Tunnel Costs Great In Money And Lives

Sixteen metal fangs projecting from its three-tiered jaw, the enormous shape moved to the attack in the dimly lighted covern. With a roar it bit into the face of the cliff, leaving the imprint of its giant teeth. Then the huge thing retreated. Little ocher-colored figures darted about, as if inspecting wounds of battle.

The figures were men in waterproof clothing. The monster was Jumbo, a 75-ton tunneling its way from France to Italy arough the granite base of Mont Blanc at the rate of 26 feet a day. From the other side of the 15,781-foot mountain, digging toward France, an Italian team with a 40-ton boring platform and pneumatic drills eventually will meet the men coming the other way. Every day the 432 tunnelers attacking the mountain from its French flank and the 523 advancing from Italy move 17 yards closer to a new conquest of the Alps.

The Mont Blanc tunnel, to be completed sometime in 1964, is one of the most impressive engineering projects currently unway anywhere in the world. To build 7.25 miles of two-lane highway under Western Europe's highest mountain, the French and ans will have to remove 1,308,000 cubic yards of rock enough to lay a granite sidewalk completely around the earth. But taking is high - at least \$40 be immense. When the Mont Blanc tunnel is autostrade of Italy will be connected directly with the French autoroutes and German autobahns north of the Alps. The drive from Paris to Rome, which now must skirt the snow-blocked Alpine passes six or seven months of the year and follow the winding 1,000-mile route along the Riviera, will be shorten ed by 125 miles and about one-

fifth the usual driving time. Stimulated by the prospect of increased trade resulting from the Common Market, France and staly agreed in 1957 to construct and administer the tunnel jointly. The Swiss canton of Geneva contributed 10 per cent of the capital and named two directors both the French and Italian tunnel-building companies. Gen-eva will benefit directly because the Mont Blanc auto route will be the first to take heavy trucks from Switzerland to the nearest port at Genoa.

Tunneling under the Alps, however, costs not only money but lives. The older Swiss tunnels, the St. Gotthard and the Simplon, which handle only rail traffic, took a toll of 260, So far, the French crews have lost five men in digging almost 3 miles into Mont Blanc; the Italians have lost four in digging a little more than 2 miles.

"It's a war," says Italian engineer Silvano Ricceri. "We declared war on this mountain and we intend to keep on letting it have it until we can shake hands with those Frenchmen coming

Of the two nations attacking Mont Blanc, the Italians are fated by geology to suffer the brunt of the batt the beginning they have encountered treacherous slabs of clay like rock which crumble as the pressure of cons-old solidity is disturbed. Because the mountain originated with an upheaval from the south that pushed the harder rock mass to the north, the dangerous faults are far more numerous on the Italian side. They arisounce their presence with she ... explosions that drop massive hunks of granite to the unnel floor. These blasts often re followed by floods of icy water bursting from Mont Blanc's reservoirs. Six months ago, one such wild torrent caught up a long metal bar

and drove it like a spear through



IT'S PAINLESS - Sandra Ingrisano demonstrates new device capable of making a complace dental X-ray in only one

the chest of miner Giuseppe De Fazio, 60 feet away.

The bar was one of thousands Italians are bolting to the tunnel's ceiling, like disarrayed corset ribs, to hold unstable rock in place. Before the surface is lined with concrete, the restrained but continuing rockfall is caught in a heavy metal netting hung under the "corset." Thi inside lacing is frequently preceded by temporary timber work erected in waist-deep water and 87-degree heat. Recently, an underground river suddenly burst through the rock at the rate of run-offs along the tunnel floor

300 gallons per second, adding to floods already channeled into It is an eerie world inside the tunnel. In cold weather, a thick mouths like loose cotton. For the first 500 yards, warm tunnel air hitting sub-zero air coming is from outside condenses and cov ers everything with a mountain dew. Because of the deafening noise inside the tunnel, all tall is by hand and lamp: Up and down for Yes, crosswise for No. "The Sicilians have it over everyone," engineer Ricceri explained "They're born talking with their

The key tactic in the Italian attack on the mountain is the volata - the ten-hour unit of work required to drill, charge, fire, and then clean up after an explosion. On the Italian side, the fuochino - man of fire - is Giovanni Carnevale. It is he who drives down the plunger that explodes the charge. Just before he fires, an assistant steps out of a hut and blows a trumpet that sounds like the mating call

Despite the geological frustra tions, the Italian advance has recently picked up to a rate of 8 or 9 yards a day. Chief engineer Virginio Scavarda estimates that "we'll be drinking French wine and they'll be drinking ours in eight or nine months."

Between the tunnelers on the two sides of the mountain, there are disagreements about the equipment and tactics being used. "The French have had the good luck to run into granite and not water and crumbling rock," engineer Scavarda pointed out. Nor do the Italians think much of the \$500,000 Jumbo. "Let the French bring that machine and their boasts over here," said miner Salvatore Marocco, "and they'll be buried."

Among the French tunnelers there is respect for the Italians and understanding for their difficulties. "Let's get one thing straight," says André Gervais, the French project boss. "We're not racing the Italians. You don't treat building a tunnel like a football game." Gervais never theless wonders if the Italians 10 to 12 minutes. would do better if they had elec tric trains like his instead of diesel equipment. "If I had just one of their diesels in the tunnel," he says, "I couldn't get a

no matter what we did to ventilate the place."

-From NEWSWEEK Takes Half A Day To Wind His Clocks

If you want to know the time, and you live in the Isle of Man, then don't bother to ask a policeman. Just drop into the public house which Mr. James Tulloch keeps in Victoria Street, Doug-

For what is surely the biggest and most curious collection of clocks in the country can be found there - all carefully wound, ticking over the seconds and telling the right time. It takes Mr. Tulloch more than half a day to wind his clocks. He is not content just to collect clocks, he makes them, too. One of his creations is fashioned with a group of Tourist Trophy motor cyclists circling round and round, each one bear-

ing on his back a number which dicates the time of day or On on the ceiling of his bedroom, he has the dial of a working clock which he lights up with the flick of a switch on the

In Mr. Tulloch's prized collection is a clock nearly 100 years old which gives the day, month and year as well as telling the time. It also gives a pretty accurate weather forecast.

Then there is a clock with

fingers which move backwards. Side by side with it is another, constructed like an owl with great illuminated eyes which squint in sinister fashion at a quarter to three.

Some of his quaint clocks are

worked by springs; others are electrically operated. But perhaps the oddest of all is a time-piece nearly 400 years old which still keeps perfect time. It is a water clock - one of a type not made today - and you just give it a drink when it needs winding. Mr. Tulloch claims that he has a clock for every day of the year.



PRIME MOVER-Nick Young, 4, uses his pet terrier to turn a park merry-go-round in Chessington, England.

TABLE TALKS Harris & Jane Andrews

If breakfast always means oatmeal to you, there are delicious ways of varying it so you can enjoy it with a different flavor every morning, says a writer in the Christian Science Monitor. Have you tried using honey instead of sugar, or maple syrup, or jam, or brown sugar, or cinnamon sugar instead of plain white sugar? Chopped dried prunes or dates are good as a topping, too, as are stewed prunes or apricots.

For, of course, you're not obliged to have hot oatmeal for breakfast, although enjoyment of this popular hot cereal doesn't preclude your having oatmeal later in the day as cake or cookies Here are two recipes in the dessert category:

OATMEAL CRISPIES 4 cup sifted enriched flour 2 teaspoon soda 2 cup shortening (must be at room temperature) eup brown sugar cup granulated sugar teaspoon salt 1 egg

teaspoon vanilla 11/2 cups 3-Minute oats 4 cup chopped nut meats

Sift together flour, salt, and soda into bowl. Add shortening, sugars, egg, and vanilla. Beat until smooth, about 2 minutes. until smooth, about 2 minutes.
Fold in oats and nutmeats.
Shape dough into rolls, wrap in waxed paper, and chill thoroughly. Slice 1/4-inch thick and place on ungreased baking sheet. Bake in moderate oven (350° F.)

For an unusual and tasty dessert, prepare this special oatmeal cake for your family.

OATMEAL CAKE 1½ cups boiling water 1 cup 3-Minute oats 1 cup brown sugar 1 cup white sugar 2 cup shortening 2 beaten eggs 1½ cups sifted flour teaspoon soda

stand 20 minutes. Cream short ening with brown and white sugar. Add 2 beaten eggs. Sift together flour, soda, salt, and cinnamon. Add creamed mixture then add oatmeal mixture. Bake in 71/2 inch by 12 inch cake par

TOPPING

½ cup butter 1/2 cup brown sugar cup cream 1 cup chopped pecans l cup flaked coconut

1 teaspoon vanilla Melt ingredients together Spread on cake as it comes from oven. Place under broiler approximately 10 minutes or until coconut browns.

And here are some good sandwich ideas using several different types of cheese: Blue and Swiss: Blue crumbled between ham and Swiss cheese slices gives new treatment for an old favorite-ham and Swiss on rye. Place on mustard-but tered rye bread and garnish with

Brick: For a different grilled cheese, use thick slices of Brick topped with sauerkraut on buttered pumpernickel and grilled. Cream: Make dainty tea sandwiches by combining cream cheese with chopped salted almonds or chopped ripe olives or chopped dates or orange marmalade. Cut into fancy shapes.

For those who enjoy the fun of a fondue party, here's a recipe for a dunking fondue: SWISS DUNKING FONDUE 8 egg yolks 1/2 pound grated Swiss-type cheese

5 ounces butter

2 cup cream Salt, pepper, grated nutmeg
In a flameproof casserole chafing dish mix the egg yolks and cheese with a dash of salt, pepper, and nutmeg to taste. Place over very low heat and, stirring constantly, add the butpit by bit. When it thickens, add the cream, stir until well blended, then bring at once to the table to keep warm over a very low flame; do not allow to cook. This can be eaten with French - type bread to dunk or slices of fried toast can be dunk-

Noted Camel Driver Back Home Again

I visited a famous man of Pakistan recently. Camel driver Ba-shir Ahmad and his family enstraw shack in the tiny refugee village of Chatai pash Mosgood cross the railroad tracks on the outskirts of Karachi.

His camel pawed the ground in he "compound" made up of dozens of similar straw shacks nousing some 1,000 people.

Bashir's two little sons, wearing short tunies, played near the place where the camel was tethered on the rough dusty ground close by the shacks. His oldest son, 17, had just come from a school he attends outside the vil-

Bashir was wearing the same typical heavy Pakistan cap and buttoned-up-to-the-neck coat he had on in every picture that was made of him in the United States. His famous smile beneath the fierce mustache was still wide Apparently the publicity of his visit to Vice-President Lyndon B.

Johnson, and his subsequent tri-

veil, Bashir's small daughter Ima-

man, 5,clung to her father's knee

shrinking back when anyone

Apparently gaining confidence, Mrs. Bashir finally emerged and

Rather reluctantly Bashir in-

vited me into his home, since his

wife had never yet allowed any-

one to visit. I promised I

wouldn't snap any pictures. He

led me into the dark little en-

closure, scarcely bigger than a

large closet. The one piece of

furniture was a big bed with

ropes stretched across but no

mattress or pad of any kind,

writes Helen Waterhouse in the

Bashir's apparently prized pos-

Bashir has turned down the

Pakistan Government's offer to

build him a house in another

better section of the city, a far

more pretentious home than the

one with the pole roof and straw

"I told them I would not move

from here unless they will move

this entire village," Bashir ex-

Small girls wearing bright

veils led me to the store where

We stopped to talk to a native

barber seated outside a shop

ting cross-legged on the ground

in front of him. "Bashir was always a big thinker," the barber

told us, implying that Bashir was

always looked on as a "smart

man" by his fellow villagers even

and Algeria will include sharing of this valuable resource

clipping the hair of a man sit-

plains through an interpreter.

the Bashirs do their shopping.

Swinging over the bed was

. a Pan American

Christian Science Monitor.

World Airways bag!

sides he now owns.

looked at her.

smiled

session

The taxi man added, "We taxi States have not spoiled him at drivers get to know people very all. True, as he confided, he had well. I myself, have driven a been made President of the refuking and some of your senators gee village since his return after in my cab. But Mr. Johnson was a conference with held by all the the first big man who came here elders of that tiny shack town. and looked down at a common A half dozen village women man and made him happy. had already gathered protective-ly around Mrs. Bashir who was hiding behind a straw stack. Many Moslem women fear being

"But Bashir is still the same humble man he always was. . . . He will never change," he added. photographed. Slowly she peeked Only two types of mammals up over the top of the straw, one

lay eggs: the duckbill and the spiny anteater, the animal with the long tongue,

though he never had a day of

schooling. The idea some report.

ers raised that he might have

been coached for his famous trip

is unthinkable, they said. "He

just used his native wit and

charm," one well-to-do Indian in

Bashir confided that in the

"good six months" of a year, he

makes the equivalent of about

\$90 to \$100 a month by meeting

the nearby trains with his came

cart and taking consignments of

freight to the various shops and

hotels in Karachi, which pay him

for his services. He has had sev-

eral offers of jobs since his Unit-

ed States visit, including one as

a watchman at a hotel but so far

Abarm Shah, a taxi driver, de-

scribed best the reactions of

other camel drivers to Bashir's

trip to America. "Bashir will al-

ways be a very rich man," said

Shah, also a philosopher at heart.

"I do not mean rich in money.

however." he hastened to explain.

"His wealth will lie in the fact

everyone in the world will trust

him from now on."

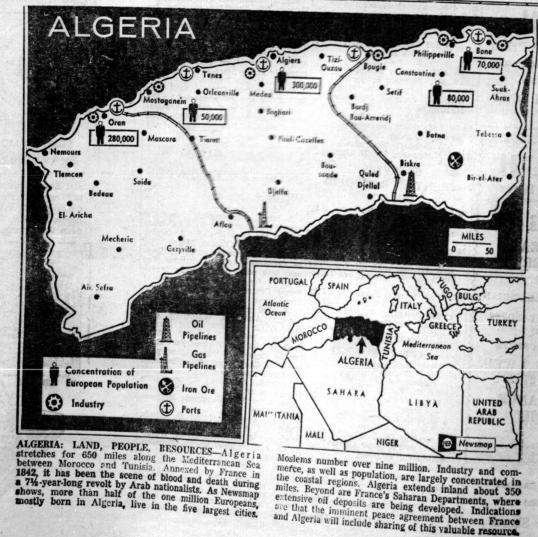
has made no decisions.

Karachi told me.



WAY OUT-A perpetual avalanche is what takes place at the South Williamsport home of Sumuel Bruno. The snow melts, slides out to 2½ feet and hangs on the roof suspended before dropping.

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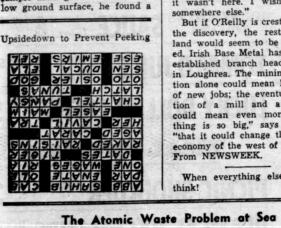


aging For Riches old Ireland

In the rail's end town of nty Galway and all but enmbed in the endless wind, rain d economic woe of western eland, a strange and wonderal sign was posted last month t the Railway Hotel, Loughrea's redoubtable civic centre. In bold, hand-painted letters, it proclaimed: "Free lecture tonight; Stocks, shares, bonds; How, where, what to buy."

That Galway men had developed a sudden interest in investments would have been note worthy enough; that they might profit handsomely from their own hard land was more like a miracle. Yet true it was, and no less a miracle than the fourteen giant triped drill rigs already rising against the wet, Irish skies. Like sentinels of a beckoning prosperity, they pointed the way to silver, lead, zinc, and copper - enough, enthusiasts said, to turn Galway into a minor Klondike.

Once a substantial source of lead, Galway's mining industry had lain dormant for nearly a hundred years (Galway still has few abandoned mine shafts). It awoke with a start about two months ago, however, when rug-ged, black-haired Eamon O'Reilly, a 26-year-old farmer, spotted a stranger plodding across the stone-fenced fields his family had tilled for 400 years. The stranger was Gerald McGinn, a flat-voiced Canadian geologist and chief engineer for the Irish Base Metal Co., a subsidiary of Toronto's Northgate Exploration Co. Working with old English geological maps, McGinn first ook water samples, then started sample drillings. Just 15 feet be-



age), you spend \$375 for gaso-line — but waste \$56.25 of it by the discovery, the rest of Irenot paying more attention to the land would seem to be overjoy. routine maintenance chores that ed. Irish Base Metal has already should be taken care of at reguestablished branch headquarters lar intervals. If you own several in Loughrea. The mining operatractors, the cost is even greater! ion alone could mean hundreds of new jobs; the eventual addi-Pinpointing the sources of this tion of a mill and a smelter could mean even more. "This waste, a survey by Kansas State University shows that most trac-tor troubles usually originate thing is so big," says Hughes,

gineering departments of leading

universities, improper tractor en

gine maintenance is costing farm-

spend for fuel.

This means if you run your

tractor 600 hours per year (that's

the approximate national aver-

ers \$.15 out of every dollar they

MONORAIL—The first car of monorail train is lowered onto

track at site of Seattle World's Fair. Two four-car trains will run between downtown and the fairgrounds.

THE FARM FRONT

According to the last figures | average tractor tested to produce released by the agricultural en- | only 75% of its maximum power

only 75% of its maximum power and require 1/2 more fuel to do it.

Obviously, facts like these

show that practicing the right

maintenance procedures on your tractor will pay big dividends in

Since most trouble occurs in

the ignition, fuel or cooling sys-tem, Champion Spark Plug Co. provides service tips on the com-

ponents causing the most trouble. Following the procedures given

will keep your operating costs

. . .

BATTERY

Corroded terminals increase

esistance, reduce starting abili-

ty and may even drain battery

or eat away the surrounding me-

GENERATOR

and charging power, but als

both time and dollars saved.

by John Russell

"that it could change the whole economy of the west of Ireland." From NEWSWEEK. within the ignition and fuel systems - with dirty air cleaners, bad carburetion, incorrect timing When everything else fails and worn spark plugs topping a list of defects which caused the

horizontal vein of accayed lime-

stone at least 4,000 feet long by 500 feet wide, assaying out in

one sample at 4.52 ounces of

silver per ton, 10.19 per cent

lead, 3.12 per cent zinc, and .62

Irish Base Metal president Pa-

trick J. Hughes quickly termed

the strike "by far the richest of

any made anywhere in the

world in recent years." While he

refused to place a dollar value

on the find pending completion

of explorations, independ-

\$250 million.

ent geologists estimated its

The news was enough to bring

an estimated 10,06) people

swarming over O'Reilly's 200

acre farm the following week

end. When such diverse person-alities as New York columnist

Walter Winchell and the BBC

commentator Richard Dimbleby

also took note of the find, North-

gate stock soared from 55 cents

counter trading before it was

a share to \$3.50 in over-the

banned temporarily from the

London and Dublin stock ex-

changes. (Northgate has since

applied for a regular listing

which would permit a resump-

O'Reilly himself will share in

the strike only to the extent of

his purchases in Northgate stock,

in which he has invested a good

chunk of his savings. Under Irish

law, the government retains mineral rights to all property,

and in this case it has already

assigned them to Irish Bas

pensate O'Reilly for his prop-

erty. Indeed, O'Reilly, his wife

and their two children may be

forced to move out altogether,

within 100 yards of their front

since the vein is believed to run

door. "I'm glad for the country's

sake," says O'Reilly, "but I wish

it wasn't here. I wish it was

But if O'Reilly is crestfallen at

somewhere else."

tion of trading.)

from such vessels?

rom such vessels?

Atomic sewage is the natural The N.S. Savannah (N.S. stands 2—Expansion of water — Li-

ervision by the Atomic Energy Commission, some radioactive By JERRY SHEEHAN years, the National Academy of waste must be dropped over-Newspaper Enterprise Assn. Sciences estimates, about 300 board because it would not be New York—The N.S. Savan- waves. Radioactivity in the ocean National Academy nuclear ex-New York—The N.S. Save was a state of the world's first nuclear-powered passenger cargo ship, years, say the academy experts.

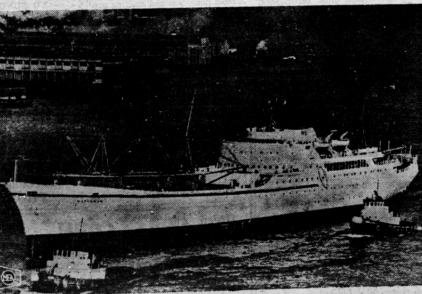
powered passenger-cargo ship, rests at berth in Yorktown, Va., awaiting the touch of the buttons which will propel her into the Atlantic. Waiting, too, is a question which grows more demanding with the launching of each atomic ship: What happens to the potentially dangerous radio-active waste discharged from such vessels?

years, say the academy experts.

Engineers at Babcock and Wilcox Co., the New York firm which built the Savannah's reactor, are sure that atomic waste from three major sources:

1—Leakage—With great quantities of water in circulation to exchange the heat to the engines, some radioactivity is bound to be given out. In the forest of pipes and instruments, some fittings may not be quite tight or they may become corroded and leak.

lear reaction. for nuclear ship) is essentially quids, as every high school stu



N.S. SAVANNAH ON TRIAL RUN: Its atomic reactor will keep it sailing for three years.

already made a trial run with her atomic reactors cooking at a fraction of their power, will be of a low level the screws.

The reactor can supply power additional radioactive elements. The extraction of their power, will on autical miles. Then the include the screws.

The reactor can supply power actions of the hard the screws.

The reactor can supply power actions of the hard the screws.

The reactor can supply power actions of the hard the screws.

The reactor can supply power actions of the hard the screws.

coal—supplies the heat which 3—Ion exchange beds — This Radioactive waste discharged converts water into steam to surplus water will be processed

some not so harmful. When spilled into the ocean, it may enter into the food cycle, coming back to man in the fish that he cats. to extract most of the harmful

be of a low-level, "safe" variety. tensely radioactive core is lifted in the bed—themselves radio-Almost superhuman precautions out under elaborate safety con-have been built into the ship to ditions and trucked away. Valprevent a major rupture of the uable radioactive elements are atomic reactor which could dissalvaged, and the "hot" husk of will be given off by atomic ships gorge millions of curies—a mea-surement of radioactivity—into forever. A fresh unit is placed harmful effects is to demand that in the ship and it steams off for atomic waste be discharged only There are today about 27 nuclear ships plying the waters,
including submarines. Within 13

entering tank. by your authorized dealer or a qualified mechanic. You can, however, check and service the

> longer periods of time. Breaker points should be inspected and adjusted at about 100 hours and replaced every 250 hours. When servicing old points, use a point file to remove potting, after which you can set the gap. Adjust the gap by loosening the breaker arm locking screw and turning the adjusting screw. (Be sure rubbing block is on highest point of cam lobe.) Consult your owner's manual for correct gap setting. Always replace the condenser when installing new points and be sure to apply a small amount of the proper grade cam lubricant to cam lobes, rubbing block and distributor pivot point. Make sure lubricant is a high-melting point type, or it will melt out and contaminate the points. Also, make sure engine is retimed af-ter points are installed or adjusted, since breaker point spacing has a direct effect on spark timing. Check inside of distribu-tor cap for cracks, dirt and mois-ture. If cap is cracked, replace it. (Small cracks in the cap may cause voltage to "track" across

In addition to causing misfiring, this condition can even left his brief case and umbrella ocause the spark plugs to fire out of order. If cap appears to be okay, wipe out with clean, dry, lintfree cloth. Remove corrosion from rotor tip and from cap inserts with steel wool or by filing

inside of cap to the wrong in-

lightly.

Remember, the distributor is the heart of the ignition system, so treat it with care and have it completely serviced every season, or more often if necessary.

How The Penguin Avoids Frozen Toes

tal. To avoid this, inspect connections frequently and if neces-It may not be the most pressing problem of the day, but have you ever wondered how penguins can endure walking around on sary, wash with a solution of baking soda and water. Remove terminals and scrape away any corrosion with knife or sandpathe ice all day long in their bare feet? Temperatures in the Ant-arctic often reach 60 degrees be-low zero, and the birds' bodies per. Clean the battery posts and reinstall terminals, applying a coat of nonmetallic grease or pe-troleum jelly. Do not overtight-en hold-downs. Don't overfill. are kept warm by thick feathers and heavy layers of fat. But the most cursory observation reveals that their toes are exposed and hardly insulated at all. Generators don't normally need a lot of attention — other than In the current issue of Ant-

making sure the fan belt is adjusted properly and adding an occasional drop of oil through the oil cups. Make sure you don't overoil, though. More genarctic, the magazine of the New Zealand Antarctic Society, zoologist Rowland Taylor reports that careful studies made by him erators are ruined by overoiling and other scientists may have discovered how penguins keep their toes warm. While they are than by any other single cause. And remember to keep all con-nections clean and tight. Those standing still, and even while they are sleeping, they reduce their pedal contact with the bit-terly cold ice by balancing on their heels. that are loose on either the gen-erator or the regulator will cause high resistance in the system and will not only reduce cranking TRUE LIBERTY

will affect high voltage output. Also, make sure the battery is fully charged, especially during cold weather. Remember, the Liberty has never come from Government. Liberty has always come from the subjects of i older the weather, the weaker The history of libery is a histhe battery, and the weaker the tory of resistance. The history battery, the more likely it is to of liberty is a history of lim AIR CLEANER tations of governmental power, not the increase of it. -Woodrow Wilson. ISSUE 12 - 1962

Air cleaner oil reservoir should be checked and cleaned frequently - daily if necessary. Service entire air cleaner at least once a season, or oftener if tractor is used under extremely dusty con-ditions. Remember, dirt in an engine has the same effect as a grinding compound on all mov-ing parts, greatly increasing wear and resulting in excessive carbon build - up, fouled plugs, varnish and gum deposits, oil dilution and sludge, and loss of power FUEL FILTER Fuel filter and sediment bowl

should be inspected every day and cleaned weekly. Watch for dirt and water in the bowl. A clogged filter can cut down the flow of fuel to the carburetor, and result in an excessively lean nixture which may be mistaken as carburetor float trouble. When replacing bowl, make sure gasket surfaces are in good shape to preven IDLE ADJUSTMENT

Idle adjustment should be made with engine temperature normal and the idle speed just high enough to keep the engine from stalling. Turn the idle mixture screw until the engine runs moothly. Then, adjust the screw until the engine runs at its nor mal idle speed (check your own-er's manual for more specific in-

FUEL STORAGE TANKS Fuel storage tanks should be drained and cleaned at least once

metal chips which flake off the inside of the drum or tank. Tilt-ing drum slightly to rear will prevent residue from collecting near the spigot. Also, make sure you cap the hose nozzle when not in use to prevent dust from

DISTRIBUTOR Major service on the distribu tor requires accurate testing equipment and should be done

For many people the church is the centre of their faith. Not so basic distributor components to maintain peak performance for with the apostle Paul. The church too often errs. The church at Jerusalem was afraid to permit Paul (then known as Saul) to join them. Finally, through Barnabas vouching for the genuineness of his conver-sion before the apostles, he was accepted. The focus of faith for Paul was Jesus Christ Himself. Note the several references in the first six verses of our lesson:- Christ

Jesus came to save sinners; faith and love which is in Christ Jesus; Christ Jesus our Lord, who hath enabled me, — putting me into the ministry; I obtained mercy, that in me first Jesus Christ might show forth all longsuffering, for a pattern—. Our memory selection points out the way to God. When, on the day of our Lord's crucifixion, the veil of the temple was rent from the top to the bottom, the way into the Holiest was opened.

Jesus Christ hath consecrated for us a new and living way, through the veil, that is to say, his flesh. No man can stand be tween an individual and God.

Jesus Christ, who was God and man, has opened the way for us

TESUNDAY SCHOOL

By Rev. R. Barclay Warren,

B.A., B.D.

Christ - Centre of Our Faith

Memory Selection: There is one God, and there is one medi-ator between God and men, the man Christ Jesus. 1 Timothy 2:5.

1 Timothy 1:12-17; 2:3-6; 6:11-12.

LESSON

boy was instructed to return the two items. On the way, he stumbled and broke the umbrella. He was afraid and decided to tell his parents and they could tell Mr. Moody. When Mr. Moody heard of the incident, he said to the boy, "When you broke my umbrella, you became ashamed, didn't you? But when your parents had straightened things up, you can come to me without being frightened. We have all sinned. God has provided a Mediator, to go between us and Him. He is Jesus. We can come

has opened the way."

People and organizations of people may disappoint us, but Jesus never will. He is faithful.

"How's your daughter's golf?"

"Oh, she's going around in less and less all the time." "I know,



WHATSIT? — Half-red, halfyellow apple was produced by grafting a Delicious with a double red apple to get the result

CROSSWORD PUZZLE					2. Covering of a wound 3. Huge wave 4. Stitched 5. Duck genus 6. Ugly old woman					28. Negative terminal 29. Brilliantly colored bird 30 Meat Die 31. Feminine				
									. :					
						won			1865	12. A				
	6. Ja		oppe	r		den	oting	2 "			rth		.)	
1. Poorest part	coln				habitant of"					33. Laborer				
	of a fleece 47. Of a duke Sir (Hindu) 48. High in the					8. Savage 34. Sh 9. Welsh breed 35. Ab								
9. Engineer's scale					of dog 36. Make									
	. Co		1.56			For					par		n	
18. Oriental						11. Withstands 37. Moves in 19. Spread hay ripples								
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the mother's 5	1. Ur					Che		wor		42. T				
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