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E. M. (Buck) Schiwetz

The **LUFKIN** Line
WINTER • 1974



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Beyond tomorrow's mystic gates.**

Horatio Nelson Powers

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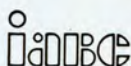
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Virginia R. Allen, Editor



CONVENTIONAL

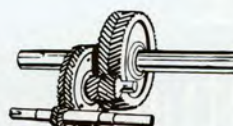


AIR BALANCED

OIL FIELD PUMPING UNITS



MARK II



GEARS FOR INDUSTRY
AND SHIP PROPULSION

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COVER: Painting by E. M. (Buck) Schiwetz
Framing reproductions of this painting are
available by request to the Editor.

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New Milford, New Jersey

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Bayou Bend Manor

Right: Houston skyline from Sam Houston Park; below: "happening" presented annually by performing and visual arts groups



HOUSTON

Has Something for EVERYONE



Houston—founded on the banks of Buffalo Bayou 138 years ago—was carved out of the heavily wooded Gulf Coastal Plain and built over the flat farmland tilled by its settlers. Houston has become the sixth largest city in the nation and the fastest growing. Her population, doubling every 20 years since the first census taken in 1850, now reaches 1,386,000 for the incorporated area.

Houston may be a huge metropolitan area now, but the image she has preserved is not one of concrete and steel. She has 258 municipal parks in the city and these are not only in outlying areas, but in the central business district as

well. Green areas can be seen from most major office buildings and foliage often is incorporated into the design of buildings.

Major banking and financial center of the Southwest, Houston has one of the most stable economies in the country, depending upon the diversification of business and industry in the city to keep her ranked as second to the lowest in cost of living in the nation.

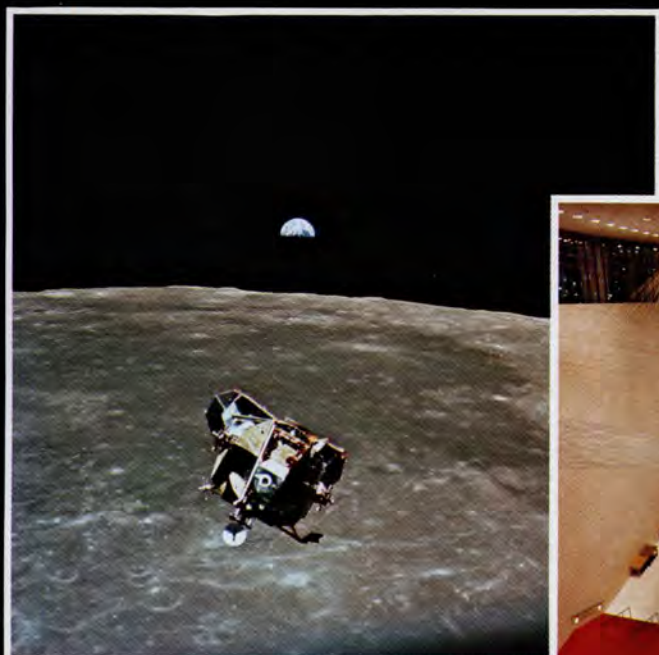
As a major world oil center, Houston ranks first in the nation in petroleum refining and related industries, first in manufacture and distribution of petroleum equipment, fourth in chemical and allied products, third in tonnage as a seaport,

ninth in number of scientists and fifth in distribution of industrial equipment.

She is the home of NASA's Lyndon B. Johnson Space Center, the famed Texas Medical Center, the Astrodome, Houston Symphony Orchestra, Grand Opera Association, museums, theatres, a fine selection of specialty stores and gourmet restaurants.

Houston has NASA to thank for putting her into the public's eye during the Gemini and Apollo space projects. Now that these programs have been completed, the space shuttle program insures the city's continued activity in this area.

Mission Control at NASA's Lyn-



Moon landing



Above: lobby of Jones Hall for the Performing Arts; left: Astro baseball in the Astrodome



By

CAROL KAMAS

don B. Johnson Space Center is about 28 miles south from the city's central business district and offers self-guided walking tours seven days a week from 9 a.m. to 4 p.m. (except Christmas Day) at no charge.

On display are a collection of spacecraft and flight articles, as well as exhibits about America's Space Flight Program which can be viewed in the Visitor Orientation Center, Building 1. These exhibits bring to life the space program and its objectives.

You also are welcome to tour yourself through other designated facilities, including the Mission Simulation and Training Facility and

Flight Acceleration Facility.

Building 1—Visitor Orientation Center contains NASA exhibits, artifacts and an 800-seat auditorium in which films are shown throughout the day. Building 5 is the Mission Simulation and Training Facility containing the Skylab Orbital Workshop, spacecraft, Apollo Telescope Mount and airlock, and Multiple Docking Adaptor. In this area astronauts can practice simulated Skylab tasks in preparation for complex scientific missions that will last from one to two months.

Building 29 houses Flight Acceleration Facility, a man-rated centrifuge designed to train crews, test equipment, and evaluate the physi-

ology of men under space-flight stresses. The centrifuge has a 50-foot arm which swings a three-man gondola to create the G-forces astronauts will experience during liftoff and re-entry conditions.

For sports enthusiasts, there are six professional teams to satisfy almost any hankering: Astros of the National Baseball League; the Oilers of the NFL's American Conference; the Rockets of the National Basketball Association; the EZ Riders of the World Tennis Team; and the Aeros, 1974 champions of the World Hockey Association.

Colossal Astrodome, now 10 years old, remains titled the "Eighth Wonder of the World" and is a big attraction for all who visit Houston. The stadium, which will seat from 45 to 66 thousand spectators (depending on the event), can be converted from baseball, to football, to convention or boxing seating at the push of a button.

The "Dome" is the home field for the Astros, Oilers and the University of Houston Cougars. This is a totally air conditioned stadium (in fact, you need a sweater at night), with the original "Astroturf" on the playing field. When the stadium was planned, it was proposed that natural grass be planted on the field having sufficient light from the skylight roof to encourage growth. This proposal did not go as planned and an alternative had to be found. Artificial turf was invented and is now used on most of the major athletic fields in the country.

The price of admission to the Astrodome is worth the money just to see the mammoth scoreboard light up for a homerun or touchdown. Fireworks light up the huge board as a Texas longhorn snorts with enthusiasm. Then the slogan—"CHARGE" is flashed on the board and the crowd echoes the cheer. Houstonians don't do anything in a small way!

Adjacent to the Astrodome included in Astroworld is the popular Astroworld, a 60-acre amusement park, occupying what used to be an oil field. When the park first opened, producing wells could be seen from atop some of the higher rides.

Some of the rides include the Dexter Frebush Electric Roller Ride (a real thriller), the Black Dragon, the Alpine Sleigh and the Bamboo Shoot. The park is open weekends from April through May and Sept. through Oct., but daily in the sum-

mer. It's a fun and fantasy land with curio shops and touches of yesterday such as a bakery, penny arcade, and family-style dancehall entertainment. A feature of the park is air conditioning under every tree!

For the arts enthusiast, Houston has much to offer in its own individualistic way. Performances by the Houston Symphony Orchestra (which often has free sidewalk concerts in downtown Houston), Houston Grand Opera Association, Alley Theatre and the Houston Ballet Company. In addition, noted paintings and exhibits are scheduled throughout the year in the city's Museum of Fine Arts, Contemporary Arts Museum and Museum of Natural Science.

The Harris County Heritage and Conservation Society has restored and furnished four early Houston homes, an early-day Houston church and has reconstructed the historic "Long Row" building with its general store, barbershop and Houston's first lending-library in Sam Houston Park on Buffalo Bayou to give visitors a touch of life in the mid 1880's.

For the antique buff, the Bayou Bend Museum, on Buffalo Bayou, offers a forgotten world from the 17th, 18th and 19th centuries. Former home of Miss Ima Hogg, this magnificent collection encompasses 18 rooms and settings of American antique furniture. Bayou Bend was built in 1928, given to the Museum of Fine Arts in 1957 and opened to the public in 1966.

Miss Hogg is the daughter of the late Texas Governor James S. Hogg, first native born governor, who began collecting her antique pieces in the 1920's. Tours for this estate are given by appointment and no one under 16 years of age is admitted.

Buffalo Bayou, itself, has quite a history. It is a tributary of the San Jacinto River which leads to the Gulf. When Houston was settled, it was upon Buffalo Bayou's banks that J. K. and A. C. Allen landed at what is now Allen's Landing in Old Market Square in downtown Houston.

Many settlers homesteaded along this bayou. The first Texas newspaper was begun in Harrisburg, now part of Houston, by Gail Borden (later to found a dairy). When the Mexican army approached before the battle of San Jacinto, when Texas won her independence from

Mexico, the printing press was hoisted into Buffalo Bayou to save it from destruction and later retrieved to be used again.

World famous Texas Medical Center (located near the city's downtown area) has been made famous by the skilled and specialized treatments offered there. The Center coordinates health teams in education, research and patient care for the 24 medical institutions and 10 support organizations famous for work in cancer research, open-heart surgery and transplants, specialized treatment for children and many other phases of medicine.

More than 3,500 students are involved in the educational programs

offered at the Center. In addition to two highly rated medical schools, there are institutions offering study in dentistry, nursing, X-ray technology, physical therapy, occupational therapy, dental hygiene, operating room technology and others.

And if shopping is your forte, then you can't miss breath-taking Galleria mall (off 610 S. on Westheimer). Picture this . . . a three-tiered mall, with over 100 stores, built around an ice skating rink with viewing rails on each floor. Chandeliers hang from the roof, which is an immense skylight, from which natural light beams down on skaters. It is indeed an impressive visual experience.



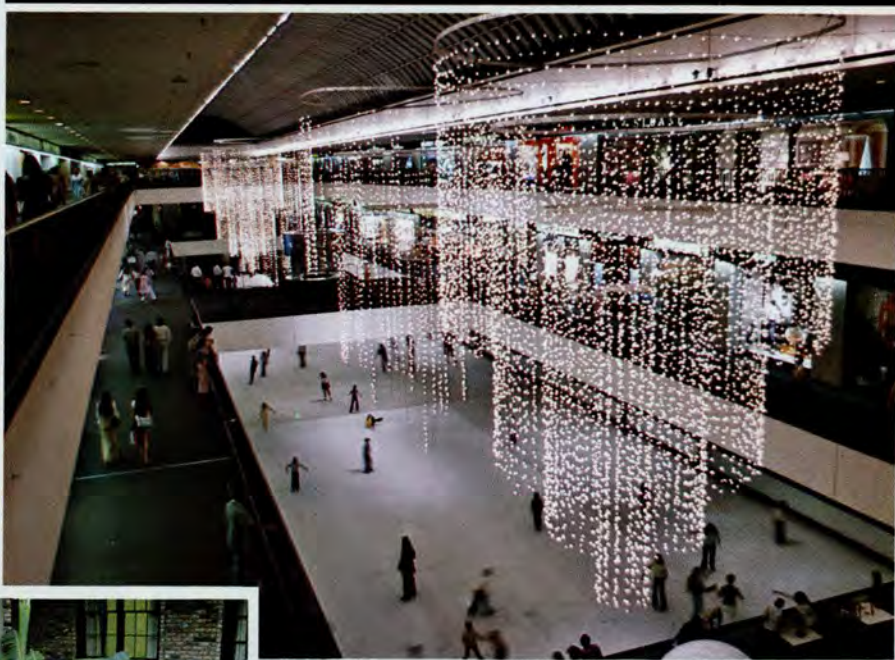
Port of Houston

Right: an operating room at Texas Medical Center; below: boats and marina





Houston Symphony in Jones Hall



Galleria Mall and skating rink



Brennan's courtyard



Museum of Natural Science

Included in this unique mall are some of the finest stores, boutiques, art galleries, restaurants and clubs in the Houston area. Glamorous Houston Oaks Hotel occupies part of the complex as do a bank and several stock brokerage houses. More office construction is in progress.

And don't forget colorful Hermann Park! Just a short distance from the business district (between downtown Houston and the Astrodome), this park offers a collection of exotic animals at the zoo, a unique children's zoo, the rainforest birdhouse, the Museum of Natural Science and Burke Baker Planetarium, Miller Outdoor Theatre, the Municip-

pal Rose Garden and Garden Center, a golf course, lake, sightseeing train, bridle path, several tennis courts and a large picnic area.

During the summer, the Houston Symphony, in cooperation with the City Parks and Recreation Department, holds free open-air concerts in Miller Outdoor Theatre.

In recent years, the city has distinguished itself as the headquarters site for many of the country's major corporations. These new businesses along with the continued expansions of already existing companies, have inspired the development of several multi-block projects in the central business district ranging from the 11-block Allen Center to

the 33-block Houston Center.

Expansion is not limited to Houston's central business district, however. Projects such as Greenway Plaza in the southwest, Plaza del Oro in the south, and The Woodlands to the north, provide complete residential and office communities for Houston's growing population.

One visit to Houston will show those who doubt her attraction what a city on the move has to offer. She's dynamic, progressive and welcomes visitors with open arms.

Houston has a certain charisma. Although she has become a sophisticated metropolis, her Texas charm shines through and says, "ya'll come back!"



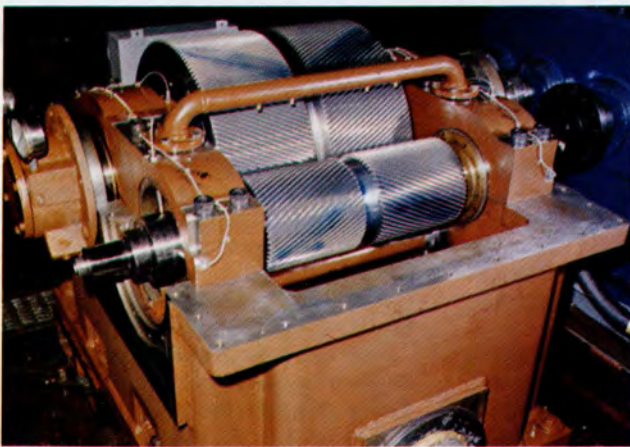
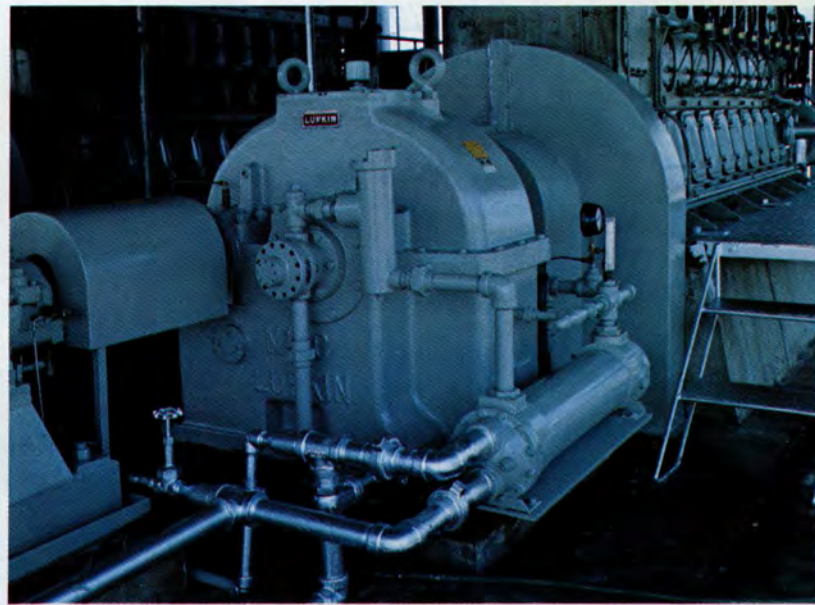
LUFKIN A-640D-144-31 Unit
Sun Oil Co.
Felda, Florida

LUFKIN C-320D-246-86 Unit
Continental Oil Co.
Weesatche, Texas



Lufkin Installations

LUFKIN N1804C Speed Increaser
Mobil Oil Corp.
Vanderbilt, Texas



LUFKIN NF2007C Speed Increaser transmitting 30,000 HP from a gas turbine at 4760 rpm to an air compressor at 13,500 rpm, NASA, Houston, Texas

LUFKIN C-228D-246-86 Unit
Amoco Production Co.
Alvin, Texas





LUFKIN A-912-305-168 Unit
Exxon Company, U.S.A.
Sunniland, Florida

LUFKIN M-456D-305-144 Unit
Gulf Oil Co. U.S.
near Breaux Bridge, Louisiana



LUFKIN M-228D-213-86 Unit
Sun Oil Co.
Corpus Christi, Texas



LUFKIN A-640D-305-168 Unit
Amoco Production Co.
Lyford, Texas

Zapata Ugland-- Giant Semisubmerible

By CAROL KAMAS



After sea trials in Gulf of Mexico, Zapata Ugland heads for the North Sea under her own power.

FROM the days of Viking warriors, Norway's history has been rich with sealore.

The Ugland Companies are no exception. Besides building sea-going vessels since 1792, Norwegian ships have been built in the vicinity of the main office of the company for over 1,500 years.

The companies are interested now in another phase of the sea—offshore drilling.

Houston-based Zapata Corporation, established in 1956, was a pioneer in the field of offshore drilling and has been expanding and diversifying its operations the last few years. Always known for handling the most difficult offshore

problems, Zapata has numerous rigs in all parts of the world and more under construction.

It is no surprise that subsidiaries of these two specialized companies (Ugland's Jorgensens Rederi A/S and Zapata's Technical Services Group) would join forces to create the *Zapata Ugland*, one of the world's largest and most advanced semisubmersible self-propelled offshore drilling rigs.

Built for the severe environment of the North Sea, where she has a two-year contract with Total Oil Marine, Ltd. (a subsidiary of Compagnie Francaise des Petroles), she can operate efficiently in all types of weather, in deep water and

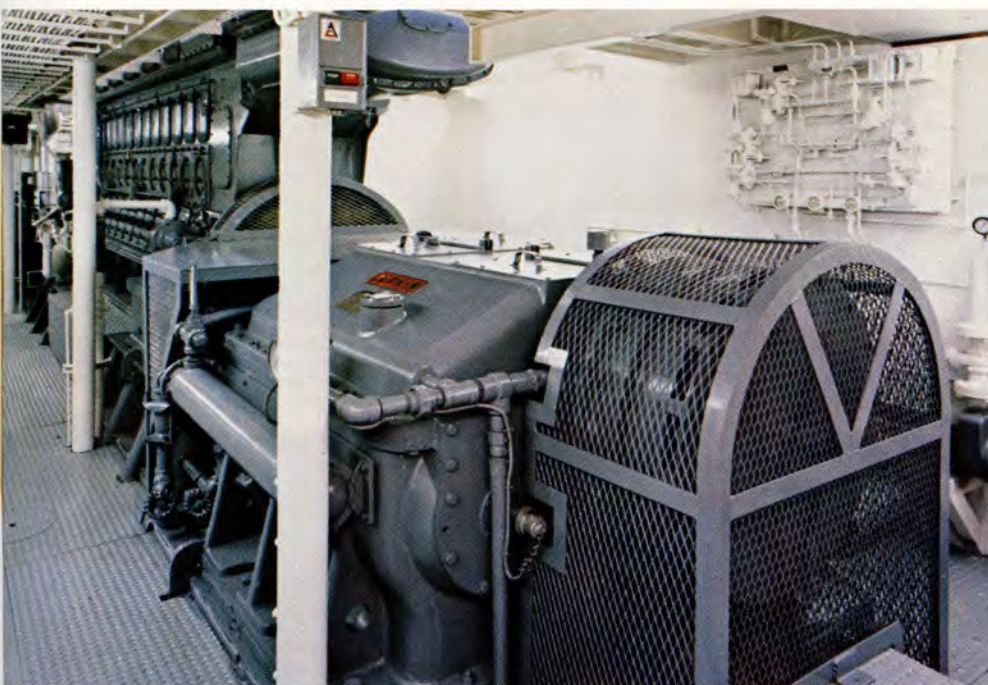
retain a high degree of mobility.

Zapata Ugland's key features include:

- Capability of drilling in water depths from 150 to 1,000 feet then drilling to a depth of 25,000 feet
- Operating in seas of up to 50 feet
- Being able to remain moored in seas of up to 100 feet
- Being designed to withstand 215-knot sustained winds
- Having variable deckload capacity of 3,000 tons
- Being self-propelled with target speed in excess of nine knots
- Moving with her load capacity



Traversing through the Intracoastal Canal, on way to sea trials, the Zapata Uglund had to submerge partially to clear drawbridges on the waterway



Zapata Uglund's propulsion system consists of 3000 HP twin screw propellers, each driven by a LUFKIN Model C6616 compound marine gear

allowing for anchors and anchor chains to be stowed aboard vessel

The *Zapata Uglund's* principal dimensions are: length of twin lower hulls—367 feet; overall width—210 feet; height to upper deck—140 feet; depth of upper hull—15 feet; upper deck width—186 feet; upper deck length—240 feet; drilling draft—80 feet.

In appearance, one observer has described the *Zapata Uglund* as a "floating football field" in size. Built at Bethlehem Shipyards in Beaumont, Texas, the massive "semi" had to be moved down the Intracoastal Waterway by tugs on her way to the open seas. Because

of the drawbridges it had to pass under, its derrick could not be erected until she reached the Gulf of Mexico where she underwent her sea trials.

The propulsion system basically consists of 3000 HP twin screw propellers, each driven by a LUFKIN Model C6616 compound marine gear with a ratio of 5.077:1. Each gear unit is driven by four EMD Model D-79DC propulsion motors, each motor rated 750 HP at 940 rpm.

Machinery arrangement is such that two motors are mounted aft and two motors mounted forward of the reduction gear unit. Each pinion shaft is double extended

and directly connected to the propulsion motor via Thomas coupling. Propeller reversal is accomplished through the reversing of the propulsion motors.

The gear is equipped with LUFKIN's standard dual lubrication system which includes a combination splash-gravity and direct driven pump circulating circuit. High oil temperature and low oil pressure alarm devices are included in the lube oil package, as well as sump immersion heaters.

Four EMD 16 cylinder diesel engines, each rated at 1500 KW comprise the rig's power package. Total engine power is 8000 HP. Draw works for the rig is driven by two EMD Model 79 DC motors totaling 1600-HP continuous and 2000 HP intermittent.

Following the successful sea trials, she crossed the Atlantic to the North Sea under her own power accompanied by the *Baffin Service*, Zapata's new twin screw tug/supply/anchor-handling vessel. The *Baffin Service* will be *Zapata Uglund's* support vessel during her stay in the North Sea.

Baffin Service is equipped with twin controllable pitch propellers driven by two LUFKIN Model CS8410 marine compound units with Fawick disconnect clutches. Each gear is driven by two EMD 567 engines, each developing 1640 HP.

Zapata Corporation and the Uglund Companies have every right to take pride in the sophisticated and progressive *Zapata Uglund* and the new *Baffin Service*. Lufkin Industries is proud to have a part in this search for energy below the ocean's floor.



Vessel, *Baffin Service*, will support *Zapata Uglund* in North Sea operations

Snapshots



JOE ROHLAND
Sun Oil Co.
Robstown, Texas



EDDIE PRUETT
Amoco Production Co.
Alvin, Texas



CHARLES TOBLER
Coastal States Gas
Houston, Texas



BOB STEFFLER
Houston Oil & Mineral
Houston, Texas



TOM CROFTON
Mobil Oil Co.
Vanderbilt, Texas



JERRY RUDOLPH
Tenneco Oil Co.
Houston, Texas



C. L. MASSEY
Exxon Co., U.S.A.
Sunniland, Florida



R. H. CARITAT
Gulf Oil Co.
Lafayette, Louisiana



GEORGE GRAY
Sun Oil Co.
Felda, Florida



RICK OBER
Elliott Company
Houston, Texas



HERB SMITH
Getty Oil Co.
Houston, Texas



HECTOR SOTELO
Shell Oil Co.
Houston, Texas



BILL RUSSELL
Shell Oil Co.
Houston, Texas



GENE VANCE
Sun Oil Co.
Houston, Texas



TRAVIS WILSON
Inexco Oil Co.
Houston, Texas



R. C. (DICK) FAST
Amoco Production Co.
Houston, Texas



CHARLES PUMPELEY
Elliott Company
Houston, Texas



MIKE RATLIFF
Worthington Pump Corp.
Houston, Texas



DON COMBE
Worthington Pump Corp.
Houston, Texas



FRED CUSAC
Power & Propulsion
Systems
Houston, Texas



BILL COLEMAN
Terry Southwest, Inc.
Houston, Texas



CARL STENDEBACH
Terry Southwest, Inc.
Houston, Texas



LOU CASTELLANI
Turbodyne Corp.
Houston, Texas

By Lufkin Camera men



OSCAR GLENN
Gulf Oil Co., U.S.
Houston, Texas



C. W. CHEZEM
Ashland Oil Inc.
Houston, Texas



MARTIN LASCOR
Continental Oil Co.
Houston, Texas



JERRY TALKINGTON
Gulf Oil Co.
Lafayette, Louisiana



BOB MITCHELL
Sun Oil Co.
Corpus Christi, Texas



CONRAD HORST
Aqua Marine, Inc.
Houston, Texas



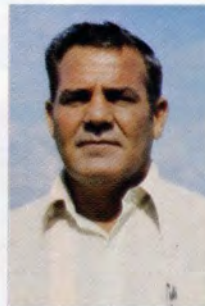
JACK COFFEY
Amoco Production Co.
Alvin, Texas



LONDELL HUBLEY
Houston Oil & Mineral
Houston, Texas



GEORGE STEELE
Exxon Co., U.S.A.
Sunniland, Florida



EARL BENARD
Sun Oil Co.
Felda, Florida



MARK SHIDLER
Ashland Oil Co.
Houston, Texas



R. H. (MAC) MCCALL
Texaco, Inc.
Houston, Texas



BILL FISHER
Continental Oil Co.
Corpus Christi, Texas



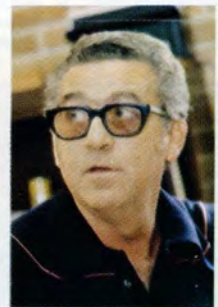
BERT PHEARS
Texaco, Inc.
Houston, Texas



BILL LABENSKE
Sun Oil Co.
Houston, Texas



R. H. STECHMAN
Gulf Oil Co.
Lafayette, Louisiana



M. E. GARRETT
Gulf Oil Co.
Lafayette, Louisiana



JOHN MASSIE
Terry Southwest, Inc.
Houston, Texas



E. F. (NED) STUART
Exxon Co., U.S.A.
Houston, Texas



D. W. (DON) MCGEE
Continental Oil Co.
Houston, Texas



R. B. CALHOON
General Crude Oil Co.
Houston, Texas



GENE DOMASCHEK
Jackson Marine Corp.
Aransas Pass, Texas



TOM GILBERT
Aqua Marine, Inc.
Houston, Texas

SPE-AIME Meeting in Houston



JOHN BELAK (left) Continental Oil Co. Stamford, Connecticut and CHARLES DYER, LUFKIN, Tulsa, Oklahoma



JOSEPH D. MOYER
Cities Service Oil Co.
Wichita, Kansas



J. E. YORK
Amoco Production Co.
Houston, Texas



KEN STOVER
Cities Service Oil Co.
Midland, Texas



MIKE DANIEL
Cities Service Oil Co.
Midland, Texas



JIM TROUT (left) LUFKIN, and
FRED W. GIPSON, Continental
Oil Co. both Houston, Texas



RICHARD ROWE
Amoco Production Co.
Houston, Texas



AHMED M. OMAR
Amerada Hess Corp.
Seminole, Texas



CHARLES E. MACE
Gulf Oil U.S.
Houston, Texas



R. K. HAMMOND
Continental Oil Co.
Hobbs, New Mexico



RUSSELL WORLEY (left) Gulf Oil,
U.S., and EUGENE MILLER, Getty
Oil Co. both Hobbs, New Mexico



TOM WHITEMAN
Halliburton
Farmington, New Mexico



J. D. SUMMERS
Cities Service Oil Co.
Lindsay, Oklahoma



E. F. DEAN
Atlantic Richfield Co.
Los Angeles, California



JIM RENFRO
Atlantic Richfield Co.
Dallas, Texas



J. R. (RON) BARNETT (left), and
E. D. NEWMAN, both with Amoco
Production Co. Houston, Texas



BILL VERZWYVELT
Amerada Hess Corp.
Brownfield, Texas



ELIO E. CHACIN U.
Chevron Oil Co.
de Venezuela
Maracaibo, Venezuela



LEO A. HEATH
Continental Oil Co.
Hobbs, New Mexico



l-r: CARL FRAZER, LUFKIN, Los Angeles,
California CHARLES W. GLEESON, Contin-
ental Oil Co. and A. G. BLACK, LUFKIN,
both Hobbs, New Mexico

Lufkin Laffs

In the Garden of Eden, God summoned Adam and Eve and commanded, "Go forth and multiply."

"What is 'multiply'?" Adam asked.

God looked down sternly at Adam and once again commanded, "Go forth and multiply!"

So Adam led Eve into the bushes. After a moment, Adam emerged, looked up and asked, "God, what's a 'headache'?"

Two engineers stopped at a chic bar for pre-lunch cocktails. One looked around the room for a moment and said, "I don't mean to brag, but take a look at those two cute chicks at the table in the corner. One of them is my wife and the other is my mistress."

"You took the words right out of my mouth," said the other.

A young couple was sitting in a corner bar having a drink, when the young man observed that the ice cubes in his drink were different. It was the first time he had seen ice cubes with a hole in the middle. He made a passing remark to the bartender about this unusual ice cube, and asked, "Is this something new, an ice cube with a hole?"

The bartender, without batting an eye, immediately replied, "No, I have been married to one for the past 15 years."

The topless waitress walked over to the man and snapped, "Sir, please stop staring at me—this isn't my table!"

After examining the young lady and finding her pregnant, the doctor turned to the perturbed mother and said: "Your daughter is a gifted conversationalist, Mrs. DuBois, but she uses 'yes' much too often!"

Uncle Dan has no objection to frozen orange juice but he likes to squeeze his own tomatoes.

A young bachelor decided he wanted to try something different, so he started calling the local bawdy houses to get prices on the girls.

To answer his question on the price range of girls, the madame said, "We have telephone operators for \$25; secretaries for \$50; and old maid school teachers for \$75."

"Don't you have that backwards?" questioned the young man.

"No," replied the madam. "The telephone operators will say, 'Sorry, your three minutes are up.' The secretaries will say, 'Sorry, time for a coffee break.' And the old maid school teachers will say, 'You're going to do it over and over again until you get it right.'"

"You say beer makes you lean?"

"Yes, against buildings, poles and lamp posts."

"Do you like bathing beauties?"

"I don't know; I never get to bathe any."

Two old Irish buddies were discussing how there was no pain to match that of having a baby.

After hearing more than he wanted to, Pat broke in with: "I'm thinkin' ye was niver kicked in the groin!"

A real estate salesman was showing a new home to a Swedish actress.

"Now that we've seen the kitchen and dining room," he said, "I'll take you up and show you the bedroom and den."

Excitedly, she asked, "And den what?"

As the willing virgin said to her eager boyfriend on their first date after he had had surgery to remove gallstones, "Let him who is without stone cast the first sin."

The sheepmen and the conservationists were at odds over the use of poisons to control the coyote population out West.

A meeting was called in town hall, and a female environmentalist took the floor and proposed a more humane method to control the predators. She suggested that traps be set and that all male coyotes caught should be castrated and released.

A grizzled old shepherd jumped to his feet and yelled, "Lady, you're missin' the point. Them lousy coyotes are eatin' our sheep—not rapin' 'em!"

A 70-year-old man married a 23-year-old girl. Two weeks after their wedding, she discovered her husband was cheating on her.

She told him that she knew about his indiscretions and was surprised when she learned the other woman was 64 years old.

"What does a woman that age have that I don't?" she asked.

"Patience," he replied.

A young business tycoon wanted to purchase an office computer and asked a salesman about its accuracy. The salesman, to demonstrate its infallibility, had the tycoon write a question on a card and feed it to the computer.

The prospective customer wrote, "Where is my father?" The machine whirled for a few seconds and replied, "Your father is in Texas fishing."

Knowing his father had died two years before, the tycoon hissed, claiming the machine was wrong. The salesman, not believing the machine had erred, asked to rephrase the question. The computer whirled again and popped out the following answer: "Your mother's husband died two years ago, but your father is still fishing in Texas."

