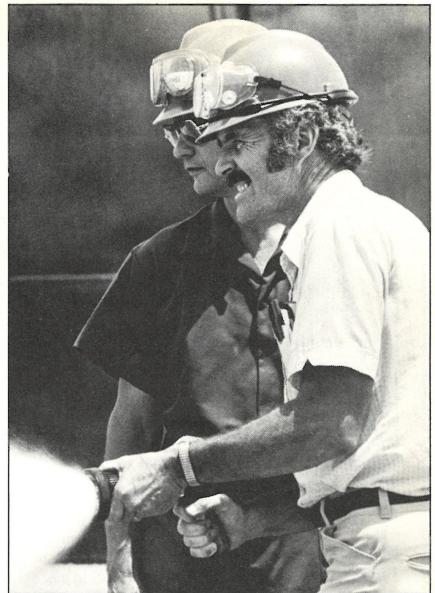
A letter was sent to all departments explaining that the sessions were open to all personnel, said Langendorf, and it was then left up to the departments to schedule.

Employees who attend the sessions get the opportunity to put out several types of fires. Pan fires are set by lighting gasoline that has been pumped onto a pool of water several feet in diameter. When the pump is working, the students also get to try their hand at a two approach fire; a gasoline fire is pumped from a flange six feet off the ground, and a ground fire is set also. The sessions also go into some hose handling.

Each participant is given the opportunity to put out the fire alone, and then with help.

"I like for them to get the fire out, but that isn't the most important thing," said Langendorf. "You have to know the equipment and how to get at it. If you have to find it, and then you find it but don't know how to operate it, you might as well not have it."

By having had the opportunity to fight a fire in a controlled environment, Shell employees will be better able to handle a fire in their work places or homes.



Top; Giving the flames a glare, Al Hosto, maintenance foreman, moves in at the head of the fire hose with safety inspector Leroy Langendorf at his side. Left; Using a wide fog pattern for personnel protection, fire training participants move in toward the flames. Bob Gray, Quality Assurance, leads the way with Janice Wendel, Quality Assurance, and Mary Ayres, operator in Gas close behind.

Above; Langendorf explains the course of attack to use for the various types of fires staged in fire training.



## Wood River Review



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