

# Man's Quest For Knowledge Led To Moon And Ocean Depths

Two epic missions to the moon crowned man's 1971 achievements in exploration and geography.

"As tough as trying to find your way around the Sahara Desert," recalls Alan B. Shepard, Jr., of the unprecedented journey that took him and fellow astronaut Edgar D. Mitchell of Apollo 14 almost to the lip of Cone Crater - the longest lunar walk to that time.

The two astronauts touched down in the lunar module Antares on February 5 at 4:18 a.m., EST. Stuart A. Roosa orbited overhead in the command module Kitty Hawk.

While earlier missions had emphasized the technology of moon landings, Apollo 14's

crew systematically explored the new realm. After 33 1/2 hours on the moon, they lifted off to rejoin Roosa for the three-day 246,200-mile trip home.

The most ambitious effort to explore the moon was Apollo 15, the 25th United States manned space flight.

"The Falcon is on the plain at Hadley," reported astronaut David R. Scott and James B. Irwin after they successfully landed the instrument-laden LM between the moon's lofty Apennine Mountains and the deep Hadley Rille on July 30.

Alfred M. Worden busily performed experiments above in the command module Endeavour, while his two companions spent more than

18 hours outside their spacecraft and explored 17 miles of the rocky, crater-packed lunar surface in a battery-powered dune buggy called Rover.

The mission rewarded scientists with rare treasures: more than 10,000 photographs, about 100 documented samples of rock and soil weighing 170 pounds, and an eight-foot core tube, which when X-rayed showed 58 separate layers of lunar soil, representing perhaps a billion years of moon history.

Inspired in part by a 1927 article in National Geographic, the astronauts had named their command module Endeavour in honor of the vessel Captain James Cook commanded on his first voyage two centuries ago.

Unmanned space vehicles gathered a wide variety of information during the year. Mariner 9, launched on May 30, streaked 248 million miles to keep a rendezvous with Mars 167 days later. A severe dust storm on the red planet obscured the spacecraft's first pictures.

Scientists hope that instruments and a radio signal experiment on the orbiting spacecraft will determine Martian surface elevations, atmospheric pressures, and other measurements. When all pictures and data are received on Earth, they want to assemble a topographic map for 50 million square miles of the planet's surface - the equivalent of mapping all the dry land areas of Earth.

Previous United States spacecraft obtained only brief views of Mars on fly-by missions.

While some men reached for the stars in 1971, others plumbed the oceans.

Divers working from mini-submersibles explored the continental shelf off New Jersey, examined marine life in the Gulf of Mexico, investigated a half-mile-wide hole in the ocean floor 20 miles south of Key West, and studied the sea bottom in the Straits of Florida.

Scientists working out of mini-submersibles and an underwater habitat began an ambitious research project off the Bahamas on November 29. They will study fish behavior and the distribution of plankton and gauge the fluctuations of the sea level during the last ice age.

These projects were sponsored by the Manned Undersea Science and Technology program, begun in August as part of the National Oceanic and Atmospheric Administration's effort to increase knowledge of ocean resources and processes.

A rare view of the Arctic was afforded by a new National Geographic map that rolled back a canopy of ice and water to bare a panorama still unknown to human eyes - the floor of the Arctic Ocean.

The Arctic map reveals the same sweeping panorama of a waterless ocean that was so spectacular in similar Geographic maps of the Indian, Atlantic, and Pacific Oceans.

The reverse side shows the more familiar view of the updated details of ice pack and surrounding bleak land masses are footnotes outlining man's dramatic attempts to explore the Arctic by snowshoe, ski, sled, ship, submarine, and aircraft.

Far from the frigid Arctic, Qatar, a sweltering sheikdom of 100,000 people on the Persian Gulf, became the world's 146th independent state on September 3.

Little more than 20 years ago, Qatar (pronounced "Kuttar") was one of the world's poorest nations. In a rock- and sand-wasteland about the size of Connecticut, fewer than 20,000 people earned bare subsistence as fishermen or pearl divers.

Then came the oil bonanza that revolutionized life. New housing, office buildings, and shops now line brightly lit paved streets in Doha, the capital. Fresh water is piped to houses from suburban wells and a sea-water distillation plant.

Another country created since World War II switched names in 1971. The Democratic Republic of the Congo announced that it would be known as the Republic of Zaire and its major waterway - formerly the Congo River - would become the Zaire River. Officials at the capital, Kinshasa, pointed out that this was the river's previous name.

In nearby Kenya, Richard E. Leakey, son of the famed anthropologist Louis S.B. Leakey, continued to come up with remarkable discoveries near the shores of Lake Rudolf. His work is supported by the National Geographic Society.

Bones found by Mr. Leakey suggest that two types of early man - Australopithecus and Homo - concurrently roamed the East African plain early in the Pleistocene Epoch some 3 million years ago. A skillfully made stone tool found by his expedition was fashioned 2.6 million years ago.

Although bone studies are incomplete, Mr. Leakey speculates that Australopithecus probably did not walk erect but instead was a "knuckle-walker" much like present-day chimpanzees and was eventually superseded by the more advanced genus known as Homo, predecessor of modern man.

# Early Birders Set The Record In Annual Christmas Count

On the first day of Christmas, dedicated bird watchers rise at dawn to seek - not a partridge in a pear tree but perhaps a red-eyed vireo.

On the first day of New Year, red-eyed watchers rouse themselves from dreams to see, perchance, the blue-faced booby.

The birders, 15,000 strong, get up with the lark and 700 other species to take part in the National Audubon Society's Christmas Bird Count throughout the United States and Canada.

Conducted from December 25 to January 2, the census indicates bird population trends and migration patterns. But the counters enjoy it primarily as sport - a mammoth tournament of bird spotting.

The volunteers are divided into teams; each takes a circular area 15 miles across and records all the birds that can be seen in it between dawn and dusk, the National Geographic Society says.

One year Washington, D.C., counters reported 200,000 starlings in a noisy, messy

congregation downtown and a lone common loon over the Potomac River.

Counters endure all manner of hardships. Members of the birding team at Cape Kennedy, Florida, strap aluminum snake guards on their legs and wade through mosquito-infested swamps to break their record for the most species - 200 - seen in one day.

A Connecticut birder picked his way across a slippery log anchored three inches below the surface of a frigid stream. He was rewarded with the sight of a pine grosbeak - and wet feet.

In Akavik, deep in the Canadian north, two bird watchers spent five hours in 10-below-zero weather and saw just two species - the willow ptarmigan and the common raven. Nevermore, they said.

In the National Geographic Society's book, "Song and Garden Birds of North America," the noted ornithologist Roger Tory Peterson describes the many species of bird watchers:

"Birding can be a placid occupation for maiden aunts, a rough-and-tumble sport, or a hair-raising adventure. One of my more sedentary friends

describes himself as the 'white-breasted nuthatch type of a bird watcher. On the other hand, consider the late Robert Porter Allen. Tough as nails, Bob pursued whooping cranes through almost impassable muskeg to their Alberta nesting grounds. When he returned to civilization, he had the look of a man who had visited hell."

Ornithologists have fallen from cliffs and trees. They have broken arms, legs, and ribs. They have been chased by tribesmen, robbed by bandits, charged by bulls. A leading British bird photographer lost an eye to a tawny owl he was documenting.

Mr. Peterson himself and four colleagues once were sitting in a car parked on a roadside at 3 a.m. A flashlight suddenly blazed upon the five, and a state trooper growled, "What do you guys think you're doing?"

Silence. Then Mr. Peterson explained, "We're listening for whip-poor-wills." The men were promptly hustled off and held for several hours until they could tell it to a justice of the peace.

He laughed and let them go.

## This Is The Law

Davis agrees on May 10 to sell a table to Ellis on June 1 for \$60. On May 15 Ellis assigns or transfers his rights under the contract to Fox. Fox subsequently refuses to pay Davis \$60 for the table. Davis still has the table in his possession. The reasonable market value of the table is \$40. May Davis sue Ellis for breach of contract?

Yes. Davis may recover from Ellis a judgment for \$20, the difference between the agreed contract price and the market price of the table.

Ellis has entered into a contractual duty which he cannot escape by assignment. A person cannot be compelled to accept responsibility for the performance of a contract from one who was not a party to the original contract. A person can transfer his rights under a contract, but not his duties.

Are there certain contracts which cannot be assigned?

Yes. A contract may by its terms expressly forbid an assignment. Thus, in an agreement to convey real estate it is not unusual to provide that the vendee shall not assign his right to a conveyance. Such a restriction is valid. Tickets, which otherwise would be assignable, sometimes stipulate that they are "nontransferable."

Assignments of certain contracts are sometimes forbidden by statute or by the public policy of the common law. Workmen's compensation, unemployment compensation, government pensions, and the like are, for example, not assignable.

Contractual duties which involve personal performance cannot be delegated. A doctor, a teacher, a secretary, a cook, an artist, or anybody else who is employed by reason of peculiar personal qualities cannot turn over to a substitute the performance of the work he has agreed to do without the consent of his employer.

\*\*\*

This is the last of a fall series of articles which have appeared weekly for the past three months. They have been written for the non-lawyer as a public service of the North Carolina Bar Association. Another series will be started in the spring.



BY JIM DEAN

The new Game Lands program initiated by the N.C. Wildlife Resources Commission this year has passed its first test with flying colors.

The program - which went into effect with the current hunting season - brings the amount of land being managed and protected for wildlife in the state to some two million acres, an increase of over a million acres. When it was initiated prior to this hunting season, cooperative agreements were worked out to bring all four of the state's National Forests plus some large private tracts of land into the agreement.

Also, the Wildlife Commission abandoned its previous long lists of special hunts, check stations and replaced a tangle of permits with a single 56 season Game Lands Use Permit which allows sportsmen to hunt any legal game or fish for mountain trout on the Game Lands throughout the legal season as long as they have the required license.

Many hunters were afraid that the expansion of the Game Lands would lead to inferior protection of game laws. Some said that Wildlife Protectors would be spread too thinly over such a large area. Others were apprehensive that doing away with the check stations might lead to increased game violations.

With part of a hunting season behind, none of these things have caused problems.

"The Game Lands program is working fine, better even than we expected," says Don Curtis, Chief of the Division of Protection. "If anything, it has eased our problems in game and fish law enforcement."

"We expected our biggest problem to be an unsatisfactory distribution of hunters," says Curtis. "We were afraid that hunters might tend to concentrate in certain

# CLASSIFIED

**BULLDOZER SCRAPER OPERATOR TRAINEES NEEDED**  
Experience helpful but not necessary. We will train. Average earnings exceed \$300.00 weekly. For immediate application write Safety Engineer, Empire Express, Inc., 2016 North Hamilton Street, Richmond, Virginia 23200, or call Area Code 703-359-4649. 33-34P

**SEMI-DRIVERS NEEDED NOW**  
Pay averaging over \$5.00 per hour after on the job type training. No experience necessary. Local and over the road driving. For immediate application call area code 703-359-4626, or write Astro Systems, Inc., 2016 North Hamilton Street, Richmond Virginia 23200. 33-34P

**FOR RENT:** Furnished 2 bedroom house. Inquire Old Salem Shop. 33C

**FOR SALE:** One aluminum boat at bargain. Call 875-2738. 33-34P

**FREE:** Puppy. Mixed Retriever and German Shepherd. Call 875-4609. 33-34P

**FOR SALE:** Ranchstyle home, 222 Bethel Rd. Owner moving to new Thomasfield and will accept best offer for fully carpeted, central air conditioned, 3 bedrooms, 2 ceramic baths, large kitchen, lots of storage area. On fenced corner lot near schools. Buy now and owner will pay closing costs. T. Carson Davis, Jr. Real Estate Broker, 501 Harris Ave. Phone 875-4870. 33-35C

Will do babysitting in my home by day, night, hour, week or weekends. Call Mrs. A.Y. Wheeler, 875-4575. 33-34C

**FOR SALE:** 1969 23000 BTU Whirlpool air condition, upright 17 cu. ft. refrigerator - freezer combination. Like new. Call 875-4187. 33-34C

**FOR SALE:** 1959 Chrysler, radio, heater, power steering, power brakes. \$150. Call 875-4161 after 5 p.m.

**LOST:** Reddish male Dachshund, 6 years old, in Raeford area since June, 1971. Reward is offered. If information on whereabouts, please call 875-2121. 32-35P

**FOR SALE:** Ladies' horse, spirited but gentle. Also, ribbon - winning pony, cart and tack. Phone Becky Hood at 875-3278. TFC

Reduce excess fluids with FLUIDEX, \$1.69 - LOSE WEIGHT safely with Dex - A - Diet, \$1.98 at Hoke Drug. 31-34P

**FOR SALE:** Zig-Zag sewing machine in cabinet. Makes fancy stitches, buttonholes. Repossessed because of non-payment. Balance owing \$52. If interested, can finish balance in payments or cash. Call collect 692-3348, Southern Pines. TFN

**FOR SALE:** Large Electric stove. Call 875-2968

**FOR RENT:** 2 bedroom Mobile Home near Burlington Plant. Free water and garbage pickup. Call 875-2790 after 4 p.m. TFC

**HOUSE FOR SALE:** Brick house on College Drive 3 bedrooms, bath and one half, carpet, electric heat, large air condition window unit. Shown by appointment only. Call 875-2796 after 4 P.M. TFN

**HOUSE FOR SALE:** 3 bedrooms, 2 baths, living room, dining room and kitchen, screened side porch. Central air conditioning and heat. Call Laurinburg 276-1154. TFC

**FOR SALE:** 1968 4 dr. Pontiac, air condition, power steering, power brakes. Carolina Turf Co., Inc., 875-2359. TFC

Weeds and vacant lots mowed with tractor mower by hour or acre. Call 875-2359, Carolina Turf Co., Inc. Saturday only after school starts. TFC

Exterminate for roaches, waterbugs, ants. Free termite inspection. Call 944-2474 Aberdeen Exterminating Co. Aberdeen. 26-45P

**FOR SALE:** Used Hotpoint range. Very reasonable. Call 875-4178 after 6 p.m. 33-34C

**WHEEL ALIGNMENT SERVICE at BOBBY CARTER'S TIRE SERVICE SOUTH MAIN STREET**

**Inman & Tuttle Repair Service**  
ROOFING  
CARPENTRY  
PLUMBING REPAIR  
PAINTING  
HEAT & AIR COND.  
PHONE 875-2186  
RAEFORD

**G & H CONCRETE FINISHING CO.**  
CARPORT - DRIVEWAYS  
WALKS - PATIOS  
FLOORS  
FREE ESTIMATES  
Call Evenings After 6  
**875-2373**

**3-ROOM APARTMENTS FOR RENT**  
Air Conditioned  
Raeford Hotel Building  
See Ernest Cartwright, Mgr.  
or Phone 875-3055 Day  
**875-3492 Night**

**WHEEL ALIGNMENT NEW TIRES and RECAPPING McDONALDS TIRE RECAP. SERVICE**  
PHONE 875-2079  
114 RACKET ALLEY & STEWART STREET

**WOMEN ... GIRLS ... age 18 to 65! Bring an extra \$25 to \$50 into your home every week for a few hours a day pleasant work, or earn up to \$150 per week full time. Show and take orders for 300 Good Housekeeping Approved Studio Girl Cosmetics, Wigs and Hair Fashions. For full information and Free Samples phone 875-4560 4 to 8 PM. NO T E R R I T O R Y RESTRICTIONS.**

**TILE AND CARPET INSTALLATION**  
FREE ESTIMATES  
CALL MICKEY RILEY 875-3490

**SAMS FABRIC SHOP**  
IS OPEN 6 DAYS A WEEK 9 A.M. TIL 6 P.M.  
1st QUALITY REMNANTS POLYESTER 2.89 yd.  
3.98 yd. SCRAP 75¢ yd.  
Sewing Notions - Dresses Pant Suits - Lingerie  
**SAMS FABRIC SHOP**  
In Front of McLean's Florist

**WILL HAUL SAND GRAVEL DIRT for Driveways, etc.**  
CONTACT LEWIS LIPSCOMB at LIPSCOMB GROCERY Harris Ave.

**COMPLETE BRAKE SERVICE at BOBBY CARTER'S TIRE SERVICE SOUTH MAIN STREET**

**WHITE'S Cabinet Shop**  
Cabinets Of All Types & General Carpenter Work  
Call 875-4828 For Free Estimate

## From The Home Agent's Desk

A CHRISTMAS MENU  
Grace  
Kindness - Conscience Clear - Good Cheer  
Tender Memories  
Charity, Served with Discretion  
Love  
Peace True  
Long Life, Stuffed with Usefulness  
Heart Unselfish and True (A Large Portion)  
Kindly Thoughts  
Affection Happiness  
Best Wishes for Absent Friends  
Mispah

That Christmas Feeling

When the days of December are numbered  
And the earth beckons its snow flakes to fall;  
That's the time of the year Christmas is here;  
With Peace and good will for all.

How I love that Christmas feeling;  
How I treasure its friendly glow;  
See the way a stranger greets you;  
Just as though you had met him Christmas ago.

Christmas helps you to remember;  
To do what other folks hold dear;  
What a blessed place the world would be;  
If we had that Christmas feeling all year.

Christmas In the Heart  
It is Christmas in the mansion  
Yule-log fires and silken frocks;  
It is Christmas in the cottage  
Mother's filling little socks.

It is Christmas on the highway.  
In the thronging, busy mart,  
But the dearest truest Christmas  
Is the Christmas in the Heart.  
Author Unknown

"It Ain't the Gift A Fellow Gits"

It ain't the gift a feller gits, it ain't the shape nor size that sets the heart to beating and puts sunshine in your eyes. It ain't the value of the thing, nor how it's wrapped nor tied it's something else aside from this that makes you glad inside.

It's knowing that it represents a love both deep and true, that someone carried in his heart and wants to slip to you. It's knowing that some folks love you and tell you in this way - just sorta acting out the things they long to say. So tain't the gift a feller gets, nor how it's wrapped nor tied, it's knowing that folks like you that makes you glad inside.

WHAT DO I WANT FOR CHRISTMAS

"What do I want for Christmas? Friendship and love and cheer. Faith in my fellow comrades to last through the coming year. Fill up my Christmas stocking with laughter and mirth and song. Tuck in plenty of patience to have when things go wrong. Leave out all greed and self - pity. Give me the strength for my task. Give me more wisdom and courage this Christmas. Dear Lord, that's all I will ask."

**When you stop going to work, we start going to work.**

If you're sick and have to stay out of work, Nationwide's Income Protection Plan gives you cash. Cash to live on while you're recuperating. Cash that keeps coming in even when your paycheck isn't. Nationwide can pay you up to \$1,200 a month depending on your income and the plan you choose. Let Nationwide go to work when you can't. For information call the man from Nationwide.

**VARDELE HEDGPETH INSURANCE AGENCY**  
111 W. Elwood Avenue  
Next door to Shoe Shop  
RAEFORD, N. C.

**Nationwide**  
The man from Nationwide is on your side.  
Nationwide Mutual Insurance Co. • Home Office: Columbus, Ohio.