

CLOCKS THROUGH THE AGES



Records indicate that the first mechanical clock was built around 1630. It was made of iron, with a 500-pound weight, a gear train and one hand showing the time. A crude device called the "crown wheel and foliot" controlled its motion. The clock erred by about two hours a day.

Galileo proved in 1583 that successive swings of a pendulum take place in equal intervals of time. In 1656, Christian Huygens used the pendulum to control the rate of motion of a weight-driven clock. With the addition of the escapement designed by Robert Hooke, pendulum clocks became accurate timekeepers for the first time.

Pendulum clocks for the home were brought to perfection during the "golden

age of English clockmaking" (from about 1680 to 1820). First, the brass movements were covered by hoods with the pendulum and weights exposed. Later they were in tall floor or hall cases, which were nicknamed "grandfather." The minute hand was added to the dial before 1680. A few years later, the second hand was added.

These tall clocks were equipped to strike the hours. Some also had chiming and musical attachments as well as moon phases and calendars. They were so exact that the principles of design and construction have remained unchanged after 280 years. American clockmakers of the 18th and 19th centuries produced many attractive types of grandfather clocks.

Today Bulova updates a classic pendulum clock into an ultra-modern electronic wall timepiece. The stark white, recessed case is crisply contrasted with an ebony face. Numerals are not to be found anywhere. Instead, radial lines cut the dial's surface and a circle of white indicates the 12 o'clock position. The cord has disappeared as well... the electronic movement operates on a standard flashlight battery for more than a year.

When it comes to handsome decoration as well as telling time, this clock is sublime.

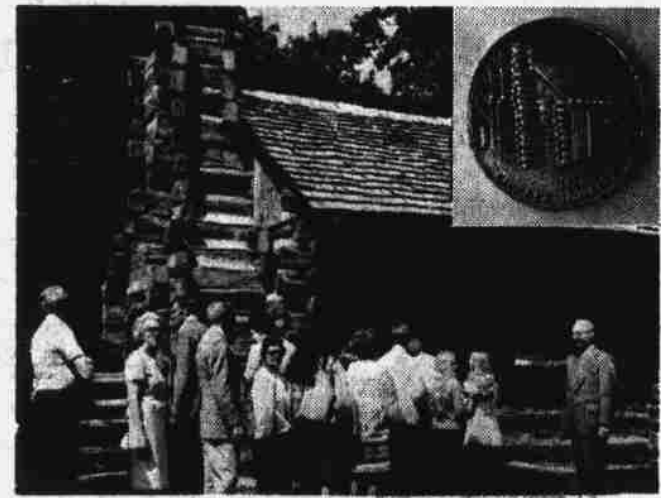


EXXON SUPPORTS URBAN LEAGUE - HOUSTON - During the visit of National Urban League Executive Director Vernon Jordan (left) to Houston to address the 33rd annual convention of the National Newspaper Publishers Association, he was presented with a \$60,000 check for the

programs and operations of the League by R. H. Herman (center), Senior Vice President of Exxon Company, USA, and James E. Queen (right), Exxon USA Community Relations Coordinator. Mr. Jordan's speech highlighted the Publishers' annual conference. The gift represents Exxon's

continued support of the League since 1946 with contributions totalling more than one-half million dollars. Programs of the Urban League are concerned with education, employment, and training opportunities and the maintaining of positive intergroup relations.

Now To Participate In Nation's Birthday



Log cabin replica is featured on commemorative medal produced by The Hamilton Mint for Arlington Heights, Illinois, one of four designs to be featured through 1976 in that community's celebration of the American Bicentennial.

ARLINGTON HEIGHTS, ILL. - The Hamilton Mint, one of the nation's leading private mints, has developed a special bi-centennial mintage program whereby smaller communities can participate in the nation's birthday celebration through July, 1976.

Coins, medals, and commemorative medallions will be produced for communities working from their designs or photographs, or using designs developed by Hamilton, according to Robert Rayunas, executive vice president of the mint. Communities, under the Hamilton plan, can offset costs of their celebration through sale of the medals.

"We are extending this offer in order that more local or smaller communities can join in this national event without the usual start-up expense associated with the manufacture of the commemorative medals," Rayunas said.

He explained Hamilton Mint marketing program shows each community how it can develop working capital for other activities that are planned.

Rayunas said the Mint would be working with local historical societies, bi-centennial commemorative groups, as well as state bi-centennial commissions

FSU RECEIVES \$1,000 ALUMNI GRANT - Fayetteville State University's New York Alumni chapter presented a grant of \$1,000 to the institution yesterday. The

grant has been earmarked for scholarships and athletics—\$500 each. Making the presentation to Fayetteville State University on behalf of the New York FSU chapter is

Samuel Graverly To Become Admiral Flotilla Commander

WASHINGTON - Rear Adm. Samuel S. Graverly, the Navy's only black flag officer, will become commander of a cruiser-destroyer flotilla this month, the Pentagon announced Friday.

This will be the first time a black has commanded a naval force of this size, about 30 ships, a Pentagon spokesman said.

Graverly currently holds a senior communications position on the Navy headquarters staff.

A native of Richmond, Va., the 51-year-old Graverly came up from the ranks and has seen service in World War II, the Korean War and Vietnam.

His home port will be Charleston, S. C.

In addition to hiring, training, and upgrading disadvantaged workers the U. S. Labor Department's JOBS program has expanded employment opportunities for Vietnam-era veterans.

HEW

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Administration's revenue sharing concept, however, does not apply to these programs but rather lumps the funds together and allows the states to determine how the funds should be spent.

Under a reorganization of the Health Services and Mental Health Administration, an agency of the Department of

Health, Education and Welfare, the child and maternal health programs staff would be cut from 160 to six or seven and the remaining personnel would be given additional duties with other programs, Lesser charged.

"There is no place for me in that kind of business," Lesser, head of federal health services for children and mothers since 1952 and associated with the program since 1941, said. However, at age 63, Lesser said he is not ready to retire. "But I certainly wouldn't continue as a figurehead or exhibit A in support of a reorganization of which I thoroughly disapprove," he said.

Gains Are Noted in The Longevity of Blacks

There are many facts concerning the gains made by black Americans since 1910, when the NAACP was formed, in the field of education, political power, income, and occupations in comparison with whites. I suggest that all these gains can be measured and summed up by actual well-being. The best objective test of well being is health, longevity.

How have black Americans fared in this respect? Here are the facts. In 1909 the average length of life for white was 52.5 years; for Negroes only 35.7 years. The difference was 47%. In 1930 the longevity for whites averaged 61.4 years, and for Negroes 48.1 years, a

difference of 27.4%. By 1950 white longevity was 69.0 years and the Negro life span averaged 60.8 years. The gap was down to 13.5%. By 1958, whites lived 70.3 years on average, and Negroes 63.0 years; the gap being closed to 11.6%. In 1969 the life expectancy at birth for whites was 71-1/4 years, for Negroes 64-1/4 years. The gap was 10.8 years. (Figures from Statistical Abstract of the U. S., -1973).

Put in another way, while whites gained 36% in life expectancy from 1909 to the latest figures available, black Americans gained a very much larger 80%.

The figures for white and black longevity are derived by averaging the life expectancy

of men and women. This is not exactly accurate because there are more women than men. Women live longer. But for comparison of white and black longevity, this is not important, because both white and black women live longer than white and black men.

The fact that there is still a gap of between 10% and 11% in life expectancy is not because Negroes are not healthy and hardy.

The textile industry, with more than 7,300 mills concentrated largely on the east coast, is the ninth largest employer in the country, according to the U. S. Department of Labor.



HOW TO BUY A RANGE

By knowing what is available in ranges before you shop, yours will be a wise purchase... not a snap judgement made on the sales floor.

Ask yourself these questions before you shop:

1. Which fuel? If you plan to change fuels, ask the utility for an estimate of conversion cost. Plumbing and re-wiring can be expensive. Also ask what the new fuel is likely to cost each month.
2. Free-standing or built-in? Free-standing ranges are finished on the sides and back, and can be moved from place to place. If you move often, you may want to consider this type. Built-in ranges (including set-ins, wall ovens, cook-top surface units, and drop-ins) are unfinished on the sides and back and are designed to be built in permanently in a specified space.
3. If you are replacing a free-standing range, you may want to remodel your kitchen for built-in appliances. By building in your range, you can design a kitchen to fit your needs—wall ovens can be placed on a comfortable height for you; or in a separate place from a cook-top surface unit.
4. What size? Measure the space in your kitchen allotted for a range before you go shopping. Free-standing ranges are available in widths of 12, 20, 24, 30, 36, and 40 inches. A smaller size range does not necessarily mean a smaller oven or less surface units; often the difference is only in range storage space.
5. Larger ranges have more storage area and sometimes more work surface on top.
6. If you are replacing a built-in range, then correct measurement is critical; if you don't buy one the same size, you will have to do some remodeling... which can be costly.
7. Is it easy to clean? Ovens that clean automatically are becoming more and more popular. These ovens generally cost \$30 to \$90 more than non-automatic cleaning ovens. Even though these ovens cost more, the convenience and time saved will probably be worth it when you consider the amount saved

by not purchasing chemical oven cleaners. Ask the salesman to explain the different kinds of automatic cleaning; then decide which one is best for you.

If you choose not to buy automatic cleaning, then look for easy-to-clean features like foil or teflon liners, removable door, rack guides, and panels.

Look for easy-to-clean features on top of the range, too. One-piece drip pans, removable knobs or knobs that are easy to clean around will save you time.

5. What features do you need and which will you use? If you shop and compare several models and brands, you will find a range that fits your cooking needs. You'll need to decide on features such as these:

A minute timer that reminds you when a dish is ready or an automatic clock that lets you set the oven to start and stop at specific times can be a convenience if you act as a part-time chauffeur for your family. If the range has an automatic clock, it may also have a *timed outlet*, which lets you start small appliances automatically at a specified time. It's handy for hot coffee in the morning.

Some ranges have an *adjustable broil control*, which lets you select rare, medium or well-done and eliminates the need for adjusting the rack level. Not all ranges come with a *broiler pan*, so ask if the oven you're considering does. Some ranges have a rotisserie, and some have an automatic roast thermometer,

which signals when the meat is done.

If the range has a *window in the oven door*, then it is easy to check "doneness" without opening the door. Some self-cleaning ovens do not have windows in the door.

A *fast pre-heat* means less waiting for the oven to heat. Some ranges have *food warmers* to keep just-cooked foods warm.

Some surface units heat up faster and have many best settings. Ask the salesman if there's a difference among the ones you're looking at. Size of surface units may be important to you if you cook in large quantities... then you might want larger surface units.

Another decision to make will be if you want *one or two ovens*. With two ovens you can cook at two different temperatures at the same time. *Color bak* and *broil* at the same time.

After you've considered which features and type of range best suits your needs, then start shopping. Don't hesitate to ask the salesman all questions that come to your mind when you are looking at a particular range. Ask him to explain the warranty... what it does and does not cover.

For free answers to questions about buying a range, or about buying, using and caring for any of your appliances, write to Consumer Service Department, Whirlpool Corp., Benton Harbor, Mich. 49001. They promise to answer all letters.



NEWS OF Travel

In Canada This Year: Five Celebrations Provide Entertainment



The vision can appear out of nowhere.

It's you — sunning on a sandy beach, dining in a luxurious restaurant, climbing a mountain, watching a rodeo. For just a moment, the world comes to a halt and you think to yourself: "That's what I'd like to do this year!"

And the place to do it, in 1973, is Canada. It's always a great country to visit, but this year is something special. Five major birthday celebrations guarantee the vacationer first class entertainment wherever he goes. The welcome, at such festive times, is always a little warmer, the preparations and facilities for visitors a little more complete.

So this summer take your dream vacation and, at the same time, join a birthday party.

If it's sun, sea and sand you crave, go to Prince Edward Island, celebrating, in 1973, 100 years as a Canadian province. Canada's smallest province has some of the finest ocean beaches in North America.

Is history your subject? Then, the city of Kingston, celebrating its tercentenary, is the perfect spot. Historic sites in this part of Ontario are numerous.

Maybe you crave adventure. Try the Yukon Territory in northern Canada. Seventy-five years ago, this vast wilderness was the site of a mammoth Gold Rush. This year, the Yukon recalls its spectacular beginnings.

If you yearn for lots of fresh, clean air and pastoral countryside, and have a passion for the pipes, Nova Scotia is definitely for you. Pictou County is marking the 200th anniversary of the arrival of the Hector, a barque that brought the first wave of Scottish settlers to that province. Festivities will lean heavily toward things Scottish.

The biggest birthday is the one being held for the Royal Canadian Mounted Police — celebrating 100 years of diligent police work, 100 years of pomp and pageantry. Their party is nationwide. All 10 provinces, the Yukon and Northwest Territories are getting in on the act with a wide variety of special events.

An RCMP Centennial Review, featuring the internationally famous Musical Ride, the RCMP Band and Choral Group, will tour the country stopping in every province.

Wherever you go and whatever you do, you will find Canada is a superb vacation land. You can golf, swim, bird watch, hunt for rocks, loaf, visit museums or brave the wilderness.

You can visit sophisticated, exciting cities. Toronto, Ontario's beautiful parks, cosmopolitan restaurants, fine museums and theaters make it a year-round favorite with tourists.

Historic Quebec City breathes a romantic old-world atmosphere and boasts some of the best restaurants on the continent.

Vancouver, with its sun-washed beaches and magnificent mountain setting, is ideal for outdoor enthusiasts.

You can see beautiful countryside, sparkling lakes, lush green forests. Just drive all or part of the 5,000-mile Atlantic-to-Pacific Trans-Canada Highway, or the more northerly Yellowhead Route through the western part of the country. Well kept scenic campgrounds and picnic areas are frequent.

Any season is the right season for holidaying in Canada. Summer temperatures, in most parts of the country, are pleasantly warm for swimming, boating and camping.

The blazing colors of the fall foliage in eastern Canada delight artists, photographers and nature lovers.

Winter means snow, crisp cool air, carnivals, skating, hockey, and some of the best skiing in the world.

Spring marks the return of leaves and blossoms that fell in the autumn. Flower festivals proliferate — apple blossoms in the Annapolis Valley of Nova Scotia, tulips in the national capital, Ottawa.

Visit Canada in 1973 and make that "dream vacation" real. For further information write the Canadian Government Travel Bureau, Ottawa, Canada K1A 0H6.

HAWLEY

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national educational association, past president of Phi Beta Sigma fraternity and chaplain of the H. V. Brown Schoolmasters Club.

CLUB AWARD

During the luncheon honoring the retiree, Mr. Hawley was presented the Brown Schoolmaster's Club award in recognition of outstanding service in the North Carolina public school system, 1935-1973. He was also awarded a service plaque by the Wayne County Board of Education and another by the Parent-Teacher-Student Association of Carver Elementary School for "12 years of devotion and duty to the children of Wayne County."

The Rev. Mr. Hawley is a native of Oxford, a son of the late Mr. and Mrs. Willie Hawley of Oxford. He is one of six living children of his parents, three of whom had careers in education. A brother, Cheslie, resides in Richmond, Va., and is a retired teacher. The four sisters are Miss Bernice Hawley of New York City, a teacher, Estelle Hawley of Oxford, also a teacher, Mrs. Ida Parham of New York, a housewife and Mrs. Daisy McCrimmon of Oxford, a beautician.

Mr. and Mrs. Hawley have three children, who include a foster son, Samuel Cox, are all educators. The daughters are Mmes. Helen Edwards of Durham, who teaches public school music, and Frances Stephens of Hyattsville, Md., a researcher on the staff of Rep. Ike Andrews of the Fourth North Carolina District.

"World's Largest Circus" Comes To Town By Truck

It's circus time again as the "World's Largest Circus" rolls into town on a colorful fleet of over 90 trucks, accompanied by the tune of roaring elephants, an assortment of lions, tigers and cheers of onlooking youngsters — of all ages.

The barren field where the Clyde Beatty-Cole Bros. Circus will play suddenly takes on a magical aura as the trucks unload and tents begin to rise.

Circus folks often describe their show as a "Modern Miracle in Motion" — a phrase that, despite its ring, is more than huckster hyperbole.

By early spring of each year, the circus moves north from its winter headquarters at Deland, Fla., on a cross-country tour that brings old-time circus thrills to millions of Americans, young and old, in nearly 200 communities. Most are covered in one-night stands.

Pulling up stakes every day becomes an accepted way of life for performers and animals alike. Each move involves the handling and transporting of a huge canvas tent as big as a football field; providing seating facilities for more than 4,000 persons; catering for a menagerie of 12 elephants, a hippopotamus, several apes, lions, tigers, camels, llamas, zebras, dogs, ponies, horses and even trained pigs. It also means working with a staff of several hundred — some of whom are as temperamental as any Hollywood star; operating complete dining facilities; maintaining three diesel power plants capable of producing enough electricity to light a small community; and furnishing a complete mechanics shop.

Twice a day, crowds hear the familiar chant of "Hurry, hurry, folks, step right up and see the world's most amazing show." Then, late at night, the tents and all bright paraphernalia, animals and performers move on to the next town — by truck and house trailer.

Meeting this 24-hour schedule, the American Trucking Association reports, week in and week out takes a dedicated staff and a reliable and flexible form of transportation. According to some old circus hands, trucks may well have proved the single most significant



Open for business bright and early, the ticket truck can always expect early arriving circus buffs.

Isaac factor in keeping the "Big Tops" alive.

In 1956, the owner of another circus proclaimed that the "tented circus is a thing of the past." Frank McClosky, now associate owner of the Clyde Beatty-Cole Bros. Circus, disagreed. That same year, he bought the show and moved it from the railroads to the highways. Using trucks, he booked the circus into many towns where there are no rails and made it possible for many more people to see the big show near their homes. The packed stands, the laughter and cheers all prove — twice a day — that he was right.

Watching the circus set up is a show in itself. Trucks are both the work-horses and stars in this exciting part of circus life. For example, the stake-driver truck has streamlined

the chore of setting up the "Big Top." Approximately 400 stakes must be driven each time the show sets up — using two types, steel for blacktop and other hard surfaces, and wooden ones for the ground.

One of the show's most important vehicles is the spool truck. A large spool mounted in a flat-bed truck mechanically rolls and unrolls the huge canvas tent. This innovation was first introduced in 1946 by the Al G. Kelly and Miller Bros. Circus.

Issued new each year, the canvas is supported by four center poles, 55-feet high, with 20 long and 30 short quarter poles, and 72 sidewall poles. All are cut from a special alloy for extra strength and lightness and are, of course, transported in the pole truck. This truck also doubles as a

guy for the highwire during the performance.

There is an office wagon, containing the ticket office and small office, with an arrangement that folds down in front of the entrance before show time and folds up, on the top of the truck, when it is on the road.

Eight seat wagons provide folding chairs for reserved ticket holders and benches for the general admission audience. The benches are built on a flatbed trailer so that they can be unfolded for the performance and folded back down as soon as it is over. This single innovation lends substance to the feeling that the circus "fades away" right after the last show.

One tractor-trailer carries "Big Otto," the hippopotamus; another is home for a gorilla, and two provide a stage for such side-show features as "The World's Smallest Lady," "Baron Sword Swallower," and "Serpentina, The Snake Trainer." One side of each trailer unfolds, making a narrow porch the length of the vehicle. Two side wings, decorated with bright, descriptive billboards, complete the setup.

The cook house, another modified trailer, carries supplies and equipment necessary to prepare meals for the crew, as well as the dining tent and its tables.

An expert mechanic travels with the show, and one trailer has even been converted into a moving garage. It is stocked with an impressive inventory of parts, including tires and complete engines. If one of the show trucks should "blow an engine" during the tour, it can be repaired and back on the road within hours.

Two "sleeper trucks" are equipped with bunks for the crew and, of course, one converts into a concession stand, where the inevitable popcorn, hot dogs and cotton candy are sold.

Today's circus is more than entertainment — it is a feeling, an experience that might have been lost forever. The "miracle in motion" of the truck has given circus life a new zest and it remains a continuing part of Americana.