



review

WRMC Uses CAER in Handling Benzene Leak



"The professional manner in which Shell employees responded to the benzene leak was truly outstanding," said Cliff Woodford (left), manager-Dispatching and captain of WRMC's Emergency Response team (RAT). Woodford headed up clean-up operations by Complex laborers, truckdrivers and contract drivers.

Photos courtesy of John Badman

Community Awareness - Emergency Response (CAER) is a concept whose time has come. This program was initiated by the chemical industry to accomplish two main objectives: 1) to develop a community outreach program and to provide the public with information on products manufactured or used at local plants, and 2) to improve local emergency response planning.

At approximately 9:30 a.m. on January 30, Complex employees responded to a report that Shell's pipeline at Rand Avenue and Highway 111 was leaking. The pipeline was quickly shutdown, but not before 200 barrels of product had leaked into limited areas of nearby ditches.

WRMC's Emergency Response Ac-
continued on page 2



Harry Rolins (right), manager-Safety and Industrial Hygiene, discusses evacuation plans with Roxana chief of police, James Loyd.

"Communications with all the local and regulatory agencies went very smoothly. This incident was a good example of the kind of communication which should occur in an emergency situation," said Rolins.

Benzene Leak...

continued from page 1

tion Team (RAT) members, including **Cliff Woodford**-captain, **Al Larsen**, **Jim Grizzle**, **Bob Brannan**, **Joe Sapienza**, **Cal Caldieraro**, **Jack Ridinger** and **Virgil Icide**, quickly responded to contain the spill. Emergency Response Team members are specialists in handling such emergencies.

Rand Avenue and the southbound lane of Highway 111 were closed to traffic while team members scanned the area using vapor detector tubes to monitor the level of concentration of vapors. As a safety precaution, homes and businesses in the immediate area were evacuated.

Meanwhile, **Bill Carr**, superintendent-Environmental Conservation/Utilities, **Gina Pruitt**, engineer - Environmental Conservation/Utilities and **Joe Brewster**, technical manager-Environmental Conservation/Utilities notified the proper industry and environmental authorities. At the same time, **Harry Rollins**, manager- Safety and Industrial Hygiene, informed the local Roxana fire and police departments of the incident and asked them for backup support. The police and fire departments played a valuable role in quickly and safely evacuating the area residents.

Temporary 'headquarters' were set up for Shell employees, local authorities and industry representatives across the highway in the Complex's storage warehouse. The headquarters were equipped with a communications system and tracking board so that appropriate Complex personnel and local authorities could get the most current information on the situation.

As the day progressed, it became apparent that cleanup operations would continue through most of the day Friday. After reviewing the situation at 4:30 p.m., a joint decision was made by rep-



Safety inspector, Terry Rodeheaver, takes a measurement of the benzene vapors in the immediate area of the pipeline leak. As a safety precaution area residents were evacuated from their homes and housed at a local motel at WRMC's expense.

representatives from Shell, Illinois EPA, local police and fire personnel to extend the evacuation of nearby residents overnight.

Don Baker, manager - Community Relations, arranged for overnight accommodations and with **Jim Loyd**, Roxana police chief, advised the families the decision. Feedback from the displaced families indicated the accommodations were quite satisfactory. In fact, many indicated they would have enjoyed staying another night.

Before the families were allowed to return home on Friday, a random check

of vapors was conducted of area homes and businesses by representatives of the Illinois EPA and Shell. The test quickly indicated the area was safe and the families were allowed to return home.

The last of the spilled product was recovered and returned to the plant for reprocessing by Sunday, February 2.

While spills of this magnitude are rare, it is important to respond to them quickly and safely. A cooperative response effort, such as the one experienced during the benzene spill, results in better communications and is the backbone of the CAER program.

1985 'Record Quarter, Slight Decrease for Year'

Fourth quarter earnings reported \$652 million in consolidated earnings for the fourth quarter of 1985, an increase of \$71 million from the same 1984 period. Full-year earnings were \$1.650 billion, a decline of \$122 million from last year.

Positive operating factors affecting quarterly and full year results included increased sales volumes of refined products and natural gas. Also, earnings benefitted from a settlement associated with renegotiation of certain natural gas contracts, cost reductions associated

with last-in, first-out (LIFO) inventory valuation, and a reduction in pension expense because of new implementation of a new accounting standard. Reported earnings improvements were slightly offset by lower prices for crude oil and chemicals.

Revenues were \$5.5 billion for the quarter and \$20.5 billion for the full year. This compared with \$5.3 billion and \$20.9 billion for the respective 1984 periods.

"Oil products earnings were \$167 million in the fourth quarter, an increase of

\$102 million from the same 1984 period," said **John Bookout**, president-Shell Oil Company. "Full year earnings of \$269 million increased \$6 million."

Margins improved from the fourth quarter of 1984 due to lower raw material and refinery fuel costs. Average selling prices in the fourth quarter were slightly less than last year, with price gains in gasoline more than offset by lower realizations in jet fuel and residual fuels. Refined product sales volumes increased 11 percent, led by an advance in gasoline volumes of 10 percent.

DU-1/VF-1 Shutdown Underway

The Major Projects Organization has completed almost two-thirds of its activities. The Distilling Unit 1/Vacuum Flasher 1 (DU-1/VF-1) shutdown, which began in late January and is scheduled for a June start-up, is one of MPO's last shutdowns. The Catcracker 1 shutdown, planned for March, will conclude MPO's shutdown activities.

"The most significant work in the current shutdown is in the piping, heat tracing and piping insulation areas. Once all of the MPO and Maintenance revisions have been made DU-1/VF-1's capacity and energy efficiency will be increased," according to **Dan Daley**, DU-1/VF-1 project/shutdown manager.

"We are trying to do an exceptionally good job with the current MPO revisions and Maintenance work so that we can maximize run lengths of the units after the shutdown. Previously, the units had to be shutdown for run and maintain repairs every 18 months. After completing the work we are doing on this shutdown, run length time will be increased and routine shutdowns will occur only once every five years," adds Daley.

"The changes that are being made to the units in the DU-1/VF-1 shutdown will have a significant impact on the Operations people. It will be very much like running completely different units after the revisions are made. I think it's a very exciting time," says **Gil Baxter**, process manager - DU-1/VF-1.

"The operators are currently going through training and there seems to be a lot of enthusiasm. The acceptance level of changes in DU-2 was great and I'm hoping that the enthusiasm will carry over to DU-1," adds Baxter.

DU-1 Progress

"With most of the equipment in place, we are concentrating on installing the piping, heat tracing, insulation and instrumentation as well as the normal run and maintain activities," says **George Johnson**, project engineer - DU-1.

Following are some significant details regarding DU-1 shutdown activities:

- The furnace tubes in DU-1 are being straightened or replaced. The tubes will be re-installed beginning in March.
- Workers are continuing to install piping with a remainder of approximately 3 1/2 miles of piping yet to be installed.
- Removal of 6,000 sq. ft. of trays in the secondary column and installation of new trays and internals is expected to improve the distillation process in the columns.



Workers are lifted by crane to prepare the stack on the Vacuum Flasher 1's furnace for demolition. The old furnaces which had an efficiency rate of 70 percent are being replaced by new super efficient furnaces with a rate of 94 percent.

- With the addition of 43 new heat exchangers DU-1 will demo one furnace and be able to run on the two remaining furnaces.

"As far as our safety record is concerned we are doing slightly better than the MPO goal of three for lost time accidents per 200,000 man hours," adds Johnson.

VF-1 Progress

"We're running very close to schedule," says **Bob Schobernd**, construction coordinator for the VF-1 shutdown.

"We have a great deal of work to complete. Some of our more significant work is in the area of piping. As part of that we will be setting a semi-modular pipe rack in place next month," says **Tom Ingvalson**, project engineer for VF-1.

Some of the more significant VF-1 activities include:

- Installation of 18 new heat exchangers.
- Demolition of two furnaces which will be replaced with new high efficiency furnaces.
- Installation of 20 new pumps.
- Installation of four new vessels.
- Demolition of 17,000 feet of pipe and installation of 37,000 feet of new pipe.

"Our safety record has steadily improved. We are currently below the industry-wide construction average in recordables and lost time accidents," says Ingvalson.

Knowing Is Not Enough

If you have walked through the DU-1/VF-1 shutdown area lately you can't help but notice the conspicuous yellow flags posted throughout the area with the red letters "KNE". The yellow flags are reminders to be cautious and be careful before an accident takes place. The red letters "KNE" are a reminder that "Knowing is Not Enough".

The idea is not a new one but it is a good one. The safety record for contractors working on the DU-1/VF-1 shutdown is proof positive of that. Since the program was initiated the accident rate has improved and the average for lost time accidents are below the construction industry's average.

According to the "KNE" philosophy trouble can occur when people do not practice what they know. For instance: 1.) Everyone is aware that smoking harms our lungs, 2.) That drinking alcohol before driving impairs coordination, 3.) That driving without wearing seatbelts can increase the chances of injury in auto accident, etc. But still

many people refuse to accept the fact that something bad can happen to them if they do not follow up on impulses they know are correct. These attitudes are a by-product of impatience, impulsiveness of a feeling of impunity or IMP'S for short. The IMP'S are highlighted by mini team members who discuss the IMP'S during monthly tool box safety meetings.

"Most people know the right thing to do but sometimes everyone can use a reminder to keep from cutting corners and doing things unsafely," says **Dan Daley**, DU-1/VF-1 project/shutdown manager.

MY STORY/PHOTO IDEA IS:

SUBMITTED BY:

CLIP & SEND TO EDITOR, MAIN OFFICE



Keith Sedlacek, operator at the Sulfur Plant makes a routine check of instruments. The sulfur generated from the refining process is handled through the Sulfur Plant where the excess is sold on the open market.

Environmental Conservation/Utilities

“The Environment Conservation/Utilities department services the Complex in three areas by, supplying the required utilities to run the facilities, handling the non-hydrocarbon by-products that are generated by our operations and ensuring that our operations comply with environmental regulations,” says **Bill Carr**, superintendent-Environmental Conservation/Utilities.

“Our basic function is to support the operating departments in their primary business of generating the products we sell. We are here to provide a reliable supply of utilities, assist with waste disposal and in conjunction with the EOS Environmental/Utilities group assist with environmental regulatory and operations matters,” adds Carr.

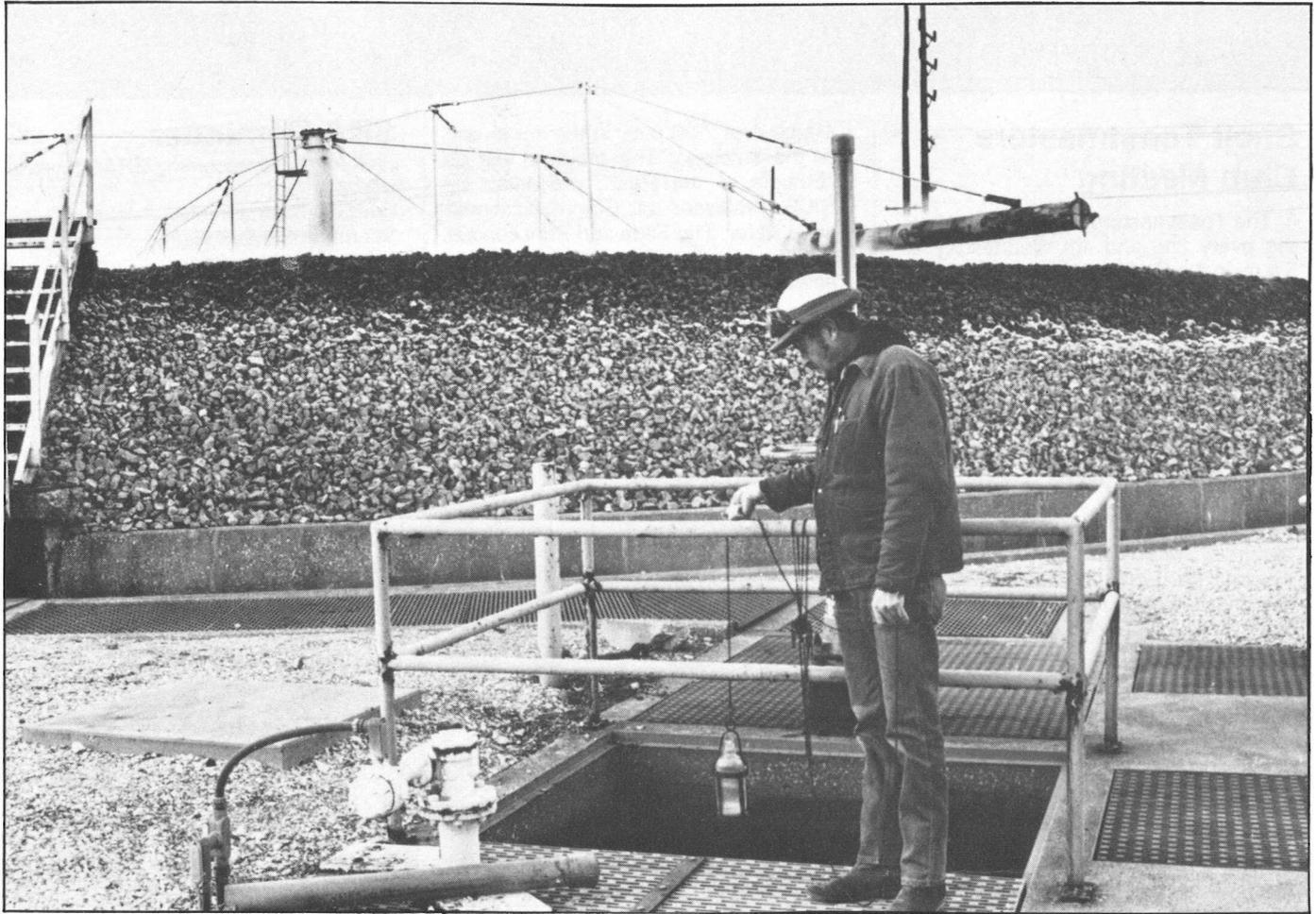
‘Utilities’

The Utilities department is responsible for generation of steam and emergency electrical requirements and distribution of electricity, steam, boiler feedwater, air, domestic water and nitrogen. Utilities is also responsible for operation of the North property well systems and the oil recovery facilities, issuing and monitoring the Complex’s waste disposal sites.

“The Utilities department is responsible for ensuring that Complex Operations has adequate utilities to meet their



Utilities Control Room operators, Bess Walker (left) and Ron Smith (right), use the Utilities TDC to generate steam and monitor utilities usage for the Complex.



Leroy Edwards, operator, takes a sample from the effluent system. The Effluent Treatment Plant processes between seven and eight million gallons of per day of water to ensure its integrity before it is sent back into the Mississippi River.

needs. In accomplishing that goal we monitor utilities usage with the intent of reducing overall utilities costs by identifying areas where efficiencies could be improved," says **Mike Riener**, manager-Utilities.

Electricity is used to drive most of the equipment in the Complex. Currently, WRMC is Union Electric's largest customer with an incoming power supply of about 80 megawatts. Steam, which is generated within the Complex, is another substantial source of energy used in the process units. The air supplied by Utilities is used principally for Complex instrumentation and maintenance power tools. Nitrogen is a back up source for instrument air, regeneration of the reformers and is used for drinking and safety showers. Boiler feedwater is distributed throughout the Complex for use in the stationary boilers and for waste heat steam generation.

'Environmental Operations'

The Environmental Operations department services the Complex by re-

generating sulfuric acid used in the alkylation process, by reducing the sulfur dioxide and ammonia emissions to the atmosphere, and finally, by cleaning the process water before it is returned to the Mississippi River. These processes are completed in the Complex's facilities located west of Route 111. The department includes the Sulfur Recovery Unit, the SCOT Unit, the Sulfuric Acid Plant and the Effluent Treatment Plant. The products from the Environmental Operations processes, namely sulfur and 93 percent sulfuric acid, are sold to other companies. Spent acid is regenerated and the 99 percent sulfuric acid is a catalyst for WRMC's Alky Unit or shipped in tank cars for use at Deer Park. The Effluent Treatment Plant processes between seven and eight million gallons of water per day in order to meet the effluent treatment needs of the Complex.

"Something new that we are working on in Environmental Operations, is implementing the basic production unit (BPU) concepts into our work," says **Jay Burack**, process manager- Environmental Operations.

"It is important to remember that the goal is to have a safe, cost effective operating department. The BPU is a means to achieve that goal," adds Burack.

A BPU is composed of operators, crafts, maintenance and operating foreman, operations and maintenance supervisors, engineers, specialists and a manager. Safety, quality and cost effective operations are each member's responsibility in the BPU. To accomplish this, members of the BPU will have input in decisions which affect the operation of the department. This may require some employees to rethink how they are currently doing their business.

"The key factor in a BPU is that employees start to feel more responsibility for their work areas. They in fact become 'mini-managers' of their own work scope responsibilities," adds Burack,

"The BPU will allow more employee input in decision making and involvement in the way our business is run which we believe will improve our operating results," says **Ralph Jerrels**, maintenance coordinator for the Environmental Operations department.

SRA Happenings

Shell Toastmasters Club Meeting

The Toastmasters Club is now meeting every 2nd and 4th Wednesday at 5 p.m. in the Red Room of the cafeteria. Everyone is invited to attend! Check out the Toastmasters Club it could be just what you have been looking for! For information call **Leonard Franklin** at ext. 2766.

SRA Easter Egg Hunt

The SRA Easter Egg Hunt will be held Saturday, March 22, at 11:00 a.m. at Kendall Hill Park. All children 12 and under are invited to participate for candy and prizes. Hope to see you there!

Congratulations Basketball League Winners

A Division- "Half Fast Hoppers" managed by Jeff Stockard

B Division- "Tech Team" managed by Larry Barringer

Highest Scorer- Tom Tiller

Most Free Throws- Jerry Sanders 75%
Tom Tiller 75%

Camera Club Meeting

The SRA Camera Club will meet

March 4 at 7:30 p.m. in the south end of the cafeteria. The program will be "Ethopia of the Past", presented by SIUE professor of Communications, John Rider. The Slide and Print contest for the month will be, 'Autumn', any scene depicting a fall scene.

SRA Reminder

Look for these upcoming SRA activities in March:

Bowling Tournaments
Annual Walleyball Night
Fishing contests begin
Archery Begins

'Maintenance Crew Recognized for Safety'



This Maintenance crew was recently recognized for working 96 days without a single nurse case. This is a significant achievement considering the potential exposure to acid and caustic chemicals of three of the four units they work on including the Alky, VEW, DMK and Precursor units. Congratulations and keep up the safe work!

Use Hearing Protection

Most of us have either heard someone say, or said it ourselves that hearing protection is uncomfortable. In fact, protectors are often uncomfortable initially, but hearing loss due to noise exposure is "uncomfortable", permanently. Like a new pair of shoes or glasses, hearing protectors do require a reasonable period of adjustment. Since not all hearing protectors adapt well to all head shapes and ear canals, there are several sizes and types available. If after a couple of weeks of daily use, you are still experiencing difficulties or discomfort, a different size or style should be tried.

If you are searching for an ear protection that is more comfortable don't be

misled by the misconception that earmuffs are better than earplugs simply because they are bigger. Actually, whether or not an earmuff or an earplug is better is dependent upon the device and user in question.

Earmuffs and earplugs have been

and continue to be tested for how well they block out noise. The Deci-Damp formable foam stocked at the Complex is among the best of all earplugs. The earmuffs, stocked at the Complex are also among the best earmuffs that are on the market.

Classified Ads

For Sale: 1980 Buick Skylark, good condition, vinyl top, 6 cylinder, 81,000 miles asking \$2,900, call **Phil Costanzo** 254-7088

For Sale: Datsun camper shell, glass model, white trim, 'like new' condition, fits 1983 or older, asking \$300, call **Mike**

Cassidy (618) 288-9030 or ext. 2651.

For Sale: Deluxe camper shell for shortbed 6 1/2 ft., call 377-6908.

For Sale: Gun cabinet, holds 12 rifles, many handguns, locking doors and storage below with light \$350. Vector HC-1 competition water ski-\$1450, contact **Rick** at ext. 2783 or 656-8449.

Retirements



Bill Frizzell
Administration
38 years



Bob Cruthis
Maintenance
38 years



Ray Ogle
Quality Assurance
38 years



Sandy Saunders
Maintenance
38 years



Art Beyer
Quality Assurance
38 years



Bill Syddall
Maintenance
37 years



Joe Strayhorn
Maintenance
37 years



Harry Young
Maintenance
37 years



Merl Hubbard
Safety & Ind Hyg.
33 years



Tom Krpan
Compounding
30 years



Bob Kornegay
EP&S
30 years



Glenn Ctrockett
Maintenance
28 years



Les Isaacs
Maintenance
24 years



Joe Majzel
Maintenance/Insul.
32 years

In Remembrance



T.E. Perfetti



W. Bauer



E. Benecke



W. Schipkowski



M.E. Kempfer

T.E. Perfetti, 60, died January 19. Mr Perfetti was a yardman, Maintenance, before retiring in 1982 after 33 years of service.

Wilbert Bauer, 75, died January 30. Mr. Bauer was a counterman, Purchas-

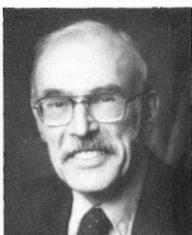
ing, before retiring in 1973 after 38 years of service.

Ernest Benecke, 81, died January 20. Mr. Benecke was a painter, Engineering Field, before retiring in 1962 after 27 years of service.

William Schipkowski, 72, died January 17. Mr Schipkowski was a pipefitter, Engineering Field, before retiring in 1972 after 36 years of service.

M. E. "Tubby" Kempfer, 75, died September 27. Mr. Kempfer was a design draftsman, Engineering Office, before retiring in 1966 after 28 years of service.

Service Anniversaries



Paul Burkhardt
EOS
35 years



Rene Le Brun
EP&S
30 years

SRA Awards Banquet

Fishing

Bass Tournaments

Lake Egypt

1st tournament:
 Mike McVey — 1st place
 Phil Parks — 2nd place
 2nd tournament:
 Mike McVey — 1st place
 Brian Behme — 2nd place

Lake Kinkaid

1st tournament:
 Lloyd Behme — 1st place
 Brian Behme — 2nd place
 2nd tournament:
 Phil Parks — 1st place
 Ed Miller — 2nd place

Otter Lake

1st tournament:
 Roy Pickerill — 1st place
 Phil Parks — 2nd place
 2nd tournament:
 Phil Parks — 1st place

Grand Prize Winners

Phil Parks — 1st
 Mike McVey — 2nd
 Bill Ackman — 3rd

Largest Bass

Pete Bernot

Largest Crappie

Tom Rock

Largest Bluegill

Bob Garner

Softball

Mens "A" League

Jerry Dean	Bill Kleine
Rick Goodman	Joe Broboski
Terryu Wells	Larry Odorizi
Dave Bristol	Don Perry
Leo Cox	Paul Willis
Al Hosto	John Hagemeister
Les Schlemer	Mark Delvecchio
Darrel Lochman	

Mens "B" League

Kenny Hudson	Kent Peccola
Larry Barringer	Jay Rankin
Dave Jacober	Tom Regetz
Mike Lytton	Mike Sohmer
Bill McCauley	Tom Rizzo
Bert Natalicchio	

Softball — Co-ed

Glenn Crockett	Bob Staires
Gary Whyte	Sharon Rhoades
Debbie Diuguid	Jim Robinson
Kathy Shewmake	Wilbur Hinton
Nancy Butler	Linda Coheen
Ralph Butler	Billy Coheen
Duane Ohm	Arron Hayes
Mickey Bruce	Jean Hayes
Ann Slaughter	

Archery

Meet Feb. 16, 1985

Bruce orbin — 1st place
 Dave Cox — 2nd place
 Pat Jordon — 3rd place

Sight

Brad Kane — 1st place
 Basil Platto — 2nd place
 Alex Perkinson — 3rd place

Barebow

Meet Sept. 21, 1985

Bruce Orban — 1st place
 Mike Hilgendorf — 2nd place
 Dave Cox — 3rd place
 Pat Jordon — 4th place

Sight

Barebow

Brad Kane — 1st place
 Basil Platto — 2nd place
 Alex Perkinson — 3rd place

Meet Sept. 21, 1985

Bruce Orban — 1st place
 Mike Hilgendorf — 2nd place
 Dave Cox — 3rd place
 Pat Jordon — 4th place

Sight

Barebow

Basil Platto — 1st place
 Doug Evers — 2nd place
 Bob Benner — 3rd place
 Randy Chasteen — 4th place

Basketball

"A" League — 'Bombers'

Jerry Dean	Rich Carrol
Tom Tiller	Kevin Darr
Randy Brueggeman	Bill Kleine
Ned Thompson	Marshall Hyde
Jerry Saunders	

"B" League — 'Dispatching'

Willie Jones	Al Toppmeyer
Abe King	Jim Sherwood
Doug Endicott	Mike Gutierrez
Bruce Beisel	Wait Copeland
Ed Young	

Best Points per Game

Tom Tiller

Free Throw Champ

Jimmy Bratton

Volleyball

Co-ed "Sand Dogs"

Diane Isaak	Ann Slaughter
Hank Isaak	Bob Wells
Bill Jacobs	Jane Wells
Donna Jacobs	John Cook
Jean Hayes	Susan Cook

"B" Team

Mike Lytton	Brian Semmler
Kenny Hudson	Greg Larsen
Mike Sohmer	Jane Johnson
Jay Rankin	Mark Booth

Walleyball

"Mary's Gang"

Mary Haynes	Karen Bourbon
Frank Haynes	Don Miller
Dave Bourbon	Robin Miller
Mike Spann	Pam Spann

Racquetball

Ladies Winners

Cathy Barnett — 1st place
 Fran Egan — 2nd place
 Diana Gross — 3rd place

Mens "A" Division

Mike Lytton — 1st place
 Tim Varady — 2nd place
 Jay Burack — 3rd place

Mens "B" Division

Gary Godar — 1st place
 Jim Keenan — 2nd place
 Bob Travis — 3rd place

Mens "C" Division

Paul Willis — 1st place
 Tim Ritchey — 2nd place
 Dave Manning — 3rd place



Bulk Rate
U.S. Postage
PAID
Wood River, IL
Permit No. 229

Shell Oil Company
 P. O. Box 262
 Wood River, Illinois 62095

Published monthly for
employees and pension-
ers of Shell Oil Company in
Wood River, Illinois

Becky Doreck, editor
 (618) 254-7371,
 ext. 2168