

# *Awake!*

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SEPTEMBER 22, 1972

## THE REASON FOR THIS MAGAZINE

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 ties; it is unhampered by traditional creeds. This magazine keeps itself free, that it may speak freely to you. But it does not abuse its freedom. It maintains integrity to truth.

The viewpoint of "Awake!" is not narrow, but is international. "Awake!" has its own correspondents in scores of nations. Its articles are read in many lands, in many languages, by millions of persons.

In every issue "Awake!" presents vital topics on which you should be informed. It features penetrating articles on social conditions and offers sound counsel for meeting the problems of everyday life. Current news from every continent passes in quick review. Attention is focused on activities in the fields of government and commerce about which you should know. Straightforward discussions of religious issues alert you to matters of vital concern. Customs and people in many lands, the marvels of creation, practical sciences and points of human interest are all embraced in its coverage. "Awake!" provides wholesome, instructive reading for every member of the family.

"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 God's righteous new order in this generation.

Get acquainted with "Awake!" Keep awake by reading "Awake!"

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# Awake!

"It is already the hour for you to awake."  
—Romans 13:11

Volume LIII

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Number 18

IS NOT hate always folly, always unwise, always wrong? Not necessarily. When Abraham Lincoln saw slaves for the first time he was filled with hate for slavery. That hate eventually produced the Emancipation Proclamation, declaring that all the slaves in the Confederate States were to be freed.

The hate for religious hypocrisy that Jesus Christ, the Son of God, expressed when on earth has served to put his followers on guard ever since. (Matt. 23:13-33) Similarly, the hate that the judicial committee of a Christian congregation has for gross immorality causes them to excommunicate, disfellowship 'the wicked man from among themselves.' Well, therefore, do the Scriptures state that the fear of Jehovah, which makes one truly wise, "means the hating of bad."—1 Cor. 5:13; Prov. 8:13; 9:10.

So there are times when hate is both wise and right. This is what the oft quoted statement of the Bible says: "For everything there is an appointed time . . . a time to love and a time to hate; a time for war and a time for peace."—Eccl. 3:1, 8.

The very fact that God hates certain things and certain kinds of people shows that hate is not always folly. He does



"hate all those practicing what is hurtful," and he hates such things as "lofty eyes, a false tongue, and hands that are shedding innocent blood."—Ps. 5:5; Prov. 6:16-19.

Fittingly, God's Word counsels us to hate what God hates: "O you lovers of Jehovah, hate what is bad." The Scriptures quote with approval what King David of ancient Israel said: "Do I not hate those who are intensely hating you, O Jehovah? . . . With a complete hatred I do hate them." Does this mean that we should react violently toward those who practice bad things? No; the Bible counsels us not to get heated up at injustices and not to render evil for evil.—Ps. 97:10; 139:21, 22; Rom. 12:17-21.

But imperfect human nature, being what it is, is more prone to hate than to love and so most of the time, when men hate, it is indeed folly. Hatred is folly when it controls us instead of our controlling it. It is folly when it is based on ignorance, on lies, on prejudice, when it is irrational (when it flies into the face of reason). Hate might be likened to fire. Fire can serve ever so many good purposes when it is kept under control. But when it gets out

of hand, what havoc it can wreak in destruction of lives and property!

Today the world is filled with uncontrolled bonfires of hate. Conditions may be bad, but hate makes them worse. Consider the burned-out sections of such places as Watts, California; Washington, D.C.; Newark, New Jersey; Brooklyn, New York—all the work of hate. Militants, whether white or black, preach hate and incite others to violence. Typical is the poem that Black Panthers teach children: "Kill the pig [their name for a policeman] upon the hill; if you won't the Panthers will."

True, this is hate due to racial discrimination and other injustices practiced against blacks over long periods of time. But does the killing of white and black policemen improve matters for anyone—either for whites or for blacks? No more than does the senseless burning down of black and white stores and dwelling places. As Professor Marie Syrkin of Brandeis University warned: "No social problem will be more rapidly solved through the calculated transformation of the chief sufferers into beings who wantonly rob and kill. Evil conditioning can only make evil conditions worse."

Bearing this out were some statistics published in the *New York Times*, February 14, 1972. Among other things, these showed that for 1971 the homicide rate for Central Harlem, where such militants abound, was 328 times as high as in Kew Gardens in the Borough of Queens, which is largely Jewish but by no means a segregated community. In Central Harlem not only a few policemen but ever so many black residents were murdered.

Hate, when not based on righteous principles, is also folly in that it hurts the hater himself, both mentally and physically. As one psychiatrist put it: "It is easier to hate, but healthier to love." According

to a team of specialists, 'whether a person falls ill physically or mentally seems to depend on the quantity of guilt, anxiety and hate in his personality.'

Can we learn not to hate when hate would be folly? Yes, and one way is by thought control. Discipline yourself not to dwell on the wrongs and frustrations you suffer. Displace negative thoughts with thoughts of things that are lovable and well spoken of.—Phil. 4:8.

Another help is reason. It will enable you to see how senseless it is to hate persons because of difference in skin color, nationality or religion. The hate that certain Moslems and Hindus have for each other, certain Jews and Arabs have for each other, certain Protestants and Catholics in Northern Ireland have for each other, as well as some whites and some blacks have for each other, is irrational. No one group is all good or all bad.

Faith in God will also help one to keep from hating when it is folly. How so? Because this leaves it up to God to settle matters. That is the way David of ancient Israel felt about it when urged by a close friend to kill his persecutor Saul on one occasion.—1 Sam. 26:8-11; Rom. 12:19.

And, above all, the very antithesis of hate—unselfish, principled love—will enable you to avoid the folly of hating when it is not the time to hate. Love, we are assured, 'takes no account of the injury.' More than that, 'it bears, hopes and endures all things,' and even 'covers a multitude of sins.' It works no ill to its neighbor; it does not retaliate with violence.—1 Cor. 13:4-8; 1 Pet. 4:8; Rom. 13:8-10.

Yes, there is a time to love and a time to hate. Happy is he who can discern when it is the time for each and who is able to act according to what is wise, loving and right.

**A**MONG the places of interest pointed out to sightseers visiting Jerusalem is the Chapel of the Ascension. Situated on the Mount of Olives, outside the walls to the east of the old city of Jerusalem, it houses "the stone said to bear the imprint of the feet of Christ," the "actual spot he last stood and from which he was lifted up." Truly one must be credulous or naive indeed to believe such a preposterous legend.

Going to the opposite extreme are many clergymen of Christendom. As we are told in *The Interpreter's Bible* (Vol. 10, p. 633): "What does the modern church make of the ascension of Christ? Very little, one might well confess. Published sermons on the Ascension are hard to find. Yet in the thought of the early church the Ascension occupied a position of crucial importance."

In fact, the trend today is to throw doubt on the ascension of Christ into heaven as being a specific event. Some stumble over the fact that the Bible speaks of Jesus *ascending* or going *up* into heaven. And says Hastings' *Dictionary of the Bible* (Revised Edition): "The Ascension of our Lord is not related as an event in the synoptic Gospels. . . . The only narrative of the Ascension as a separate event is found in Acts 1:6-11. . . . What is precarious [that is, questionable] about the narrative in Acts is the suggestion that the Ascension is a distinct event separable from the Resurrection, and the placing of it in the sequence of events."

#### ***A Distinct Event***

The writer of the book of Acts, that is, Luke, not only 'suggests' that the ascen-



## **DID JESUS REALLY ASCEND**

### **into Heaven?**

sion of Jesus was indeed an event separated from his resurrection but is very explicit about it. He specifically gives us the details of the event, *when, where and how* it took place.

When did it take place? Forty days after Jesus' resurrection, for Luke goes on to tell about Jesus' ascension right after making the statement: "To these [his disciples] also by many positive proofs he showed himself alive after he had suffered, being seen by them throughout forty days and telling the things about the kingdom of God."—Acts 1:3.

Where did the ascension take place? At the Mount of Olives, for right after telling of it Luke goes on to report: "Then they"—his disciples that had witnessed the ascension—"returned to Jerusalem from a mountain called the Mount of Olives, which is near Jerusalem, being a sabbath day's journey away."—Acts 1:12.

And how did it take place? We read: "After he had said these things, while they were looking on, he was lifted up and a cloud caught him up from their vision. And as they were gazing into the sky while he was on his way, also, look! two men in white garments stood alongside them, and they said: 'Men of Galilee, why do you stand looking into the sky? This Jesus who was received up from you into the sky will come thus in the same manner as you have beheld him going into the sky.'"—Acts 1:9-11.

How can such a record be termed "precious" or only a "suggestion"? The ascension as a specific event is repeatedly referred to here. Jesus is reported to have been "lifted up." His apostles looked on "while he was on his way." And the two angels said that "this Jesus who was received up from you into the sky" will come again. Could anything be more explicit than these statements?

No doubt this gradual departing of Jesus, ascending upward before their eyes, was to underscore the fact that he really was ascending into heaven and that they could not expect to see him again. In his previous appearances after his resurrection he most likely suddenly disappeared from their sight, even as we read of his doing after he had comforted the two disciples on the way to Emmaus. After making himself known to them, "he disappeared from them."—Luke 24:31.

### ***Other Testimony***

Those critical of the ascension account recorded at Acts chapter 1 question the authenticity of the parallel account at Luke 24:50, 51, saying that only Acts refers to the ascension as a separate event. But do they do so with sufficient reason or on adequate grounds? True, a few of the old manuscripts do not contain the words "and began to be borne up to heaven," but many others, such as the Alexandrine, the Vatican 1209 and the Codex Ephraemi, do contain these words. The verses in their entirety read: "But he led them out as far as Bethany [on the Mount of Olives], and he lifted up his hands and blessed them. As he was blessing them he was parted from them and began to be borne up to heaven."

The fact is, the scholars Westcott and Hort, who compiled one of the most authoritative Greek Bible texts, included the words as being in question in their text.

And as has well been observed, the difference is "more easily explained as an omission from the Western than as an addition to the Oriental text."

There has also been considerable discussion of the fact that, according to the account at Luke, chapter 24, it seems that Jesus ascended into heaven the very day he rose from the dead. Why might one draw this conclusion? Simply because the intervening events are not reported there. But at 1 Corinthians 15:4-8 further details are given. There it states that Jesus appeared time and again to his disciples after his resurrection and before his ascension into heaven.

Jesus himself over and over again stated that he would return to his Father in heaven: "I am going my way to the Father." (John 14:12, 28; 7:33; 16:5, 10, 28) The apostle Peter on the day of Pentecost called attention to the proof that Jesus had indeed ascended to heaven, saying: "This Jesus God resurrected, of which fact we are all witnesses. Therefore because he was exalted to the right hand of God and received the promised holy spirit from the Father, he has poured out this which you see and hear."—Acts 2:32, 33.

Bearing similar testimony are the writings of Christ's apostles. They tell that Jesus is at the right hand of God (Rom. 8:34; Eph. 1:20; Col. 3:1); that he was highly exalted (Phil. 2:9-11; Heb. 7:26); that he is in the heavens. (Eph. 6:9; Phil. 3:20; Heb. 4:14) In view of all this testimony, there simply can be no question that the Bible teaches that Jesus not only rose from the dead but also ascended into the heavens, where he has been residing ever since.

### ***In What Direction?***

Some object to the Bible's teaching that Jesus ascended into heaven, saying that it is not reasonable to believe that heaven

is "up" from the earth regardless of where one may happen to be. But this objection is not sound. The New York *Times*, in reporting on one of the trips made by certain astronauts, stated that they "ascended to 739 nautical miles," whereas actually they moved out that distance from the earth.

Doubtless Jesus' ascent did begin with an upward (actually outward) movement—

even as did that of the astronauts—from the place where the apostles stood. Afterward Jesus logically took whatever direction was required in order to reach his heavenly Father's presence. It is of interest that at times the Bible uses the term "depart" when speaking of angels leaving the earthly scene.—Luke 2:15; Acts 12:10.

However, it must be admitted that our knowledge of the spirit world is indeed limited. It seems well therefore to think of Jesus as ascending, not only in a directional sense, but also as to the sphere of activity and level of existence in the spirit realm, to the actual presence of God. That realm, after all, is not bound by physical or material laws, factors or limitations.

### ***In What Body?***

Does the fact that his apostles witnessed Jesus going to heaven mean that he ascended to the presence of God in a human body? That is the general consensus in Christendom, but not so. Why not? For a number of reasons. We are told that "Christ died once for all time . . . being put to death in the flesh, but being made alive in the spirit." (1 Pet. 3:18) That is why he could appear in the midst of the apostles although the doors were bolted

and why at times he "disappeared from them." (Luke 24:31; John 20:26) Furthermore, we are assured that "flesh and blood cannot inherit God's kingdom." So Jesus could not have entered heaven with a fleshly body.—1 Cor. 15:50.

Moreover, Jesus said that he was giving his "flesh in behalf of the life of the world." Since Jesus thus laid down his human body

as "a corresponding ransom for all," it follows that he could not have been resurrected in a human body with human life without making void his ransom sacrifice.—John 6:51; 1 Tim. 2:5, 6.

But someone may ask, How could that be? Are not spirits invisible to man, and do they not come and go as the wind, even as Jesus told Nicodemus? (John 3:8) Yet Jesus appeared in a human form to his disciples after his resurrection. True, but that was merely by materializing in a human body for the occasion. That is why he was not recognized by Mary nor by his apostles on the shores of Galilee. (John 20:15-17; 21:4) This was nothing unheard of, for time and again angels materialized human bodies, as when one "appeared" to Moses, another to Joshua and another to the parents of Samson, to mention but a few instances. (Josh. 5:13-15; Judg. 13:3-20; Acts 7:35) Thus Jesus reassuringly communicated with his apostles by appearing in a body that they could see, yes, and feel, as in the case of Thomas.—John 20:26-29.

### ***Why Did Jesus Ascend to Heaven?***

All the foregoing evidence and reasons are greatly strengthened when we consider why Jesus simply had to ascend into heaven. It was in the very fitness of things. Jesus willingly left heavenly glory,

came to earth as a man, suffered greatly and gave his human life as a sacrifice. (Phil. 2:5-8; Matt. 20:28; Heb. 5:8) Are we to conclude that for all this God would not reward him but leave him in the grave or merely upon the earth? The apostle Paul assures us that God is not unmindful of the sacrifices his servants make. (Heb. 6:10) So we cannot conclude otherwise than that God would suitably reward Jesus for his unselfish course.

In fact, Jesus expected to return to the glory that he had with his Father, even as can be seen from his prayer on the night of his betrayal: "Father, glorify me . . . with the glory that I had alongside you before the world was." (John 17:5) God not only answered this prayer but gave Jesus even greater glory: "For this very reason also God exalted him to a superior position and kindly gave him the name that is above every other name, so that in the name of Jesus every knee should bend . . . and every tongue should openly acknowledge that Jesus Christ is Lord to the glory of God the Father." —Phil. 2:9-11.

And there are even more compelling reasons. Jesus gave his human body and life as a sacrifice for man's sins, but to be able to apply the merits of that sacrifice as a high priest so that mankind would be able to get the benefit of it he had to be raised from the dead and ascend into heaven. And so we read: "Christ entered, not into a holy place made with hands . . . but into heaven itself, now to appear before the person of God for us." And further: "If anyone does commit a sin, we have a helper with the Father, Jesus Christ, a righteous one."—Heb. 9:24; 1 John 2:1.

More than that, for the countless millions who have died and who are in the memorial tombs to get the benefit of Christ's ransom sacrifice, it is necessary that they be raised from the dead, and this privilege God has given to his Son. It is a spirit person with 'all power in heaven and in earth' who is to perform that great resurrection miracle.—John 5:28, 29; Matt. 28:18.

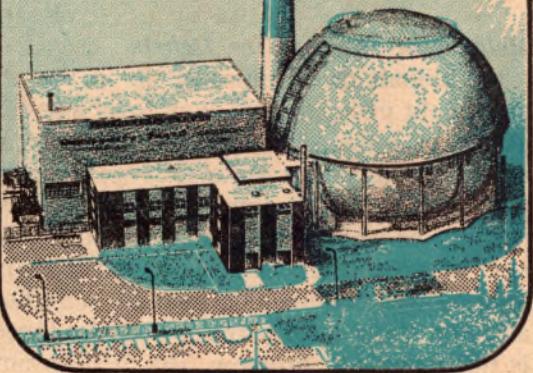
Further, Jesus continually spoke of the kingdom of God; in fact, that was the theme of all his preaching. In his model prayer he indicated that the purpose of the Kingdom was to sanctify God's name and cause God's will to be done upon earth as in heaven. To make possible the sway of that kingdom upon earth, Jesus Christ and his heavenly hosts must first make an end to this present wicked system of things, invisible and visible, which the Bible tells he will do soon.—Matt. 6:9, 10; Rev. 16:14, 16; 19:11-21.

Besides, we are told that "he must rule as king until God has put all enemies under his feet. As the last enemy, death is to be brought to nothing." That will mean that God through Christ will have wiped out every tear from human eyes, that Adamic death will be no more, neither will mourning nor outcry nor pain be anymore. Such a glorious consummation of Jehovah God's purpose regarding the earth and man can be brought about only by means of a heavenly king, the heavenly King, Jesus Christ.—1 Cor. 15:25, 26; Rev. 21:4.

Truly, there can be no doubt that God's Word makes abundantly and explicitly clear that Jesus Christ did indeed ascend into heaven.



# Is nuclear power the Answer?



THE world, and particularly the United States, faces a power crisis because available energy sources—coal, oil and natural gas—are in short supply. What is the answer?

Many experts say: Nuclear power! The *Scientific American*, in September 1971, said: "If ever an energy source can be said to have arrived in the nick of time, it is nuclear energy."

## A Growing Industry

Already more than twenty nuclear electric power plants are in operation in the United States, with over a hundred more either being built or on order. About 2 percent of the nation's electricity is produced by these facilities, and by 1980 the amount generated is predicted to increase to 10 or even 25 percent. Other countries, too, are using nuclear energy to generate electricity. In 1970 over ninety nuclear power plants were producing elec-

trical power outside the United States.

That there is tremendous power within the atom is beyond question. This was well demonstrated at Hiroshima, Japan, in 1945. There, a single relatively small nuclear device blasted the city apart, killing over 92,000 persons. People also remember that for decades afterward many in the vicinity of the explosion continued to sicken and die from radiation-caused cancer.

So people understandably wonder: Is it safe to split atoms and harness the resulting energy to produce electricity? Can the radioactivity that is produced harm man?

## Conflicting Reports

The Atomic Energy Commission and the electric power industry would have people believe that atomic energy is safe. Television commercials and other advertisements regularly give this impression. One of them shows a burning match, and says in effect: A nuclear power plant emits less pollution than this match.

However, certain news reports may cause one to wonder how true these claims are. For example, a Minnesota nuclear plant was granted an operating license by the Atomic Energy Commission that would permit a stack release of 41,400 curies a day in radioactive emissions. But the Minnesota Pollution Control Agency wanted to set the limit at 860 curies. Some scientists fear that radioactive emissions greater than this present a threat to public health. Two scientists, John W. Gofman

and Arthur R. Tamplin, wrote in the *Scientific American*:

"We are convinced, on the basis of our research, that radiation to be expected from the rapidly-burgeoning atomic energy programs is a far more serious hazard than previously thought possible. . . .

"And we believe that the public is being deceived by a clever, well-financed propaganda campaign of delusion about 'clean, cheap, safe nuclear power.'"

Could there be truth to such charges? How do nuclear power plants generate electricity? How is it that they discharge radioactive debris?

### **How Nuclear Power Is Produced**

Contrary to popular impression, electric power is not generated directly from the splitting of atoms (nuclear fission) within a nuclear reactor. Rather, fission within the reactor simply produces a source of heat. It thus replaces the furnace of a conventional plant. Heat from the reactor boils water and produces steam. The steam turns a turbine, and the turbine, in turn, drives a generator to produce electricity.

The nuclear reactor's tremendous heat is produced in long, slender, metal-clad fuel rods. These are filled with small pellets of uranium dioxide, which give each rod the potential energy of 6,000 tons of coal. In a large reactor there may be some 40,000 fuel rods that contain over a hundred tons of uranium pellets. That is more uranium than is found in over a hundred atomic bombs! The reactor's heat is produced by the splitting of atoms of the uranium isotope U-235.

In the fission process a neutron hits a U-235 atom and usually splits it into two smaller atoms. The splitting releases not only heat but also two or three neutrons, which, in turn, hit and split other atoms. Thus a chain reaction of nuclear fission occurs. In a large reactor about 10,000,-

000,000,000 atoms are split every second!

In order to control the rate of the fission process, long control rods that absorb flying neutrons are inserted into the reactor core. Thus the rate of fission is controlled by the positioning in the core of these rods. By sliding them all the way in, all neutrons are absorbed and fission ceases.

### **Release of Radioactive Debris**

As billions of uranium atoms in the reactor split every second they form smaller atoms of other elements that are radioactive. In a year's time a large reactor produces as much long-persisting radioactivity as would be emitted in the explosion of a thousand Hiroshima bombs! As long as this tremendous amount of radioactivity stays within the fuel rods, there is no immediate problem. But it does not all stay there.

Gaseous atoms leak out through imperfections in the metal casings of the fuel rods. Accumulation of this radioactivity poses a threat to those who have to do maintenance work in the plant. Radioactivity is emitted into the air through the plant's stack. Radioactivity also gets into the water used in the reactor, and is thus released into a river or lake.

It is argued, however, that the radioactive debris released in the air and water is insufficient to harm man. But even if no radiation falls directly on humans in the immediate vicinity, still there is a grave danger to those living many miles away. For radioactivity can become concentrated in food supplies. It may, for example, settle on grass, be eaten by cows and become concentrated in their milk. Children who drink the milk may then receive dangerous doses of radioactivity.

Many scientists are concerned, especially since hundreds of nuclear plants may soon

be expelling radioactive debris. Dr. Ernest J. Sternglass, a professor of radiation physics at the University of Pittsburgh Medical School, believes that already nuclear power plants are responsible for infant deaths. He offers data that show, he says, an "excess" of infant deaths in areas near nuclear reactors.

### **What About Accidents?**

Besides these *controlled* radioactive emissions, many are worried about the possibility of accidents. In the event of an earthquake, for example, some fear that a nuclear plant could be broken open and tremendous amounts of radioactive debris scattered to the winds! Or what about a saboteur planting a bomb? Even the thought of the possibility is chilling!

But accidents are also possible due to human error or equipment malfunction. The most probable form of disaster, according to nuclear engineers, is a reactor's sudden loss of coolant water. This could occur, for example, if someone closed a wrong valve or if a pipe ruptured. Due to the increase of heat the fuel would melt, and the buildup of pressure might result in radioactivity being spewed far and wide.

In 1966 such a malfunction actually occurred. A baffle plate dislodged, blocking the flow of coolant in a nuclear reactor near Detroit, Michigan. This caused an overheating of the fuel elements and a melting down of some of the fuel. For a while no one involved knew whether the whole Detroit area would have to be evacuated. Writers have called it "an event as close to Armageddon as this country has ever known."

Already large amounts of radioactive debris have been released due to accidents at nuclear facilities. One accident occurred at Windscale, England. So much radioactivity was spewed out that the government seized all growing food in a 400-mile

area around the plant. Due to releases from that facility, radioactivity in the nearby Irish Sea is so high that embryo fishes display deformed backbones! More recently, something went wrong at a Northern States Power Company plant and 10,000 gallons of radioactive water were dumped into the Mississippi River, causing Minneapolis to close its water-intake gates.

But there is perhaps an even greater potential danger.

### **Disposal of Radioactive Wastes**

The radioactive wastes that accumulate in a nuclear reactor must periodically be removed, for they will cause a reactor to lose power. So about every two years a large reactor must be shut down and the wastes removed. That means handling as much long-lived radioactive poison as would be produced by 2,000 Hiroshima-type bombs—a tremendous potential danger!

There have been a number of proposals for handling such wastes, including putting them on rockets and shooting them into the sun. However, this would be not only costly, but a tremendous risk as well. The wastes are far too dangerous to dump into the oceans. So there is now talk of concentrating them into solid form, and burying them deep in salt formations. Presently the Atomic Energy Commission is storing more than 80 million gallons of liquid wastes in metal underground tanks at various installations.

As more and more nuclear reactors begin to operate, the volume of deadly wastes will become stupendous. The prospect is frightening! Even Edward E. David, Jr., science adviser to President Nixon, acknowledged: "One has a queasy feeling about something that has to stay underground and be pretty well sealed off for 25,000 years before it's harmless."

### **Thermal Pollution**

There is also a quite different aspect of the waste problem—thermal or heat pollution. To cool its apparatus a nuclear power plant sucks tremendous amounts of cool water out of a nearby river or lake, and then pours the water back warm. Conventional power plants also do this, but nuclear plants release much more heat. Atomic Energy Commissioner Wilfred E. Johnson observed: "By 1990 more than half of all the river run-off in the United States would be required for cooling." With what result?

By thus raising a river or lake's temperature, the oxygen content of the water is reduced. Not only can this kill fish, but often it fosters the growth of algae, which, in the course of decaying, consumes even more oxygen. Soon the water begins to smell and taste bad. It is feared that with the increase of nuclear power plants the nation's rivers and lakes will be ruined by thermal pollution.

### **A Risk to Health and Safety**

It is obvious that nuclear power is not as safe as industry-promoted advertisements might lead persons to believe. In fact, the late Supreme Court Justice Hugo Black and his fellow Justice William Douglas called this means of power generation "the most awesome, the most deadly, the most dangerous process that man has ever conceived."

Also, the well-known atomic scientist Edward Teller, rather than viewing nuclear power plants as friendly neighbors, observed: "A gentle seeping nuclear reactor can put its radioactive poison under a stable inversion layer and concentrate it into a few hundred square miles in a truly deadly fashion. This is why nuclear reactors do not belong on the earth."

And yet many scientists believe that the

poisons can be largely controlled, and so they feel that nuclear power plants are worth the risks. Fossil-fuel power generation, they point out, also has its risks to health and safety. For example, nuclear physicist Ralph E. Lapp noted the "decades of the coal era," and deplored the "societal blindness that clawed 36 billion tons of coal from the earth, killing more than 100,000 miners, befouling the countryside and polluting our cities with lung-torturing fumes."

It is true that millions have suffered respiratory ailments, and no doubt have had their lives shortened as a result of generating electricity with pollution-producing fossil fuels. On the other hand, nuclear power plants normally emit no visible or feelable pollutants. In fact, in small doses radiation is not observed to produce any ill effects. Yet years later those exposed to sufficient doses may develop deadly cancer. The hope is that the daily emissions from nuclear plants will not result in a future cancer plague, and that accidents will not cause more immediate calamities.

Thus while nuclear power is hailed by some as the answer to the power shortage, there are others who have serious reservations as to whether its use is worth the risks. But are there other alternatives? When fossil fuels run out, is it a matter of nuclear power or no power?

There are still rivers to dam to provide thus hydroelectric facilities. But in the United States, some believe, this power source has been exploited about as far as feasible. Also, the potential of geothermal energy—underground steam—is considered quite limited. But what about energy received from the sun? The possibility of utilizing solar energy to supply man's power needs will be considered in a coming issue of this magazine.

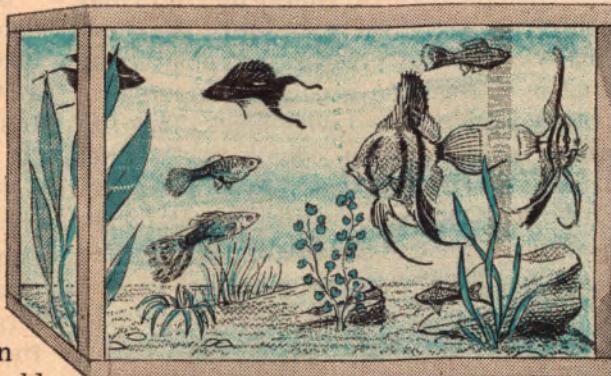
# What's in an Aquarium?

WHAT'S in an aquarium? A hobby? Education? Entertainment? Income? A fish tank can be what you want it to be, and you can have in it what you want it to have. Many families have enjoyed making a home aquarium a family hobby. It can provide hours of entertainment, watching and caring for these scaly friends.

Young and old often find fascination in having a fish tank. One eleven-year-old boy who calls it a "fun hobby" says: "I like to watch something alive. I like to watch the fish play games, such as tag." And a man, a writer and editor, says: "The four goldfish that are housed in a big glass bowl, close to my big chair, are a joy. I get a bigger lift from watching their graceful movements than I do from looking at my so-called art treasures which adorn the shelves and walls of my apartment."

Others find not only joy but also relaxation and education in having an aquarium. The book *Tropical Fish* expresses it this way: "Just watching the graceful movements, the uninhibited play, the sheer joy of living of healthy fish, is itself a relaxing nerve tonic. . . . Educationally, the aquarium provides a living experience in nature . . . In creating a healthy environment for fish, we learn a great deal about all nature. We see what proper oxygen (and, conversely, polluted breathing conditions) does to our health."

Your fish can actually become pets. They will become accustomed to your



presence and your hand in the aquarium as you clean or rearrange it. They seem to know the difference between your hand and the fishnet. One minnow would jump out of the water to snatch a freshly swatted fly held over the bowl.

## Selecting an Aquarium and Fish

Should you desire an aquarium, which of the many types of aquariums are you going to select? A small, round, all-glass fishbowl as an ornamental piece, easy to maintain? Perhaps a rectangular tank with plate glass sides and metal frame corners? In this regard many persons prefer one that is long, high and narrow in order to serve as a kind of showpiece, somewhat like a picture. Others prefer one that is low and wide, for breeding purposes.

Although there are over 30,000 known species of fish, tropical fish are favorites. There are, of course, freshwater and saltwater tropical fish. Most people fill their aquarium with fresh water, selecting a variety of fish that thrive in it and that get along with one another.

When purchasing fish from a pet store, care must be taken to select *healthy* fish. Adding diseased fish to your aquarium can result in loss of those already in the tank.

Of course, fish for your aquarium may possibly be obtained from a nearby stream. For example, Central American rivers may contain a beautiful swordtail. The male has a swordlike protrusion from its tail that is either aqua green, sky blue or canary yellow outlined with black. This fish seems able to swim equally well either backward or forward. Have you ever stopped at water pools or small creeks near your home to see what different kinds of finny fellows you can find?

### **Caring for an Aquarium**

If one chooses to have an aquarium, time must also be spent in properly caring for it. Contrary to the views of many, however, caring for an aquarium does not entail dismantling and scrubbing it each week or even each month.

By weekly siphoning out a small portion of the water from the bottom where feces collect, and by adding clean water, or by using a mechanical filter to keep the water clean, some hobbyists have let years pass by before having to dismantle their aquarium completely. In addition to keeping your tank clean, you must also provide what your fish need to remain healthy.

### **Oxygen and Light**

For your fish to remain healthy they will need proper oxygen. They absorb dissolved oxygen from the water as it passes through their gills. The amount of oxygen in an aquarium is determined by the temperature of the water (cool water holds more oxygen than hot water), and also by the amount of water surface area. Water replenishes its oxygen supply when in contact with the atmosphere. Some per-

sons use an electric pump to force air through a tube into the aquarium. While a small amount of oxygen is absorbed from the air bubbles, the principal purpose of the airstream is to circulate the water upward to the surface, where oxygen is absorbed.

Since the amount of water surface area determines the amount of oxygen, a round glass bowl that has a lesser circumference at the top should not be filled completely. It should be filled just a little over halfway, to allow for greater water surface area.

Because of oxygen needs, the amount of water surface area determines how many fish you can have in your aquarium. Of course, the size of your fish is also a determining factor. One authority feels that there should be *at least* three square inches of air surface for each fish the size of a full-grown guppy (one and a half inches long). This would mean that an aquarium with a water surface of nine inches by twenty inches (180 square inches) should not house more than sixty grown guppies.

The use of some water plants in an aquarium is beneficial. Healthy plants give off oxygen and take in carbon dioxide during the daytime. In turn, fish take in oxygen and give off carbon dioxide. Thus, healthy, growing plants not only are attractive in an aquarium but are also a source of oxygen.

When sufficient oxygen is lacking, your pet fish will soon let you know by rapid breathing, or by coming to the surface, gasping for oxygen.

Sufficient light is needed to ensure healthy plants, which, in turn, contribute toward the health of your fish. When there is not enough light, your plants will die and decay, microscopic life will multiply in your tank, and this may cause disease in the fish. On the other hand, too much light often causes excess algae, green water and

high temperatures. As in the case with natural outdoor life, your aquarium should receive a total of about eight to ten hours of natural or artificial light each day.

### **Temperature and Food**

Besides proper oxygen and enough light (if there are plants) fish need the right temperature and food. An imbalance of any of these essentials will no doubt cause problems in your underwater world. As the word "tropical" itself indicates a warm temperature, most tropical fish thrive best at temperatures between 72 and 80 degrees Fahrenheit. Temperatures colder than this can weaken their resistance to disease. Water that is too warm can rob them of needed oxygen.

Most importantly, avoid a sudden change in temperature. This often shocks the fish and lowers their resistance to disease. Because of the danger of sudden change, the matter of adding new water or new fish to the tank is critical. Make sure that the new water to be added is of the same temperature. Also, when adding new fish to an aquarium, you will be doing them a favor by gradually introducing them into their new home, rather than simply pouring them into it. This is done by floating their traveling container in the tank until both waters are of equal temperature. This usually takes about fifteen minutes.

Food, of course, will have to be provided regularly and it should be varied from time to time. It can be as simple as buying dried or frozen prepared foods for fish; or you may serve them a tasty dish of mosquito larvae, worms, ants or flies, to mention but a few. You can also add from your own table a bit of grated beef heart, finely chopped raw spinach or lettuce or bits of fish. Good diet largely determines whether you will have a healthy fish with a long life and good coloring. Different fish, of course, have varied eating habits,

and that will have to be taken into consideration.

Proper feeding of your finny friends involves, not only what they are fed, but also *how* they are fed. In warmer water a fish will require more food, since it will breathe, digest, eliminate and grow faster than in cooler water. Healthy fish usually appear to be hungry and will often respond to your presence by swimming excitedly against the front glass of your tank, begging, as it were. However, you must be careful not to overfeed them.

A general rule to apply is to feed your fish only enough food at one time so that *all* of it is consumed within three to five minutes. Any food left over due to overfeeding will decay. Overfeeding results in increased bacteria life and then disease and death for the fish. Since fish feed a little throughout the day in their natural habitat, frequent small feedings are usually preferred. However, if it is convenient to feed them only once a day, it is generally best to do so in the morning.

The conditions that cause fish disease are principally the same as respects all living creatures, namely, overcrowding, chilling or fluctuating temperatures, poor diet, overeating, insufficient light and nearby dead or decaying matter. Any of these can lead to the breakdown of the fishes' natural immunity.

### **Breeding Tropical Fish**

Tropical fish are generally classified as either "live-bearers" or "egg layers." Of these two, the live-bearers are usually much simpler to breed and raise. This is because the live-bearing fry is born fully developed and is usually larger than the egg-laying fry. The new fry can swim vigorously and can eat the same food finely chopped up as is eaten by their parents.

The live-bearers are easily distinguished as to sex, since the males have a modified

anal fin with which to impregnate the female as he swims alongside her. You can easily recognize a pregnant live-bearing fish by her size and the dark area in the anal region behind the lower fin. Many human parents have found the reproduction of live-bearing fish to be a natural medium for educating their children concerning the "facts of life."

Since the live-bearing female and others are inclined to eat the little fry, you will want to supply protection for the newborn fish. The best way is to separate the mother from the other cannibalistic fish before she gives birth. You can then either provide the young with hiding places such as plant thickets or use some type of breeding trap to prevent the mother from getting at her babies.

Most tropical fish reproduce by laying eggs, and they employ a variety of methods to accomplish this. Some scatter their eggs over sand or gravel. Others fasten their eggs on plants or stones. Some egg layers will build nests, afterward guarding their young from predators. Many species of egg layers need specific breeding conditions, and sometimes special food. Thus more extensive knowledge is needed for successful breeding.

Interesting among tropical fish are the egg layers known as the bubble-nest builders. The male fish actually makes bubbles from gulps of air enveloped in a filmlike saliva to prepare a nest for the eggs. To watch this is indeed fascinating. For example, a pair of Siamese fighting fish are

first introduced to each other separated by a glass partition when it is apparent that the bulging female is loaded with eggs. The male madly tries to reach the female and goes into a fancy dance that is beautiful to behold, exhibiting his flowing, veil-like finnage in shades of pink, purple or blue. Then the male builds a mass of foam on the water surface, his bubble nest being about one and a half inches in diameter. Now the glass partition is removed.

After the chase, which is plenty fierce, the female allows the male to wrap around her, squeeze the eggs out of her and then fertilize the eggs. As the eggs float downward, the male quickly catches them in his mouth and ejects them into the air-bubble nest. After these are carefully protected in the bubbles, the male returns to continue the squeezing process until all the eggs, which may be several hundred, are apparently released by the female. The eggs hatch in about forty hours. Being extremely small in size, the young usually have to be fed microscopic life.

Whether there is only one fish in a fishbowl or a large aquarium full of fish, many families find wholesome delight in contemplating how each fish reflects the Creator's inexhaustible creative variety. It is only a teaspoon taste of what the future holds in God's new order, when it will be possible to explore more thoroughly the things "passing through the paths of the seas."—Ps. 8:8.

What's in an aquarium? For many it is relaxation, joy and fascination.

## Outlook On Work

◆ At a time when demands for more leisure are increasing and respect for good hard work is declining, it is noteworthy that the Bible commends physical and mental work to accomplish a good purpose. It says "that there is nothing better than that the man should rejoice in his works, for that is his portion." (Eccl. 3:22) A key to this is developing the right outlook, for it has been observed that 'work is not *work* if you like it.'

# **IF YOU WERE THE JUDGE, WHAT WOULD YOUR DECISION BE?**



**WE INVITE** you to put yourself in the position of a judge in this court case from Austria:

A two-year-old girl is afflicted with leukemia. The physician handling the case orders administration of a blood transfusion. For religious reasons, the parents reject that treatment. From this point on, the physician refuses to give any further medical treatment to the child. The child is discharged from the hospital.

The parents then search for some other treatment that might help their little girl, but, a short time later, she dies. The local authorities charge the parents with manslaughter. The case comes before the court. The public prosecutor, in his accusation, demands that the parents be punished. If you were the judge, what would be your decision?

Please read this article and get familiar with the case before rendering your decision.

### ***The Disease and the Child's Death***

In May 1970, Eduard and Veronika Walter of Steyr, Upper Austria, observed that their two-year-old daughter, Irene, was very pale. They immediately consulted a pediatrician. He believed that Irene's ailment was simply a case of malnutrition. Since her condition did not improve, the parents consulted the doctor again in September. Irene's blood was examined, but no blood disease was found.

A month later, toward the end of October, the child was sent to the General Public District Hospital in Steyr. Two days later, when the mother came to see the child in the hospital, she was told that Irene would have to be given a blood transfusion. Mrs. Walter explained that, as one of Jehovah's Christian witnesses, she refused any blood transfusion for her child because of the Bible command to abstain from blood of any sort.—Acts 15:28, 29; Lev. 17:14.

Then the father was asked to come to the hospital,

and he went. The parents maintained their stand respecting blood transfusions for their child. At that the doctor declared: "Then the case is closed, as far as I am concerned."

Thus, from the very beginning the hospital showed intentions of discharging the child from its care if the parents would not agree to a certain type of treatment—a blood transfusion. That same evening, Mr. and Mrs. Walter were allowed to take their child home, without receiving any instructions whatsoever as to other methods of treatment.

Repeatedly, they asked whether there were methods of helping their child other than by blood transfusion. But the doctor said there were none. The parents took Irene to a clinical hospital in Upper Austria and thence to two nonmedi-

cal practitioners in Germany and Austria. No cure was found for the child. On November 5, 1970, she died at the home of her parents in Steyr.

### ***Charges Brought Against the Parents***

Are you under the impression that the parents actually wanted their child to die, or that they deliberately contributed to her death by their rejection of a blood transfusion? Dr. Alfred Andel seems to have felt that way, for when he made out the postmortem examination paper, he filled in Point 12 of the death certificate with the words: "Refusal of blood transfusion." Point 12 bears the following heading: "In case of violent deaths (suicide, murder, manslaughter, accident) give details as to manner and cause of such violent death."

The following day Dr. Andel reported the case to the Federal Police Station in Steyr. The parents were questioned immediately by the Federal Criminal Investigation Department, and they explained their religious viewpoint on blood transfusions. Moreover, they stated that the doctors had not been able to guarantee a cure, and, knowing that transfusion of blood can also have serious, even fatal results, this reason, too, had led them to refuse a transfusion.

The police passed the report on to the public prosecutor's office, which, in turn, obtained an opinion from the Institute of Forensic Medicine of Paris Lodron University, Linz, regarding the death of Irene Walter. The final opinion of the Institute, written by Professor Norbert Woelkart and head physician Dr. Klaus Jarosch, said:

"Actually the life prognosis respecting this disease is infaust [not favorable] even with modern medication, i.e., basically a recovery was not possible, the fundamental ailment proving fatal sooner or later."

However, this same opinion went on to say that refusal to consent to blood transfusions "shortened the child's life-span not inconsiderably." The summary was that the child died from anemia due to leukemia and "prevention of proper medical treatment."

The public prosecutor's office then filed accusation against Eduard and Veronika Walter at the Circuit Court, Steyr, on February 19, 1971. It was asserted that their refusal to consent to blood transfusion for their child was a violation of section 335 of the penal law with regard to security to life. This law says:

"Any action or default of which the acting person is able to perceive even by its natural consequences, obvious to anyone, or by virtue of specially publicized regulations or by way of his rank, office, profession, trade, occupation, or generally by way of his particular circumstances, that a danger to life, health or physical security of persons might be induced or likely to be enhanced, should, if severe injury was caused to a person, be counted as a violation of the law on the part of the guilty one and be punished with imprisonment up to six months or with a fine up to S 100,000.00 [about \$4,350] and, should the death of a person result, with imprisonment up to one year."

The accusation closes with the request that the second measure of punishment of this law be meted out.

### ***Questions to Be Considered***

What do you think about the case now? Do you agree with the public prosecutor's charge, feeling that the guilt of the accused has been sufficiently established? Or did the parents conscientiously do all they could to save the child's life? What likelihood was there for the child to survive or for her life to be lengthened by a blood transfusion? Was blood transfusion the only proper treatment and the best therapy in this case?

On the other hand, did the doctors do all they could do and ought to do in order

to help the child? Let us turn to some opinions of experts.

### **What Is the Proper Therapy?**

The summary in the aforementioned final opinion reads: "Death from anemia due to aleukemic lymphadenosis and prevention of proper medical treatment." What if that which is considered "proper" treatment turned out to involve certain risks? As a fair judge you would have to take this into consideration in your opinion. Consider, then, the following:

During preliminary investigation, the parents submitted the *Monatsschrift fuer Kinderheilkunde* (Monthly Magazine for [the German Association of] Pediatrics), Vol. 118, No. 1, January 1970, to the court. This magazine published the discourses given at the 67th conference of the German Association for Pediatrics at Saarbruecken on September 24, 1969, on the subject "Newer Viewpoints on Leukemia of Children."

Page two states that weeks before hospitalization, symptoms of the disease are perceptible. Pages four to twelve deal with the variety of today's most effective chemotherapeutic methods of treatment and their success. This scientific discussion on twenty-six pages of the publication for pediatrics was submitted to the Forensic Institute of Forensic Medicine of Paris Lodron University, Linz, in order to obtain a supplementary opinion.

Thereupon, the Institute summarized the discussion in about thirty-five lines and stated that "the more recent methods of treatment of acute leukemia have led to a considerable prolongation of survival." They added: "The time of survival has been increased by modern methods of treatment to an average of 13 months." "One even expects five times the normal period of survival."

The parents' counsel for defense also obtained expert opinions: Professor H. Weicker, head of the Institute of Human Genetics at Bonn University and coeditor of a handbook for pediatrics, treated more than 200 children suffering from acute leukemia during twenty years of pediatric practice. Professor Weicker writes:

"The average life expectancy of a child with acute undifferentiated leukemia is approximately three months, if the child is not treated from the first occurrence of clear symptoms of leukemia. Irene Walter showed these symptoms in May or June (unusual paleness) and in July (enlargement of the spleen), regardless of whether they were diagnosed as such or not. The average life expectancy—without treatment—would have been September or October 1970; this could have varied, of course, individually. The life expectancy of children with leukemia has not or has only insignificantly changed since blood transfusions have been introduced. . . .

"Only by the introduction of cortisone into leukemia therapy has the life expectancy increased to six to nine months on the average. This is why the combined cortisone-cytostatica therapy is completely in the foreground in leukemia treatment. . . . Judging the course of disease in this manner and taking into account our knowledge about the chances of survival of leukemic children, the inference of a violent death due to refusal of a blood transfusion must be rejected in the case involved. . . . There is no doubt that the chances of prolonging her life were increased considerably since the combined cortisone-cytostatica therapy was introduced, however, alone by means of this therapy and not by means of blood transfusions, customary since the forties."

### **Risks of Blood Transfusions**

Another expert asked for his opinion was Dr. F. W. Guenther, head of the city hospital of Wuppertal-Barmen, Germany. He said that he 'entirely agreed' with the above-mentioned opinion of Professor Weicker and then added his own opinion:

"Being director of Wuppertal-Barmen's clinical hospital for children, which admits

four to five thousand patients annually, the disease features of leukemia during childhood are familiar to me. I have never seen a child survive that was suffering from leukemia. . . . The physicians treating Irene are to be agreed with inasmuch as a blood transfusion was recommended to the parents. In this connection, however, it should be mentioned that I have observed myself that blood transfusions can cause serious, even fatal complications in leukemic patients."

By order of the court the records of the case were sent to the head physician of the pediatric department of the Moedling Hospital, to university lecturer Dr. Ruziczka, to obtain an additional pediatric expert opinion.

In this opinion, Dr. Ruziczka said that a blood transfusion would have been appropriate in the case of Irene Walter as treatment for the anemia associated with the leukemia affliction. But he also pointed out the disadvantages and even life endangerment that a blood transfusion may bring about.

Mr. and Mrs. Walter were well aware of the risks involved in giving blood transfusions. They had read the booklet published by the Watch Tower Bible and Tract Society entitled "Blood, Medicine and the Law of God." This treatise, which gives documented evidence as to the various dangers involved in administering blood transfusions, was added to the court's records.

### ***The Trial***

On October 27, 1971, the trial was held at Steyr. A physician of the Steyr hospital, Dr. Johann Fritz, was heard as a witness. He testified that the proposed blood transfusion would have been intended to improve the general condition of the child, namely, her striking paleness, not as the actual treatment of her disease. After the examinations that were made in cooperation with the Innsbruck University clinical hospital, the child would have been

transferred to the next bigger treatment center in Vienna. (The child died, however, about two and a half weeks after the initial reception into the hospital!) The actual treatment would then have been administered in Vienna.

Then the public prosecutor read the bill of indictment, charging the parents as being guilty of or, rather, accessory to criminal offense against security of life. He demanded their punishment.

The counsel for the defense, Dr. Heimo Puschner and Dr. Hans Frieders, Vienna, argued that the parents had done more to save their child than they had been required to do by law.

If you were the judge, what would you decide? Please review the pertinent facts of the case by answering the following questions from what you have read:

What was said in section 335 of the penal law, which the parents were accused of breaking? What did the medical opinions from both sides state? What did the parents do to prolong the life of their child?

Do not let your reasoning be swayed by the thought that the child would have died anyway. According to the law, even a shortening of life is punishable. On the other hand, would the child's life definitely have been prolonged by a blood transfusion?

Have you reached a decision? If so, you can compare it now with the judge's actual decision in the Walter case:

### ***The Decision***

Mr. and Mrs. Walter were acquitted on the basis of the following:

(1) The accused had informed themselves sufficiently about the effectiveness of a blood transfusion and knew that there were other efficacious methods of treatment. Therefore, they were not able to

see, in the sense of the law, that refusal of a blood transfusion should be an offense against the security of the life of their child.

(2) Actually, the hospital would have been obliged to call upon the court of guardianship to receive further instructions as to the child's treatment. In view of the risk involved, the court of guardianship might well have renounced a forced blood transfusion and might have respected the religious convictions of the parents.

(3) The experts called upon by the court pointed to the disadvantages of a blood transfusion. Thus, the parents' refusal was not unfounded.

NOTE: About ten well-known Austrian specialists, including university lecturers, chief surgeons of pediatric clinical hospitals and directors of pediatric hospitals of universities in Austria declared, when questioned in connection with this case, that they personally were willing to respect the religious stand of Jehovah's witnesses in the blood issue and that they would administer all other conceivable medical treatment, so as to help these patients. Such physicians are to be commended, for they are endeavoring to help their fellowman, and, at the same time, they show respect for the Bible-based dictates of Christian conscience.



TODAY the Roman Catholic Hierarchy in the Netherlands appears to be in the forefront of the criticism of Pope Paul's policies. In particular was the Dutch stand opposing mandatory celibacy for priests considered an "unforgivable sin" by the Vatican. But did you know that four hundred years ago the Dutch were also in the forefront in opposing the Vatican's policies?

The Dutch had good reason for this, for regarding those days a historian states: "Nowhere was the persecution of heretics more relentless than in the Netherlands."

That this is not exaggeration is seen from the remarks of their chief persecutor, Philip II: "Wherefore introduce the Spanish Inquisition? . . . *the inquisition of the Netherlands is much more pitiless than that of Spain.*"

It was primarily this inquisition that caused the people of the Netherlands to revolt and eventually to throw off the Catholic yoke of Spain. For eighty years (except for a truce from 1609 to 1620) the Dutch fought, and in 1648 they gained their freedom with the signing of the treaties of Münster and Westphalia. With

these, "Spain yielded everything for which the Dutch contended." Incidentally, what was then the Netherlands includes what today is Belgium.

### ***Early History***

The history of the Netherlands goes back to 58 B.C.E., when Julius Caesar conquered the area of the Low Countries. A few centuries later, missionaries of Christendom reached those lands. Religious intolerance was introduced by Charles Martel ("The Hammer") in the eighth century and was continued by his grandson Charlemagne. Those rulers of Christendom gave the pagans the choice: Be baptized or die!

Some five centuries later, religious intolerance in the Low Countries again flourished, this time, not against pagans, but against those who found the teachings of the Roman Catholic Church at variance with the Bible. Among these victims of religious cruelty were the Anabaptists, the Waldenses and the Lollards. By and large, these preached "obedience to God, reliance on the Bible as a guide to Christian living, and simplicity of worship."

Some idea of the nature of their sufferings may be gained from the historical records that tell what usually happened to a Waldenses victim. After his guilt was "proved" by hot iron or boiling kettle, he was stripped and bound to a stake. He was then flayed, that is, skinned alive, from the neck to the waist and swarms of bees were let loose to fasten on his bleeding flesh to torture him until death intervened.

### ***The Rule of Charles V***

In time the French Burgundian rulers managed to replace the successors of Charlemagne in the Low Countries. Through intermarriage with these new rulers the house of Hapsburg gained control of the seventeen provinces comprising this territory. And so it was that Charles

V, a native, at the age of fifteen became ruler of the Netherlands, and at nineteen, in 1519, he also became emperor of the Holy Roman Empire of the Germanic nations.

Emperor Charles was greatly concerned, not only with making the seventeen provinces a political entity, but also with having them united religiously. We are told that "he spoke German, Spanish, Italian, French, and Flemish . . . He could be stately with Spaniards, familiar with the Flemings, witty with the Italians." Because of these qualities, he was admired by some despite his grave crimes against God and man.

Political factors had caused Charles to make the treaty of Passau with the Lutherans of Germany, but in the Netherlands, as in Spain, he felt he could do as he really wished, so he promoted the Inquisition. In a 1521 edict to the Netherlanders he stated: "As it appears that the aforesaid Martin [Luther] is not a man, but a devil under the form of a man, and clothed in the dress of a priest, the better to bring the human race to hell and damnation, therefore all his disciples and converts are to be punished with death and forfeiture of all their goods."

Further edicts became increasingly severe, reaching their nadir in his Edict of 1550. Now forbidden were all meetings in homes for religious worship, all reading of the Bible and all discussion of controversial religious matters.\* Moreover, it was decreed that all men found guilty and who repented were to be beheaded, whereas repentant women were to be buried alive. Those who refused to recant were to be burned alive. The only way a 'heretic' could escape death was by betraying others.

\* That this kind of thinking is not alien to the Papacy itself can be seen from an item in the New York *Times*, May 16, 1972: "The Italian bishops . . . stressed that laymen had no business discussing the rule of priestly celibacy."

This Edict of 1550 further warned that officials who dared to show leniency or mercy were to be deprived of their office and punished. The edict was to be a perpetual one, "published forever, once in every six months, in every city and village of the Netherlands." It is estimated that during the forty-year rule of Charles between fifty and a hundred thousand Netherlanders perished in the Inquisition.

### ***Philip II Succeeds Charles***

Because of wretched ill health Charles V turned over his rule of the Netherlands and certain of his other dominions to his son Philip II, although handing over to his brother Ferdinand his office of emperor of the Holy Roman Empire. From his place of retirement, in a monastery, Charles urged his son Philip to be "cutting out the root of heresy with rigor and rude chastisement."

Philip, however, needed no such urging, for dearest to him was his title "Most Catholic King." He estranged himself from his Dutch subjects by his religious intolerance as well as by his being able to speak only Spanish, and by surrounding himself with Spaniards. He married Catholic Mary Tudor, queen of England, better known as "Bloody Mary" because of her ruthless killing of Protestants during her brief reign. In 1556 Philip reenacted the notorious Edict of 1550, and with that began what has been called "the longest, the darkest, the bloodiest, the most important episode in the history of the religious reformation in Europe."

Philip appointed inquisitor generals who sent out a dozen inquisition officers throughout the Netherlands to ferret out and execute 'heretics.' Most notorious of these was Peter Titelmann, a sadist who joked as his victims writhed in the flames. Typical of the way he went about his business was his breaking into a certain house

and finding ten persons reading the Bible and praying. For these offenses he immediately had them burned at the stake. It is told that Titelmann once met up with a secular sheriff who asked him how it was that he needed no protective military escort whereas the sheriff did. Titelmann replied: "I seize only the innocent and virtuous, who make no resistance." The sheriff replied: "But if you arrest all the good people and I all the bad, 'tis difficult to say who in the world is to escape chastisement."

### ***The Duke of Alva***

For ten years and more Philip II urged the local authorities in the Netherlands to support his inquisition, during which time he returned to Spain. But they were becoming more and more reluctant to do his bidding. As the number of 'heretics' kept increasing, Philip resorted to more drastic measures. He sent the most skillful and experienced general in all Europe, the duke of Alva, to stamp out this heresy once and for all. This was in the year 1567.

The duke arrived in the Low Countries with a force of 24,000 persons and 6,000 horses. Included were 10,000 of the best soldiers of Europe, together with 2,000 prostitutes. He at once established a "Council of Troubles," known by the Dutch as the "Blood Council." By treachery and deceit he caught leading Netherlanders in his net, and mere wealth was sufficient to doom a man.

Early in the duke's rule the pope's Holy Office even went so far as to condemn *all three million Netherlanders to death as heretics*, and ten days later Philip II confirmed the decree. The *New Catholic Encyclopedia* states: "Alva's six-year reign was to be an unforgettable reign of terror in which the Spanish government attempted forcibly to uproot the now firmly entrenched Protestantism of the Northern

provinces. . . . Alva . . . ruthlessly attacked, subdued, and pillaged without any mercy [the cities of] Mons, Malines, Zutphen, Naarden, and Haarlem." Still he was losing out, for the firm Dutch defenders took a great toll of the duke's forces. Thus it had cost his army of 30,000 seven months of time and 12,000 lives to take the city of Haarlem. War-weary, the duke finally sneaked out of the country to elude his creditors, boasting at the same time that he had executed 18,600 heretics during his six years. This could well be, for in one 'holy week' he killed 800.

### ***William "the Silent"***

The fact that Philip II and his agents, such as the duke of Alva and his successors (Don Juan of Austria and the duke of Parma), all failed to subdue the Dutch was no doubt due largely to the role played by William of Orange, "the Silent," and his sons who followed him. In his teens William had been the favorite of Emperor Charles V and in time became stadholder or governor of three of the Netherlands' northern provinces. He earned his title "the Silent" because of his hiding his consternation upon hearing of the plot by Philip II and the king of France to wipe out Protestantism by extirpating all Protestants in their realms.

Though himself a Catholic with no sympathy for the Reformed religion, William saw that "an inquisition for the Netherlands had been resolved upon more cruel than that of Spain, since [one] would need but to look askance at an image to be cast into the flames." He tells that he felt "compassion for so many virtuous men and women thus devoted to massacre," and determined to do all he could to save them. Though commanded by Philip II to wipe out all sects "reprobated by our Holy Mother Church," he did just the opposite, "thinking it more necessary to obey God

than man." And so, instead of becoming the chief tool of the Inquisition he became the pillar around which the Dutch rallied. Affectionately he became known as "Father William."

As a consequence of many years of religious cruelty William, on August 31, 1568, made a formal declaration of war against the duke of Alva and urged his countrymen to unite and battle for freedom. Thus began the Dutch "Eighty-Year War." Though time and again the Dutch were defeated on land, more often than not they were victorious at sea, chiefly through the piratelike sailor bands known as "Beggars of the Sea." In time William converted to Protestantism and became a "soldier of the Reformation."<sup>\*</sup> The enemy, realizing his importance to the Dutch fight for freedom, set an enormous price upon his head. After a number of attempts, an assassin's bullets finally cut short his life in 1584 at the age of fifty-one. But his sons carried on—first Maurice for nearly forty years, then Frederick Henry for some twenty-two years, who, in turn, was followed by his son William II, at the beginning of whose rule the Dutch finally had their freedom guaranteed.

During this eighty-year war for freedom the Dutch repeatedly received help from England as well as from the French and the Germans.

### ***Religious Cruelty on Both Sides***

During all these eighty years many of the Dutch, while fighting for religious (as well as for political) freedom for themselves, were not willing to grant it to others. Among the most notorious was Sonoy, a governor of a northern Dutch province in 1575. His torture of some, whose only crime was that of practicing the Catho-

\* One of his chief problems lay in the fact that only the seven northern provinces were Protestant, the ten southern ones were nearly wholly Catholic. Today these latter provinces comprise Belgium.

lic religion in secret, was so revolting that one sickens to read the details. Says a historian: "Sonoy, to his eternal shame, was disposed to prove that . . . Reformers were capable of giving a lesson even to inquisitors in this diabolical science." While the Dutch, by and large, disavowed these cruelties of Sonoy (in fact, William had explicitly warned Sonoy against persecuting Catholics), efforts to bring him to account in later years failed because of the role he had played in their war for freedom.

As long as William of Orange lived, he was a mainstay of religious tolerance, and time and time again rebuked officials for their intolerance. Typical were his instructions to the magistrates of Middelburg: "We declare to you . . . that you have no right to trouble yourselves with any man's conscience, so long as nothing is done to cause private harm or public scandal. We therefore expressly ordain that you desist from molesting these Baptists [Anabaptists], from offering hindrance to their handicraft and daily trade, by which they can earn bread for their wives and children. . . . Beware, therefore, of disobedience and of resistance to the ordinance which we now establish."

But how far removed his own people were from such humanitarian principles they showed in the way they punished Balthazar Gerard, who succeeded in assassinating their beloved "Father William." Their rage knew no bounds. "Excruciating tortures" were employed.

A few among the Dutch even went about smashing images, destroying 'holy' pictures, libraries, altars in hundreds of

churches, monasteries and convents. But it must be added that, as a rule, these rioters harmed neither nuns nor priests, nor did they plunder any riches.

During the latter part of the rule of William's son Maurice, who excelled his father in military skill but not in humanitarian principles, a sect appeared known as the Remonstrants. These argued for less dogmatic doctrines, especially as to predestination and salvation, than the predominant Calvinists. Members of the minority sect were fined, imprisoned, banished and even massacred.

Yes, shocking religious cruelty was employed by both sides in the Dutch eighty-year war for freedom. Surely all of this shows that none of these could possibly have been the true followers of Christ! All such religious cruelty is diametrically opposed to the principles Christ enunciated: "All things, therefore, that you want men to do to you, you also must likewise do to them." "All those who take the sword will perish by the sword." "I am giving you a new commandment, that you love one another; just as I have loved you, that you also love one another. By this all will know that you are my disciples, if you have love among yourselves."—Matt. 7:12; 26:52; John 13:34, 35.

What about the situation today in the Netherlands? Again there is revolt against the power of the Vatican. This time it is not marked by such violence as in the past. Yet how many of those who are rejecting the power of the papacy are really adopting and putting into practice in their lives the high standards set out in God's own Word, the Bible?

### Avoid Neglect

- Too often, with men their wives are somewhat like religion—neglected but always there. How much finer, though, it is when proper attention is given to both one's wife and one's religion, as God's Word says should be done.

## Why They Changed for the Better

AT TIMES people are heard to say, 'I could never change my ways.' Many have bad habits that are so deeply entrenched that nothing seems important enough to motivate them to transform their lives. But some of these persons have changed for the better. Through a study of the Bible with Jehovah's witnesses, they have come to appreciate that a proper standing before Jehovah God makes life truly meaningful. This has prompted them to take the needed steps to gain that right standing by bringing their lives into harmony with God's righteous law.

● A drug addict in the country of Luxembourg began noticing a real change in one of his friends and fellow workers. At one time this friend drank heavily, smoked and engaged in other so-called worldly pleasures. When questioned, the friend explained that he had been assisted to change his ways through a study of the Bible with Jehovah's witnesses, and he often discussed the Scriptures with his fellow worker. What effect did this have on the drug addict? He himself relates:

"I also decided to have a Bible study. After studying for several months I wanted to get rid of my bad habits and went to a sanatorium. But they were unable to cure me there. I returned home and immediately began studying the Bible again. I became much better acquainted with the Almighty God Jehovah and soon recognized the privilege of making my requests to him in prayer. He did not fail to assist me. After one year I was neither a drunkard nor a smoker nor a drug addict.

"At the beginning my wife was not inclined to listen to Jehovah's witnesses. But after observing my changed conduct, she, too, decided to have a home Bible study. We spoke about the Scriptures to my mother-in-law. She knew of my former course of conduct and so she also agreed to have a home Bible study. All three of us were baptized on May 8, 1971. My mother-in-law spoke to my sister-in-law about the truth, calling attention to my former and present conduct. Today she is also studying the Bible and attending the meetings of Jehovah's witnesses."

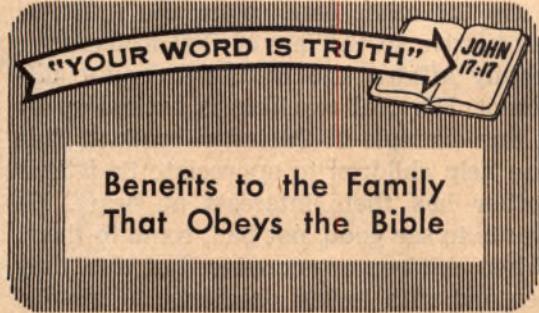
● Making a change in one's life may even mean giving up financial security. Says a woman from Portugal:

"When I was eighteen years old I went to work as a maid for a wealthy married couple. Little did I know that the wife could not bear any children. It became an obsession for this couple to have a family. I was seduced and in three years bore this man three children. My children were raised lacking nothing, just as though they were those of the man and woman for whom I worked. Recently, I learned about Jehovah's witnesses through my sister and started to study the Bible with the aid of the book *The Truth That Leads to Eternal Life*.

"After the fourth study I knew that a decision had to be made. I could not continue living immorally, if I desired to gain God's blessing and life everlasting. I decided to leave this couple and raise my three children according to a knowledge of God's purposes. Being a maid without any financial resources, or a husband, I was criticized by many. They said that my children would have their future securely established if I would continue living with the wealthy couple. The father of my children took the case to court and succeeded in gaining custody of two of the children. But how glad I am to have brought my life into harmony with Jehovah's will!"

● From New Zealand comes this report: Back in 1969 a Bible study was started with the mother of four children. Her husband manifested strong opposition. Then, because of breaking the law, he was imprisoned. Concerned for her husband, the wife sent him *The Watchtower* and *Awake!* A prison warden who was studying the Bible with Jehovah's witnesses noted the arrival of the magazines and advised the Witnesses of the local congregation about this. From then on they made regular visits on the husband, lovingly aiding him to advance in accurate knowledge of God's Word. Recently the man was released from prison. The wife anticipated the reunion with some trepidation. But when she met her husband at the airport she was amazed at the transformation in him. He had become a kind, considerate man, manifesting real Christian qualities. Since his release he has attended all the meetings of the Witnesses and has declared his intention to serve God.

Truly the application of Bible truth can change people for the better.



## Benefits to the Family That Obeys the Bible

WHAT humans do can have either a good or a bad effect on themselves and on others too. This points up man's need for dependable guidelines to help him conduct his family affairs in a way that will result in good for all concerned. What, then, should be the source of these guidelines or laws? Can man himself set the standard for governing his life?

Many people believe that modern studies in human behavior have equipped certain experts in the field of family affairs to provide the needed guidelines. People often put implicit trust in the published advice of these "experts." Is this a wise course? Can the conclusions of "experts" always be trusted? "Parents and teachers," says the publication *Youth and Parents*, "cannot forgive themselves nor can they be forgiven by their children for the consequences of following ill-advised fads of the moment. Our attitude toward the expert should be one of hesitant caution."

Yes, the theories and conclusions of marriage counselors and child psychologists are not completely dependable and unerring. Often these "experts" express opposing views. Some, for example, say that a child should not be spanked, but others are just as convinced that disobedient children should be. So where can man find a dependable guide, one that he can safely obey without "hesitant caution"?

What about the Bible? Are families benefited by obeying its commands?

Consider what the Bible commands family members to do: "[Husbands,] let each one of you individually so love his wife as he does himself; on the other hand, the wife should have deep respect for her husband. Children, be obedient to your parents in union with the Lord, for this is righteous. . . . And you, fathers, do not be irritating your children, but go on bringing them up in the discipline and mental-regulating of Jehovah."—Eph. 5: 33–6:4.

Is it not true that many marriage problems would not exist if the husband loved his wife as he did himself and if the wife respected her husband's headship? Certainly a wife who is treated with consideration would have no reason to complain about her husband's exercise of headship. She cannot help but respect a man who sticks to right principle and is willing to deny himself the pursuit of personal likes to promote the welfare and happiness of the entire family.

The wife, however, must prove herself to be a woman who merits her husband's understanding and consideration. She should not be surprised if her husband does not respond in a loving way when she shows herself to be contentious, irritable and faultfinding. As the Bible puts it: "Better is it to dwell in a wilderness land than with a contentious wife along with vexation." (Prov. 21:19) Also, a husband's interest in his wife usually diminishes if she takes little interest in his plans and activities.

The attitude of a wife toward her husband's headship can have a profound effect on the children. If she ignores God's law to be in subjection and displays an independent spirit, the children often come to the point where they do not consult their father. They do not look to him for direction, since the example set by the mother implies that the father's guidance

is undependable and not in the best interests of the family. The disagreements between husband and wife that arise through a wife's undermining the husband's position cast doubt on whether either one of them really has the welfare of the family at heart. So the children generally have no more reason to respect the mother than they do the father. All this works to the injury of the children, for they need guidance and direction to become balanced adults who will be able to handle responsibilities in a fine way.

It is therefore vital that parents, by word and example, prove that they have an unselfish interest in the family. The mother can do so by remaining submissive to her husband, whereas the father can do this by exercising his headship in a loving way, as directed by God's law.

The Bible does not encourage being permissive with children either. And more and more people are coming to appreciate that "experts" were wrong in advising parents not to spank their children. There has been repeated confirmation of the truth of Proverbs 29:15: "The rod and reproof are what give wisdom; but a boy let on the loose will be causing his mother shame."

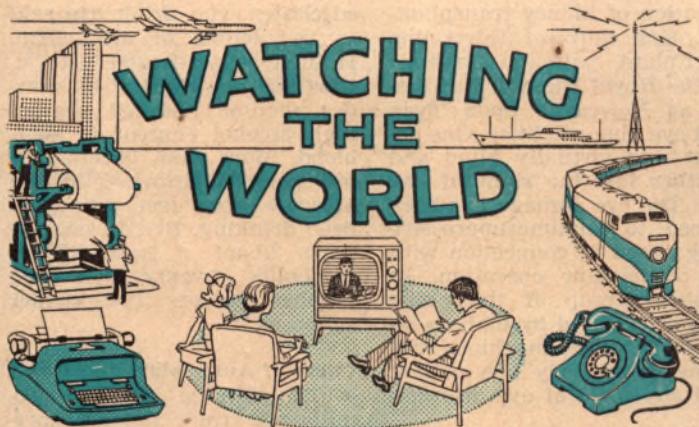
Of course, a father who irritates his children with unreasonable commands and needless severity can easily lose their confidence. If he administers discipline in anger, he can alienate his children. They may build up anger within themselves toward their father, for anger begets anger. When this happens, the children submit to discipline, not because they are convinced that it is right, but because they are forced to yield to their father's superior strength. Such discipline does not produce desired results, as it provides no real incentive for children to change their ways. Usually it leads to their becoming resentful and even rebellious.

On the other hand, when the father is submissive to the law of God in handling family affairs, the results are quite different. His oral teaching is backed up by a fine example in Christian conduct. This can help children to appreciate that their father has their interests at heart. He wants to see good, not bad, come to them. When children are convinced of this, they respond with loving obedience to his discipline. Their love for their father also deters them from doing things that would bring reproach upon him.

Thus it can be seen that when each family member submits to God's law the family's peace and harmony are preserved. But when there is a failure on the part of even one family member to obey God's law, all unavoidably suffer to some degree.

It is most unwise therefore to ignore any commandment of God. Obedience, not disobedience, to the law of God brings blessings. Such obedience promotes a good relationship with fellow humans and leads to genuine happiness and contentment. So the guidelines set forth in the Bible should really be what humans would want to follow, yes, should delight to follow. That is the way the inspired psalmist felt about it, when he said: "The law of Jehovah is perfect, bringing back the soul. The reminder of Jehovah is trustworthy, making the inexperienced one wise. The orders from Jehovah are upright, causing the heart to rejoice; the commandment of Jehovah is clean, making the eyes shine." (Ps. 19:7, 8) The Bible's wise guidelines testify that it is God's Word of truth.

So if you want to enjoy the best way of life now and in the future, endeavor to know the Bible's commands and make it your determination to obey them. Then, like the psalmist, you will find this course to be, not burdensome, but refreshing. It will protect you from injuring yourself and others, to your lasting regret.



#### "Divine Rulership" Assemblies

◆ Jehovah's witnesses' "Divine Rulership" District Assemblies took place in the United States, Canada and the British Isles from late June through August. God's rule was highlighted throughout the four-day gatherings. Thus, one newspaper writer described the Montgomery, Alabama, program as "strictly religious, with the speakers sticking to the Bible and ignoring social and political issues." One highlight of each convention was the public lecture "Divine Rulership—the Only Hope of All Mankind." The speaker noted: "The number of thoughtful persons is increasing who honestly admit that human rulership has failed. Their hopes based on man have been blasted." Does Christendom represent true Christianity, and does she have a better hope? he asked. "Absolutely not!" Rather, he pointed out, the kingdom of Jesus Christ "is the commissioned representative of the Divine Rulership of the Most High and Almighty God, Jehovah." Total attendance at this meeting for the first fifty-seven United States assemblies was 670,538.

#### Environment Conference

◆ U.N. environment representatives from 114 nations met in Stockholm, Sweden, in June. They agreed on some

200 points regarding environment improvement, a declaration of principles and a plan for a permanent secretariat to coordinate matters. Still, national pride dominated the meeting. Less developed countries will press for technological progress regardless of its effect on the environment. China insists population is not a world problem and, with France, sticks to the right to carry on atmospheric nuclear tests. The United States refuses to spend money on international environment problems. Understandably, a writer in *World* magazine commented: "The Stockholm Conference was no symposium of scientists to decide what is best for the planet. It was a political gathering of governments. . . . The conference slogan, 'Only One Earth,' might therefore more suitably have been 'Only One Hundred and Fourteen Earths.'"

#### Churches Dying

◆ Some time back, London philosophy professor H. B. Acton observed: 'In the years since 1918 Christian institutions have lost influence.' Has time improved their situation? The work *Ministry in Question* by A. Gilmore (1971) answers: "Certainly, at the heart of the church, there is an inner insecurity that is sapping its life. Of recent years we have lived

in the midst of an orgy of self-criticism and a frenzy of self-reproach that has about it the smell of death . . . it is a sign that the very foundations are crumbling, that a crisis of faith is upon us."

#### Religious 'Credibility Gap'

◆ Politicians have reputations for distorting truth. The 'Pentagon papers' affair in 1971 highlighted their 'credibility gap.' Journalists and advertisers are also guilty of deception. And the clergy? Veteran United Press International writer Louis Cassells says: "Time and again, as a reporter covering religious news, I have found church spokesmen resorting to deliberate obfuscations [confusions] and torturing the truth in an effort to keep the public in the dark about what actually happened in a particular situation."

#### Families and Drugs

◆ Much of the drug menace centers around the family. A year-long survey in the Miami, Florida, vicinity reveals family problems as a primary cause of student drug abuse. Ten percent of junior and senior high school students there habitually use drugs. Another study shows over 40 percent of the families in Brooklyn's Bedford-Stuyvesant and Fort Greene areas are touched by drugs. The *New York Times* reports that almost all of 612 persons interviewed were "first prompted to use drugs by friends or members of their families." A Pennsylvania juvenile official says most drug abuse goes unobserved by parents who think children are "just tired."

#### Illegitimate Children in Sweden

◆ Some 20 percent of children now born in Sweden arrive out of wedlock, according to the nation's statistical bureau. This is about twice the 1960 rate and up from 18 percent two years ago.

### **Teen-Age Morals**

◆ According to a study released by the Presidential Commission on Population Growth and the American Future, nearly half of the nineteen-year-old single girls in the United States have had sex relations. Beginning with fifteen-year-old girls, the study showed that 13.8 percent were no longer virgins. By the age of sixteen there were 21.2 percent who had had sex relations. By the age of seventeen the figure went up to 26.6 percent. By the age of eighteen it was 37 percent and by the age of nineteen it was 46 percent. Is there any wonder that venereal disease is epidemic among teen-agers?

### **Mexican Life Expectancy**

◆ In less than forty years life expectancy in Mexico has almost doubled. In 1925 Mexicans could, on the average, expect to live 32 years; current expectancy is over 60 years. Preventive medicine, improved hygiene and prenatal care are considered primary contributing factors.

### **Mental Patient Upheld**

◆ A New York State Supreme Court justice upheld the right of a 31-year-old woman to reject electroshock treatment. While considered "sufficiently mentally ill" to be retained, she was, nevertheless, competent to decide on the therapy prescribed. The ruling justice observed: "This form of treatment is the subject of great controversy within the psychiatric profession, both as to its efficacy, and as to its dangers. It has been known to aid significantly in the cure of the mentally ill, as well as to cause such other ailments as pulmonary edema, bone fractures and, in exceedingly rare instances, even death."

### **Kidney Transplant**

#### **Complications**

◆ It now appears that serious eye damage comes as a com-

plication of kidney transplanting. One third of thirty-nine transplant patients surveyed at the Royal Victoria Infirmary at Newcastle upon Tyne had eye abnormalities. One patient was virtually blind and another lost the sight of one eye. The eye damage has been traced to immunosuppressive drugs used in connection with the transplant operation. In another group of thirty-nine patients treated by dialysis on artificial kidney machines (not transplants) only one patient had any form of eye disorder.

### **Too Much Sleep**

◆ Excessive sleep is as unwise as too little sleep. Dr. William C. Dement of Stanford University estimates there are 100,000 hypersomniacs in the United States. They, medically speaking, sleep too much. Tests show that most people need seven and a half to eight hours sleep to perform well during the day. Any great excess leads to a listless feeling and irritability, and jeopardizes clear thinking. The Bible's proverb is true: "Do not love sleep, that you may not come to poverty."—Prov. 20:13.

### **Effects of Today's Noises**

◆ Modern homes are traps for dozens of noises. Inside noises, such as clocks, telephones, vacuum cleaners, sewing machines, radios, stereos, televisions, garbage disposals, mixers and fans, all vie with outside noises from the streets, freeways, lawn mowers and airplanes. Current research indicates that unwanted sounds cause pupils of the eyes to dilate, mucous membranes to dry and adrenals to secrete. It often prevents deep sleep, leading to irritability and emotional problems. Many noises are within an individual's control, though certain ones are not.

### **Alcoholism, a Major Problem**

◆ Almost one tenth of ninety-five million people in the Unit-

ed States who drink are said to be victims of alcoholism. Half of all traffic-accident victims and one third of all murder victims checked showed high alcohol content in their blood. More than half of the 500 persons drowned in the Moscow area last year had been drinking. Britain now reports about a half million alcoholics, twenty times the number doctors had earlier supposed.

### **Cause of Automobile Accidents**

◆ The United States' two-millionth traffic death is predicted to occur in 1974. Traffic accidents cost that country \$18.6 billion annually. The largest problem, according to F. M. Kreml, president of the Automobile Manufacturers Association, is the 'human factor.' Calling for more stringent licensing requirements, he noted: "In most jurisdictions, anyone who can walk into an office, read a written paragraph or two, answer a few simple questions, read part of an eye chart, sign his name and drive a car around the block is automatically granted a license."

### **Discourage Burglary**

◆ Do you invite burglars when you leave your home for an extended period? A few precautions may save you loss. Open some drapes and blinds part way; possibly set a timer to turn lights on and off automatically. Put away all loose equipment. Stop deliveries, including mail. You may also want a friend to take care of the lawn and check inside the house periodically while you are gone.

### **Zoo Guard**

◆ Rising vandalism problems prompted a Des Moines, Iowa, zoo director to employ a new night guard: Becky, a 180-pound lioness. Known as a "wrestling lion" that neither bites nor claws, she will, never-

theless, do her work while attached to a leash.

#### Baffling Pulsars

◆ Another pulsar has been found in the Milky Way. This celestial object emits X-ray 'pulses,' in an unusual cycle of nine days 'on' and twenty-seven days 'off.' Authorities offer several possible explanations for its peculiar behavior, but admit that the whole subject of pulsars is puzzling.

#### Lakes Polluted World Wide

◆ Lakes world wide are threatened with biological death. In West Germany, Lake Constance "has aged 10,000 years" in twenty years, according to biologist R. Zahner. Dangerous waste compounds pouring into it have caused overproduction of algae and other plants in shallow areas. Up to 20,000 motorboats, most with oil-releasing outboard motors,

appear on a single day to add thick petroleum residues. Siberia's Lake Baikal similarly suffers pollution damage. A faculty member at a Toronto, Canada, college suggests draining heavily polluted Lake Erie to use beneficially the retrieved land.

#### Corn Salad

◆ Would you like fresh salad greens even while snow is on the ground? Corn salad (or, field salad), virtually unknown in some parts of the world, is popular in Europe. It does not thrive in hot weather but will withstand frost and snow. Planted as seed in September corn salad produces from October through January.

#### Successful Limb Restoration

◆ Six persons have had severed arms successfully restored at Massachusetts General Hospital. In the latest incident a man's arm, severed in a fish-

ing accident, was restored after eleven hours. Ten years ago a twelve-year-old boy's right arm was severed below the shoulder. He uses his arm today as an auto mechanic. In another case, two years ago a man's amputated wrist was replaced. Less than a year later he used his hand rescuing a child from a burning building. Doctors at the hospital also report three unsuccessful attempts at restoration.

#### Newspapers Close

◆ Two more United States daily newspapers have suspended publication. The Boston *Herald Traveler* closed down in June, followed by the Washington (D.C.) *Daily News* in mid-July. Reportedly, the *News* had lost money for five years. New York is now the only city in the nation with more than two separately owned, general circulation, daily newspapers.



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