# How Experts Think We'll Live In 2000 A

By NEWS SPECIALISTS OF THE ASSOCIATED PRESS

The last half of the 20th Century dawns with fantastic promises shining through dark clouds.

Amid war and rumors of war, new terrors grip the world, but hopes and dreams of the future prevail.

The year 2000 looms nearer in the accelerating pace of modern life than 1950 ever could have seemed at the beginning of this century. If the past fortells it future and present trends point the way, many millions of persons alive today will live to see peace, prosperity, health, longer life, more leisure and greater luxuries than ever were

A woman may be President!

These are some of the rewards envisaged for the year 2000 by Associated Press experts looking ahead.

#### Here is how they size up prospects; WORLD AFFAIRS: Price of Peace

Students of history in the year 2000 will probably look back on the 20th century as the era of blood and money,

Blood because the earth will still be reeking from the third world

Money, representing the material resources of the western world, because it will have outweighed the unfulfilled promises of Russian imperialistic Communism in unifying the world, or at least will be on the way to that end.

More importantly, but bearing on both, will be the recognition that a new world unifying power-the United States-will have taken its place in the center of international affairs; forging a new "empire," different from Britain's, different from Rome's, indeed not an empire at all in the old sense, but nevertheless a new core, a new catalytic

This central position of the United States will grow out of its already-demonstrated willingness to base its relations with other nations on a community of interest, out of its capabilities for lending aid to the underdeveloped out of its refusal to divide the world after World War II, into spheres of influence for the benefit of the great

The Third World War-harring such a miracle as has never yet occurred in relations between countries so greatly at odds-will grow out of Russia's exactly opposite attempts to unify the world by force.

By the year 2000 some sort of world federation idea should have taken real form, with the United States, because of its commercial interest in the development of other lands, because of the blood it will have shed in their behalf, holding a lot of votes.

#### SCIENCE: A Man-Made Planet

The first man-made star will be circling around the earth by the year 2000.

This star's light will be like that of the moon, reflected sunshine. It will be visible before sunrise and after sunset. It will circle 400 to 500 miles away from earth, or possibly farther.

This little planet is likely to be the first of the space ships, because there are a lot of practical reasons for building it, regardless of the future of interplanetary travel, it will be the nose of a step-rocket, one which fires in sections, each part dropping off to fall back to earth, until the final piece attains the speed of seven miles a second. At that velocity the end piece will not fall back, but will become a satellite of earth

Practical uses are numerous. One is a radar beacon. Another to reflect radio signals, for scientific study. Three of these small ships, high enough and evenly spaced around the earth might become relays to serve the entire world with television.

The first ship is unlikely to be manned. But it may get power enough from the sun's heat to drive electronic equipment indefinitely. In 2000 we shall be able to fly around the world in a day. We shall be neighbors of everyone else on earth, to whom we wish to be

The atomic age should be getting under way. Atomic power will become useful in those areas where coal and oil are expensive and where water power is not available

### **ECONOMICS:** New Living Standards

The nation's industrial and agricultural plant will be able to support 300 million persons 50 years from now-twice the present population, Land now unproductive will be made to yield, Science will steadily increase crop production per acre. Technological, industrial and economic advances will give the American people living standards eight times as high as now.

Dr. Harold G. Moulton, president of the Brookings Institution, in his book, "Controlling Factors in Economic Development," predicts that in the next century the nation's expenditure for food will be eight

The total expended each year for housing will be 16 times the present outlay; for apparel 20 times more; for health and education 30 times more, and for recreation and travel 33 times more.

Technical advances will be well distributed throughout the ccononly. For example, a housewife may use an electronic stove and prepare roast beef in less time than it takes to set the table.

Other seonomists agree with Dr. Moulton, The Twentieth Century Fund, looking shead only 10 years, foresees an American population of 155 million a conservative estimate) who, as consumers, will be spending 159 billion dollars a year. By 1960, they predict, the nation will be putting 45 billion dollars annually into additional capital goods, for further experience of the industrial plant.

# WOMEN: For President!

The woman of the year 2000 will be an outsize Diana, anthropologists and hearty expects predict. She will be more than six feet and death more than on any other now known factor. tall, wear a special short have shoulders like a wrestler and muscles like a truck driver

Chances are she will be doing a man's job, and for this reason. will dress to fit her role Her hair will be cropped short, so as not to get in the way She probably will wear the most functional clothes in the daytime, on frills only after dark.

Slacks probably will be her usual workaday costume. These will be of synthetic fiber, treated to keep her warm in winter and cool in summer, admit the beneficial ultra-violet rays and keep out the burning ones. They will be light weight and equipped with pockets for food capsules, which she will cat instead of meat and potatoes.

Her proportions will be perfect though Amazonian, because science will have perfected a balanced ration of vitamins, proteins and minerals that will produce the maximum bodily efficiency, the mini-

She will go in for all kinds of sport-probably will compete with men athletes in football, baseball, prizefighting and wrestling, She'll be in on all the high-level groups of finance, business and

She may even be president.

# POPULATION: Growth Will Slow

The population of the United States, which rose from 76,000,000 in 1900 to 150,500,000 in 1950, may not double again in the next half process. century. U. S. Census Bureau experts doubt that it will reach 300,000,-000 by the year 2000, but they are not hazarding predictions that far

Population may reach 200,000,000 before the end of the century and will keep on increasing well into the 21st century.

While population doubled in the last half century, it more than tripled in the previous 50 years between 1850 and 1900, Between 1800 and 1850, it had more than quadrupled.

Three shifts in U. S. population that have been tremendous in the past 10 years are expected to keep going strong. These are:



This symposium is written by the following specialists of The Associated Press; J. M. Roberts, Jr., foreign affairs; Howard W. Blakeslee, science, Sam Dawson committees, Dorothy Roe, omen; Alexander George, population; James J. Strebig, aviation; David G. Bareuther, construction; C. E. Butterfield, television; Gene Handsaker, movies; Ovid A. Martlin, agriculture; Ed Creagh, polities; Norman Walker, labor; David Taylor Marke, education

center of the country to horder states, particularly the Pacific coast and the South, and the movement of city dwellers to the suburbs. bicles and should be more independent of surface weather conditions.

# MEDICINE: A Longer Life Span

Medicine by the year 2000 will have advanced the length of life of women to an expectation of nearly 30 and of men to over 75

The record will be better if the rause and cure of cancer is discovered. Cancer is a form of growth, it is part of metabolism, Con- much faster, traveling in pilotless missiles controlled from ground cerning growth, nothing is now known. Metabolism is not such a com- stations. plete mystery, but is complex. Most of the chronic diseases, except infections caused by germs and viruses; are based on metabolism gone will end mid-century's struggle with giant airports. Combinations of in the second half of the century,

Growth, metabolism and cancer studies will make the first break helicopters can eliminate long runways, into clearing another mystery, the causes of aging. After that is known it will be possible to control aging so that cldcrly persons will be will provide door-to-door air freight service. healthy to nearly the end of their lives.

Hope is very good for restricting cancer's attack before 59 more years, but not for eradicating it. For it now appears that cancer is and will be preparing for interplanetary explorations, using methods not a single disease, but takes many forms.

The prevention of baldness depends on studies of growth, aging

Public health will improve, especially the knowledge of how air carries infections, like the common cold, from person to person, Before 2000, the air probably will be made as sale from disease-spreading as water and food were during the first half of this century,

Surgery, which has been the fastest-moving side of medical science, will by 2000, be able to repair bodies damaged by disease, by accidents or by heredity so that the "lame and the halt" will nearly disappear. Polio probably will be stopped well before 2000.

#### AIR WAR: New Terrors Ahead

Space will replace speed as air war's big problem before the world rockets into the year 2000.

Distance between points should have disappeared as an element of military planning. Optimum speeds up to the so-called "escape speed" of 25,000 miles an hour, at which a flying object would sail out of the earth's gravitational pull, will be available. Space for maneuvering will be an important factor, and scientists will be striving for better control to permit use of top speeds.

Long-range military thinkers speak now in terms of some newer source of propulsion, still undefined except in such broad terms as simpler, cheaper, universally available, inexhaustible. It may be solar radiation, atmospheric decomposition or some new nuclear fission

Space platforms, sent out from earth, will end mid-century's "iron curtain" era by bringing the entire globe under constant sur-

The 5,000-mile range intercontinental atmospheric missile will be in service long before 2000 A.D. There likely will be intercontinental ballistic missiles, capable of being shot out of the atmosphere and TELEVISION: Walkie-Talkie-Seeing descending meteor-like on a target,

Guided missiles to seek targets in flight or on the ground will Guided missiles to seek targets in hight or on the ground will have been developed to extreme sensitivity. They will be launched simplified at the dawn of the 21st century that a small device will a means of understanding and living in an increasingly

An air attack of the next century will be as relatively unstoppable between them, with the winner pressured from all s as today. Effectiveness of airborne weapons will have become such and guided by a constitution little changed since Gentle that the first problem will be survival of "round one" - the initial

# AVIATION: Foolproof Flying

Civil aviation in A.D. 2000 will be accepted by the public as freedom will be hard to save if a general war should or readily as mid-century automobile and train

Flight will have the precision of control found in ground ve-These trends will be further stimulated by industrial production need- Piloting will be as simple as driving a shiftless car and ringed with in the name of Socialism, some mild or strong conf ed for the new, long-range defense program and by farm mechaniza- safeguards to reduce human error. Safety will be greater in com- do; directives here, big red "Thou-Shall-Not's" there mercial air transportation than in any of today's travel methods,

Atomic engines for large civil aircraft will do away with the problem of range and speed. Electronic airways and landing systems, com- have been a nation. We've come through wars and bined with electronic eyes in the planes, superior cabin pressurization, new structural designs and materials and complete aircraft anti-icing will eliminate weather factors in schedules.

Cruising speeds of 1,000 miles an hour or higher are probable for deluxe travel, Air mail and high priority cargo are likely to move

New principles of lift and development of designs already begun rotating and fixing wings and conventional aircraft with high lift

Combination automobile-planes will have been perfected, Civilian scientists will have begun their study of the outer space work together, already understood in mid-century.

# CONSTRUCTION: Push-Button Home

Current trends are already sketching blueprints of what will be called modern in homes, apartments and office buildings at the end labor may have its own party, as is the case in of this century. Signs point to vertical cities and flying suburbs little airport communities 100 miles and more from skyscraper clusters rising in the midst of acres of parks and playgrounds,

People will live in houses so automatic that push-buttons will be replaced by fingertip and even voice controls. Some people today can push a bedside button to close a window-another to start coffee in the kitchen. Tomorrow such chores will be done by the warmth of pensation? your fingertip, as elevators are summoned now in some of the newest office buildings-or by a more whisper in the intercom phone. Rigid zoning in small towns will insure yards, gardens and trees

for each house, where window walls will slip down in slots to merge outdoors with indoors in favorable weather. City dwellers will bask on individual balconies high above the treetops of parks surrounding elevator apartment houses. All homes will have temperatures maintained at constant comfortable levels the year-round for human efficiency. Heat will be tapped from the bowels of the earth and refrigeration will cool houses in the same process.

Skyscrapers will stage a comeback because of the demand for premium space afforded by light and airy tower floors. But few office buildings will exceed 50 stories or so—the economic height created by elevator and utilities cores."

Improved lightweight building materials will be readily prefabricated to make the construction or replacement of homes or skyscrapers almost as flexible as changes in partitions in existing office build-

Third dimensional color television will be so commonplace and so from continuous patrol aircraft, able to stay aloft as long as ships project pictures on the living room wall so realistic they will seem clety. Movement of people from farms to town, migration from the stay at sea, Electronic eyes will eliminate errors in detection and to be alive. The room will automatically be filled with the aroma of

the flower garden being shown on the screen

Radio broadcasting will have disappeared, for to in a program that cannot be seen. Radio will long since to a strictly communications medium, using devices, and unthought of.

Wireless transmission of electric power, long a de gineer, will have come into being. There will be no n to break in storms. A simple small antenna on the rethe current for lighting a house.

The telephone will be transformed from wire to re equipped with the visuality of television. Who's on the the line will seldom be a mystery. Every pedestrian w walking telephone an apparatus housed in a walle-

Surgery will be facilitated by a combination of television. Electronic appendectomies will be perfe X-ray-TV camera, projection screen and electric knin actually being electrodes functioning without puncture

# MOVIES: Fourth Dimension

Some movie theaters of A.D. 2000 may be do celling and walls arching together like the sky. These s the "screen". Most action would still be in front of to some could be overhead, some at the sides, and some behind. A little girl steps into a street in the action h you turn around and look behind you to see if an auto i

with-depth that parlor stereoscopes used to offer. Als will be in color. People will still laugh and cry at the Sex and westerns will still be with us.

Three-dimensional photography is likely-the k

Television's influence will be tremendous. Industry Cecil B. DeMille and Dore Schary cautiously predict a films and TV. Some think television will kill only But if there's a system whereby viewers can be chan video pictures, others say, there'll be no theaters left

### AGRICULTURE: A Golden A

A golden age of agriculture-providing greater ity for farmers and better eating to reonsumers-may accomplishment of the last half of the 20th century

Giving support to the possibility of attaining the markable progress made in agriculture during the f century. At the start of the century it required the fifths of the nation's population to supply the demand ucts. Today-at the century's half-way mark-it take of the population.

What has made it possible has been largely the were new and better farm machinery and biology

Foreseeing a national population of 200,000,000 to century, these leaders predict less than one-tenth of be needed to supply markets for farm products.

Through the extended use of better plants and an fertilizers, new growth regulators and more efficient should be possible, leaders say, for farmers to produ needs on much less land than today.

A major byproduct of the expected need for few for possible new scientific developments, leaders say, er ability to stabilize agricultural production and agricultural which would provide and maintain greater security is

#### POLITICS: Freedom Will Suren

How will this land of ours be governed in 50 year Much as today, perhaps-with two parties co

And yet it is easy to scare ourselves with other po Some see us drifting toward the all-powerful state sweet sound of "security". Some see a need to curb or it be used to shield those who plot against us. And What then?

A military dictatorship to restore the nation's l soul, from the ravages of atomic attack? Some sort Some fear the worst. And yet:

We've feared the worst, while hoping for the bod we've come through-free. Today, almost alone among men, we have the

may need to prove-to hold the course we choose.

# LABOR: A Short Work Week

There is every reason to believe that the stead ized labor in the first half of 1950 will continue along

Labor developed to where it is today from practice the beginning of the 20th century. It's still in the process Detachable fuselages, interchangeable between types of aircraft, The various elements and cliques making up the Ame -labor is just one of them-are learning more and national security and well-being requires them to rem

> So as labor comes closer to reaching maturity it greater acceptance from other elements of American itself would tend to eliminate some of the great labe struggles and create a smoother-working American both

From every indication labor is in polities to stay. ing an expanding role as the years progress. By the end

It's a good bet, too, that by the end of the century ment plans now avoided as forms of socialism will be commonplace. Who in 1900 thought that by mid-century be government-regulated pensions and a work week hours? A minimum wage, child labor curbs and une

So tell your children not to be surprised if the year 35 or even a 30-hour work week fixed by law.

# **EDUCATION: More College**

On the basis of present trends, education will following lines:

There will be more graduates of colleges than school graduates today. Radio and television will be common instrument

Junior, or community colleges will be as available students as high schools now are. A new concept of financial support for education

It will approximate 5 per cent of the national incomsupport Educational research for and on behalf of children nized to be as important as research designed to imp

of bacon, corn, science, engineering and technology One-room rural schools will be practically non-exis months program will take shape in schools to coordina of school learning. Camping and other recreational act

Vocatioal education will be greatly extended.