

SPECIAL ISSUE

# Awake!

*Learning  
from the*  
**MARVELS OF  
CREATION**

(pages 3-23)

ALSO IN THIS  
ISSUE

**Greek  
Government  
Bows to  
the Church,  
Suppresses  
Freedom**

(pages 24-29)

OCTOBER 8, 1963

## THE MISSION OF THIS JOURNAL

News sources that are able to keep you awake to the vital issues of our times must be unfettered by censorship and selfish interests. "Awake!" has no fetters. It recognizes facts, faces facts, is free to publish facts. It is not bound by political ambitions or obligations; it is unhampered by advertisers whose toes must not be trampled on; it is unprejudiced by traditional creeds. This journal keeps itself free that it may speak freely to you. But it does not abuse its freedom. It maintains integrity to truth.

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"Awake!" pledges itself to righteous principles, to exposing hidden foes and subtle dangers, to championing freedom for all, to comforting mourners and strengthening those disheartened by the failures of a delinquent world, reflecting sure hope for the establishment of a righteous New World.

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# Awake!

"It is already the hour for you to awake."

—Romans 13:11

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## from STARS to ATOMS



A STUDY of the material universe inspires awe for its Creator in the minds of honest men.

When one appreciates its staggering size and complexity, its order and unity, he realizes his own smallness and the unspeakable greatness of the One who created it all. His image of himself shrinks to insignificance as he contemplates the depths of space and realizes that the earth he stands on is less than a mere grain of sand by comparison.

From the very largest heavenly bodies to the very smallest atomic particles, we are confronted with an order and design so marvelous that many who study it express themselves as one Harvard geology professor, who said: "We live in a universe not of chance or caprice, but of Law and Order. Its administration is completely rational and worthy of the utmost respect.

Consider the marvelous mathematical scheme of nature that permits us to give consecutive atomic numbers to every element."

### *The Universe*

When astronomers began mapping the heavens centuries ago they never dreamed of its size and complexity. What at first appeared through their telescopes to be distant stars were later found to be entire

"island universes" of stars, called galaxies, where billions of stars were collected together in orderly systems.

More advanced telescopes revealed

thousands, millions, yes, billions of these galaxies. So colossal has the size of our universe proved to be and so vast the distances within it that the most advanced scientific methods have only scratched the surface in understanding it.

The billions of galaxies, each containing innumerable stars, planets and other bodies, were also found to be in orderly ar-

### **Learning from the Marvels of Creation**

—This is the fascinating theme developed in the articles on pages 3 to 23 of this special issue of "Awake!"

rangement. For example, our galaxy, called the Milky Way, containing about 100,000,000,000 stars, is associated with at least seventeen other galaxies in what might be called a galactic group. Other galactic groups contain hundreds, or even thousands, of galaxies.

King David of ancient Israel, with far less knowledge of the heavens than we now have, was compelled to exclaim: "When I see your heavens, the works of your fingers, the moon and the stars that you have prepared, what is mortal man that you keep him in mind?"—Ps. 8:3, 4.

### ***Distance***

Despite the existence of so many heavenly bodies, there is little danger of collision, for the spaces in between them are immense.

Our closest neighbor, the moon, is over 238,000 miles away. But since there are about 100,000,000,000 stars in our own galaxy, the Milky Way, are not some of them close enough to endanger earth? No, because the nearest star is the sun, and it is 93,000,000 miles away. The next closest star is about 270,000 times as far away from us as the sun is!

So vast are distances in the universe that they are measured in "light years," the distance light travels in one year at its speed of over 186,000 miles per second. This amounts to about six trillion (6,000,000,000,000) miles a year! That closest star other than the sun, one of the Alpha Centauri group, is over four light years away, or about twenty-five trillion (25,000,000,000,000) miles distant!

Our Milky Way galaxy measures about 100,000 light years in diameter, which helps explain why its myriads of stars are in little danger of colliding. Beyond that, the distance from our Milky Way galaxy to the next closest galaxy like it, called Andromeda, is about 1,400,000 light years.

That means that if you traveled at the rate of 186,000 miles each second, it would take you almost 1,400,000 years to reach this neighbor galaxy!

### ***Stars***

The stars that make up the bulk of these galaxies are self-illuminating bodies like our sun. Each is a huge sphere of intensely glowing gas. Some are so dense that one cubic inch of their material weighs several million pounds. The density of the star most familiar to us, the sun, is only about one and a half times that of liquid water.

While the size of our sun is impressive, it is only average as stars go. Its diameter of 864,000 miles seems very large compared to earth's diameter of about 8,000 miles, but one star in our Milky Way, Antares, has a diameter of about 350,000,000 miles, 400 times that of our sun. If one edge of Antares were placed at our earth, it would reach to the sun and nearly three times beyond it.

Making the entire arrangement even more awesome to our finite minds is the fact that no end to these stars and star systems can be detected. Each time more powerful instruments peer into the universe, it is seen to stretch beyond that new limit of vision.

The entire gigantic mass is precisely arranged and accurate in its movements. Day after day, year after year, century after century, the stars and planets follow their paths through the skies in such orderly fashion, and are so regular in their orbits, that eclipses may be predicted centuries in advance. Even our finest timepieces can be set by their movements. So orderly are they that men stake their lives on the laws that govern their regularity when they use them as navigational aids to cross dark oceans by air and sea. The book *The World We Live In* states: "For all its complexity, the solar system also

reveals an order and harmony that has ever impressed scientists contemplating the laws that govern the motions of the skies."

This magnificent expanse shouts out the glory and power of its Creator, of whom Isaiah said: "Raise your eyes high up and see. Who has created these things? It is the One who is bringing forth the army of them even by number, all of whom he calls even by name. Due to the abundance of dynamic energy, he also being vigorous in power, not one of them is missing."—Isa. 40:26.

### *The Smallest*

About a century ago English physicist John Dalton's experiments showed that the various elements behaved as if they were composed of tiny units. He called these units atoms, and thought they were indivisible, solid particles.

Through the century that followed, further experiments disclosed that the atom was not the smallest unit. Step by step three basic building blocks were discovered inside the atom: protons, neutrons and electrons. These three particles were found to have the same orderliness as the rest of the universe. Like a miniature solar system, electrons were discovered to be speeding around a nucleus of protons and neutrons in a law-abiding system.

How big is an atom? Only a few billionths of an inch in diameter! Most of its mass is concentrated in the nucleus of protons and neutrons. The size of this nucleus, however, is 100,000 times smaller than the entire diameter of the atom with its orbiting electrons. Incredibly, as in the arrangement of stars and galaxies, the atom consists mostly of space between the nucleus and its orbiting electrons. Even with 6,000,000,000,000,000,000 (six sextillion) atoms in one drop of water, there is far more space than matter!

Yet, this is not all. Until recent years it was thought that the protons, neutrons and electrons were the tiniest building blocks of creation. However, modern research has brought to light many other small particles inside the atom. Scientists number them at more than thirty. Some are thought to relate to that mysterious force holding the nucleus of the atom together, which, when split, produces the fantastic quantities of energy seen in atomic explosions. There is also some evidence now that even the protons and neutrons themselves may be minute systems, with a central core or nucleus surrounded by clouds of smaller particles.

### *Declare the Glory of God*

So whether we examine the universe or the atom we observe amazing power, order, unity and complexity far beyond our ability fully to comprehend. What we can comprehend is that the same order and harmony in both testify to their having the same Creator.

As a professor of biology stated: "From the drop of water seen through the microscope to the distant star observed through the telescope I marvel at the exact orderliness that I observe—so exact that laws have been formulated to express its consistency. . . . Somewhere back of all this order must be a Supreme Being, for there can be no order and no laws without a Supreme Mind." Einstein said he had "a deeply emotional conviction of the presence of a superior reasoning power, which is revealed in the incomprehensible universe."

From the large to the small, from star to atom, our universe strikingly demonstrates the power and harmony of God's work and underscores the "expression of the psalmist who wrote: "The heavens are declaring the glory of God; and of the work of his hands the expanse is telling."—Ps. 19:1.

**E**ARTH is man's home, his only home. Try as he will, he cannot stay away from it in space for any length of time. His life depends upon it. His need for it stimulates his hunger for knowledge about it. What he has learned reveals that life on the earth is no accident, but that earth was specifically designed for human habitation. There are ever so many of its characteristics that, as far as is known, are peculiar to it and that are imperative to the life of man and beast.

First of all, there is earth's temperature. This depends primarily upon its distance from the sun, some 93 million miles, with a variation of three million miles in the course of a year. Were the earth as far removed from the sun as are the planets Neptune and Pluto, no life of the type found on earth would be possible. The temperature would be far too cold. On the other hand, if the earth were much closer to the sun, life likewise would be impossible because of the extreme heat. The Mariner II space vehicle, shot into space within the past year, revealed that the surface of Venus, a planet that is one-third closer to the sun than is the earth, has a surface temperature of 800° F., a temperature that is far above the melting point of lead. Clearly, the earth's distance from the sun is evidence of design.

And so is the very speed of the earth

# EARTH



## Designed for Human Habitation

as it rotates on its axis. Were the earth to rotate on its axis only once a year, as is the case with its sister planet Mercury, one half of the earth would be a frozen sub-zero waste and the other half a burning furnace.

Concerning the importance of temperature to the maintenance of life upon the earth, A. R. Wallace once well said:

"The essential features of the structure of organized beings are, continuous growth and repair of tissues, nutrition by the absorption of dead or living matter from without, and its transformation into the various unstable compounds of which their bodies are built up. For these purposes a double system of circulation, gaseous and liquid, has to be continuously in operation, and this is carried on by means of minute tubular or cellular vessels which permeate every part of the body. These wonderfully complex and exquisitely adjusted circulating systems are entirely dependent on the continuous maintenance of a very narrow range of temperature somewhere between the extremes of the boiling and the freezing points of water."

### *The Atmosphere*

Only slightly less important than the right temperature of the earth is its atmosphere, which gives no less striking evidence for earth's

being designed for human habitation. Thus concerning the nature of earth's atmosphere one authority states:

"The signal fact is that the rare gases are present here in only small amounts, much smaller than those known elsewhere in the universe. At the same time, oxygen, nitrogen . . . and water vapor are present in much greater abundance than elsewhere. The relative distribution of the elements in the universe

has been determined by spectroscopic analysis of meteorites. These show that the rare gases are present here only in a few millionths to a billionth of their cosmic abundance. Now, since the solar system and probably the known universe are generally assumed to have been formed simultaneously, the Earth should have contained a reasonably proportionate share of the various elements."<sup>2</sup>

But such is not the case. Why? And what is the origin of atmospheric oxygen, which is found in such abundance in earth's atmosphere (21 percent) and which is so indispensable to life? Scientists cannot answer. They offer various hypotheses, but there are objections to all of them.

Yes, no other known planet has an atmosphere capable of sustaining human life. Was this a mere accident, something that happened by chance, a product of random?

Nor is that all. The atmosphere not only makes human life possible on the earth but it is a most vital factor in preserving it. According to the *Larousse Encyclopedia of the Earth*, the atmosphere does this by acting, first of all, "as an insulating blanket, keeping temperatures in middle and high altitudes from dropping to extremes during night and winter." Secondly, according to this same authority, "the atmosphere serves to protect us from those of the Sun's rays which are harmful. The ultraviolet end of the spectrum in particular, while important and necessary for life, is nevertheless fatal below certain wavelengths."<sup>3</sup>

What protects the earth from these rays is a thin layer of ozone some 100,000 miles above the surface of the earth. Who but the Designer of the earth and Creator of man could have foreseen the vital need for such a shield? Nor are the sun's harmful rays the only ones against which the earth's atmosphere furnishes protection. When the earth passed through the tail of Halley's comet in 1910, it was feared that harm would come to the human race be-

cause that tail contained cyanogen, a deadly gas. But even as the atmosphere protects man from the sun's harmful rays so it prevented this gas from reaching the surface of the earth.

Acting like a protective canopy, the atmosphere further protects man from the multitudes of meteors that fall upon the earth. At times thousands fall in one night. They could cause great harm and damage to the earth and its inhabitants if they were not burned up by friction due to the earth's atmosphere. The condition on the moon highlights this fact. Thus we are told:

"The utter contrast between the surfaces of the Moon and the Earth, whose environments in space are so similar, is particularly striking. The Moon's surface is dry and without air. On it are no continents, no long ranges of mountains, and no active volcanoes, but instead a multitude of meteorite craters of all sizes, which are almost lacking on the earth."<sup>4</sup>

Not to be overlooked is the role that the atmosphere plays in the earth's water cycle. The waters drawn from the ocean by the rays of the sun form clouds that float or are driven by winds in the atmosphere over the land areas, where they fall as rain. Without such rainfall, man could not live. Surely these varying and vital roles that the atmosphere plays in making human life possible upon the surface of the earth could not be the result of blind chance but, rather, argue eloquently in favor of the earth's being designed for human habitation by a great Designer.

### ***Other Vital Cycles***

In addition to the water cycle there are also the phosphorus, nitrogen and oxygen cycles, all indispensable to the life of man and beast and giving further eloquent testimony that the earth was indeed designed for human habitation. For example, if there is any truly mineral element more important to life than any other it is phos-

phorus. It is comparatively rare and transient, being easily lost by being combined with other elements. Man and beast get it especially by eating grains, which take it from the soil. It is returned to the soil by manure and decaying bodies. Because of man's carelessness much precious phosphorus is washed into the sea, impoverishing the land.

However, this phosphorus is not lost entirely, for the sea has its own phosphorus cycle. Plankton absorbs phosphorus, zooplankton eats the plankton, small fish eat the zooplankton, and large fish the small fish. When sea plants and animals die they sink to the bottom of the ocean to build up reserves of phosphorus, to which is added that which comes into the sea by soil erosion and sewage. In temperate climates cold weather causes an inversion of the upper and lower layers of water, thus bringing the phosphorus up so that it can be eaten by the plankton. This starts the cycle all over again. Large numbers of the human race depend upon fish for protein, and the abundance of fish in the ocean largely depends upon this inversion of the upper and lower layers of water, this phosphorus cycle of the sea. Likewise indispensable to human life is the oxygen cycle.

There is no question about oxygen being vital to man's habitation of the earth. It is kept in equilibrium by the oxygen cycle. Plants maintain this cycle by taking carbon dioxide out of the air and releasing oxygen. Man and beast, in turn, take in the oxygen and release carbon dioxide.

Still another cycle indispensable to man's earthly existence is that of nitrogen, a gas that comprises 78 percent of the earth's atmosphere. Nitrogen is a comparatively inert gas that man does not utilize. It is fortunate for man that nitrogen is so inert, that it does not readily mix with other elements. If it did, the oceans would all be

a weak solution of nitric acid, making life on earth impossible. In the nitrogen cycle the thunderstorms as well as bacteria found on the roots of such plants as peas, beans and clover, introduce nitrogen into the soil in the form of nitrates that can be absorbed by plants. As plants and animal matter decay they release nitrogen to the atmosphere, thereby completing the cycle. Another valuable purpose served by nitrogen is that of a dilutant of the air's oxygen so that there is just the right amount of free oxygen to support life and for the burning of combustible materials. Surely all these cycles, so vital to life on earth, could not possibly be the product of blind chance but forcefully argue that the earth was indeed designed for human habitation.

### **Other Factors**

Among other factors that argue in behalf of the earth's being designed for human habitation are the size and location of the moon. Were the moon twice its present size, it would cause such tides and bulgings in the earth's crust that man and beast could not exist upon the earth, that is, upon the land. The same is true if the moon were half the distance from the earth that it presently is.

The lowly, humble dust particle furnishes still another proof of design. Dust enters the earth's atmosphere by means of meteors, volcanoes and desert winds. Without dust, life would not be possible upon earth. Says *The Encyclopedia Americana*:

"No condensation of moisture, as in rain, mist, fog, could occur without nuclei such as dust particles. If the atmosphere were not impregnated with dust there would be no cloud effects, no radiant sunsets, no soft afterglow; the sun would go down instantly, the harmonious colorings, which lend a halo to the quiet evening would never have been."

Intelligent design is also evident in the tilt of earth's axis at an angle of 23 de-



grees. Consider what a past president of the New York Academy of Sciences and a life member of the Royal Institution of Great Britain had to say about this:

"The earth is tilted at an angle of twenty-three degrees. This gives us our seasons. If it had not been tilted, the poles would be in eternal twilight. The water vapor from the ocean would move north and south, piling up continents of ice and leaving possibly a desert between the equator and the ice. Glacial rivers would erode and roar through canyons into the salt-covered bed of the ocean to form temporary pools of brine. The weight of the unbelievably vast mass of ice would depress the poles, causing our equator to bulge or erupt or at least show the need of a new waistline belt. The lowering of the ocean would expose vast new land areas and diminish the rainfall in all parts of the world, with fearful results."<sup>6</sup>

Much more evidence could be adduced, would space permit, but the foregoing should suffice to prove that the earth was designed for human habitation. Such an amazing number of conditions and balances could not by any means have come about by chance. Only because of design are men of science able to say regarding it:

"Man's home—the surface of the Earth—is a small and temperate shelter set in a vast and alien universe . . . Well may mankind glory in its fertile plains, its snow-capped pinnacles, its mighty oceans, for they are rare examples of moderation in a universe where extremes of heat and cold prevail . . . On earth the greatest miracle is life, but the combination of circumstances which have made life possible is hardly less remarkable."<sup>4</sup>

### ***Man Designed for the Earth***

Yes, it is no less true that man was designed for earthly habitation. As the Bible makes clear, "To Jehovah the heavens belong, but the earth he has given to the sons of men." (Ps. 115:16) Man's arms, legs and hands are ideally suited for him to move about on this earth, to provide for himself food, clothing and shelter. The

earth abounds with sounds; man's ear is constructed so as to pick up the greatest possible number of sounds useful and enjoyable to him. The earth also abounds in colors, and man has color vision. More than all this, man has an intellect, a brain, making possible his appreciating of beauty, so that all this beauty is not wasted on him.

Man has been given a set of teeth, and the earth abounds with all manner of fruits, vegetables, cereals, on which to use his teeth, as well as such sweets as maple syrup and honey to delight his sense of taste. Water is indispensable to man's existence, and what an abundance of it there is upon earth! There was a time when "scientists" blithely speculated that someday man would content himself with a few concentrated pellets. But now he knows better, for both taste and bulk are essential for proper digestion and elimination, and the food's being pleasing to the eye also aids in digestion.

Earth designed for human habitation and man designed for earthly habitation—by whom? By the Creator, Jehovah God, even as we read in his Word, the Bible, at Isaiah 45:18: "This is what Jehovah has said, the Creator of the heavens, He the true God, the Former of the earth and the Maker of it, He the One who firmly established it, who did not create it simply for nothing, who formed it even to be inhabited: 'I am Jehovah, and there is no one else.' " And as we note *how* He made all things we are compelled to exclaim, in the words of the psalmist: "How many your works are, O Jehovah! All of them in wisdom you have made. The earth is full of your productions."—Ps. 104:24.

### **REFERENCES**

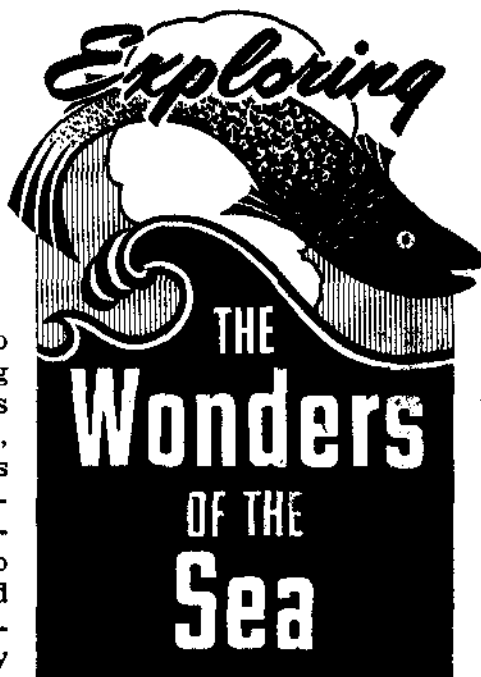
- <sup>1</sup> *Fortnightly Review*, March 1, 1903, pp. 406ff.
- <sup>2</sup> *Scientific American*, August 1953, pp. 83-86.
- <sup>3</sup> Page 16.
- <sup>4</sup> "The Crust"—J. Tuzo Wilson, in *The Earth and Its Atmosphere*, edited by D. R. Bates.
- <sup>5</sup> Vol. 9, p. 429.
- <sup>6</sup> *Man Does Not Stand Alone*—Morrison, p. 17.

**A**LTHOUGH this planet is called earth, 71 percent of its surface is covered by the seas. The volume of water that they contain is so great that, if the earth were bulldozed smooth, seawater would inundate it to a depth of over two miles. But far from being a vast wasteland, the seas swarm with life. In fact, the first living creatures on this planet were designed so as to live comfortably in the seas. To this end "God blessed them, saying: 'Be fruitful and become many and fill the waters in the sea basins.'"—Gen. 1:9, 20-23.

Those that have explored the ocean depths are amazed at the beauty of design and the mobility of these countless sea creatures. There seems to be no end to their variety, and each one is equipped so as to live in its particular habitat; whether that be at the seashore, in warm surface waters, or in the near-freezing depths of undersea valleys beneath more than six miles of water.

### *Exploring Seashore Life*

Although one may be inspired by the majestic waves pounding a rocky shore, a careful examination of the many living creatures that make their home along the shore can be equally rewarding. Many of the animals have remarkable behavior cycles that are repeated with the ebb and flow of the tides. The regular changing of color of the common fiddler crab is a good example. The *Scientific American* of April 1954 reported the following interesting re-



sults of some experiments conducted on these creatures:

"Sometimes the crab is darkest in the morning, sometimes at noon and occasionally both early in the morning and early in the evening. The time of greatest darkening tends to occur about 50 minutes later each successive day. Now it is common knowledge that high and low tides in any given locality also occur about 50 minutes later each day. We found that the maximum darkening of the crabs in our laboratory came at about the time

of day when the tide was low in the place where they had been collected. In other words, at the very same time that crabs on the beach were taking on their darkest hue as protection from the sunlight and predators, their captured relatives in the laboratory, who had been kept in a darkroom for as long as a month, also were becoming their darkest."

How marvelously these creatures are designed for their protection! To emphasize how remarkably precise is the mechanism that triggers this change of color, "fiddler crabs from Woods Hole were kept in the darkroom side by side with crabs from Martha's Vineyard, where low tide comes four hours later in the day. The Vineyard crabs turned their darkest just four hours later than the Woods Hole crabs!" Where do sea creatures get the wonderful timing mechanism that is triggered by the ebb and flow of the tides? Evading the answer that God is responsible, scientists say "that such biological clocks are inherited."

Another wonderful creature that is found attached to rocks or in tide pools along the shore is the sea anemone. How beautifully colored they are! Some are olive green, others are flesh-colored or orange, while still others are pink or crimson. Slender undulating tentacles arranged around a central disc give them the appearance of lovely flowers. But let tiny shrimps or minnows in the vicinity beware! Those colorful tentacles possess minute "lasso threads" that dart out and paralyze unsuspecting victims with poison. The petallike tentacles then reach out and pull the stunned prey into its center, where it vanishes into the mouth of the anemone.

Thus the beautiful, helpless-looking anemone is wonderfully designed for survival. But perhaps even more marvelous is the way that it contributes to the support and well-being of the daddy-longlegs of the shore creatures, known as the sea spider. After the anemone has finished dining, this eight-legged, spiderlike creature emerges from some secret lair among the weeds and pebbles and confidently crawls over the anemone's colorful tentacles. Surprisingly, no poisonous threads dart out to strike him. Instead, the sea spider proceeds unmolested to the center of the anemone, where it inserts its long snout into the anemone's mouth, and calmly sucks up the contents of the latter's stomach!

Why does the sea anemone allow this robbery? That is no more puzzling than why certain fish and shrimp make their home in the anemone's stomach and are never digested, while similar little creatures are consumed. In tropical waters sea anemones grow to huge sizes, having tentacles two feet in length. Amazingly, they allow brightly colored coral fish to dart in and out of their stomachs, even though their everyday food consists of similar fish.

### ***Hospitals and Beauty Parlors***

An article in *Scientific American* of August 1961 suggests that the sea anemone may, in some way, benefit from the probing into its entrails by other sea creatures. The magazine explained that studies have revealed that a large number of marine organisms either live by cleaning other fish or benefit from being cleaned by them. Cleaner fish, which are now known to include twenty-six species, are specially equipped for their work with pointed snouts and tweezerlike teeth. Since other fish do not molest them, they are generally brightly colored and stand out in their environment. Host fish of many kinds travel long distances in order to receive treatment at these hospitals and beauty parlors of the underworld.

"Even a small cleaning station," this scientific journal reported, "may process a large number of fish in the course of a day. I saw up to 300 fish cleaned at one station in the Bahamas during one six-hour daylight period. Some of the fishes pass from station to station and return many times during the day; those that could be identified by visible marks, such as infection spots, returned day after day at regular time intervals." This amazing behavior called "cleaning symbiosis" is recognized as an important activity that occurs throughout the marine world.

But scientists wonder "what mechanism prevents ordinarily voracious fishes from devouring the little cleaners." Clearly, it is all part of God's marvelous design, which design becomes so evident when one explores "his wonderful works in the depths." —Ps. 107:24.

### ***Designed for Their Habitat***

Consider, for instance, fishes that inhabit cold northern waters. Recently scientists took some of them from the Hebron Fiord in Labrador, where both the water

and the fish were a few degrees below freezing. The fish, however, were protected by a built-in supply of antifreeze.

Then there are sea birds and turtles that are able to drink salty seawater, which would dehydrate and sicken their land-dwelling cousins. How is this possible? Recent studies reported in the January 1959 *Scientific American* show that, in addition to their kidneys, sea birds have "a special gland in the head which disposes of salt more rapidly than any kidney does." Similar experiments with sea turtles revealed that their tears come from a large gland behind their eyeball, which produces a liquid about the same as that of the salt gland secretions of the sea bird.

The more man learns about the creatures of the sea, the more he is impressed with the wonderful way they are made to live in their environment. Fish gills, for instance, are so marvelously designed for extracting oxygen from the water and throwing off carbon dioxide, that scientists are studying the possibility of constructing an artificial gill like the fish's. Swim bladders and other devices that allow sea creatures to float and adjust to various ocean depths are equally amazing.

True, not all fish have swim bladders, but those that do not are the bottom-dwelling variety, or they are in some way specially equipped, as are the streamlined, well-muscled mackerel and tuna, who find constant motion practically effortless. Most other fish possess swim bladders that expand as the fish ascends, helping it to rise, and com-

press when the fish descends, allowing it to sink. The fish can then adjust the volume of gas in the bladder so as to bring itself into equilibrium with the depth it desires.

Some sea creatures, however, have special floating devices. *Scientific American* of July 1960 described how the cuttlefish "uses its cuttlebone [a large absorbent bone along its back] as a submarine commander uses the buoyancy tanks of his craft. When the submarine is to submerge, its buoyancy tanks are filled with water; when it is to surface, compressed air blows the water out of the tanks. . . . In its cuttlebone the cuttlefish thus possesses a buoyancy-regulating device of a most ingenious kind."

The squid, on the other hand, possesses a large cavity that is filled with just the right amount of fluid of the proper density to give it buoyancy. Interestingly, the deep-diving bathyscaphe bears a resemblance to the squid, and for that reason cranchid squid are sometimes called "bathyscaphoid squid." "Though the etymology of the term is dubious," the above-quoted science magazine observed, "it may serve to remind us of an important lesson: Our pride in man's latest discoveries must be tempered by the knowledge that other animals may have been using them from time immemorial."

Thus the exploration of the sea is not only fascinating, but it also teaches man that the Master Designer of the marvelous wonders found there should be looked to for guidance and wisdom.



CUTTLEFISH

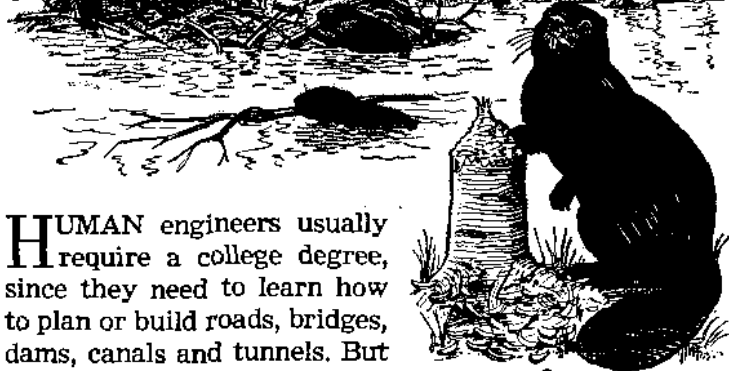


SQUID

A W A K E !

THOSE  
AMAZING

# Animal Engineers



**H**UMAN engineers usually require a college degree, since they need to learn how to plan or build roads, bridges, dams, canals and tunnels. But in nature there are amazing engineers that do not have to go to a school for engineers to learn how to build dams, canals or tunnels; they just *know* how.

An expert in tunnel construction is a kind of ground squirrel of western North America called the prairie dog. This underground engineer excavates an almost straight vertical shaft eight to sixteen feet deep. The tunnel's entrance is given special attention. It is situated in the middle of a kind of small volcano of earth. This elevation serves as a barrier against floods, preventing heavy rains from inundating the tunnel. What if the rain is so heavy that even the elevated entrance is temporarily submerged? Nature's flood-control engineers make arrangements for such an emergency.

Besides the regular tunnels, the prairie dogs construct, not far from the surface, lateral tunnels off the vertical main passageway. As the floodwater pours into

the burrow, the prairie dogs hurry into the ends of the emergency tunnels. Water rushing into the burrow forces air up into the emergency tunnels, forming air pockets. These prevent water from advancing farther into the tunnel, thus providing these underground engineers with a place of safety.

For amazing speed in tunnel construction few of nature's underground engineers exceed the moles and certain armadillos. One mole was observed to dig a tunnel five feet or more in twenty-six minutes, a rate of about twelve feet an hour. An armadillo has been observed to bury itself completely in two

minutes—this in soil so hard that one needed a pickax to dig a hole. Not only can armadillos dig with prodigious speed, but the eleven-banded armadillo excavates tremendous warrens in the forest floor that go down as much as fifty feet, coming out at water level at the bottom of river cliffs.

Perhaps the strangest of nature's underground engineers is the duckbilled platypus. This egg-laying mammal constructs a burrow that penetrates the riverbank to a length of from five to upward of sixty feet. Several exits are usually built in. Mrs. Platypus also barricades her burrow with a series of loose earth stoppers at intervals along the main tunnel leading to the outside. All this ensures privacy for the platypusery, which the mother does not leave till the young have learned to suck from her fur milk that seeps through certain special pores in her skin.

### ***Expert in Building Dams***

Tunnel construction is just one of the many engineering works of the beavers. These bark-eating rodents, found chiefly in North America, weigh from thirty to fifty pounds and are noted for their construction of dams. These dams are not trivial affairs, as some people view them, but they construct what one naturalist calls "serious engineering feats on a very large scale."

Yes, some beaver-built dams are more than a thousand feet long, the height varying from two feet to as much as fifteen or even more. An amazingly skilled beaver colony once built a dam on the Jefferson River in Montana that spanned 2,140 feet! Beaver-engineered dams may be built straight, curved or even in an S-shape. Some contain thousands of tons of materials.

Much of the dam construction material is wood. For cutting down trees, beaver engineers are well equipped. They have a built-in ax: four yellow-orange, chisel-like teeth. With these self-sharpening teeth, they can cut down a tree four inches in diameter in about fifteen minutes. Cutting trees down is not a rare occurrence. A study of beaver colonies in Michigan revealed that each beaver cut down an average of six trees every ten days! With their two nimble front paws, beavers manipulate the sticks, mud or other building material needed for a dam.

Nature's engineers usually begin a dam by cutting willow or other branches, carrying them to the bottom of the stream, fixing them in place with their butt ends upstream. They add mud, gravel and stones; then another layer of brush and saplings; then more mud and stones, and so on until the dam is as high as needed. The result is a strong watertight dam that will stand for many years. A spillway is also usually provided.

The pond is usually made in an area where food trees are plentiful, trees such as the poplar and aspen, since the bark of these trees is their favorite food; but they dine on most hardwood trees. The ponds made by the beaver dams may be only an acre or so in extent, or they may be several hundreds or even several thousands of acres.

### ***Home and Canal Building***

Why do beaver engineers work so diligently to build a complex dam? The purpose centers around the beaver's need to store up food for the winter and to build a suitable house or lodge. Though some beavers, especially those in Europe, live in burrows dug in the banks of streams, most beavers in North America have as their final aim a dam, pond and house.

Beavers build houses that vary from eight or ten feet to nearly forty feet in diameter. The lodge may have two levels or floors, the dining room being just a few inches above water level. The second level is floored with peeled sticks or shredded wood, especially cedar, since it is unlikely to harbor pesty insects. In the center of the roof of the house there is a ventilation shaft. Near the house itself beavers store up underwater supplies of food. Also underwater are the entrances to the beaver's house. The beaver needs a dam, then, so it can have a pond with a constant level of water to keep the underwater tunnel entrances to its house permanently concealed from unwelcome visitors, such as hungry foxes. Moreover, with a pond at a constant level, freezing weather never prevents these furry engineers from having free access to their sunken stores of wood and bark.

When it comes time to plaster their house, beavers continue to display skill. They do the plastering only after the first hard frost, the whole building except the

ventilation opening being coated with mud, which freezes hard and forms a solid protection against attacks by enemies. If the beavers plastered their house before the frost, they would risk the plaster's being washed away by rain; but the beaver engineers avoid that mistake.

Another display of beaver engineering wisdom lies in the fact that sometimes they build a smaller dam in addition to the main dam. They build it downstream in order to back up some water against the original dam and thus decrease the pressure of water on it from the other side.

Amazing engineers? So much so that they have repaired a dam that human engineers could not repair. "A few years ago," reports the *New York Times Magazine* of January 24, 1960, "an atomic energy storage dam on Canada's Chalk River developed a leak that engineers couldn't find. Stumped, they brought in a pair of beavers and loosed them on the dam. In less than a week the beavers had found the leak—and repaired it."

But building and repairing dams is just one of the many ways beavers display engineering skill. Some naturalists view their construction of canals as an even greater feat. Yes, it is true that beavers, usually in western North America, sometimes build canals on which to float their food supplies, sections of branches and tree trunks, to their pond. The canals may be from three to five feet in width, three feet deep and may be as long as 750 feet! Beaver-engineered canals may have two or even three water levels and little dams that serve as locks. Yes, not without reason *Hammond's Nature Atlas of America* calls the beaver "An Engineering Genius."

### **Thinking Done for Them**

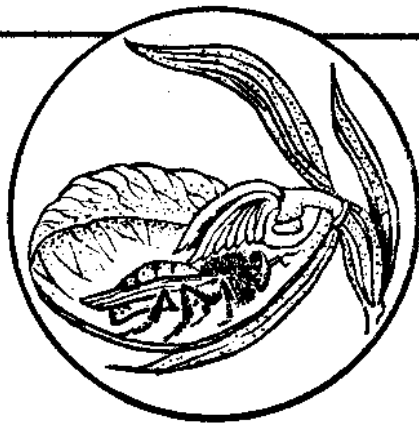
How do nature's engineers do it? How does the prairie dog build an underground home with several flood-control devices?

How do beavers know the basic laws of hydraulic engineering? The answer is that nature's engineers have had their thinking done for them. They have built-in patterns of behavior, usually called instinct or instinctive wisdom. Animals can learn something from experience, of course, but such learning is extremely limited. True instincts, on the other hand, are neither taught nor transmitted by example from one generation to the next; they are part of the genetic code determining the species. "An animal is born," says the volume *The Animal Kingdom*, "with an inherited sense that it obeys without question. It comes into the world with the ability to act and protect itself according to its immediate needs—without instruction or learning gained from experience."

Just as the spider's ability to make an intricate web is inborn in the spider, so that baby spiders make small webs correct in almost every detail, so likewise is the beaver's ability to build a dam. This is shown by the fact that a beaver raised from infancy by the French naturalist Cuvier was able to perform its wood-cutting, hauling and construction work as efficiently as members of its kind that grew up in the wild.

Since engineering wisdom is inborn in nature's engineers, how did they get it? How did the prairie dog become a flood-control engineer? How do nature's underground engineers dig with amazing rapidity complicated burrows? How did the beaver become "an engineering genius"? Was it "blind chance" or an unreasoning force? No, but those amazing animal engineers point to the Great Engineer and Architect of all things who imparted to the animal creation a marvelous variety of instinctive wisdom. Little wonder, with every new engineering concept developed by man it usually turns out that nature's engineers had it first!

# Plants Are No Accident



**B**Y WRAPPING the earth in a green, colorfully decorated mantle, plant life makes man's planetary home a delightful place in which to live. In fact, its presence spells the difference between the earth's being what it is and its being a barren, lifeless chunk of matter floating in space. Without it no life could exist on earth, because, either directly or indirectly, all living creatures are dependent upon plants for life. They alone are able to synthesize food from air, water and elements from the soil. The marvelous manner in which they do this is clearly no accident.

Every green plant is an astonishing factory that does what no human factory or scientific laboratory has been able to do. It extracts carbon from carbon dioxide gas in the atmosphere, hydrogen and oxygen from the water it draws from the soil, and then combines these elements into a great variety of complex products. The energy it needs for doing this it gets from sunlight.

Without university training in chemistry and, in fact, without the ability to think and reason, a plant combines carbon, hydrogen and oxygen atoms to make complicated foods such as starch, protein, oil, fat and sugar. Through small pores called stomata, a plant takes in air from the atmosphere. Out of the carbon dioxide in the air it extracts carbon. In fact, it is

estimated that plants remove 100,000,000,000 tons of carbon from the atmosphere every year. But oxygen, needed by men and animals, is liberated from the leaves as a waste product resulting from their breaking down water into hydrogen and oxygen.

Not all the water taken up by a plant is used by it. A large amount is transpired or evaporated from its leaves. A sunflower, for example, might give off a quart of water in a single day. Necessarily, transpiration must be regulated so the plant will not lose water when it needs it. This is accomplished by an increase or a decrease in the swelling of the two crescent-shaped guard cells that surround the mouth of each pore. Thus wilting causes the pores to close, stopping the plant's loss of water. The guard cells of many plants open the pores or stomata when the air is moist but close them when the air is dry or when darkness stops photosynthesis.

Did the plants reason out for themselves that transpiration must be controlled and that it can be done by means of guard cells? Did they conceive the complex process of using sunlight, carbon dioxide and water to make sugar, starch, fats, proteins, and so forth? How did they come to master the complicated process of photosynthesis without intelligence when the greatest minds among men are unable to



duplicate the process, much less understand how it is carried on?

### **Pollination**

The manner in which flowers are fertilized shows all the evidence of clear thinking and thorough understanding of natural laws. Their structure could not have been accidental. The male organs of a flower are its pollen-bearing stamens, and the female organs are the pollen-catching stigmas along with the ovules that produce seeds. When the stamen and the stigma are in the same blossom, the flower is usually designed in such a way that it is not self-pollinating but must be pollinated by another flower. Self-pollination is commonly prevented by a condition in which the stamens and pistil of a flower mature at different times. In the case of the fireweed, the style, which bears the stigma, is curved backward during the period that the stamens are producing pollen. After a while it straightens out and extends itself beyond the stamens so that it can receive pollen from another plant. Is this not obviously the product of intelligent designing?

Some plants are pollinated by insects, and their blooms show evidence of having been designed for that very purpose. Certain flowers attract bees, others moths, and still others butterflies, flies or beetles. There are types that specialize in birds as their pollinators.

Bee flowers are generally blue or yellow or some mixture of these colors. This is the part of the color spectrum to which a bee's vision is limited. In the case of many of the flowers that use moths as pollinators, they do not open until dusk or night, when the moths come out. Also, their color tends to run mainly in the white shades so they can be seen by the moths under the poor light conditions when the moths are flying about. How did they get this sense of timing and insight on color?

Flowers that use short-tongued flies as pollinators have odors that attract them. The large-blossomed *Rafflesia* of Malaysia gives off a smell like that of putrefying flesh, and the black arum has an odor like that of human dung. Since these flies live on such things, they are attracted to the flowers, and as they crawl over them, they pollinate them.

Some of the flowers that use bees as pollinators have a special lever or trigger device that brings the anther down so that it can dust pollen on the back of the bee when it enters the flower. At this time the female organ, the stigma, is not mature. It stays in the upper part of the flower, but later it will open and curve down so that it will rub a bee's back. In this way the flower picks up pollen from a bee or, with the anthers, gives it a load of pollen for another flower. Did the flower foresee the necessity of giving pollen for other flowers as well as receiving it for itself? Did it devise this means of using insects as pollinators?

In the case of the lady's slipper, the bloom forms a sac with the opposite sides curling upward and then inward where the sides meet at the top. The bumblebee that lands on the top of the blossom falls into the sac, where it feeds on the nectar of the flower. Nectar, incidentally, is produced by flowers for the specific purpose of attracting insects or birds. Flowers that are wind-pollinated produce neither nectar nor aroma. Once a bumblebee falls into the sac of a lady's slipper, the only way it can get out is to crawl out the opening at the end of the blossom near the stem. As it does so, it must first brush against the stigma, which takes pollen from its back, and then it brushes past the anthers, which give its back a new supply of pollen for the next flower. It is evident that the lady's slipper did not devise by itself this clever way of fertilizing its seeds and passing pollen on

to other blooms. In itself it was incapable of knowing the necessity of having the stigma placed ahead of the anthers so it would not be self-pollinated by the insect. But the arrangement is there.

### **Seed Distribution**

As with plant pollination, so with the distribution of the mature seeds, thoughtful design is clearly evident. What else can explain why some plants produce seeds that have fluffy tufts attached to them so they can float in the air and be carried great distances by the wind? Others, like the ash and maple, have seeds with wings that allow the seeds to glide through the air. Still others have hooks or barbs that attach to the fur of animals or have explosive pods that shoot seeds away from the parent plant as they explode. How could nonthinking plants recognize the need for seed dispersal, much less devise these ways of accomplishing it?

Some seeds even have the ability to crawl after they drop to the ground. The seed of the cranesbill has a long tail or awn. In dry weather the awn curls up like a corkscrew, but in damp weather it uncurls. This movement with changing humidity causes the seed to move along the ground. When the seed reaches a suitable spot to plant itself, it drives itself into the ground, and protruding bristles hold it firmly in place. The same is true of the seeds from certain grasses. Did these plants reason out for themselves that changing humidity could cause a tail or awn of the right material to curl and uncurl and that this action would disperse their seeds as well as plant them in the ground?

### **Insect Eaters**

Intelligent design is very evident in such plants as the pitcher plant, the bladder-

wort, Venus flytrap and the sundew. These plants are constructed in such a fashion that they can trap insects.

The pitcher plant has vase-shaped leaves that hold rainwater. The upper half of the pitcher has an inner surface that is smooth and slippery, and below this region there is a zone of stiff hairs that point downward. Insects venturing onto the slippery surface lose their foothold and fall into the pitcher and drown in the water at the bottom. The down-pointing hairs prevent them from getting out. As the insect decays and is acted upon by digestive enzymes secreted by the plant, the plant absorbs it.

The Venus flytrap has an entirely different system of catching insects. Attached to a flat leaf it has a two-lobed blade that is hinged down its middle. Along the outer edges of the lobes is a row of needlelike spines that interlock when the lobes are closed. Three short bristles on each half act as triggers. When an insect touches these sensitive bristles the two halves of the blade spring together like a steel trap. The imprisoned insect is then digested by fluids secreted by the plant. Such insect-eating plants usually grow in marshy areas where there is insufficient nitrogen in the soil, and the bodies of the captured insects supply the plant's nitrogen needs.

There seems to be no end of examples of intelligent design in plant life. Wherever a person may look he will find nonthinking plants doing things and making use of natural laws in ways that exceed the intellectual ability of average humans and, in some cases, even of the most skilled scientists. When the knowledge man has accumulated about plants is assembled, it makes an impressive array of evidence that argues that plants are no accident. They were created by God.

# Identifying

# THE ONE WHO MADE IT ALL

**H**OW marvelous are the laws that govern the movements within the tiny atom, as well as the rotation of the stars and their planets! What wisdom is manifest in the creation of the animals, birds, plants, and the other countless wonders in the earth! How wonderfully the creatures of the sea are designed for their habitat! Is it not natural that a person should want to become acquainted with the One responsible for all these marvels of creation?

However, strange as it may seem, many persons do not believe that anyone is responsible. They believe that life sprang spontaneously from nothing and that it continues without any intelligent direction. But certainly science, which is "knowledge concerned with the physical world and its phenomena," does not indicate this conclusion. To the contrary, as Brigadier General David Sarnoff, chairman of the Board of the Radio Corporation of America, not long ago said:

"Science begets humility. Its every discovery reveals more clearly the Divine Design in nature, the remarkable harmony in all things, from the infinitesimal to the infinite, that surpasses mortal understanding. The physical processes and laws of the universe are logical, all-embracing and wholly dependable. They imply a Supreme Architect, and the beauty and symmetry of His handiwork inspire reverence."

The most noted names in science agree with this observation. Dr. Albert Einstein said that it was enough for him "to try humbly to comprehend even an infinitesimal part of the intelligence manifest in nature." The famous inventor Thomas Edison once said: "After years of watching

the processes of nature, I cannot doubt the existence of a Supreme Intelligence. The existence of such a God can, to my mind, almost be proved from chemistry." And the famous British physicist Lord Kelvin concurred: "If you think strongly enough, you will be forced by science to believe in God."

There is plan, design and order everywhere one looks in the universe, and "it is incontrovertible that where there is a plan there is intelligence," observed Nobel Prize-winning physicist Arthur H. Compton. "An orderly, unfolding universe," he said, "testifies to the truth of the most majestic statement ever uttered—'In the beginning God!'"

Nineteen centuries ago a keen student of the physical world and its phenomena wrote in similar vein: "For his invisible qualities are clearly seen from the world's creation onward, because they are perceived by the things made, even his eternal power and Godship, so that they are inexcusable."—Rom. 1:20.

Unquestionably a blind unreasoning force is not responsible for the marvels of creation, but, rather, an all-powerful intelligent God is. Increased knowledge of the physical world impresses this fact upon one. But who is this Master Craftsman? What is his name? What does he expect from us in the way of praise and worship?

No matter how much knowledge of the physical world and its phenomena scientists obtain, they can never from this source find the answers to such questions as these. But, then, there are many persons who do not want to know the answers. Why so? Because if they knew about God's purposes and what he required of man, they would feel obligated to serve Him and to live in accord with His righteous principles. So to avoid any restrictions, many refuse to examine the Creator's inspired revelation about himself in his Word, the Bible. They claim that the Bible is merely the work of men, and is subject to errors like any other book.

### ***The Bible Identifies the One***

But if one dismisses prejudices and examines the Bible with an open mind, he will find that there is as much evidence that attests to its Divine Authorship as there is evidence that shows that the heavens and earth were designed by a Supreme Intelligence. Both originate from the same Source. As the famous scientist and discoverer of the law of gravity, Sir Isaac Newton, said: "No sciences are better attested than the religion of the Bible."

A careful reader of this infallible book of the Supreme Architect will find that it does not attribute the marvels of creation to a nameless, impersonal "Mother Nature," but that it says: "*Jehovah God made earth and heaven.*" (Gen. 2:4) Open your Bible to Psalm 83:18 and read his name for yourself: "That people may know that you, whose name is *Jehovah*, you alone are the Most High over all the earth."

It is true that a study of this physical world and its phenomena reveals that a Superior Intelligence made all these marvels, but only the Bible tells us that that One's name is Jehovah. This Divine Name overshadows every other name in the Bi-

ble, occurring a grand total of 7,199 times. In prayer to Jehovah, Jesus showed the importance of that name, saying: "I have made your name manifest." Yes, Jesus made known to people that the name of the great Creator is Jehovah.—John 17:6.

Should not our desire be the same as that of Jesus and the psalmist, 'to let people know that he whose name is Jehovah is the Most High God'? Most certainly! However, some modern Bible translators leave God's name out of their translations and substitute in its place the titles "Lord" and "God." In explaining this omission, the *Revised Standard Version* says in its foreword: "It is almost if not quite certain that the Name was originally pronounced 'Yahweh' [in Hebrew]." And since, according to these translators, "the word 'Jehovah' does not accurately represent any form of the Name ever used in Hebrew," they leave God's name out of their Bible translation altogether.

But what about other proper names such as Jehoshaphat, Jehoram, or even Jesus? Why are these retained, since these names also do not accurately represent the form originally used in the Hebrew? The name "Jesus," for instance, is based on the Greek equivalent of the Hebrew "Jehoshuah." Why, it is simple; these names are retained so as to identify the person spoken about, even though the form used in various languages does not represent exactly the form used in Hebrew. Then why not, on the same basis, retain God's name so as to identify the One responsible for all the marvelous works of creation?

It is because of man's efforts to obscure the identity of the Creator of this wonderful universe. But happily, all such efforts will fail, and when God takes action to destroy those who fail to give him honor, everyone that lives will know that "Jehovah is in truth God."—Jer. 10:10.

# What God Requires of

# YOU



**M**AN is constantly amazed by the wisdom manifested in creation. Everywhere he looks—in the seas, on the land or in the air—the marvels that meet his eye bespeak a Master Designer. Such evidence causes the discerning person to feel humble, and to join in wholehearted agreement with the psalmist's sentiments: "The senseless one has said in his heart: 'There is no Jehovah.'"—Ps. 14:1.

However, Jehovah God requires more than mere acknowledgment of his creatorship and existence; he also requires our wholehearted devotion. But it is evident that we cannot give this to him without finding out what his purposes are and what he expects of man in the way of worship. Although the many marvels of the physical world give irrefutable evidence that God is, they do not tell us who he is or what our obligations are toward him. For this vital information we need to go to His written Word, the Bible.

This inspired Word of God makes it clear that, unlike the animals, man needs to listen to his Creator. "Man must live, not on bread alone," the Bible says, "but on every utterance coming forth through

Jehovah's mouth." (Matt. 4:4) The fish of the sea, the birds of the air and the beasts of the field

need only material sustenance to live and fulfill their purpose in life. But man is different. Something is missing when he

has only material things; his life is empty.

That is why it is recorded in the famous Sermon on the Mount: "Happy are those conscious of their spiritual need." (Matt. 5:3) They are happy because knowledge of Jehovah and his purposes enables them to satisfy properly the need that they have to worship. Animals were not created with this urge to worship a superior power. They are unlike man, who desires to know where he came from, why he is here and what hope there is for life in the future.

## *Listening to God*

But it is evident that the majority of people are not conscious of their spiritual need. They have no desire to learn about Jehovah or what he requires of them. This, however, does not alter the requirement that we listen to God by studying his Word, the Bible. Jehovah makes this clear when he says: "Listen intently to me . . . Incline your ear and come to me. Listen, and your soul will keep alive."—Isa. 55:2, 3.

Just because a person does not feel the need to listen to God does not mean that it is not necessary for him to do so in order to keep alive. His position is similar to that of one who has no desire for physical food. Such a person may feel all right, but if, in time, his appetite does not return and he does not eat something, death will eventually ensue. So it is with a person that is not conscious of his spiritual need.

He may have no desire to study the Bible, and, because he feels no ill effects, he may not think it is necessary to do so. But just as surely as that person who neglects physical food will die, so will one who neglects his spiritual needs.

Children well illustrate the fact that education is needed in order for humans to discern what is good for them. If it were left to their own choice, many youngsters would eat only candy and ice cream and cake. They would enjoy this diet temporarily, but in time they would suffer and die prematurely. On the other hand, children that accept proper training from wise parents develop an appetite for nourishing, body-building foods. Not only do they learn to enjoy such a diet, but they reap lasting benefits from it.

In the same way, all of us need guidance from the One whom Jesus Christ called "our Father in the heavens." (Matt. 6:9) We are like children in that, unless we have been instructed, we do not know how to direct our own steps. (Jer. 10:23) So instead of taking a know-it-all or couldn't-care-less attitude, typical of many persons today, how much better it is to accept guidance and direction humbly from the One who is so infinitely wiser than we are! He governs our marvelous solar system and cares for all the plants and animals in such a wonderful way. Can we not therefore have confidence that he will direct our steps in the best way if we go to His written Word?

Yes, what greater teacher could we have than the One who designed fish to swim and birds to fly and who perfectly placed the earth in orbit? All honest persons will have to confess, "There is none." Well, then, do you listen to this "Grand Instructor"? (Isa. 30:20) Do you regularly read the Bible? When was the last time you sat down and listened to God speak to you through His Word? Yesterday? Last week?

Was it a whole month ago? We need direction and correction from God every day, even as literal children need daily parental guidance.

And we should not let the words go in one ear and out the other. We must think while we read: How does this apply to me and to circumstances in my life? What instruction is God giving me in this passage? "Apply your hearts," the Bible counsels, "for it is no valueless word for you, but it means your life."—Deut. 32:46, 47.

### *The Source of Life*

In what way does applying our hearts to God's Word mean our life? Does not the "God that made the world and all the things in it" give to "all persons life and breath and all things"? (Acts 17:24, 25) That is true, but at present mankind enjoy these things for only a few short years. Yet Jehovah God has made provision for those who listen to his Word and live in harmony with it to live forever in a new order of righteousness.—2 Pet. 3:13.

The marvelous wonders of creation are silent on this provision that God has made for everlasting life. True, we learn from his material works that he is wise enough and powerful enough to sustain our lives forever, but it is only in his written Word that we learn that it is his purpose to do this. It is only there that we are told: "This means everlasting life, their taking in knowledge of you, the only true God, and of the one whom you sent forth, Jesus Christ."—John 17:3.

Did you notice that besides learning about "the only true God," one must also take in knowledge of Jesus Christ in order to gain everlasting life? Yes, Jesus Christ is the provision made by Jehovah God to ransom mankind from sin and death. "God sent forth his only-begotten Son into the world that we might gain life through him," the Bible explains. In fact, "there is

not another name under heaven that has been given among men by which we must get saved."—1 John 4:9; Acts 4:12.

How wonderful everlasting life will be when this earth is transformed into a global paradise! Gone will be the problems that plague old-world living, such as sickness, unemployment, insecurity and housing shortages. Gone will be all doers of wickedness, because God will root them

out in what the Bible calls "the day of judgment and of destruction of the ungodly men." (2 Pet. 3:7) How grand, then, living in a world without crime,

war and ungodliness of any kind! Mankind will then be able to enjoy forever the beauties of God's creation.—Rev. 21:3, 4; Ps. 37:9-11, 29, 34; Isa. 11:6-9; 65:21-24.

According to God's original purpose, man was not meant to die after seventy or eighty years, but was created to enjoy forever the things that God had made. God instructed the first human pair, Adam and Eve, to "be fruitful and become many," to have children, and, as they increased, to extend the boundaries of their God-given paradise until finally the entire earth would be subdued.—Gen. 1:28.

Do you know why that original purpose has not as yet been carried out? Could you explain to someone else why God has allowed wickedness and death to continue? Do you know why it was necessary for Jehovah to send his Son to the earth in order to make life in a restored paradise possible for man? God explains these things in his written Word, and it is vital that we understand them.

### **Praise Him**

Truly the material creations of God are awe-inspiring, and what loving considera-

tion it shows on his part to make provision for us to enjoy these marvels forever! The fragrant smells of springtime, or of new-mown hay in the summer, a gorgeously colored sunset, a silvery moon, majestic mountains, forests, trees, flowers—just think of all the incomparable things that God has made! He has done so much for us, and what he requires in return is so reasonable.

#### **COMING IN THE NEXT ISSUE**

- Will You Humble Yourself to Serve God?
- How Much Does the Test-Ban Treaty Mean?
- Good Sense for the Diabetic —and for Everyone Else!
- "Trick or Treat!"—Juvenile Blackmail.

When you see a masterful piece of art, is it not only natural and reasonable to praise its maker? Certainly it is. Well, that is what God requires that his ser-

vants do to him. "Praise Jah, you people!" his Word tells us. "Offer praise, O you servants of Jehovah, praise the name of Jehovah. From the rising of the sun until its setting Jehovah's name is to be praised." —Ps. 113:1, 3.

All the inanimate things that God has made praise him by reason of their beauty and perfect workmanship. Even the way fish, birds and animals are designed for their habitat and are equipped with instinct reflects the wisdom of God. But how about yourself? You are the highest of God's earthly creations, being endowed with the ability to utter intelligible words of praise to Jehovah. Do you do this? When was the last time you spoke about his wonderful works to someone else? Have you spoken to others about his name and his glorious provisions for salvation *today*?

Although you cannot help but be impressed by the marvels of creation, have you learned what you should from them? If they remind you that there is a Grand Creator, that you should listen to him by studying his Word and praise his name by talking about him, you have learned well from the marvels of creation.

# GREEK GOVERNMENT

*Bows  
to the  
Church*

## SUPPRESSES FREEDOM

**F**REEDOM of worship is still considered the sacred right of all persons, even in this space age. When this right is trampled on by the powers that be, whether political or religious, then God-fearing people become disturbed and righteously indignant, and rightly so.

The worship of God is a sacred thing, not a tool to be toyed with. In civilized countries freedom of religion and freedom of assembly are generally regarded as sacred rights worthy of deepest respect. Securing these basic human rights is the first order of business. It is the standard of civilization. It is an open witness that a country's institutions are truly and in fact free. Therefore, these rights are not only acknowledged and cherished but also safeguarded for its citizens.

Little wonder, then, that free people throughout the world were shocked to hear what took place recently in Greece, the "cradle of democracy." Londoners and others were visibly puzzled by the news item that appeared in the *London Times*, July 27, 1963. It said:

"Athens, July 25th

"Jehovah's Witnesses or members of the Watch Tower Bible and Tract Society of Greece, numbering some 20,000, have been prevented from holding a mass-rally in Athens Stadium next Tuesday. The Under-Secretary for the Interior today issued orders to police to ban all meetings of the sect. Earlier the Jehovah's Witnesses had asked for permission to organize an international congress in Athens.

"The ban follows strong protests from the Greek Orthodox Church and a message from Archbishop Chrysostomos, Primate of Greece, to the Prime Minister, Mr. Karamanlis. Several Orthodox organizations threatened to stage a march from Salonika to Athens if the Jehovah's Witnesses were allowed to meet."

This same report was published in other countries, which has caused people the world over to ask, Why the ban? What reason did Archbishop Chrysostomos, primate of Greece, have for wanting the gathering of Jehovah's witnesses canceled? What did he fear? Why did the Greek Orthodox Church resort to extreme unchristian tactics, even threatening the Government with riots if the assembly were permitted?

From all outward appearances Greece is a democratic nation. It belongs to the extolled group of "free nations." It is a member of the United Nations and doubtless subscribes to the Declaration of Human Rights, which guarantees the right of worship and the right of peaceable assembly for all people. In fact, the nation's own Constitution champions these rights in print. How, then, was it possible for a Christian assembly to be banned in Greece? Who was responsible for such a deplorable action? Does this mean that religious freedom no longer exists in Greece?

These questions are not confined to Greece, but are now on the minds of people

**A W A K E !**



everywhere, calling for an answer. Religious discrimination, like racial and labor discrimination, cannot be hid, nor is it easily forgotten. There are too many minorities concerned, for what touches one touches them all. Therefore, *Awake!* considers it a duty to inform its readers about this human-rights tragedy and the way it happened in Greece.

### ***Petition Granted***

In September, 1962, Jehovah's witnesses in Greece, through the Athens branch of the Watch Tower Bible and Tract Society, filed a petition with the Sub-Direction of General Security in Athens for a permit to gather at the Panathinaikos Stadium, for July 30, 1963. Because this gathering would also be attended by Witnesses from other lands, especially would there be a large number of delegates from the United States of America, mention of this was made in the petition and the gathering was called an "international congress."

In view of the precedent of gatherings held by Jehovah's witnesses in Greece and the orderly manner in which they were conducted, the Sub-Direction of General Security referred the petition to the Athens Police Direction as being competent to grant a permit, and it did so without expressing any objection thereto. Similarly the police authority asked the Direction of Religions at the Ministry of National Education and Religions about granting a permit. No objections were made. The Greek Ministry of National Education and Religions simply expressed the opinion that it would be well if Jehovah's witnesses assembled in an enclosed space. Since the fenced grounds of Panathinaikos Stadium, though uncovered, are considered an enclosed space, there was no more question about issuing a permit.

Because the gathering was to be attended also by Witnesses from other nations, the whole case was referred to the General

Direction of National Security. In turn this branch of authority thought well to apply to the Direction of Churches at the Greek Ministry of Foreign Affairs. Even the Legal Council of the State was consulted. These eminent Greek jurists agreed unanimously that Jehovah's witnesses did have a right to assemble and that the Greek administration had no right to refuse the permit for which they had applied.

In part their impartial opinion said:

"The freedom of assembling is a public right, by individuality, belonging to all Greeks, in principal, without any discrimination whatever. . . .

"Those belonging to minorities of certain political, philosophical, or religious doctrines do equally enjoy the right to assemble, so that the meetings called by them, legally in other respects, are not unlawful. Be it noted that, as an assembly of Greeks (a Greek assembly) is also considered the one participated in by foreigners, without being thereby changed into an assembly of foreigners (a foreign assembly), and if in such case there are legal restrictions against foreigners, the police intervention consists in simply removing the latter. But even an assembly of foreigners, such as the one convened or organized by them, or the one consisting by majority of foreigners, is not forbidden.

"We believe that the petition filed on September 20th 1962 by the Athens Branch of the Society under the style of 'Watch Tower Bible and Tract Society', with head Offices in New York, United States of America, for a permit to this Society to hold an international congress in Athens, in enclosed space, on the strength of individual invitations and for the said purpose, is lawful, the Administration having no right to refuse the permit applied for."

Thus, in pursuance of this Opinion, on March 20, 1963, the Athens Police Direction finally granted to Jehovah's witnesses the permit to assemble on July 30, 1963, in the "enclosed" space of the Panathinaikos Stadium.

### ***Preparations Under Way***

Having received the permit, Jehovah's witnesses then, through the Athens branch of the Watch Tower Society, proceeded to rent the stadium, for which rental they paid \$2,000. In addition, rooming accom-

modations were arranged at various hotels in Athens for the many Witnesses who were coming to the assembly from other countries. Along with these arrangements there was also a special accommodation service organized to care for the thousands of Witnesses who would be attending the Athens assembly from the many provinces of Greece. Locations for the majority of these had to be found in the homes of friends living in Athens and Piraeus. Since the Panathinaikos grounds are entirely open, providing no protection from the hot summer sun, plans were drawn to cover the side rows of the stadium's tiers of seats. As an additional practical provision, refreshments were arranged for.

But while Jehovah's witnesses in Greece were busy getting ready for their lawful assembly, others in the land were busily planning to undo all their hard work by subverting law and order.

### ***Ominous Signs***

About the middle of June the responsible political government of C. Karamanlis, which had been in authority for about eight years, resigned. A so-called caretaker government, under P. Pipinelis, took over. This change of rule seemed to have encouraged religious circles to press, in every way possible, for a cancellation of the assembly of Jehovah's witnesses.

First, there was started a well-organized press campaign against Jehovah's witnesses. This was noticeable in Athens and in almost all Greek towns in the early part of July. Press comments were as follows:

**"THE GRANTING OF PERMIT FOR 'JEHOVITES' CONGRESS RECONSIDERED"**  
—*Macedonia, Salonica, July 17, 1963.*

"A committee of theologians protested to the under-secretary of the Presidency. If the Congress is finally permitted, the theologians and other ecclesiastical factors, according to information, threaten to organize manifestations of protest."—*Eleftheria, Athens, July 18, 1963.*

"The Millennialists' international congress which is to be held in Athens within a few

days must be forbidden as there is danger of popular uprising for its cancellation; this is pointed out in an announcement by 14 organizations. A telegram is also sent to the Government, the Archbishop and the Holy Synod. 'The convocation of the congress is not to be tolerated in any case, because it is a challenge to the Orthodoxy'."—*Messimorini, Athens, July 20, 1963.*

Now there was some question as to whether a "permit of calling together a congress" was required in addition to the police permit. The Sub-Direction of the General Security of Athens advised the Athens branch manager of the Watch Tower Society to look into this matter, which was done immediately. Written and signed assurances to the Sub-Ministry of Press and the Athens Police Direction were made, emphasizing that this was to be merely a gathering of fellow believers and so did not come under the law requiring an additional permit.

For a moment it appeared that these signed statements would suffice, that the assembly would be allowed to be held. At least the press left this impression. In part an Athens newspaper, *Vima*, July 24, 1963, had this to say:

"The uproar created around the gatherings of Jehovah's Witnesses is being continued in a more intensive way. The religious organizations were particularly angered at the communication made by the Ministry of Government's Presidency to the effect that no permit of calling a Conference was granted to Jehovah's Witnesses, but that they are permitted to have a gathering in the enclosed space of 'Panathinaikos'..."

"Meantime, the week of the Church's mourning is considered as continuing in token of protest against the Government's decision. The movement of the religious organizations of Athens against the gathering of these heretics is followed by similar organizations of Thessalonica, and according to what is made known, a march of protest is being planned by members of these organizations from Thessalonica to Athens..."

"The presidents of 40 corporations in the capital sent telegrams to the President of the Government and the Minister of Education claiming cancellation of the permit granted and forbiddance of any form of gathering of

Jehovah's Witnesses. In case of not recalling the permit, the corporations will take steps to frustrate the gathering."

### **Religious Pressure Applied**

Now religious circles would neither accept a "congress" nor any other kind of gathering of Jehovah's witnesses! Let the Greek Constitution promise what it will; as far as they were concerned, these Constitutionally guaranteed rights did not apply to Jehovah's witnesses. These intolerant religious organizations were now demanding by resolutions and declarations, which were daily reported in the press, that the Greek government revoke the permit granted Jehovah's witnesses.

The campaign of hatred and intolerance that was launched against Jehovah's witnesses can be read in the following newspaper excerpts:

**"THE CHURCH TAKES UP FIGHT AGAINST MILLENNIALISTS . . .**

"Church-bells to ring mournfully. Marches of protest too. . . .

"Now the Archbishop [Chrysostomos] issued a strong communication, protesting the event and declaring that 'we are obliged to defend ourselves fighting for sacred and holy things. We shall take the lead of clergy and people in this sacred fight.' . . .

"A march of protest from the joint-capital to Athens is threatened by the religious organizations there. In all provinces the metropolitans will take the lead in antimillennialistic manifestations, and in case of effectuation of the Jehovahites' gathering, the church-bells of all towns and villages will be ringing mournfully."—*Athinaiki*, Athens, July 23, 1963.

**"THE CHURCH DECLARED A WEEK OF MOURNING**

"The Archbishop of Athens and the Holy Synod declared the current week a week of mourning for the Church of Greece, in token of protest against the effort to convoke in Athens an international congress of the followers of the heresy 'Jehovah's Witnesses'."—*Vima*, Athens, July 23, 1963.

"It is finally announced that tomorrow at Petraki Convent an overnight prayer will be made in token of protest against the gathering. Alongside this, the religious organizations of Athens are moving toward a bulky show of protest."—*Messimvri*, Athens, July 27, 1963.

The extent of clergy disrespect for law and order and for their government's decisions is shown in their threats. The newspaper *Vima*, Athens, July 25, 1963, reported the following:

"The demonstration of the Christian organizations would be backed by the Holy Synod which would meet extraordinarily. Typical of the Athens Archbishop's determination to insist on the fight against the gathering was his declaration that in case the gathering of Jehovah's Witnesses is effected the whole clergy of the Archbishopric would be clothed in their sacerdotal vestments and proceed to a show of protest arraying themselves in Alexandras Avenue."

Thus for about ten days, morning and evening, the newspapers of Greece were reporting with impressive headlines about the "congress" of Jehovah's witnesses. Besides the local papers, Reuters and other foreign news agencies were daily phoning to the branch office of the Watch Tower Society in Athens for stories. In this way tremendous publicity was given to the proposed assembly of Jehovah's witnesses.

### **Press Failure**

Despite this fact, it is sad to say that the press, with only a few bright exceptions, reported only one side of the issue. It did not defend the right of assembly guaranteed by the Constitution of Greece. Instead, it devoted much space to claims made by freedom-hating clergymen. The press simply did not see or did not wish to see the constitutional issue involved, that the human rights of a heterodox Christian minority in Greece were being threatened by lawless, religious pressure groups. The branch office of the Watch Tower Society put forth every possible effort to inform the newspapers on this subject by written texts and also by providing well-documented information, but, for the most part, these went unheeded. Thus a free press failed its people.

## **Government Bows**

In spite of everything that was done, the Greek government yielded to the "ultimatum" of the Greek Orthodox Church. It canceled the permit that had been granted earlier. The Government's decision was published in the newspapers and announced over the radio, but only upon request was a written note of the ban sent to the Athens branch office of the Watch Tower Society. The text of the ban reads as follows:

KINGDOM OF GREECE  
ATHENS CITY POLICE  
SUB-DIRECTION OF GENERAL SECURITY  
INFORMATION SERVICE

### **NOTIFICATION**

We let you know that in consequence of a decision taken by the Government it is not permitted to call together the International Congress of members of the Watch Tower Bible and Tract Society, which was announced for the 30th of this month in Athens, and also any other and in any form similar gathering for the same object in enclosed or open space.

Dated in Athens, this 25th day of July 1963.

THE CHIEF COMMISSIONER

(Signed) John Karahalios  
(Seal Impression)  
Police Director I

In this way religious pressure forced the Greek government to bow, to deny its own people constitutionally guaranteed, cherished, human rights. The right to assemble for the purpose of worship was denied a Christian minority in this "cradle of democracy." What a blow to the glory of Greece!

## **Witnesses Reaction**

How would Jehovah's witnesses react in the face of such religious intolerance and discrimination? Would they defy the law, render evil for evil, and thus take upon themselves the unchristian image of their opposers? No, none of that. Jehovah's witnesses are Bible Christians. They will obey the orders of the government as a superior authority, "not only on account of that wrath," as the Christian apostle Paul says,

'but also on account of their conscience. (Rom. 13:1-5) Thus their conduct and position stands out in bold contrast to the threatening, unruly and unscriptural methods of the Orthodox Church and its clergy in Greece.

With regard for lawful methods of petition, urgent personal telegrams of protest, in the name of the community of Jehovah's witnesses in Greece, were sent to the president of the Greek government, the Minister of Foreign Affairs, the president of the Greek Parliament, the Minister of Interior, and to many other responsible persons. But all of this was to no avail.

## **Whose Victory?**

The Greek Orthodox Church considered the banning of Jehovah's witnesses from assembling together as a great triumph for her, but was it? Some might have thought Christ impaled a triumph too. But how sadly mistaken they were! When human rights are denied a minority because of religious threats and pressure, is that something for a nation and its people to glory over? By what twist of the imagination can a miserable surrender of human rights be termed a victory? Is it not in fact a time for sackcloth and ashes and an hour of shame for what was once the pride of Greece—her freedom?

What has happened in Greece cannot be hid, nor will it be quickly forgotten. For it was shocking news to freedom-loving people from many lands who had enjoyed the privilege of assembling with Jehovah witnesses in New York, London, Stockholm, Munich and Milan to learn upon arrival in Athens that this basic human right would be denied not only them but the Greek people as well. The shock of this disappointment now reverberates around the world.

Know that the world today is extremely sensitive as to what happens to minorities and freedoms. This flagrant violation of

constitutionally guaranteed rights in Greece has not gone unnoticed. News dispatches have gone around the world. Even within the borders of Greece strong disapproval is noted. Such medieval clergy tactics are passé. The weekly journal *Tachydromos*, Athens, August 3, 1963, posed this question:

"Was the ban of Jehovah's witnesses in enclosed space a liberal and Constitutional expression? Or contrariwise was it a show of intolerance and swerving from the Constitution? It is up to the Constitutional Law specialists to speak."

What happened to Jehovah's witnesses in Greece was not only a blow against this minority, but a crushing stroke against minorities everywhere. It was an overt act against freedom, an invasion of human rights, weakening the trust of many in government and constitutional guarantees. For if religious pressure and prejudice could negate a constitutional right in democratic Greece, what guarantee do free people and minorities the world over have that these same powerful pressure groups will not cancel out rights and freedoms elsewhere when it suits their fancy?

It has long been true that the Government of Greece has denied its citizens who are Jehovah's witnesses the freedom to have Kingdom Halls in which to assemble for worship. They may meet only in small groups in private homes. Now the Government has added to this a further denial of freedom, canceling a lawful permit for a "private" religious gathering of fellow believers from various lands, and that because of the lawless demands of intolerant religious elements.

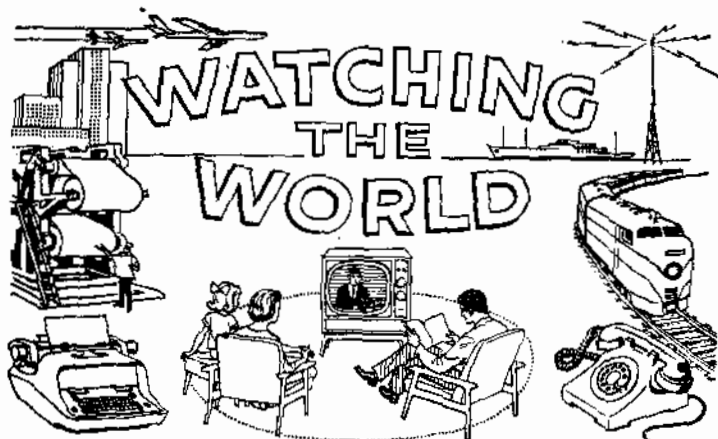
### **What You Can Do**

It is your privilege as a lover of liberty

to voice your feelings on this matter in behalf of those in Greece who are being denied the right to worship God freely. This you may do by writing letters of protest to the Greek Premier's Political Bureau, Athens, Greece; also to the Ministry of Foreign Affairs, Athens, Greece. In each case the designation given here is sufficient to reach the individual who is to receive the letter. Let them know that you deplore the discriminatory actions of the Greek government against Jehovah's witnesses in canceling their Christian gathering in Athens and in forbidding them to have Kingdom Halls in which to meet openly for worship. Appeal to them to uphold constitutional rights and to champion freedom for all their people.

Greece can yet demonstrate to the world that its constitution has not been reduced to mere scraps of paper. It cannot undo the harm that was done by its cancellation of the assembly of Jehovah's witnesses scheduled to be held in Athens July 30. But it can see that it never repeats such an act of suppression of constitutional freedom; and it can take steps right now to prove its sincerity in the matter by granting to Jehovah's witnesses the right to have religious meeting places in which to assemble openly for worship, even as the Greek Orthodox Church in that land has its edifices for worship.

Since freedom of worship has been trampled underfoot in Greece, written assurances of freedom no longer completely satisfy. The world looks for genuine evidences of these freedoms. It awaits news that in actual fact religious minorities in Greece are enjoying the freedoms guaranteed by the Constitution.



### Greek Church Urges Ban

◆ A special report to the *New York Times*, August 21, from Athens, Greece, stated that the Greek Orthodox Church had requested the government to ban the 29th Congress of the International League of Freemasons. The charge against them was proselytizing. Despite this, the Masons were able to meet briefly.

### Miners Rescued

◆ For almost two full weeks Henry Throne and David Fellin were trapped 308 feet underground by a mine cave-in, near the American city of Shepton, Pennsylvania. Rescue crews worked day and night drilling an escape shaft. On August 27 the two men were hauled up the 18-inch rescue shaft. As 28-year-old Throne was being raised to the surface, he said, through an attached microphone: "I feel like a banana." "Boy, what a ride this!" Fellin, 58, was hauled up a short time later. Louis Bova, the third man trapped below, had been separated from his two companions by eighteen feet of fallen rock. Rescue efforts continued in his behalf, but there seemed to be little hope.

### Unrest in Vietnam

◆ Unrest has continued in Vietnam, where there has been much friction between the

Catholic government and the Buddhist leaders. Ritual suicide on the part of at least six Buddhists has stirred up strong feelings, and university students have demonstrated against the government. During August, after soldiers seized about a thousand monks in Buddhist pagodas in cities throughout the country, several high government officials resigned. The government appealed for the people's support in the crisis.

### Landslide in Nepal

◆ In early August heavy monsoon rains fell sixty miles northwest of Katmandu, Nepal. Four Nepalese villages along the Trisuli River were struck by landslides. About 200 persons in the four villages are believed to have been buried.

### Wasp Kills Man

◆ A tiny wasp may not appear to be a match for man, but do not be too sure. In Le Mans, France, Marcel Schmitt, 49, had his mouth open when riding his motorcycle. A wasp flew in and stung Schmitt on the larynx. The man died.

### Chinese in India

◆ On August 3, according to a published *Reuter's* report, India's External Affairs Ministry said that about 600 persons of Chinese origin, cap-

tured during last year's thrust by the Chinese Communists into India, have asked to remain in India. About 1,400 other Chinese have been repatriated.

### Sleeping Sickness

◆ An Associated Press write-up stated that twenty-one persons, most of them children, died in Taiwan of encephalitis (sleeping sickness) between June 1 and August 23.

### A Plane Record

◆ After seven delays Joseph A. Walker finally piloted the X-15 U.S. rocket research plane to a record height of 66½ miles on August 22. A published Associated Press dispatch said that because of a faulty instrument the flight was 11,000 feet short of its mark. The plane's speed record is 4,104 miles an hour on level flight.

### 10,000 Nazis Punished

◆ The number of former Nazis tried in West German courts between May 8, 1945, and March 31, 1963, was listed as 12,846 by a Justice Ministry study. More than 10,000 Nazi war criminals have been sentenced since the end of World War II by West German and Allied courts. Of 818 death sentences, 489 were carried out. West Germans executed only three of twelve Nazi war criminals doomed by them before they abolished capital punishment in West Germany in 1949.

### U Thant's Report

◆ In a 6,000-word introduction to his annual report the Secretary-General of the United Nations U Thant said that the U.N. had weathered a "crisis of confidence" during the last year and had come out stronger. He mentioned the Cuban crisis of last October, stating that it provided the U.N. with the opportunity to help avert what appeared to be impending disaster. He held out hope that soon U.N. troops

would be withdrawn from the Congo. But, he said, the U.N. still faces a financial crisis and it is also concerned over South Africa's racial policy. One hundred and eleven member nations continue to look to the U.N. as the means to guarantee world peace.

#### Fallout High

◆ The Canadian Press reported that record heights of radioactive fallout were recorded in Canada during June, but were still within the "acceptable" limits. The United States reported twice as much strontium-90 in its milk this past May in comparison with the previous year. This condition is attributed to the fallout from atmospheric nuclear tests last year.

#### Illiteracy In U.S. Capital

◆ One-quarter of the population of Washington, D.C., is unable to read or write sufficiently well to fill out an

application for a job. The city's educational facilities are able to educate only 1,000 illiterates a year, but many times this number migrate to Washington each year.

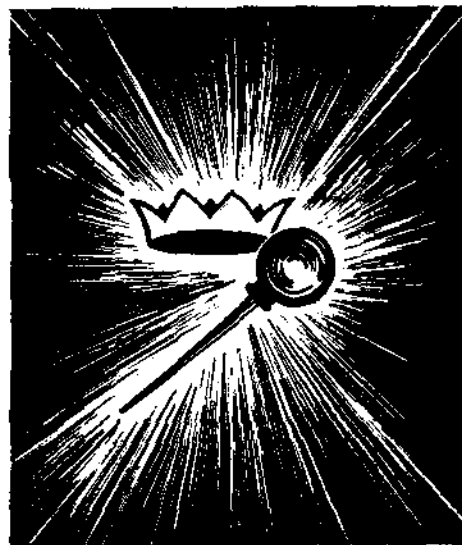
#### Anthem Case Won

◆ Two years ago three youths were expelled from the Pine-top Elementary School in the American state of Arizona because they would not stand for the national anthem; yet they were respectful and sat quietly. The youths, Daniel M. Sheldon, 12, Merle W. Wingo, 14, and Jere B. Wingo, 13, all of whom are Jehovah's witnesses, contended that it was a religious act, a form of idolatry, that violated their Christian consciences. Therefore, they could not conscientiously stand during the playing of the national anthem. On August 29 United States District Court Judge William C. Mathes, from California, ruled in the youths' favor, stating that the Arizona

school board requirement for students to stand for the national anthem was unconstitutional. Judge Mathes stated: "The key of our freedom of expression is that there is individual freedom to believe, to speak and to act."

#### Book Crooks

◆ To reduce a loss of 200,000 books a year, the Brooklyn Public Library has hired eleven detectives to catch book crooks. Their stealing and mutilation of books cost the library each year \$600,000. Instead of taking notes, some students will cut out of books the pages that have the information they want. *Life* magazine of July 12, 1963, stated: "Often the thieves simply don't look on this sort of trickery as stealing," said one library official. "They're a unique type." It is ironic that high on the list of mutilated works are essays on honesty and copies of the Bible."



## WHEN GOD IS KING over All the Earth

For which man would you vote as world ruler? Could any man qualify? What is God's view? How and when will God rule all the earth? These practical questions are answered in the booklet *When God Is King over All the Earth*.

For your copy of this illustrated 32-page booklet, send only 4d (for Australia, 5d; for South Africa, 3½c). Obtain others for relatives and friends: 7 for 1/8 (for Australia, 2/-; for South Africa, 17c).

WATCH TOWER

THE RIDGEWAY

LONDON N.W. 7

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# "BABYLON THE GREAT HAS FALLEN!"

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How can this city, forty centuries old and now an ancient ruin, affect your life? According to the Bible, a loud voice was heard from heaven, saying: "Babylon the great has fallen . . ." and, "Get out of her, my people, if you do not want to share with her in her sins, and . . . receive part of her plagues." But, what is Babylon the

great? When did it fall? How can you get out of it? Do not think that you are not affected, for the Bible shows that the nations and even kings of the earth are its victims. So ACT NOW! Send for the new 704-page hardbound book *"Babylon the Great Has Fallen!" God's Kingdom Rules!* It is only 5/6 (for Australia, 6/6; for South Africa, 55c).

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