

PERSONAL AND SOCIAL

O. J. Olson, forest ranger stationed at Rosemont, was in Patagonia Thursday on official business. He is compiling a report for the government of all patented and unpatented mining claims in his territory, which embraces the Patagonia and Santa Rita mountains.

Supt. J. J. Peterson, Mr. Pickering and Mike Long of the Big Jim mine were Patagonia visitors Wednesday.

Pres. A. G. Keating of the Big Jim Mines, Inc., of Los Angeles, was here Saturday on business for a short time, going from here to Phoenix, to attend to the shipping of additional machinery for the new mill unit.

W. Brodersen of Los Angeles is expected to arrive here today to straighten out the financial difficulties of his mining venture, which embraces the Chief, World's Fair and Henry Ford.

Mr. and Mrs. J. J. Peterson of the Big Jim mine were in town today.

Miles Hogan of Harshaw was here today.

Bob Harrington left this morning for Mexico, via Douglas, where he will engage in mining on a high-grade lead and zinc property.

Schools closed Thursday in the county for the Easter holidays.

Mrs. Grace A. Farrell, county school superintendent, was a business visitor to Tucson this week.

There will be a dance at Patagonia every Saturday night, beginning April 2, 1927. Music will be furnished by the Nogales Dance Orchestra. 3:35-4P

Mr. and Mrs. John Sullivan of the San Rafael valley were shopping in Patagonia Tuesday.

Clyde Baldwin was a Patagonia visitor Wednesday from the San Rafael valley.

J. R. Collier of the Corner Store was a county seat business visitor Wednesday.

Val Valenzuela Jr of the Corner Store was in Nogales today filling an engagement with a dentist.

Charles J. Bracker of the Army Store, Nogales, is in Los Angeles on business.

Mr. and Mrs. Craig Pottinger and young son were Patagonia visitors last Friday afternoon.

W. J. Williamson of the San Rafael valley was in town Tuesday for supplies for his ranch.

Robert S. Burns, manager of the J. C. Penney Co. store in Nogales is attending the convention of store managers in Los Angeles. Mr. Schultz is in charge of the business during Mr. Burns' absence.

Harry Tinstman, Jack Osborn and Mr. Page of Tucson were Sunday visitors at the San Rafael ranch of Miss Grace Van Osdale.

SAN RAFAEL VALLEY NEWS

Clyde McPherson is enjoying a visit with his uncle, Mr. Hendricks, of Oklabama.

Charles Everhart of Vaughn was a valley visitor Thursday.

Mr. De la Ossa of Lochiel was in the valley Tuesday.

Mr. and Mrs. Harding of Elgin were visiting in the valley Thursday.

Mr. Barton and son, Henry, of Canille were visitors Saturday at the Baldwin ranch.

Mrs. Marie Ar buckle and sister of Vaughn were visitors in the valley Saturday.

EASTER PROGRAM AT SONOITA

There will be an Easter program and service at the Sonoita schoolhouse Sunday, April 17, with a basket dinner. Everyone invited.

The program will begin at 10:30 in the morning and preaching will be at 2 o'clock p. m.

CONCERT PROGRAM, PATAGONIA, APRIL 20, BY 25TH INF. BAND

"Lights Out," March.....E. E. McCoy
"Who Wouldn't?" Fox Trot.....Kahn and Donaldson
"Il Trovatore," Selection.....Al Hayes
"Yankee Rose," Fox Trot.....Holden and Frankl (Copyright, Irving Berlin)
"Hot Trombone," One Step.....Henry Fillmore
"La Albura," Spanish Waltz.....Will Huff
"Where'd You Get Those Eyes?" Fox Trot.....Walter Donaldson
"Blue Skies," Fox Trot.....Irving Berlin
"Tonight's My Night With Baby," Fox Trot.....Irving Cesar, J. Meyer and Bobby Butternuth
"The Golf Girl," March.....H. J. Woods
Willie Phillips, Pvt. 1st Class, Co. C, Conductor.

WINTER STORMS VISIT COUNTY

The most unusual April weather in history descended upon us last Monday night and continued until Friday morning. Snow, hail, rain and sleet combined to make all remember that never in history has such weather prevailed here in the middle of April. Practically all fruit was killed by the severe freezing that accompanied the freak storm.

Eight children were saved from death in a Paris fire by being dropped into a blanket two stories below their room.

More to read in The Patagonian when found in most weeklier

MAY COMPROMISE ON HIGHWAY BILL AFTER RECESS

Phoenix.—A new highway bill, based on House Bill 127 passed by the legislature and vetoed by Governor Hu, has been prepared and will be introduced when the Eighth state legislature reconvenes in regular session next Monday after a 30-day recess. It was reliably reported at the state capitol. The new measure is said to have the support of many proponents of House Bill 127, the measure which the governor vetoed, and which is slated to come up for a vote to override the veto. The bill is said to have been drafted as a compromise attempt to end a prolonged session of the Eighth legislature.

RIVER COMMISSIONERS RETURN

Phoenix, April 13.—Members of the recently organized Arizona Colorado river commission returned to Phoenix today from an inspection trip to the Glen Canyon dam site on the Colorado above Lee's Ferry in Coconino county. The trip was the first the commission is making in the way of inspecting the various dam sites on the river. Only six of the eight members of the commission made the trip. Governor Hunt, chairman, and Mulford Winsor, secretary, were unable to go because of pressing business.

ELECTION FRAUD CHARGED

Tucson.—Twenty indictments charging three former Pima county election officials with violation of the Arizona election laws and conspiracy to violate the laws, were returned Wednesday by the Pima county grand jury. Otto E. Pape, local automobile dealer; Bertram L. Hitch, cattleman, and William G. Power, deputy county assessor, were each indicted on six counts of failure to canvass ballots according to law, while two counts of conspiracy were charged against the three collectively.

4-YEAR-OLD BOY KILLS MOTHER

Chambersburg, Pa.—Less than 24 hours after he shot and killed his mother because she would not let him play with matches, 4-year-old Tommy Ruby attempted to slay Coroner Shull while being questioned. The lad took a butcher knife and rushed at the official, but the blade was wrenched from his fingers before injury was inflicted upon the coroner. Tommy shot his mother late Tuesday and she died instantly.

CIVILIAN FLIERS BEAT RECORD

Roosevelt Field, N. Y., April 11.—Bert Acosta and Clarence Chamberlain, civilian fliers, today landed their Bellanca monoplane after having remained in sustained flight longer than any other aviator in history. They broke the old record made in France in 1923 of 45 hours 11 minutes by six hours and one minute. They flew approximately 4080 miles without landing.

SAN DIEGO BUSINESS MEN VISIT NOGALES

Monday afternoon and evening Nogales entertained about 125 business and professional men from San Diego who were on a goodwill excursion to the border citie. The visitors were entertained at Nutt's Place during the evening, which is just above the Cave Club in Nogales, Sonora.

JOHN H. CADY DIES IN SAWTELLE

A letter received this week by William Fessler from Charles Cady, son of John H. Cady contains the information that the latter died at the Soldiers' Home at Sawtelle, Calif., on Friday, April 8, 1927. Burial was in the cemetery at the home. Mr. Cady was a pioneer of Arizona and for many years made Patagonia and vicinity his home. He was about 85 years of age at the time of his death.

MORRISON DEVELOPMENT CO.'S SHARES STRICKEN FROM LIST

According to the Arizona Mining Journal, shares of the Morrison Development Company, whose property is located a few miles from Patagonia in the Santa Rita mountains, have been stricken from the list of the Los Angeles Stock Exchange by the board of governors following receipt of a letter from B. H. J. Balter, president of the company, indicating that the company is in urgent need of funds to preserve its property. Stockholders have been asked to return 50 per cent of their stock in an effort to strengthen the treasury. There are now due and unpaid demand notes issued to meet a portion of the February payroll and a large list of current expenses.

MICKIE SAYS—

PUBLISHING THIS NEWSPAPER ALL THAT GOES ON IN OUR PRINTING PLANT, NOT BY A HULL LOT. OUR SHOP ALSO TURNS OUT GOBS OF FINE PRINTING, COMBINING TYPE, INK AND PAPER WITH MUCH ARTISTIC ABILITY AND PLenty OF SPEED. JUST TELL US WHAT YOU WANT AND WHEN YOU WANT IT—THAT'S ALL.



CALIF. SHERIFF SEEKS HELP

San Diego, Calif.—Charging that United States customs officials at the Tia Juana, Mexico, border are violating rights of American citizens and also that they are allowing Tia Juana alcohol to flood southern California, Sheriff James A. Byers has sent a letter to Assistant Secretary of the Treasury Lincoln Andrews, asking that steps be taken to put in effect an efficient and effective customs service at the border.

Byers, in his letter, characterized conditions at the border as deplorable and asserted that the output of a distillery in Tia Juana totaling 500 gallons a day is being smuggled across the border into California. Byers also asserted that the liquor stocks of a prominent Tia Juana firm are being smuggled across the border and that trucks and airplanes are being used by the smugglers.

FRANCE NOT TO TAKE PART IN COOLIDGE CONFERENCE

Washington.—France has officially declined to take part in President Coolidge's naval disarmament conference.

Behind this action is wide differences between various world powers on disarmament. Following the Harding conference which limited the building of battleships, President Coolidge would limit the building of battle cruisers, destroyers and submarines. France maintains that sea, land and air forces must be considered together. Great Britain and Japan accepted the American invitation. Italy joined with France.

CUBA'S PRESIDENT IS DICTATOR?

Washington, D. C.—Chester M. Wright, editor of the International Labor News Service, says: If President Gerardo Machado of Cuba comes to Washington April 20, as he says he will, he will come with the structure of his dictatorship completed and made permanent until 1932. It will be the finest example of unlimited power in the western world.

Early in the year the Cuban congress, upon demand of the president, enacted a law by which the congress abdicated, so far as important powers were concerned, turning those powers over to the president.

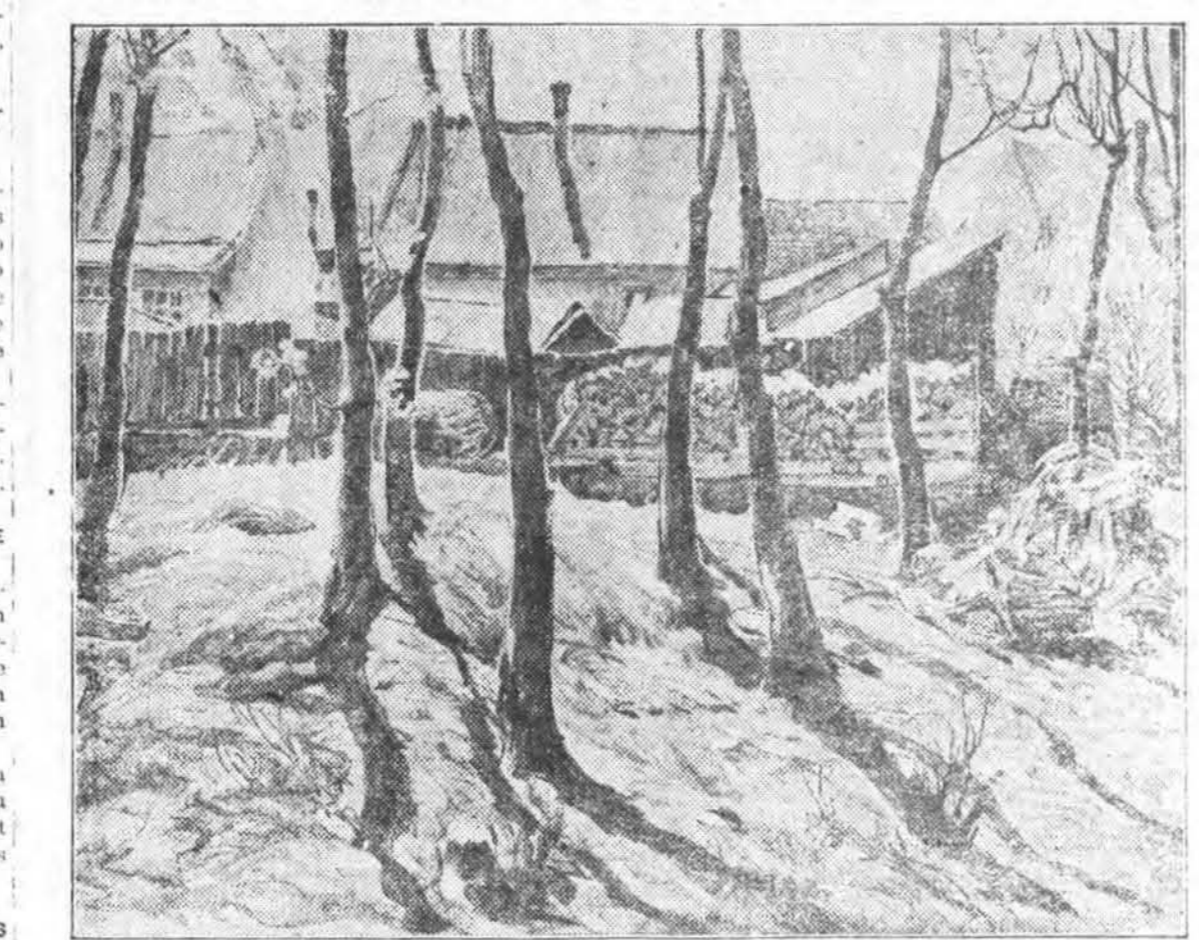
Now, under spur of the same pressure, the Cuban congress has enacted a law, known in Cuba as the poropus, extending the term of the president until 1932, abolishing the next general election and abolishing also the vice-presidency. This is rated as the most amazing piece of power grabbing yet witnessed in Cuba, where power grabbing is not new.

SHEFFIELD 'FIXES' THINGS

Mexico City.—As a result of personal conversation with Foreign Minister Spenz, Ambassador J. R. Sheffield has hopes that Americans arrested or detained in Mexico in future will not be held incommunicado, but will be permitted to communicate with the American embassy or consulate. No formal representation was made but it was learned that Ambassador Sheffield took the occasion of a personal talk with the foreign minister to express a strong desire that no American detained by Mexican authorities be denied permission to communicate with representatives of the American government.

"IT PAYS TO ADVERTISE"

VIENNA ARTIST WINS DRAWING PRIZE



"Sunlight," by Artur Brusenbauch, of Vienna, Austria, which won \$500.00 prize.

An artist in far-off Vienna has been awarded the first prize for the best pencil drawing submitted in the Eberhard Faber contest. This contest, which covered two continents, was concluded on January third. The winner is Artur Brusenbauch. His contribution was a rendering of sunlight between tree trunks which impressed the jury by its delicateness and suggestion of modernity. As originally constituted, this jury was composed of such distinguished experts in draughtmanship as Franklin Booth, Hugh Ferriss, Frank Alvah Parsons, Chester B. Price and Albert Sternier. This committee framed the rules governing the competition which was first made public last September.

Owing to the unavoidable absence from New York of Albert Sternier and Hugh Ferriss at the time the decisions were made, their places were taken by two equally well known artists in the persons of Arthur Crisp and John Alonzo Williams. Three prizes were offered, the first of \$500.00, the second of \$300.00, and the third of \$200.00. The next ten drawings, in order of merit, were to receive honorable mention. A rule of the contest stipulated that all drawings submitted must be made with Van Dyke drawing pencils. Furthermore, all drawings had to be signed with a non de crayon, so that the artists should not be known to the judges until the decisions were made. Circulars and letters were sent to

architects, artists, art schools and Boards of Education and announcements were made in art magazines in the United States, Canada and Europe. More than 5 thousand drawings were passed on by the jury. The second prize was awarded to Herbert F. Rose of New York and the third to Hubbard Van Buren, Kline of Syracuse, N. Y. The ten who won honorable mention were: Harold E. Crossingham of New York, Stanley W. Woodward of Boston, Phillips Brooks Nichols of White Plains, N. Y., Edwin F. Bayle of Philadelphia, Pa., Paul Ocker of Cleveland, O., Ben Klein of New York, Louis Hechelsbloner of New York, Joseph Pills of Vienna, Austria, Claude Moore of Denver, Colo., and Miss A. M. Hathaway of Allston, Mass.

DAMAGE DONE BY STORMS OVER WORLD

The Associated Press summarizes the damage done by recent storms as follows: More than 10 0 persons are dead and scores injured as the result of devastating ravages of Mother Nature throughout the world during the last three days.

Texas has been hardest hit in the United States. No less than 15 storms of cyclonic force have swept over the state, leaving a trail of dead and injured. Rock Springs, Texas, today buried 47, the result of a tornado Tuesday night. A total of 55 have died from injuries in the storm.

At Lufkin, a small tornado caused the death of one woman today, while 12 were injured, according to latest reports. Colorado, Nebraska and Wyoming are in the grip of a spring blizzard, which has previously impeded highways, rail and air-mail traffic. Today marked the fifth day of the storm.

Down the Mississippi valley and through other sections of the south flood waters menace property, and one life was lost. Across the Atlantic, heavy winds have struck along the Moroccan coast. The storm is described as the most violent in a decade. Twenty lives are reported lost. Bucharest reports a violent wind storm destroying 200 homes. Fire started in the wreckage.

At least 16 persons are reported killed and 50 injured in an earthquake which rocked Mendoza, Argentina, today. The shock lasted 20 seconds. Wire communications were interrupted in the Canadian northwest by aurora borealis.

MORNING GLORY MINE TO BEGIN OPERATIONS SOON

A letter just received from J. A. Hamilton of Chattanooga, Tenn., manager of the Morning Glory Mining & Smelting Company, whose property is located a short distance from the Big Jim, at Harshaw, contains the very pleasant information that the company expects to begin operations in the very near future. Mr. Hamilton expects to be in Patagonia within the next 30 days to make arrangements for the resumption of work at the mine.

TWIN BELL SHAFT DOWN 100 FT.

It is reported that the Twin Bell Development Company's shaft is down 100 feet, which is a double-compartment shaft. Henry J. Grohs of Whittier, Calif., is president of the company. It is the company's intention to sink the shaft to the 1000-foot level, cutting stations every 100 feet. It is stated that the bottom of the shaft is in 21 feet of ore, five feet of which runs \$124 in gold, silver and lead, the former predominating, and the balance of the ore is said to average \$18 to the ton.

OLD MOWRY MINE MAY BE SOLD

It has been persistently rumored lately that the old Mowry mine at Mowry, in the Patagonia mountains, about 12 miles from Patagonia, is to be purchased by the National Lead Company, but an option taken some time ago by the company has not been closed. It is learned from reliable sources that the Mowry, for several years, has been employing a small force of men and is as the shipping list with an occasional carload of ore. Bert Logan, the foreman, has a lease on the 100-foot level and the old company is working the balance of the old workings.

AGLE Picher CO. BUYS 'MINE'

The Montana mine, in the Oro Blanco district, about 45 miles west of Nogales, has been purchased by the Eagle Picher Lead Company of St. Louis. The property changed hands the first of this month. The mine has been under option by the Eagle Picher for the last six months, and the purchase follows diamond drilling and preliminary development which has been under way during that period. Present plan is to sink the 250-foot shaft to the 400- or 500-foot level for prospecting purposes. The present force, 35 men, will not be increased for the present.

AMIGO TUNNEL BEING DRIVEN

A tunnel was started some time ago on the Amigo group of six claims at Harshaw adjoining the Big Jim property. The claims were acquired by A. J. Welby shortly before he met with a fatal automobile accident on the Sonoita-Tucson highway, for F. E. Woodley and associates of Los Angeles.

BIG JIM MACHINERY ARRIVES

The new machinery for the Big Jim concentrator unit, which is to be added to the one already in operation, is here and work of installing it will go forward immediately under the direction of Supt. J. J. Peterson. The present mill is running three shifts a day and concentrates are being shipped to El Paso at the rate of a car every four or five days. The crosscut on the new 350-foot level is nearly finished to the big ore body encountered on the 250-foot level of the shaft. The vein dips to the west at about 50 degrees from the vertical, and it is expected to encounter it at about 80 feet from the bottom of the shaft.

STATE MINING NEWS IN BRIEF

Ajo—Rich silver-lead ore cut in the Ballas property, 50 miles east of Ajo, at 300 feet depth. Buckeye—Buckeye Mining Company starts development in hills near here; new mill and rail connection with the Southern Pacific proposed. Superior—McGinnell Copper Company has a five-foot ledge of \$40 per ton and copper glance ore. Kingman—A 50-ton carload of feldspar or silica is being shipped every three days from here by Gold Cliff Central Mining Company.

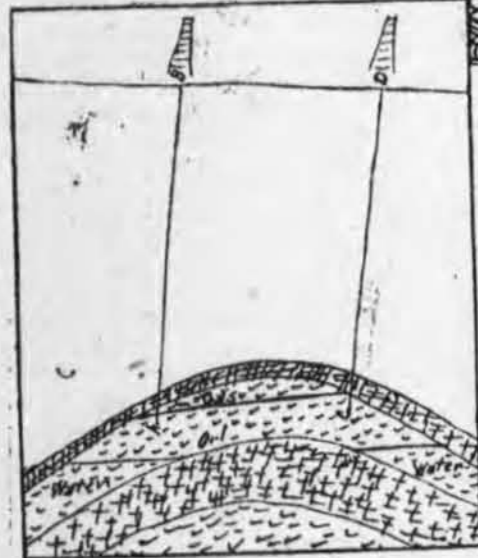
U. S. Authority Sees Ample Motor Fuel for Long Future



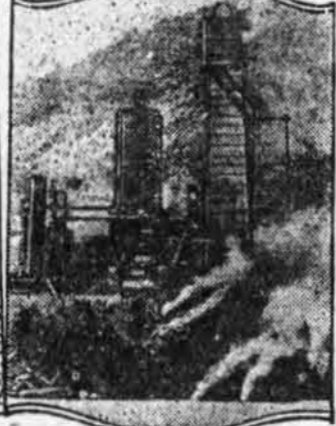
HARRY H. HILL
© HARRIS & EWING



WORKERS IN GAS MASKS AT AN OIL WELL



MR HILLS IMPROMPTU SKETCH OF AN OIL DOME



EXPERIMENTAL OIL SHALE REDUCTION PLANT

The U. S. Bureau of Mines is confident that motor fuel supplies will be ample for many years to meet all needs of the country's millions of automobiles. Harry H. Hill, chief petroleum engineer of the Bureau, here tells the reasons for this conviction, and sketches the advances in industrial methods which justify his opinions.

By HARRY H. HILL
Chief Petroleum Engineer, United States Bureau of Mines.

ONE reason why there is no reason to worry greatly about motor fuel for a long time ahead is that people are worrying about it. Interest in such a question at the right time, is the best insurance against disaster. The President and the Federal Oil Corporation Board have done what was needed, at the right time.

We know that most petroleum has come from rather limited areas and that even from these only a small proportion has been taken out. Oil produced by gas pressure capable of lifting it to the surface when we drill holes is but a small proportion of all the oil contained in the sands. Even from the best pools recovery by the old methods is small, perhaps one-half in the most favorable conditions, oftener one-sixth, or one-seventh, or one-tenth. But a considerable part of what still remains in the ground can be recovered by methods now established as technically and economically practicable.

Producing oil from coal and shales and by mining the oil bearing sands is entirely possible. Experiments are going on in these directions, and if we ever have to fall back on these resources we will be ready. For a long time, however, the present methods of exploration and drilling, with improving processes to assure larger recoveries, are likely to suffice.

An Oil Dome Illustrated
I am no draughtsman, but maybe I can draw something that will help explain. Here's a rough drawing of an oil dome. The shaded part at the bottom is a deposit of oil bearing sands—with an impervious rock stratum above. A wild-catter drilled the hole A-B and gas pressure caused oil and gas to flow. After a while the gas pressure wasn't sufficient to keep up the flow and they pumped until ultimately even this ceased producing.

Nevertheless, most of the oil was still left sticking to the sand grains. Then the operator drilled the well C-D, which flowed for a time, but most of the oil was still down there in the sand. If the gas pressure could be restored more would flow. So the operator injects gas into one well, restoring the pressure and causing the oil to resume flowing from the other. After a time the flow will stop again, but still much of the oil will be left. In some fields it has been possible to obtain additional amounts of oil by introducing water in some of the wells and forcing the oil to others. The addition of a chemical such as soda ash to the water may assist in removing the oil from the sand grains, but neither plain water nor water containing chemicals should be introduced into an oil sand except as a last resort, for it is likely that the water, which travels faster through the sand, will get to the open wells ahead of the oil and when the flow is resumed under pressure water will come out.

Everything Saved Nowadays
The gas escaping from an oil well carries with it a proportion of gasoline, which in the old days was lost. Nowadays it is extracted from the gas and saved, while the dry gas can be forced back into the ground to maintain pressure.

One of the menaces to most oil pools is the inflow of subterranean water. Water flows through the oil sands faster than oil, and by surrounding the bottom of the well keeps the

oil out. How to shut off the water and permit the oil to run out is a problem with which the engineers have long worked. They have made great progress and so increased recoveries.

In earlier times most oil producers carefully guarded all information about their wells and experiences, but latterly there is co-operation in these matters. Geologists and petroleum engineers, once derided by the "practical" oil men, are more and more accepted as guides and mentors. New knowledge is constantly increasing recoveries.

As to Mining for Oil
In Lorraine they have dug shafts down to the oil sands and actually brought the sands out, like coal from a mine. But it's costly.

Another mining process is to sink a shaft to the oil sands and from its bottom drive tunnels in all directions through the sands. From these tunnels small perforated pipes are driven into the sands, which drain the oil out of the sands. It flows to larger pipes back at the foot of the shaft and thence is pumped out. This requires installing an expensive plant, but in some fields the high recovery that is assured might justify the cost. I understand the process is about to be installed in a few fields in this country, some companies being convinced it is practicable and profitable.

Oil can be distilled from coal, and much work is now being done along this line. But more appeal has been made by the plan of extracting oil from shale. The shales of Scotland have been worked for three-quarters of a century, and they are almost unlimited in this country, richer in oil than those of Scotland. Kentucky, Ohio, Colorado, Utah, Nevada, Wyoming and California are particularly rich in shales. It is just a question of the cost of extracting the oil. Congress has given \$130,000, with which the Bureau has installed a plant near Rulison, Colorado, to distill oil from the Colorado River Shales. It is calculated that the shales mined at Rulison will produce about a barrel of oil to the ton.

The Use of Oil Shales
In Scotland they are working shales that produce about twenty-five gallons of oil per ton. The seams are from three-and-a-half to eight or ten feet thick. In Colorado are seams many times as thick and containing much more oil per ton. Reduction of shales involves an enormous mining operation, and after the oil is extracted the vast tonnage of refuse must be disposed of. So it is expensive compared with producing oil from wells.

Ben E. Lindsey of the Bureau of Mines Experiment Station at Bartlesville, Okla., is confident that exploration, better recoveries, better utilization and deeper drilling would furnish enough oil to meet all requirements for at least twenty-five to fifty years, if it could be extracted in that time. But as a practical matter this will not be possible. Within that period there will be times of shortage, when oil from shales will be needed to supplement the oil from wells, etc.

Meantime federal and state governments and the industry are co-operating in an astonishing range of investigations and studies. These activities cover such a wide field that even an enumeration of them would run into tiresome detail.

Isabel McAnley, 19-year-old Scotch girl, won the national plowing contest at Bannockburn, defeating seven men.

A British device for sterilizing eggs by electricity is said to enable them to be kept fresh for a long time.

SANTA CRUZ PATAGONIAN

HOWARD KEENER
Publisher and Owner

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SUCCESS OF COOPERATIVES LIES IN SELLING END

In February of this year, Wall Street broadened its field of operations to include farming, and at low interest loaned Sun-Maid Raisin Growers of California \$5,500,000.

This step indicates the dawn of a new era, an era of cooperation between big money and big farming as exemplified by cooperative organizations.

When Wall Street (the accumulated savings of the nation) loans money to any organization it must have a sound business set-up.

In the case of the raisin growers they had a coordinated organization with every unit working in harmony and efficiency, to sell raisins. In other words, successful marketing is the keystone of cooperative success, and Sun-Maid in creating its selling organization, Sunland Sales Cooperative Association, applied the business principles of outstandingly successful non-cooperative commercial enterprises.

Buyers of the bonds to care for this farming situation satisfied themselves that this farmers' organization could sell the product its members produced.

Without this ability to sell, demonstrated by unflinching repetition, the thousands of acres of fertile land with their millions of grapevines, their score or more of receiving and packing plants, among them the largest raisin packing plant in the world, and their 15,000 cooperating farmers, would have offered no allurement to investors all over the nation.

As soon as farmers, collectively or individually, begin to put their production and marketing problems on a sound business basis, they will find the money reservoirs of the world opened to them.

This is a practical application of applying modern business methods to farming. The fact that this farmers' organization could borrow \$5,500,000 in this manner, indicates that some farm problems are being solved along practical lines.

Nowadays a drawing room is a place where a cartoonist works.

Anger may be hot, but friendship is merely warm.

MODERN MINING A FACTORY PROCESS

Last year, the Flowery Mines mill plant near Virginia City, Nev., handled \$3 ore with a 99 per cent extraction at a cost of about \$2.30 a ton. This left a considerable profit. This year, short-cuts in ore handling and the installation of heavier machinery are expected to reduce extraction costs; they may also increase recovery percentage.

A 3,000,000-ton dump at the East Helena smelter in Montana, is to be reworked for the zinc it contains. Most of this was "waste" when the smelter was started, and during most of the years of its operation; but modern methods of zinc recovery, and modern demands for the metal, have made the old waste valuable enough to work over.

Old-time hard-rock miners sneered at chemists, assayers, and laboratory workers, holding themselves the only real thing in the mining world. They do that no longer. The first thing they do when they discover ore is to take it with fear and trembling to a man who knows the latest things in chemistry that will take the lowest-grade ores and make them pay. Brute strength is a minor asset in mining of today; trained intelligence is the real mining giant. The mine of today is a factory, not a gamble.

The wealth of the United States depends largely upon metal mining, and the public should understand these facts so it will better support this great basic industry.

The girl who insists on having a big church wedding will probably want a packed courtroom to witness the divorce.

Much picturesque eloquence has been wasted on inanimate objects such as recalcitrant golf balls or a flat tire.

Nevada ought to have great prosperity with all those gold diggers at Weepah and Neno.

Most persons have the idea that character analysis consists of picking a neighbor to pieces.

Americanism: Welcoming foreign lecturers; trying to bar out the prettiest French blonde.

I fthis Chinese war keeps up we may expect to see the suicide wave extend to proofreaders.

Another paradox is that the lower the theater seats the higher the price.

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Silvio Nuti, Prop.
63 Elias Street Nogales, Sonora

This modern age knows that Camel goodness is dependable

THIS modern age is the hardest to please ever known, and it delights in Camel. The smokers of today find tobacco enjoyment in Camels, for their goodness always is so dependable. The choicest tobaccos, and the most superb blending known to the smoking art are Camels.

In Camel you will find out what modern smokers demand—a smoothness, mildness and mellowness that you've never known before. That's why Camels never fail to meet the strict, exacting demands of present-day smokers. This modern age knows the sure call to smoke enjoyment: "Have a Camel!"

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Checks Are Receipts



Checks are the best receipts in the world for paid bills. Our record of the canceled check as it is paid and passes through our books forms a chain of evidence that cannot be surpassed or disputed. Starting a Checking Account with us is a simple matter. Let us tell you how.

THE FIRST NATIONAL BANK OF NOGALES
NOGALES, ARIZONA
Assets Over \$3,000,000

Why Does

a razor pull? A dull blade. Only a super-keen blade gives a super-shave. The Valet Auto-Strop Razor is the only razor that gives you a super-keen edge for every shave. \$1 up to \$25.

Valet Auto-Strop Razor
—Sharpens itself

TRADE AT HOME!

Arizona Packing Company's meats are from cattle raised in Arizona. Cactus brand Bacon and Ham is as good as can be procured anywhere, and we cure them from the meat of Arizona-raised swine. Patronize Arizona industries whenever possible and help your state grow. The money you send away stays away.

ARIZONA PACKING COMPANY
NOGALES, ARIZONA



WE HAVE A STOCK OF Kelly-Springfield Tires AND TUBES

We Also Carry AUTO ACCESSORIES, GAS, OILS, AND GREASES
We deal in Wood, Hay, Grain, and Poultry Feed, and do Hauling, both light and heavy. See us FIRST.

PATAGONIA ICE & LIGHT PLANT

BEFORE IMPROVING PROPERTY be sure your title is clear. Title to much land in Nogales, Patagonia and other parts of this county is cloudy.

SANTA CRUZ COUNTY ABSTRACT AND TITLE COMPANY
F. A. French, Mgr.

Nogales Arizona

NOTARIES PUBLIC

Legal papers requiring a Notary's Seal and acknowledgment will receive proper attention if brought to Miss Grace Van Osedale, San Rafael Valley.

B. P. O. E. NOGALES LODGE NO. 1397 Meets second and fourth Tuesdays of each month at Elks' Home on Morley Ave. Visiting brothers always welcome.

HERBERT CHATHAM, Exalted Ruler
ROBERT E. LEE, Secretary

It's better to insure your property than to wish you had. See Howard Keener at the Patagonian office.—Adv

NOTICE FOR BIDS FOR TRANSPORTATION OF HIGH SCHOOL PUPILS TO PATAGONIA UNION HIGH SCHOOL.

Notice is hereby given that sealed bids for the transportation of the High School pupils to the PATAGONIA UNION HIGH SCHOOL over the route herein specified, for the school term commencing September 12th, 1927, and lasting for nine and one-half (9½) school months of twenty days each, will be received at Patagonia, Arizona, by the clerk of the Board of Education for the Patagonia Union High School, on or before Tuesday, April 26, 1927, and up to 6 o'clock sharp on said day.

Such bids must be for the purpose of transporting pupils to the Patagonia Union High School from the Canille school house along the main highway through Elgin and Sonoita to Patagonia, a distance of approximately 30 miles, and return along the same route. Said transportation bus to pick up any and all eligible pupils who present themselves along the route at the schedule time. But to run on a set schedule which will unload the pupils at the Patagonia Union High School not later than 9:00 A. M. and to leave on the return trip not later than 4:30 P. M. unless specially arranged for, and to run every school day.

Bus for transportation to be any standard enclosed body built for passenger service, with longitudinal seats for 25 children or 18 adults, on an extended chassis of any standard geared type.

The successful bidder must contract to keep bus in good running condition at all times and to furnish all necessary oil, gas, tires and repairs for the same, free of all charge to the PATAGONIA UNION HIGH SCHOOL district.

Successful bidder must abide by all rules of the Corporation Commission of this State as to permits, insurance, etc., and must bear the expense of the same.

Bids must be made on a set monthly payment basis, based on a school month of twenty school days, bidder to make such reports to the clerk of the Board of Education as may be requested.

All bids must be accompanied by a cashier's check for Fifty (\$50.00) Dollars as a guarantee that the successful bidder will enter into contract with the Board of Education of the Patagonia Union High School, and a bond of One Thousand (\$1,000.00) Dollars will be required from the successful bidder to insure the faithful performance of the contract.

The Board of Education reserves the right to let contract to the best responsible bidder, and further reserves the right to reject any and all bids whatsoever, and each bid must be accompanied by a copy of this notice.

J. R. COLLIE,
Clerk of Board of Education,
Patagonia Union High School,
Patagonia, Arizona.
Publish April 8, 15, 22, 1927.

CASTORIA

For Infants and Children
In Use For Over 30 Years
Always bears the Signature of *Chas. H. Hitchcock*

"LA PERLA" Jewelry Store

F. A. Sarabia, Prop.
107 Morley Ave.
NOGALES, ARIZONA

Elgin and Waltham Watches
Expert Watch and Jewelry Repairing. All work guaranteed.
Reparacion Perfecta, de Alhas y Relojes. Trabajo garantizado.

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PRICE LIST
Gold and Silver in 1 sample \$1.00
Gold, Silver, Lead and Copper in 1 sample \$2.50
Lead, Copper, Zinc, Manganese, Iron, Lime, Graphite, Sulfur, Insolubles (gold or silver alone) each \$1.00
Discount on large amounts.
ORES BOUGHT f.o.b. Nogales, Ariz., at 90% of smelter value less \$5.00 per lot sampling and assay charge.
Accuracy and Promptness My Aim
12 Years in Present Business.
Hugo W. Miller
NOGALES, Box 257 ARIZONA

KEY CITY TAILORS

H. T. CONNER
138 Grand Ave. Phone 212
Nogales, Ariz.
Up-to-Date Cleaning and Pressing
Hats Cleaned and Blocked
Suits Made to Order
All Dye Work Guaranteed
Mail your clothes to us. We will deliver them on time.
Our Work, Our Prices, Our Service
Will Please You

CORN FOR SALE

white and yellow; also seed corn. B. BALDWIN's ranch, San Rafael Valley, Ariz.

BABY GHIX—Golden Buff and White Leghorns (Tandred Strain), Black Minorcas, Barred Rocks, R. I. Reds, and Turkeys. No electric lights or other egg-forcing methods used on breeding fowls. ENOCH CREWS, Seabright, California. 48-21p

FOR SALE—Purebred R. I. Red roosters and eggs for hatching. Inquire of H. B. Thurber, Rail-A Ranch, Patagonia-Nogales highway. Address Nogales, Arizona.

Business Poor? Try Advertising

RHODE ISLAND RED EGGS for hatching, from hens with trap-nest records from 169 eggs to 273 eggs. Prices reasonable. Ask for mating list. S. M. BRIMBERRY, Lewis Springs, Arizona. 3-4t

FOR SALE—House in University District, five rooms; near high school Tucson, Ariz. 608 East Fourth St.

Howard Keener, at the Patagonian office, will acknowledge your legal papers, put the Notary's Seal thereon—and has for sale all kinds of legal blanks.

Subscribe for your home paper; \$2.

Don't Throw Away That Old Pair of Shoes. We Can Make Them Look—and FEEL—

BETTER THAN NEW

Just bring them in when in Nogales and we'll fix them for you while you are doing your shopping.

NOGALES SADDLERY

EXPERT SHOE REPAIRING
313 Morley Avenue Nogales, Arizona

Everybody Visits

The Log Cabin

NOGALES, SONORA
WHERE JOY REIGNS SUPREME
New Reviews—New Entertainment
Leave Dull Care Behind

USED PARTS FOR ALL MAKES OF CARS

AT HALF PRICE

If not satisfactory, get your money back...WHY PAY MORE?

NOGALES AUTO WRECKING CO.

L. A. ALLEN, Prop.
420 Grand Avenue Nogales, Arizona

For the Best in Nogales, Sonora

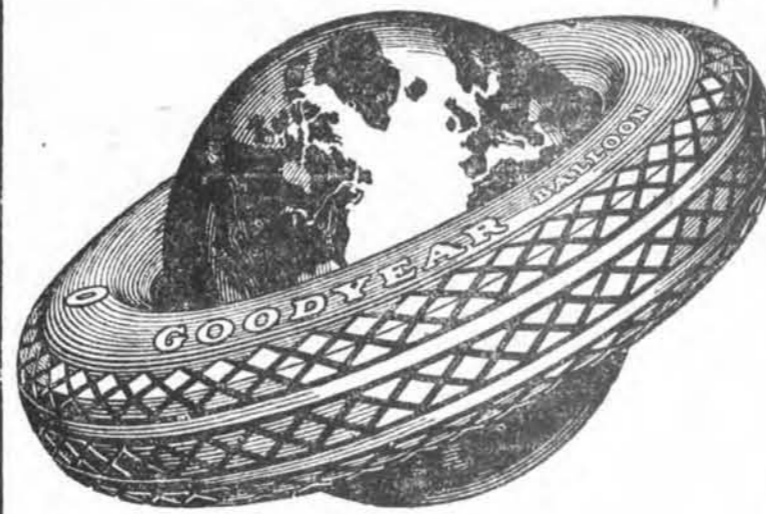
VISIT THE FAMOUS

Cave Cafe

CUT IN SOLID ROCK

We specialize in Sea Foods and Game in Season. All kinds of Chinese dishes to your order.

Where the Tourists eat their meals in the cool recesses of dining-rooms cut into the rock hill-side.



People who wouldn't think of going to any but a good, reputable dealer for food, clothing, or furniture, patronize the worst kind of "dumps" when it comes time to buy a tire.

They do this thinking it is necessary to order a tire bargain.

We'll sell you the best tire made—a Goodyear—at a price as low as you can get anywhere.

EAST SIDE GARAGE

R. C. Blabon, Proprietor
PATAGONIA ARIZONA

International Casino

Alex Rossi, Mgr.

At the Plaza, Sonora, Mexico
(Just across the border)

THE ONLY FIRST-CLASS PLACE TO EAT AND DRINK

HANK'S GARAGE

Hank Myers, Prop.

AUTO REPAIRING

STUDEBAKER SERVICE

CARS GREASED AND OILED

340 Grand Avenue, Nogales, Arizona

FOR DEVELOPMENT WORK, FOR SMALL HIGH GRADE VEINS,

Here Is the Mill

Efficient, Economical,
Easily Handled, Simple

Price \$3200

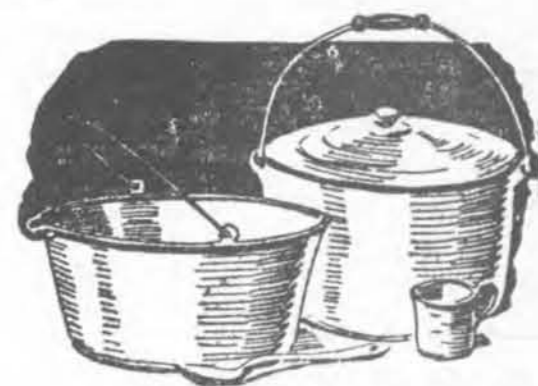
10-15 TON FLOTATION MILL

Extra Cost for Boiler and Engine, or Gasoline Engine, From \$1200.00 to \$1600.00

Roy & Titcomb

Incorporated

NOGALES, ARIZONA



Why get along with makeshifts in the kitchen, where so many hours of work are done each day, when you can come here and, at very small cost, choose kettles and pans that will make your kitchen complete and lessen materially your kitchen work?

WHITE ENAMEL WARE

The following special values will prove especially interesting to thrifty shoppers:

Berlin Kettles \$1.00 to \$1.50
Coffee Pots \$1.25 to \$1.60
A full line to choose from; all sizes.

THE CORNER STORE
Patagonia, Ariz.

SUBSCRIPTION COUPON

SANTA CRUZ PATAGONIAN,
Patagonia, Arizona.

Enclosed find \$_____ for _____ year's subscription to The Patagonian, at \$2.00 per year.

Name _____

St. and No. _____

City and State _____

Nogales Auto Co.

STORAGE — REPAIRING — ACCESSORIES
STUDEBAKERS
 Store Your Car Here While in Nogales and Let
 Us Check It Up for Needed Repairs
THE BEST AUTO MECHANICS IN TOWN

NOGALES-TOMBSTONE STAGE

Bob Laney, Prop.

SCHEDULE

SOUTHBOUND		NORTHBOUND	
Leave Tombstone...1:30 p.m.	Leave Nogales...5:00 p.m.	Leave Nogales...5:00 p.m.	Leave Tombstone...7:30 p.m.
Arrive Sonotta...2:10 p.m.	Arrive Patagonia...6:00 p.m.	Arrive Patagonia...6:20 p.m.	Arrive Sonotta...6:20 p.m.
Arrive Patagonia...2:30 p.m.	Arrive Sonotta...6:20 p.m.	Arrive Tombstone...7:30 p.m.	
Arrive Nogales...3:30 p.m.			

Direct connections at Tombstone east and west.

PIGGLY WIGGLY

All Over the World

Remember!

EVERY PURCHASE MADE AT PIGGLY WIGGLY MUST GIVE YOU COMPLETE SATISFACTION OR YOUR MONEY WILL BE RETURNED WITHOUT QUESTION!

FLOUR	
24-Pound Sacks, each	\$1.05
48-Pound Sacks, each	\$2.00
CORN MEAL	
9-Pound Sacks, each	38c
CORN	
No. 2 Cans, each	12c
CRACKERS	
3-Pound Boxes, each	39c
WHEATENA	
Per Package	23c
BELLE OF HEART PEAS	
No. 2 Cans, each	19c
FANCY MIXED CANDY	
2 Pounds for	25c
JELLY BEANS (For Easter)	
Per Pound	12c
STRAWBERRIES	
Per Basket	24c
POTATOES (Fancy Colorado)	
Per Pound	3½c
HEINZ VINEGAR	
Quarts, each	30c
Half-Gallon Jars, each	49c
BOB WHITE SHORTENING	
4-Pound Pails, each	68c
8-Pound Pails, each	\$1.32

MAKE PIGGLY WIGGLY YOUR HEADQUARTERS WHILE IN NOGALES

PIGGLY WIGGLY

NOGALES, ARIZONA

"EASTER" IS JUST AROUND THE CORNER!

How would "dad" or brother like a dandy genuine broadcloth or silk shirt? A hat? A two-piece summer suit?
 Would a lovely designed hat or gown do for that charming young wife, or daughter, or sister?
 How about a delicate pair of silk hose? A swell scarf?
 And last, but not least, "BABY," the supreme "ruler" of the household, comes demanding only the best and most delicate little things.

We Have Every Item of Clothing and Apparel the Family Needs.
 Let's All Get "Dolled Up" for

Easter

—and let's have a grand and glorious time buying all our garments at Nogales' most progressive Department Store—

The
"El Paso"
 Originators of Low Prices
 129 Morley Avenue
 Nogales, Arizona

Willard Batteries

\$11.95

(Rubber Case)
 Batteries Recharged 75c
 (All makes)
 Everything Electrical for the car.

Out-of-Town Orders Solicited
ELECTRICAL EQUIPMENT CO.
 340 Grand Ave.
 NOGALES, ARIZONA

DR. M. A. WUERSCHMIDT
 Optical Specialist

Arizona Optical Company

313 Morley Avenue
 NOGALES, ARIZONA

The Bolero Stays— In More Ways Than One



The bolero is one of those impudent styles that begins by making itself so dear to fashion that we enjoy whatever liberties and variations it may take thereafter. In this case the fickle bolero got as far as the back of the frock and then decided it would be a bolero no longer, with the result that its existence could never be suspected when the frock is seen from the back. The blouse front is made either of a different shade or a softer material than the rest of the frock, thus strengthening the jacket illusion and also following the new *composté* mode.

The three Haragroder children, 6, 8, and 10 years old, walk nearly 10 miles and return each day, attending the Cheek school in Jefferson county, Texas.

Two infant daughters of Mr. and Mrs. Ferdinand Allehen of Glencoe, Minn., joined at the abdomen when born, have recovered from being separated by a surgical operation.

If rejuvenation shall prove successful some of us may possibly live to see what disposition congress makes of Muscle Shoals.

The Patagonian, \$2: Worth the Price

WALTER P. CHRYSLER'S TRAFFIC TALKS



TEACHING CHILDREN TO BE CAREFUL

This is what New York children are being taught in the schools:
 "Do not play in the street."
 "Play on the sidewalk, or nearest playground or vacant lot."
 "Roller-skate on sidewalks where vehicles cannot harm you."
 "Never chase a ball across the street."
 "Do not coast where street cars, busses or autos pass."
 "Don't hitch on automobiles, street cars or other vehicles."
 "Never play around automobiles or touch any of the levers."
 "Do not fear the traffic officer; he will help you and protect you."
 "Never run behind a standing street car; there may be another car or automobile coming on the other side."
 Those who have given the greatest thought to the whole problem of how to reduce street accidents, are convinced that a major job is to be done in the schools. And that same instruction should be supplemented in the home. Let the home and the school combine to instruct children correctly about the use of city streets and the number of street accidents to children will be reduced. Parents have been known to tell children "to keep in front of the house." If there is a playground near by that isn't good advice. Children told to "keep in front of the house" often find themselves playing in the streets and that's dangerous. Children too should be taught to respect traffic officers and to have confidence in them, not to fear them.

Are You Armed?

What would you do in case of fire?
 One farm building in the United States burns every 15 minutes!

Get a Fyr-Fyter Only \$12.00

C. C. CRENSHAW
 Distributor
 NOGALES, ARIZONA

Real Specials For EASTER

WEATHERFIELD SUITS—High grade workmanship and materials in a variety of distinctive patterns in Tropical Worsted, Gaberdine, Kool Krash and Washable Palm Beaches. **\$15.95**

SHOES AND OXFORDS—We have bought very heavily, expecting a very brisk Spring and Summer business, and have priced our shoes for quick sale. You will find your choice amongst two hundred different styles and patterns. The pick of five nationally known shoe manufacturers, and every pair guaranteed solid leather throughout. **\$8.50**
 \$3.45 to

STETSON HATS—In the entire variety of pastel shades and new colors. Twenty different styles. The quality is known. All **\$8.00**

STANDARD MERCHANDISE SUCH AS

Buckhecht Boots Chalmers Underwear
 Levi-Strauss Overalls and Grayco Shirts, Pajamas
 Jumpers Monito Sox

Rodeo Work Clothes of Quality

WINCHESTER, REMINGTON AND SAVAGE RIFLES
 WESTERN AMMUNITION AND SUPER-X SHELLS

ARMY STORE

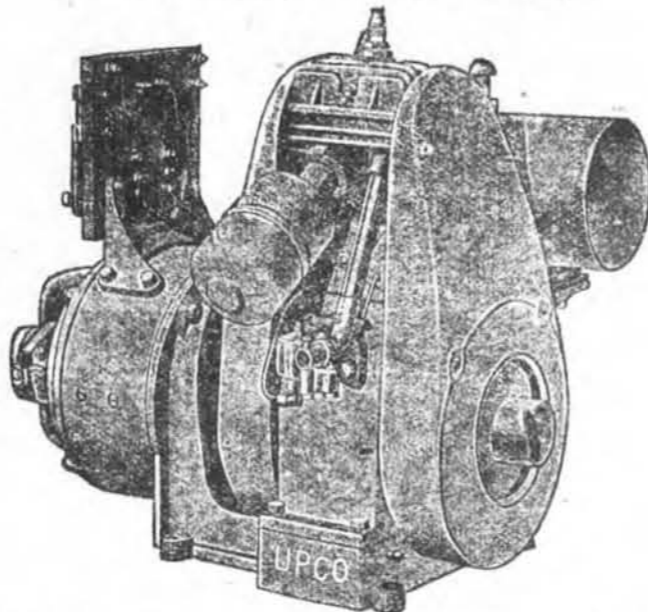
205 MORLEY AVE.

NOGALES, ARIZONA

More for Your Money—Your Money Back If Not Satisfied

The Unit Lighting and Power Plant

With a Thirty-Eight-Year Record Back of It



MAKE YOUR WORK EASIER—YOUR HOME BRIGHTER—YOUR DAYS LONGER—YOUR FAMILY HAPPIER

The UpCo Lighting Unit is a farm necessity, an indispensable utility. Use it a short time and you will never again think of it as a luxury. There's no guess-work or experimentalism about UpCo Light and Power Units. They are time tested and backed by consistent performance records.

Its low initial cost, standardized design, sturdy construction, economical operating, and small upkeep expense, make the UpCo the most satisfactory Lighting and Power Plant Unit for either dealer or purchaser. It's a plant of no regrets.

A Better Unit Light and Power Plant Than the UpCo-Light Has Never Been Built

DEMONSTRATION AND FULL DETAILS AT
BROAD ELECTRIC & RADIO SHOP

104 CRAWFORD STREET NOGALES, ARIZONA

J.C. PENNEY Co.

A NATION-WIDE INSTITUTION
 OUR 25th YEAR OUR SILVER YEAR
 "where savings are greatest"

MORLEY AVENUE, NOGALES, ARIZONA

Easter Styles

These Universal Styles
 At Our Nation-Wide Prices

25th Anniversary

Easter Silk Frocks

Amazingly Low-Priced, Too

Any woman or miss will walk forth proudly on Easter Sunday in one of these dresses—and for many weeks after, as well.

A Score of Styles!

Featuring two-piece styles—the variety is interesting and provides opportunity for satisfaction.

Sizes For Women, Misses and Junior Misses

\$9.90

Flat Crepe and Georgette Printed and Plain

Stunning new patterns are combined with plain colors—navy blue, black and all the popular light and bright shades.



25th Anniversary

Matron Hats

Many Styles



Larger head sizes—and styles that are youthful yet dignified. Straws and transparent braids are the materials.

1.98 to 4.98

25th Anniversary

All Silk Hose

Full Fashioned

Hundreds of women all over the country are wearing our No. 449—all silk, full-fashioned hose in the favored Spring colors. Pair.

\$1.49

On Easter Dawn



THE chords of music are freighted with the perfume of the lilies; the songs that are sung catch inspiration from these sweetest of flowers—the entire genius of Easter is that of the lily. What could the day be without them! As hope opens, and life brightens, and love becomes more enduring, it is the lily that brings these sentiments to their finer fruition. For the lily, is the evangel of the flowers at Easter-tide, and church and home and heart are filled with their beauty and fragrance.

The KITCHEN CABINET

(By 1927, Western Newspaper Union.)
This world that we are livin' in
Is mighty hard to beat.
We get a thorn with every rose—
But ain't the roses sweet?

GOOD DISHES

When serving a roast one may omit potatoes and serve the following bread, eliminating some of the starch in the menu:

Spoon Bread.—Take one cupful of cornmeal, one teaspoonful of baking powder, one cupful of milk, one and one-half cupfuls of boiling water, two beaten eggs and two tablespoonfuls of shortening. Mix the corn meal with the boiling water, one teaspoonful of salt and slimmer ten minutes in a double boiler; remove from the heat, add the yolks of the eggs, shortening, cool and fold in the stiffly beaten whites with the baking powder. Bake half an hour in a hot oven; serve from the dish.

Spice Nuts.—To one cupful of sugar add two tablespoonfuls of butter; when well-mixed, add two well-beaten eggs, one cupful of flour, one-fourth cupful of finely shredded citron, one-half teaspoonful of cinnamon, one-fourth cupful of almonds one-fourth teaspoonful each of allspice and cloves. Mix in the usual order, add flour enough to make into balls the size of hickory nuts. Place on buttered tins an inch apart and bake a light brown. They may be dipped into melted chocolate or in fondant, if desired.

Pressed Chicken.—Boil a fowl in as little water as possible, till the bones slip out easily. Remove the skin, pick the meat apart, mix together the dark and light meat and season the liquor highly with salt, pepper, celery salt and lemon juice. Boil down to one cupful of the liquor and mix with the meat. Butter a mold and decorate with slices of hard cooked eggs on the sides and bottom, also with thin slices of cooked ham and tongue cut into fancy shapes. Pack in the meat and set away to harden with a weight on top. Dip the mold in warm water and turn out carefully. Garnish with parsley.

Popcorn Pudding.—Prepare a custard of two eggs to a pint of milk, sugar and flavoring to taste, and stir in a cupful or more of freshly popped and ground corn. Bake until the custard is set, in a moderate oven.

Tartar Sauce.—Mix one tablespoonful of vinegar, one teaspoonful of lemon juice, one-fourth teaspoonful of salt, one tablespoonful of Worcestershire sauce; heat over hot water. Brown one-third of a cupful of butter and strain into the first mixture.

The traveler who takes his first trip around the world is amazed to find how the older countries of Europe recognize the value of fish and sea food in the daily diet. In the British Isles even the most modest restaurant includes fish on the menu of each meal. The Scandinavian countries are noted for their partiality for fish and sea food. In Paris so particular are they that in some restaurants live fish are selected by patrons from the pools where they swim about.

In America, however, the land where more and better sea food is produced than any other nation, we eat less.

Any fresh fish may be cooked in a chowder, making a most acceptable dish. A snail especially good to serve with a fish chowder is cabbage. Shred a small head of cabbage very fine, dress with vinegar, salt, pepper and a little sugar.

Another equally good is shredded cabbage dressed with cream, sugar, a bit of salt and a dash of vinegar.

Fried Corn Meal Muff.—When preparing mush for the supper of moist and milk make enough so that the following morning the mush may be fried for breakfast. Fry in steers and serve with bacon.

Baked Hash.—Butter a shallow baking dish and pile in the hash prepared with seasoned veal chopped hard-cooked egg also chopped, melted fat and green pepper with broth or gravy to moisten. Bake until crisp.

A nice dish which is liked by to unto lovers is prepared as follows: Place slices of bread in the oven and when well heated butter and serve with the seasoned tomato poured over them. Toast may be used instead of the heated bread if preferred.

Anchovy and Egg Sandwiches.—Remove shells from six hard-cooked eggs, mash and sift the yolks, finely chop the whites, mix with a tablespoonful of chopped parsley, finely chop six anchovies, add to the egg mixture; moisten with mayonnaise or cooled salad dressing.

Society Sandwiches.—Finely chop one package of seeded raisins, two cupfuls of finely chopped pecans, season with salt. Whip double cream, fold in a stiffly beaten egg white, add salt and a dash of paprika. Moisten the raisin mixture with the cream. Spread on thinly sliced buttered bread and serve with orangeade at an afternoon party.

Daddy's Evening Fairy Tale

By MARY GRAHAM BONNER

CITY ADVENTURES

Now whenever Dorothy or Douglas had gone shopping they had always walked into the shop through a door which was on the street. Sometimes they had gone upstairs in the shop—but they had always gone into it in the regular way they had thought.

But this time Uncle John was taking them shopping below the level of the street. For the shops were in the Hudson Terminal building and the street was above them!

How strange it did seem. They had a little money to spend and they decided how much to spend on candy, and how much to save for a soda.

They were picking out their candy as they saw people rushing in, giving orders for all sorts of things under the sun that could be bought and then hurrying out, saying:

"We'll be back for our bundles tonight."

"Can't they stop to get them now?" Dorothy asked.

"They haven't time, I suppose," said Douglas. "I really don't wonder they haven't time. There is so much to see in the Wonder City that sometimes I feel like rushing just that way myself."

"But then we wouldn't see the wonders," said Dorothy. Before Dorothy had finished speaking several people had shrieked, and someone had grabbed them, pulling them back. What had happened? They couldn't imagine!

And everyone seemed so frightened! Just then into the underground store came a horse with a wild bound and rush. For a rather warm mid-winter day had come and the doors had been swung wide open. The people hurried,



Fishes of All Sorts and Sizes.

scurried back of the counter. A runaway horse in the shops below the street level!

How could he have managed it? At last someone caught the horse, no one was hurt and the people were quiet again.

"That doesn't seem so queer to me," said Dorothy. "He probably wanted to give an order for hay and then rush out saying he would be back again in the evening to get it before he left for New Jersey."

"Well," laughed Douglas, "that is quite an idea of yours, but I believe hay is about the only thing they don't sell in these shops. However, I don't think it's queer that the horse wanted to see what was down here."

"Yes," agreed Dorothy, "we've learned from our reader that the horse is the most intelligent animal and I suppose he wanted to see a wonder, too."

And, while Uncle John laughed, too, and joined in their talk, he felt his heart beating a little faster than usual, for he felt it had been a very narrow escape.

He hoped that none of the fishes would do anything wild, for the fishes were to be visited that day.

"Yes," he told Douglas and Dorothy, "at last we're to really pay a visit at the Aquarium. It has been put off quite long enough."

So they all went down to the Aquarium which was at their beloved Battery and which looked out upon New York Harbor.

It was the large building they had passed so many times on their way to boats to take harbor trips.

Inside were tanks filled with water in which were fishes of all sorts and sizes.

"Do you see," said one of the keepers to Douglas, "that the fishes are giving a circus today? They haven't put up billboards as real circus people do, but they have been splashing enough for the past few days for anyone to tell that something wonderful was soon to happen and today they are ready."

Douglas and Dorothy went to the tank where there was a large mother seal.

She was the ring-leader—just like the man in the tall black hat who stands in the center ring at the circus and cracks a big whip.

Instead of cracking a whip, mother seal was splashing.

"Splash, splash, splash, up you go, my beauties." The smaller seals in the next tank were on a board. As the mother seal gave her last signal to splash, off they dove into the tank, and when they swam up again the mother seal was splashing in a way which meant:

"A splendid trick, my children. You are the wonders of the age."

Say This Quickly

Trampling through thistles, Thomas thought, "Those thistles are thick."

Nellie Maxwell

Mother Claims All Can Have Good Health

Colorado Springs Woman, Mother of 13 Children, after Suffering For 20 Years, Regains Health and Strength Quickly. Takes Tanlac



Mrs. Sofia V. Noble, a well-known Colorado Springs woman, living at 805 Bontoy Ave., says: "My experience proves that nearly every one can have good health. After 20 years of despair, pain and worry, I regained health, strength and energy... Thanks to Tanlac." "I had suffered from what I believed was asthma. I would wake up at night coughing and struggling for breath and my daughter would have to sit up with me for hours. The strong medicines I took upset my stomach, spoiled my appetite and put me where I could scarcely eat and retain food."

"A friend suggested that I try Tanlac. I did. And the results amazed me. I began to sleep better, relish my food without suffering from indigestion pains. I gained weight."

"Tanalac was a life saver to me. I now enjoy good health, sleep like a child, go all day without tiring. But I have not stopped taking Tanlac for it is the one remedy for continued good health and

strength. Everyone should take it." Tanlac has helped many Colorado men and women. It is nature's own remedy made from roots, herbs and herbs. The first bottle usually brings relief.

Don't neglect your health, don't suffer from pain needlessly, begin taking this wonder tonic now. Ask your druggist for Tanlac—today!

Arabs Make Good as Desert Police

Because of their exceptional military qualities, more noticeable in the service of the French authorities, the Chamba tribesmen are acquiring a distinction as conquerors of the Sahara.

They are less known to the world than are the Tuaregs, plunderers of the camel caravans and explorers. However, the Chamba are earning a reputation in tracking down the despoiling elements and have made it possible to cross the Sahara from Algeria to the River Niger with no fear of danger.

Staid as the camels on which they are mounted, able to ride over the hot sands for days and nights, stopping only to eat from their little bags filled with dried grasshoppers, and endowed with a keenness of sight that gives them accuracy to their rifles, these nomads inspire a great fear among the plundering tribesmen.

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For correcting over-acidity and quickly relieving hiccough, gas, sick headache, heartburn, nausea, biliousness and other digestive disorders, BELL-ANS has been proved of great value for the past thirty years. Not a laxative but a tested Sure Relief for Indigestion. Perfectly harmless and pleasant to take. Send for free samples to: Bell & Co., Inc., Orangeburg, N. Y.—Adv.

For Harmony Between Britain and America

The first important "hands across the sea" movement, designed to cultivate more cordial relations between Britain and the United States, was launched 20 years ago when the Anglo-American association was established, many men of prominence in both countries being interested and enlisted to the support of the movement.

In 1898 the Anglo-American league was formed at Stratford house in London for the purpose of securing the "most cordial and constant co-operation between nations which are closely allied in blood, inherit the same literature and laws, recognize the same ideas of freedom and humanity, in the guidance of their national policy and are drawn together by strong common interests in many parts of the world."

PERMANENT RELIEF FOR ECZEMA

Best of all is it to preserve everything in a pure still heart and let there be for every pulse a thanksgiving, and for every breath a song.—Gesner.

Important Life Rule

Best of all is it to preserve everything in a pure still heart and let there be for every pulse a thanksgiving, and for every breath a song.—Gesner.



SAY "BAYER ASPIRIN" and INSIST!

Unless you see the "Bayer Cross" on tablets you are not getting the genuine Bayer Aspirin proved safe by millions and prescribed by physicians for 25 years.

DOES NOT AFFECT THE HEART

Safe Accept only "Bayer" package which contains proven directions. Handy "Bayer" boxes of 12 tablets. Also bottles of 24 and 100—Druggists. Aspirin is the trade mark of Bayer Manufacture of Monachweinsteiner Salicylata.

Rejoicing on Easter Sunday

THE heart of Christendom rejoices on Easter Sunday. The entry into Jerusalem on Palm Sunday, the agony of Christ in the garden, the crucifixion and burial on Good Friday—all these are past. Death is swallowed up in victory. Christ the Lord is risen today!

If, as has been suggested, the world Easter is derived from Oster, which signifies rising, then is Easter Sunday, both in name and reality, the feast of the resurrection.

It is more probable, however, that Easter gets its name from Eostre, a Saxon deity, whose feast was celebrated every spring about the time of the Christian festival. A compromise was thus effected, Christians accepting the pagan name and pagans accepting the Christian significance of the day.

Easter is a movable feast. It falls on "the first Sunday after the full moon which happens upon or next after the twenty-first of March, and, if the full moon happens upon a Sunday, Easter day is the Sunday after."

In earlier days Easter was called the Paschal feast, for it was kept at the same time as the Pascha, or Jewish Passover.

So much for the origin of the name. Easter Sunday today is celebrated by young and old alike.

For the children there are rabbits and Easter eggs—and the unrestrained joy of egg hunts in back yards and in public parks.

For the grown-ups there are new suits, new hats.

But surely Easter holds more than this for us. It is not a day of happiness alone, nor of outward show alone. It is a day of victory.

Just as our Saxon forefathers celebrated Eostre and the victory of things physical, so we celebrate Easter and the victory of things spiritual. The heart of man is filled with the beauty of spring's flowers that have sprung from death to life.

The soul of man is triumphant, for it is filled with a spirit which dieth not.

Christ the Lord is risen!

Biblical Story of the Resurrection

IN THE end of the Sabbath, as it began to dawn toward the first day of the week, came Mary Magdalene and the other Mary, to see the sepulcher.

And behold there was a great earthquake, for the angel of the Lord descended from heaven and came and rolled back the stone from the door and sat upon it.

His countenance was like lightning and his raiment white as snow.

And for fear of him the keepers did shake and become as dead men.

And the angel answered and said unto the women, Fear ye not, for I know that ye seek Jesus, which was crucified.

He is not here, for He is risen, as He said. Come, see the place where the Lord lay.

And go quickly and tell His disciples that He is risen from the dead, and, behold, He goeth before you into Galilee; and there shall ye see Him; lo, I have told you.

And they departed quickly from the sepulcher with fear and great joy; and did run to bring His disciples word.

And as they went to tell His disciples, behold, Jesus met them, saying, All hail. And they came, and held Him by the feet, and worshipped Him.

Then said Jesus unto them, Be not afraid; go tell my brethren that they go into Galilee, and there shall they see me.

Then the eleven disciples went away into Galilee, into a mountain where Jesus had appointed them.

And when they saw Him they worshipped Him, and some doubted.

And Jesus came and spake unto them, saying, All power is given unto me in heaven and earth.

Go ye therefore and teach all nations, baptizing them in the name of the Father and of the Son and of the Holy Ghost;

Teaching them to observe all things whatsoever I have commanded you; and, lo, I am with you always, even unto the end of the world. Amen.

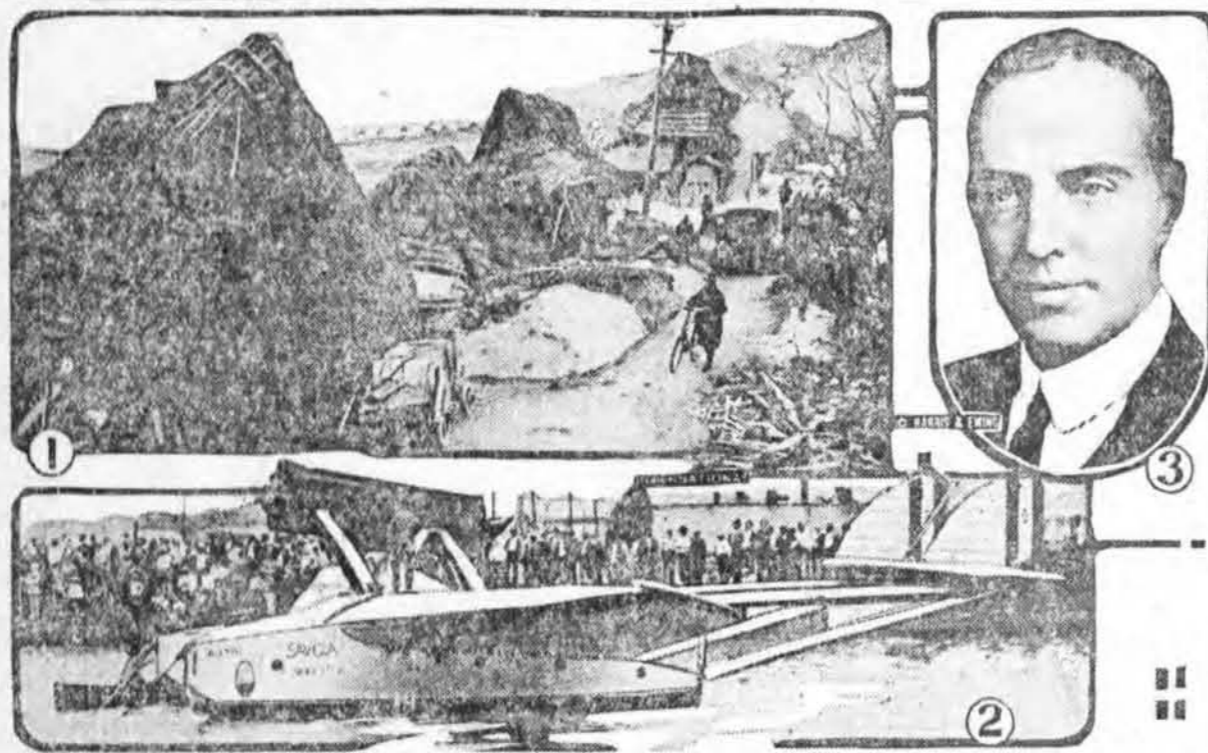
Easter Festival Time of Romance

ASTER has always been the time of budding romance. In all ages numerous festivals have offered opportunities for the swains to press their suits upon the ladies of their choice. There was the "sugar cupping" to which only the unmarried came. The youths and maidens, armed with a cup and sugar or honey, came to the flower-decked well, and dipping the sugared egg into the well, murmured an incantation to the spirit that dwelt there, and then drank the water. The incantation is a secret, but it is believed that the object was to make a wish, and promise allegiance to the spirit, if the wish were fulfilled.

It has long been considered a necessity, on Easter day, to wear something new; otherwise the rooks, envious of human finery, might cause your best clothes to tear. To avoid this the young people of European villages go to the market to buy a small article of wearing apparel. The custom of giving presents, especially gloves, is common in New England. In France the custom of wearing something new prevails to such an extent that every woman considers herself very ill treated indeed if she has not a new cap to wear on Good Friday, and a new hat to wear on Easter Sunday. As a consequence, these days are called the feast of caps and the feast of hats.

On the continent of Europe there are numerous parades, attended by great pomp and splendor. In comparatively recent times the nobleman of the district, accompanied by his suite, rode in state through the town scattering coins pell mell, the peasants standing by, loudly applauding such splendor. In Spain there is the custom of the Easter king, who, wearing a tin crown and flourishing a kitchen spit as a scepter, furnishes a ribald counterpart of the English Lord of Misrule. There is also an ostentatious hanging and burning of a stuffed figure of Judas. After the fire is out the merry-makers dance over it, stamping and scattering the ashes of the effigy.





1—Scene in Yamada, Japan, after recent earthquake in which hundreds were killed. 2—"Four continent" seaplane of Commander De Pinedo of Italy which was destroyed by fire at Roosevelt dam, Arizona. 3—Harold Orville MacKenzie of New Jersey, the newly appointed American minister to Siam.

NEWS REVIEW OF CURRENT EVENTS

Chang's Raid of the Soviet Embassy in Peking Enrages Russia.

By EDWARD W. PICKARD

DEVELOPMENTS of the week in China were in the direction of a possible declaration of war on the Peking government by Soviet Russia, which action might well be followed by a general conflict involving at least some of the treaty powers which have been giving the northern Chinese a certain measure of support in the civil warfare.

Marshal Chang Tso-lin, the Manchurian boss in the north, learned of a plot to start a radical demonstration in Peking, so he obtained from the Dutch minister, dean of the diplomatic corps, permission to enter and search the Russian buildings in the legation quarter. Police and troops occupied the buildings and arrested all the nonofficial occupants—sixteen Russians and thirty-four Chinese. A thorough search of the premises revealed a mass of documents, said to be incriminating, and a quantity of guns and ammunition. The Peking authorities declared the buildings were the headquarters of the Kuomintang political commission, the local branch of the radical party, and the executive committee of the Third International, and that the seizure had averted serious uprisings in Peking which would have affected foreigners.

"The menace at Peking is removed," said Marshal Chang in a message to his generals. "The trouble-makers will be dealt with according to their deserts." Which was assumed to mean that they would be summarily executed.

Moscow's official opinion of Chang's coup has not been made public at this writing, but the indignation in the Soviet capital was extreme. The Russian consul general at Shanghai said the raid was contrary to the law established international law of civilized countries and is particularly dangerous in China owing to the fact that Marshal Chang is likely shortly to be ousted by the Cantonese, who may not be friendly toward certain other foreign ministries accredited to the Peking government.

Two American journalists, Mrs. Mildred B. Mitchell of San Francisco and Wilbur Burton of Columbus, Ohio, were arrested in Peking and transported to Tientsin because they were employed by organizations favorable to the Nationalists.

In Changsha, Kluksang and Amoy anti-American feeling was rife and led to strikes and boycotts. Our consular officials in several places closed their offices and prepared to leave. Meanwhile every effort was made to complete the evacuation of American civilians, and this movement was extended to northern China, the plan being to concentrate the Americans there in Tientsin, whence their removal would be comparatively easy. The Japanese concession in Hankow was attacked several times last week by mobs of natives. Japanese marines were landed and all Japanese families were taken aboard warships, but Japan refused to withdraw from the concession.

The radical faction of the nationalists is growing stronger daily and it was reported that its committee in Hankow had dismissed Chiang Kai-shek, the Cantonese commander in chief. In Shanghai the hope was held that Chiang would refuse to be ousted and would form a moderate party. Later dispatches said Chiang had obtained from the Chinese Bankers' association a loan of \$3,000,000 to finance the campaign in the north against Marshal Chang Tso-lin. The loan was negotiated by the national finance minister, T. V. Soong. The Shanghai vernacular papers said Chiang was defying the orders of the Hankow executive committee and might shortly declare himself dictator, with the financial backing of the Shanghai native merchants and bankers, who fear the domination of the radicals.

The United States and Japan are

still resisting the British plans for a program of active intervention because of the Nanking outrages, and have been formulating instead mere demands for apology and reparations. President Coolidge and his cabinet discussed the situation thoroughly and sent to Minister MacMurray an outline of the American demands. It was believed in Washington that 1,500 more marines would be sent to China within a few days. The British government, as was predicted, has decided to act singly, if necessary, in obtaining indemnity from the Cantonese and has started large military reinforcements from England on the way to Shanghai.

PRESIDENTIAL politics was at the fore last week. For one thing, Senator Moses of New Hampshire asserted positively that Mr. Coolidge would not seek a renomination, though there is no reason to believe that he is in the President's confidence. The Lowden boom was formally started by an Iowa legislative committee which began the formation of organizations in eleven states. This followed the reception of assurance from Lowden that he would forego his desire to continue in private life and would consider seeking the Republican nomination if a sufficient number of agricultural states demand it. With the knowledge but not the consent of Lowden, a movement for his nomination has been undertaken in New York, New Jersey and Connecticut, with headquarters in New York city. The men interested will co-operate with the Lowdens and probably will undertake to raise the necessary funds. Senator Reed of Missouri, chief counsel for Henry Ford in the Sapiro libel suit, took occasion Wednesday when cross-questioning Sapiro to give Lowden some very ill-natured digs.

On the Democratic side the feeling that Gov. Al Smith would be the party's best bet seemed to be growing stronger. Senator Glass of Virginia helped this along in a measure by a public declaration that of course a Catholic could be elected, but he added the assertion that if Smith wanted the support of delegates from the South he must "let the prohibition issue alone." This was taken to be a fair warning from the southern leaders that they will not make religious intolerance an issue but that they will stand firm in the matter of prohibition. Governor Smith's reply to this, as well as his answer to the Atlantic Monthly article asking him to define his future allegiance on religion and government, is awaited with great interest.

PRESIDENT COOLIDGE put a stopper on the Philippine independence movement by vetoing the act of the island legislature providing for a plebiscite on the subject. In a letter to Governor General Wood he asserted that quite aside from economic or political reasons the veto was justifiable on the grounds that Presidential approval might be interpreted as an expression of the American people favoring immediate independence of the Philippine Islands; that the act makes no provision for canvassing all the racial groups in the islands, and that under such conditions the result of the proposed referendum might create friction and would be unconvincing.

The letter stated that the agitation for independence is largely based on the misapprehension that the United States, even though granting full independence, would still assume "the heavy responsibility of guaranteeing the security, sovereignty and independence of the islands."

"In my opinion," writes the President, "this is wholly erroneous."

OUT of the most virulent campaign that Chicago has ever enjoyed, William Hale Thompson emerged victor, being elected mayor on the Republican ticket with a plurality of 82,072 over Mayor W. E. Dever, Democrat. The result was largely due to the heavy vote cast by the negro population of the city and by those who favor a liberal policy in the enforcement of the prohibition laws. There must have been some such reasons, for Thompson's two previous administrations offered few arguments in his favor, and his self-made campaign issues were of such ludicrous stuff as "America First" and abusive attacks

on King George of England and the League of Nations.

ITALY and Hungary, through Premier Mussolini and Count Bethlen, signed last week a treaty which declares "there shall be constant peace and perpetual friendship" between the two kingdoms. All disputes between them are to be submitted to attempts at conciliation, and should that fail, to arbitration. The Italian government regards the treaty as an important step in its program to attain a new balance of power, not for war but for peace. Skeptical correspondents in Rome look on it as part of Mussolini's policy of political isolation for Yugo-Slavia and eventual breaking up of the little entente, and the curbing of France's power in the Balkans. But the Rome newspapers said conversations were going on that might lead to the ratification by Yugo-Slavia of the Nettuno agreement and settle all outstanding questions between that country and Italy.

Sweden and Austria exchanged final ratifications of a treaty which makes war between them illegal under all circumstances. Sweden's safety now seems assured, for she has similar pacts with Norway, Denmark, Poland, Finland, Germany, Czechoslovakia and Belgium.

DISASTER finally overtook Commander De Pinedo, the Italian "four continent" flier, after he got fairly started on the North American part of his tour. At Roosevelt Dam, Ariz., when he was just starting for San Diego, someone threw a litigated match on the oil-covered surface of the water and started a blaze that within a few moments had utterly destroyed the big seaplane that had flown across the Atlantic and over much of South America. De Pinedo and his crew escaped unhurt. The United States War department immediately offered the aviator an army plane to continue his tour but word came from Rome that the Italian government would send over a new plane. So De Pinedo said he would go from California to New York to get the plane and would then fly to Washington, Philadelphia, New Orleans, St. Louis and thence up to Canada.

SACCIO and Vanzetti, whose conviction in Massachusetts in 1921 for murder has been violently protested by radicals everywhere ever since, were denied a new trial by the Massachusetts Supreme court, and their only chance of escaping the punishment to which they will soon be sentenced is the possibility that their lawyer will find some means of carrying the case to the Supreme Court of the United States. The new trial was asked because one Celestino Madrosi, under sentence of death for another murder, confessed that he and a gang of fellow gunmen committed the crime with which Sacco and Vanzetti were charged. The defense always has claimed that the two men were convicted not because the jury thought them guilty but because they were admitted radicals.

EDWARD M. WILKINS, American electrical engineer who was kidnaped for ransom and then murdered by Mexican bandits near Guadaluajara, has been avenged. Seven men who were arrested by the troops and whose leader was identified by Mr. Wilkins' little son, were tried by court-martial, found guilty and executed.

In Mexico City Gen. Federico Cordova and four accomplices were arrested and the general confessed an elaborate plot for kidnaping Americans, partly to obtain ransom and partly to embarrass the Mexican government in its relations with the United States. The first victim was to be Albert E. Watts of New York, the multi-millionaire vice president of the Sinclair Oil company. Cordova is the man whose band in 1919 captured William Jenkins, American consular agent, and obtained \$150,000 for his release.

VICE PRESIDENT DAWES, returned from Panama, ruled that the senate campaign expenditures committee had not lost its power, and appointed Senator Fess of Ohio to fill the vacancy created by the resignation of Senator Goff of West Virginia.

Amplifying Tubes and Selectivity

Negative Grid Bias on R. F. Amplifiers Will Reduce Interference.

By HERMAN BERNARD

(Associate Institute of Radio Engineers)

With selectivity the outstanding consideration of the moment, because stations are so numerous and close together in frequency, much attention has been given to circuit designs that will afford high selectivity. Yet little attention has been paid publicly to the proper use of radio-frequency amplifying tubes so that their contribution to selectivity may be adequately capitalized. The characteristics of such tubes, as well as those of super-sensitive special detector tubes, are such that improper use may impair selectivity.

Selectivity is something most usually associated with receiver circuits, coils and condensers, but the tube is entitled to a just share of the honors.

Selectivity may be regarded as the ability of an operating receiver to restrict reception to only one frequency, or to a very narrow band of desired frequencies, at a time. As the problem arises usually in connection with wave lengths or frequencies quite close together, selectivity enables discrimination among these wave lengths or frequencies, the acceptance of one of them to the exclusion of all others. Thus is inter-station interference avoided. That goal is very important today.

A circuit is selective because its resistance to a desired wave length is very low when the correct dial settings prevail, while the resistance to other wave lengths, at those same settings, is very high.

Now, to make things easy for the desired signal, while maintaining barriers against all other frequencies, you may introduce a negative grid bias on the radio-frequency amplifying tubes. If the usual 67½ to 90 volts are applied to the plates of those tubes. Absence of such bias is equivalent to putting a resistance across the coil or variable condenser in the tuned circuit. The technical term used to describe such a condition in the tuned circuit is that when the tube is used without bias the "input impedance" is low.

The Effect Stated.

The negative grid bias, besides reducing the plate current drain on the "B" supply, whether that supply be batteries or eliminator, increases the input impedance, resulting in decreased damping of the input circuit (grid to filament).

A low input impedance, therefore, is equivalent to adding a resistance in parallel with the tuning condenser, thus broadening the tuning and reducing the voltage built up across the condenser by a given induced signal voltage. This effect may be reduced to a minimum by the negative grid bias. Even so small a bias as one volt helps considerably in improving selectivity, although reducing the plate current only slightly. For instance, the CX-301A, a radio-frequency amplifying tube (which is also a detector and audio-amplifier) draws 6 milliamperes of plate current at 90 volts, with the grid connected to the negative filament, i. e., at zero grid bias.

If the grid is negatively biased only one volt, as by connecting the grid return to the battery side of the rheostat (to minus A), instead of to minus filament, the plate current is reduced to one volt negative grid bias resulting from the drop of one volt in the rheostat.

But at 4.5 volts negative grid bias, again assuming the same plate voltage of 90, the plate current drops to 2 milliamperes, a reduction of 66½ per cent. However, for radio-frequency amplifying purposes some may prefer to use less than 4.5 volts negative bias, the maximum negative grid bias recommended for a plate voltage of 90, because of the somewhat lessened volume resulting from negatively biasing the radio-frequency amplifying tubes to the allowable limit.

The Relationship.

On the score of selectivity the gain even from a single volt of negative grid bias is relatively much larger than the saving in plate current drain, because the increased input impedance is pronounced.

An indirect relationship between the tube and selectivity exists in regard to the CX-300A, the special detector that outperforms its predecessors without being critical as to filament or plate voltage. This tube, which works on the alkali vapor principle, is something new in tube design. Its recommended operating voltages are 5 volts filament and 45 volts on the plate. Preferably the grid should be returned to negative filament. This tube greatly increases the volume of weak signals, for instance, when distant stations are being received, as compared with the results obtained when using a CX-301A as detector. On strong signals the ear does not notice this particular effect so readily.

Hence, if one desires greater selectivity it is possible to sacrifice the volume gain to accomplish the possibly more important end. Looser coupling of the antenna may be employed. One popular method is to place a fixed condenser, say of 0.001 mfd. capacity or smaller, in series with the aerial. Another is to remove turns from the coil that is in the aerial circuit.

Loose Coupling.

The series connection of the fixed condenser consists of joining one side

to the antenna binding post of the receiver, and the other side of the fixed condenser to the antenna lead in the wire that has been removed from the antenna post of the set. The reduction of the number of turns on the antenna coil is a substitute for the series condenser remedy, and is not auxiliary.

The use of loose coupling reduces the detrimental effect of the antenna resistance, hence increases selectivity. Less energy is induced, and volume is comparatively less, where one compares results with a given type of detector tube. But if the 301A is being used as detector, replace it with the 300A and the methods of increasing selectivity may be resorted to, the previous volume still being retained, although the selectivity has been materially increased.

Consider Motor Element in Radio Loud Speaker

In considering the operation of a loud speaker, the reproduced sounds may be referred to as having two properties, i. e., intelligibility and naturalness. In radio broadcasting, not only communication but entertainment must be supplied, and therefore the property of naturalness is very important.

Quality in a receiving set, as outlined in a paper delivered by J. F. Nielson before the Radio Club of America, and published in Radio Broadcast Magazine, is affected by the sharpness of tuning of the radio-frequency stages, by the time constant of the detector circuit, by the characteristic and power capacity of the audio-amplifier, and finally, by the loud speaker itself.

Speech consists, in general, of two fundamental forms of sound, namely, continuents and stops, and their combinations. The former are those produced by the continuous flow of air, such as the letters F, S, etc., while the latter consists of those sounds produced by a sudden stoppage of air, such as is the case with the letters P, B, and M. Speech energy is distributed over a band of frequencies from 50 to 10,000 cycles and if the loud speaker is inefficient on the upper end of the spectrum, the S, T, and other high-frequency sounds, will be missed entirely, or suppressed.

Music is characterized by various harmonics which may be of larger or smaller amplitude than the fundamental. These harmonics distinguish the same note in the same octave as played on different instruments. Musical sounds are sustained at definite frequencies for comparatively long periods and have the change in pitch take place in definite musical intervals, called thirds, fifths, octaves, etc. Musical energy is distributed over a frequency band of from 16 cycles to something over 10,000 cycles per second, and usually has its maximum below 1,000 cycles.

Having considered the nature of speech and music, it is evident that the perfect reproducer should give constant response when actuated by constant audio signal impulses, and be free from resonant effects, or hangovers, of any sort. In the paper published in Radio Broadcast Magazine the loud speaker is considered as a possible source of poor quality. The parts of the loud speaker may be divided into three distinct and separate components, the motor, the connecting mechanism between motor and diaphragm, and the diaphragm or loading device itself. The motor element is one of the most important factors in the production of good quality speech and music, for as it may readily be imagined, the actuating force must be exactly in time with the electrical impulses. There are three different types of motors in common use, the reed type, the balanced armature type, and the moving coil type, any one of which may be used with a horn or cone type loud speaker. The balanced armature and moving coil type both convey the electrical impulse to the diaphragm with greater fidelity than the reed type and are also less inclined to resonate at any particular frequency within the audio range. Causes of distortion in the motor are saturation of armature and pole pieces (due probably to the direct-current component in loud speakers working without an output device), iron losses, hysteresis losses, and eddy current losses. There are, of course, other causes of distortion than those outlined above, but it may be seen from a perusal of the preceding paragraphs that the buyer of a loud speaker should consider the motor element as well as the outside appearance of the instrument.

Radio Interference Due to Leaky Transformer

One of the most bothersome things to an owner of a radio set is the location of a leaky electrical transformer in his neighborhood.

Radio owners of Walterboro, S. C., recently had so much trouble with their sets that the sale of radios decreased considerably. A radio dealer put experts on the job, who spent a whole day going over the city trying to locate the trouble, but it was not until evening, when the electric lighting lines were used, that they found it. It was all centered in a leaky transformer. As soon as it was repaired the buzz-sawing that had annoyed the radio fans disappeared.

Not Long on "Good-Night"

We will say this for the radio announcer: when he says "good-night" he doesn't stand at the door for ten minutes after saying it.—Atlanta Constitution.

SCARF AND TIE GIVE GAY TOUCH; PRINT FROCKS SMARTLY TRIMMED

GAY spring colors are at their gayest when it comes to the scarf, or kerchief square or necktie, either of which is playing a strenuous part in enlivening the smart Twentieth century costume.

Wearing a scarf has grown into a habit with us modernists. If not a scarf, then a modish kerchief square, or at least a boyish tie like the one in the picture.

To choose a scarf has become a matter of unalloyed joy, for there's no quains of conscience as to whether it

print, if you please. More fashionable than ever are gay print fabrics. It is the tiny patterned prints which are holding the center of the stage at present. Perhaps the debut of these diminutive prints was not greeted with the degree of enthusiasm they merited, but the more we see 'em the more we like 'em.

One of the pleasing things about these wee merry-go-round prints is their adaptability to every whimsical and cunning styling. Perhaps that is why the couture of Paris have taken



GAY SCARFS AND TIES FOR SPRING

is too gay, too blarney. No matter if a whole palette of colors were to be used in its hand-painting or hand-blocking, there's no possibility of its offending good taste.

If you aspire to be up to the last-minute mode, you will wear with your new spring tailleur a sarash silk square in gorgeous plaid patterning, tucked under the collar of your coat with the triangular folds arranged at the front, or knotted in cowboy fashion at some effective spot on the shoulder.

What a bevy of artists and craftsmen must be working overtime this spring, to supply this insistent call of the mode for more and yet more hand-painted and hand-blocked scarves. Designs like those in the picture are the fashionable kind and they are made of crepe, of georgette, of sarash or of chiffon. It is quite something worth while, this being able to secure from any neckwear department genuinely

such a fancy to them—they rather challenge the imagination as to what can be accomplished in their fashioning.

The attractive Paris-made gown to the right in the picture, does it not capture one's fancy at a glance? Regardless of its air of unsophisticated youthfulness, it reveals the master-touch in every detail.

Special attention is called to the wide bandings of solid colored silk which trim each of the frocks in the picture. Using plain with print is a widely exploited feature of the mode. This fashion trend toward using solid with figured is variously interpreted, sometimes by complementing a simple one-piece silk print dress with a short coat of plain silk. This is the ensemble type especially favored by the Parisienne for immediate wear.

An elaborate conception of the plain-with-print idea is that of a re-



NOVEL TRIM FOR PRINTS

hand-painted scarfs at a price which ordinarily one would expect to pay for merely a machine-print article.

The favor for muggle effects has resulted in a run on black-and-white scarfs. Now that navy has come into such prominence, navy-and-white hand-blocked types are wresting the honors somewhat from black-and-white.

The vogue for the two-piece suit which calls for the tailored blouse, brings the gay print tie, as pictured, into the list of popular neckwear for spring.

Seems as if everybody is going to appear in print this season—silk

recently designed silk frock of vivid chintz pattern on a black background, the trimming of solid black borderings being handsomely worked with little red beads.

As the season advances it is more and more apparent that blue, especially navy, has become the first choice of smart women for spring. Consequently many silk print frocks are banded with navy, also the accessories which complete the costume are navy. The newest silk or chiffon prints present navy-with-white in keen competition to black-and-white.

JULIA BOTTOMLEY.
(© 1927 Western Newspaper Union.)

BIRD DAYS



IN APRIL
In the shady woodland,
Every tree's a town
Where the birds are building
Houses neat and brown.

Chorus:
From leafy bough just o'er us
Tra la la tra la!
Hear the happy chorus
Tra la la tra la!

Blackbirds in the oak trees
Jangle all the day;
For each saucy birdie
Wants his own sweet way.

Chorus:
From leafy bough, etc.

Down there in the alders,
Dressed in gold and black,
Yellow birds are calling
That they're really back.

Chorus.

Hear the glad song sparrow
On the hazel spray;
Telling all his neighbors
He is home to stay.

Chorus.

Robins in the elm trees,
All in bright red vests,
Dropping bits of music,
Build their downy nests.

Chorus.

And the bonnie bluebird
From the apple tree
Sings from morn to sunrise
"Home's the place for me."

Chorus.

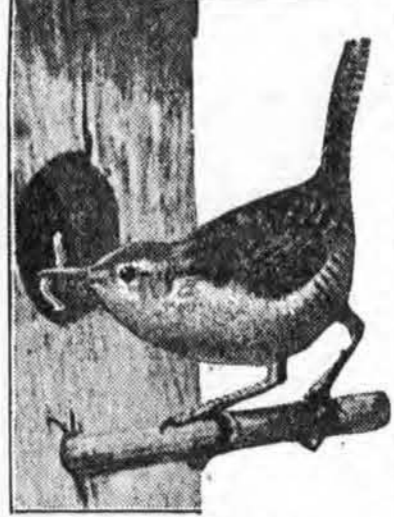
—Old School Song.

By **ELMO SCOTT WATSON**
N NEARLY every state in the Union the governor has already issued a proclamation like this: "That we possess great wealth in our trees and birds in a matter of common knowledge; but this wealth, like many other blessings which we enjoy, is not always fully appreciated, etc." and ending, "Now, therefore, I, _____, governor of the state of _____, in accordance with the provisions of the statutes, do hereby designate Friday, April _____, and Friday, October _____, of the present year as ARBOR AND BIRD DAYS, upon which days suitable exercises may be held to accentuate and emphasize the importance of the propagation of trees, shrubs and vines, and the preservation of our native bird life."

Accordingly, all over the land some Friday (the date varies in different states) this month will find the school children singing just such songs as that which heads this article or otherwise taking part in "suitable exercises." So far as the children are concerned, these exercises may or may not "accentuate and emphasize the importance of the propagation of trees, shrubs and vines, and the preservation of our native bird life," but they enter into them with zest, because they offer an opportunity to express the kinship, which all of us feel, with those elements in Nature which are not hedged in and restricted

he is an altogether different individual. A sort of frenzy possesses him and to the bird lover the flicker's spring song is more beautiful than anything that Mendelssohn ever composed. The same sort of madness strikes his brother, the red-headed woodpecker, and he is not happy until he can find a tin roof upon which to sound his reveille. It's the madness that strikes the red-winged blackbird who seems so full of the spring joy that it pours out of him in an incoherent and jumbled gurgling flood of sound. It hits the kingbird, too, and high up in the air he swoops and swerves, sounding his war cry and looking for a crow or a hawk to put to ignominious flight.

And these are but a few of the birds who add their voices to make the woods and orchards ring. A little later the bird lover will pass the created flycatcher, the phoebe, the



HOUSE WREN

as we hear the first band of wild geese go honking over us some night late in February or early in March. Remember that line from Kipling's, "The Feet of the Young Men" . . . "Who hath lain alone to hear the wild-geese cry?"—and the refrain of that poem

He must go—go—go away from here!
On the other side the world he's overdue.
Send your road is clear before you
When the old Spring-fret comes o'er you
And the Red Gods call for you!

If that cry, heard in the night, stirs the gypsy strain in our blood, it is only accentuated when we see in the sky in the daytime the long V-shaped group of honkers or hear the whistle of wings as a flock of wild ducks sweep over our heads. These are the vanguard of the migrating feathered hordes which we know will soon be on their way north. Then we begin to watch for the first robin and the first bluebird (of course in some of the states which really are "northern states" both the robin and the bluebird are permanent residents, but to most people these two are the true harbingers of spring) and—after that the deluge!

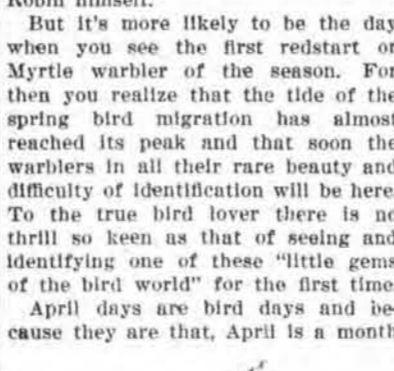
Every April day is Bird day! And every day the birds proclaim that spring is really here. The flicker (some call him the yellow hammer, others the high-hole, others the "gold-winged woodpecker") is one of the busiest heralds of the season. During the winter he is not much given to song, but when spring warms his heart

BARN SWALLOW

meadowlark, the towhee, the barn swallow and the yellow-billed cuckoo by with scarcely a glance. But when they first arrive they are greeted with the same thrill of delight which one feels at seeing an old friend again. So April is a month of mounting climaxes—each day to look forward to because it means the sight of another returning bird friend. Then late in the month comes the big thrill which makes all others seem tame. It may be when you catch sight of the scarlet tanager's flashing beauty or when courtly Lord Baltimore (Baltimore Oriole) first makes his appearance. Or it may be when you hear the song of a robin which doesn't sound exactly like a robin and then, when you get a glimpse of the singer, discover that he is the rose-breasted grosbeak whose notes resemble so closely those of Robin himself.

But it's more likely to be the day when you see the first restart or Myrtle warbler of the season. For then you realize that the tide of the spring bird migration has almost reached its peak and that soon the warblers in all their rare beauty and difficulty of identification will be here. To the true bird lover there is no thrill so keen as that of seeing and identifying one of these "little gems of the bird world" for the first time.

April days are bird days and because they are that, April is a month



MYRTLE WARBLER

to look forward to, a month to enjoy to the utmost while it is with us and a month to look back upon with fondest memory when the heat and dust and stagnation of midsummer comes round again.

Improved Uniform International Sunday School Lesson

(By REV. F. D. FITZWATER, D.D., Dean, Moody Bible Institute of Chicago.)
(© 1927, Western Newspaper Union.)

Lesson for April 17 PETER'S GREAT CONFESSION

LESSON TEXT—Matt. 16: 13-24.
GOLDEN TEXT—Thou art the Christ, the Son of the Living God.
PRIMARY TOPIC—Peter Pleases Jesus.
JUNIOR TOPIC—Confessing Our Faith in Jesus.
INTERMEDIATE AND SENIOR TOPIC—Confessing Christ Openly.
YOUNG PEOPLE AND ADULT TOPIC—What think ye of Christ?

The disciples had been with the Lord for several years. They had heard His wonderful words and witnessed His mighty works. Various opinions were extant about Him. Since Jesus was soon to go to the cross it was necessary for the disciples to have a definite and true conception of Him. In order to help them into the right conception, He provoked this confession from Peter as the spokesman of the group of disciples.

1. Peter's Confession (vv. 13-16).
1. How provoked.
Two questions of Christ put to the disciples called forth this great confession.

(1) Whom do men say I, the Son of Man, am (v. 13).
1. He first inquired for the opinion of the people concerning Him. As a wise teacher He knew that this would help crystallize the view of the disciples. The people recognized Jesus as a teacher or a prophet, with more than human authority and power. Today, as then, there is a diversity of opinion among the people as to Jesus Christ. The multitudes today recognize Jesus as an unique personality and as having been a great teacher, but that which offends them is His deity.

(2) "Whom say ye that I am?" (v. 15).
This question involved the personal opinion of the disciples concerning Him. To be able to tell what others think of Jesus is not enough. There must be definite, correct and personal belief in Him. Personal belief is worth infinitely more than the knowledge of what others think, for upon personal belief hinges character and destiny.

2. What Peter's confession involved (v. 16).
Two vital things, the Messiahship and deity of Jesus. That which Jesus called forth from Peter is the burning question of today. "What think ye of Christ?" is the question that must be answered by everyone.

3. Christ's commendation of Peter (v. 17).
He pronounced him blessed. Truly he was blessed, for he both possessed and confessed Christ.

4. The New Body, the Church, Announced by Christ (vv. 18-20).
Christ declared His intention of bringing into existence a new body, to the members of which He will give eternal life and into whose hands He would entrust the keys of the Kingdom. Peter was to have a distinguished place in this body. Christ declared that Peter should be the foundation stone in His church. Christ is the chief corner stone upon which the church is built. Christ's person and Messiahship were confessed by Peter and on this rock (truth confessed) is laid the foundation of the apostles and prophets (Eph. 2:20). All believers are living stones of this house (1 Pet. 2:5). The keys entrusted to Peter were used on the day of Pentecost and again in the case of Cornelius.

5. The Cross the Way to the Throne (vv. 21-23).
From that time Jesus began to show unto the disciples how that He must go unto Jerusalem and suffer many things, be killed and raised again the third day. This indeed startled the disciples. They did not yet realize that redemption was to be accomplished through the passion of the cross. So unwelcome was this announcement that Peter cried: "This shall not be unto thee." Peter later saw through this darkness to the glory of the hilltops. A new hope then filled his heart (1 Pet. 1:3, 4). Many are yet stumbling over the doctrine of salvation and redemption through the suffering of the cross. Salvation by blood is hated by the devil.

6. The Cost of Discipleship (v. 24).
To follow Christ means to suffer. It means to turn one's back upon the world.
1. There must be denial of self. There is a wide difference between self-denial and the denial of self.
2. Take up His cross.
This cross is the suffering and shame which lie in the path of loyalty to God.

7. Follow Christ.
This means to have the mind of Christ; to be like Christ. Christ will come in glory to reward all such.

The Power of God
Many a battle has been won by the arrival of reinforcements. When a man is fighting a battle against his evil tendencies, the coming of the power of God into his soul often means victory. The human reinforced by the divine assures us of heaven.—Herald of Gospel Liberty.

Nature
Nature has a power to show what is inside of a man that responds to God on the outside.—Echols.

POULTRY

DIRECTIONS FOR SETTING A FOWL

In setting a hen the first thing is to make the nest. A box should be so arranged that the front can be closed and the hen shut onto the nest. The nesting material may be of fine hay or straw. There should be a sufficient quantity to fill the corners. Make the nest nearly flat, a little lower in the center.

See that the hen has been broody and stays on her nest two or three days before she is given her new nest, and always move her at night. Put her carefully on the nest. For the first 24 hours close the front of the box. After a day or two, according to the disposition which she shows on the nest, remove the nest eggs and give her from eleven to thirteen eggs, according to the season of the year.

After the first 24 hours see that the hen leaves the nest at least once a day for food and water. Whole corn makes the best feed. Keep a dust box in the pen. Keep grit and fresh water before them at all times.

Set several hens at a time if possible, as the eggs can be tested about the seventh day. Remove the eggs that do not show a good germ. Take the eggs from one hen and replace these and start her on fresh eggs.

Always give the hen a dusting with some good lice powder before placing the eggs under her, and sprinkle a good quantity in the nest material. Give her a dusting again in ten days and also another dusting a few days before the hatch is due.—E. J. Peterson, North Dakota Agricultural College.

Cleanliness Essential in Growing Chickens

Next to proper feeding there is nothing so essential in growing chicks to vigorous, profitable layers and breeders as cleanliness. Be sure the feed is of the highest quality and not moldy, dusty or damp.

If wet washes are fed, care should be taken not to feed leftovers as a wet mash will soon sour or mold. Mix only enough for one feeding at a time and if there is any left, feed it either to the mature fowls at once or give it to the hens. Be sure the troughs or boards that the wet mash is fed on are kept clean. No matter how sour or moldy the mash may be, the chicks will eat it if they are hungry enough, and bowel trouble will be the inevitable result.

The litter should never be allowed to become damp as nothing will cause brooder pneumonia quicker. When the chicks are first put in the brooder house or under the hover, an inch and a half of litter will be enough, but as they get old enough to really scratch, the depth of the litter will have to be increased to seven or eight inches.

The milk fountains or vessels should be washed every day and thoroughly sterilized throughout the summer. The water fountains should also be washed frequently and care be taken to give the chicks clean, fresh water every day.

Caught at Last

An old kirk elder, on reaching home, appeared very disconsolate, and his wife asked what was wrong.

"Oh," he replied, "I've telt a lee."

"Well," she remarked, "that needna bother ye. Ye've telt a lee mony a time."

"Aye," he said, "but I've been found out this time."—London Tit-Bits.

Maybe Less Than That

Ranter—I expect to make a furor with my Hamlet.

Frank Friend—Oh, more than a few, my boy—the entire audience.—Montreal Star.

His Specialty

Fish—How do you like being a cop?
Lobster—Fine. I can pinch everybody!

Poultry Hints

Do not place the incubator up against the walls. Let the air circulate freely around it.

Alfalfa is one of the best vitamin-containing feeds for the hen. When a high grade of alfalfa leaf meal can be obtained, the amount equal to 10 per cent of the mash mixture can be fed.

Early pullets are the most profitable because they begin to produce eggs in the fall and lay through the winter season. As everybody knows, the fall and early winter eggs always bring profitable prices.

The poultry business was not intended for persons who become discouraged easily, or at trifles. Beginners are liable to make a good many mistakes, but these if looked at in the right light only tend to stimulate one.

One disadvantage of the early chick is the cold weather, making extra heat necessary for chicks.

Market only strictly fresh eggs. If you find any that you are in the least doubtful about, put them in the basket for home use, where they can be looked after.

Although promiscuous and yearly additions of new blood is undesirable, an occasional introduction is advantageous where the poultryman does not have time to trumpet his stock.

The early hatched chicks, if the pullets are kept for egg production, are most likely to make good egg producers.

An egg is two-thirds water, and nothing contributes more to high egg production than a constant and abundant supply of water.

Embsen and Toulouse geese are the best commercial breeds; standard weights, 20 pounds for the gander and 18 for the goose and young gander, 16 for young geese.

A Few Little Smiles

LUCKY FOR HIM

There lives an old negro truck farmer in Alabama who has frequent occasion to reproach his children for their lack of industry. "Yo' suttinly is a wuthless son," he declared one day to his oldest. "It's a doggone good thing fo' yo' I ain't rich."

"What yo' talkin' about, pap?" asked the youth. "What yo' think yo' do at yo' was rich?"

"Ah'd disinherit yo'—dat's what Ah'd do!"

PREPARING TO DEPART

"Why do you think he's not long for this world?"

"He's taking lessons on the harp."

His Sapient Spouse

Hub—Why do you think I'd better take up fencing instead of boxing? If I were attacked I shouldn't have my fowls with me.

Wife (triumphantly)—That's no argument. You probably wouldn't have your boxing gloves with you, either.

Mild Satisfaction

Little Man—Look here, did you say that I was not a man of veracity?

Burly Chap (trucelessly)—No, I didn't. I said you were a liar.

Little Man—Well—er—it's just as I supposed. It isn't possible for you to make the simplest statement of fact in a gentlemanly manner.—Boston Transcript.

Toy Industry Booming

In twenty years the American production of toys has grown from a little over \$5,000,000 to \$80,000,000. Also the toys are infinitely better, for where the imported ones were formerly made of flimsy tin and lead those now made in this country are mostly of pressed steel and tough wood, well fitted to stand the rough usage of childhood.

Mother and Daughter Have Same Experience

Hartshorne, Okla.—"For some time I was rundown in health and really sick with feminine trouble. Dr. Pierce's Favorite Prescription was the one remedy which relieved me of suffering from headache and pain in my side. It made me well. My mother used to take the 'Favorite Prescription' and I cannot explain why I tried other remedies when I knew how satisfactory the 'Prescription' was to mother. Just a disposition to try something else, I suppose. I will always prefer the 'Prescription' in the future."—Mrs. Martha Williamson, Box 324. Obtain Dr. Pierce's Prescription, liquid or tablets, from your dealer.

Heals Eczema in 7 Days or Less Or Your Money Back

Here is a surgeon's wonderful prescription now dispensed by pharmacists at trifling cost, that will do more towards helping you get rid of unsightly spots and skin diseases than anything you've ever used.

Not only does this great healing antiseptic oil promote rapid and healthy healing in open sores and wounds, but boils, abscesses and ulcers that are discharging are almost immediately relieved and cleanly healed.

In skin diseases its action is little less than magical. The itching of eczema is instantly stopped; the eruptions dry up and scale off in a very few days. The same is true of barbers' itch, salt rheum and other irritating and unsightly skin troubles.

You can obtain Moore's Emerald Oil in the original bottle at any modern drug store. It is safe to use, and failure in any of the ailments noted above is next to impossible. Your druggist can supply you at any time.

Bunions

Quick relief from pain. Prevent shoe pressure. At all drug and shoe stores.

Dr. Scholl's Zino-pads

Put one on—the pain is gone.

Linting Tips

(Copyright 1927)

Here's the secret of giving lingerie, stockings, etc., the most gorgeous tints. All tints are really colors. So use real dyes. Get an envelope of the actual dye powder at any drug store, for fifteen cents. Do your own diluting, which saves money and gives you the exact shade you want.

Diamond dyes do perfectly beautiful tinting—in cold water. A dip, and it's done. And true dyes don't streak! Dye-tinting doesn't look weak, however delicate a tone you use; nor does it wash out unevenly. When you want the tint to be permanent, just use boiling water instead of cold!

Regular dyeing of all dress materials, drapes, etc., just as easy. Ask druggist for color cards and suggestions. Or, a wealth of ideas in full colors, in new book Color Craft free and postpaid; write DIAMOND DYES, Dept. N30, Burlington, Vermont.

Diamond Dyes

Dip to TINT—Boil to DYE

Original Package

The life-saving crew had just pulled the man's wife out of the surf at Balboa beach. She was unconscious, rescued while going down for the third time, and the husband was consumed with anxiety.

"Shall we apply artificial respiration?" asked the life guard.

"No," belittled the trembling man. "She's all I have, and I want you to use the real thing!"—Los Angeles Times.

Sure Relief

The great value of Bell-Ans in the relief of digestive disorders of the stomach and bowels is proved by its substantial increase in use every year for the past thirty years. Promptly and properly taken, we have never known it to fail. Send for free samples to Bell & Co., Inc., Orangeburg, N. Y.

Perfectly Harmless to Young or Old

BELL-ANS FOR INDIGESTION

25c and 75c Pkgs. Sold Everywhere

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BOBOLINK

by all the conventions and superficialities of "civilized" human life. The true Nature lover . . . not the "ain't Nature grand?" person, but the one whom the beauties of Nature make silent, rather than vocal . . . needs no governor's proclamation to make him aware of Arbor and Bird Days. To him every April day is Bird

Lost Bill Found

An undelivered bill, sent 42 years ago by mail from St. Louis on the river packet St. Genevieve to a small settlement on the Missouri river was returned only a few days ago through an unusual set of circumstances to H. B. Spencer, son of the sender, who is now dead. Since 1885 it had lain on the shelf of a log cabin post office at Red Landing, Mo.

H. M. Edmunds, a friend of Spen-

cer, was on a hunting trip in the vicinity of what had once been Red Rock landing. While tramping through the woods he unexpectedly walked into a clearing in which there were six decaying and deserted log cabins. One was a post office, its dust-laden letter compartments containing undelivered letters, yellow with age. In one of them he found the bill sent by the father of his friend.

The bill, inclosed in a red envelope, smacks of a bygone age. In flowing handwriting it is addressed to C. F.

De Lassus, Esq. It asked for payment of \$34 for 16 sacks of wheat, shipped by Harlow, Spencer & Co., of St. Louis.—St. Louis Post-Dispatch.

Influence of Spirits

The time will come when it will be proved that the human soul is already, during its life on this earth, in a close and indissoluble connection with the world of spirits, that their world influences our and impresses it profoundly.—Immanuel Kant.

Selwood of Sleepy Cat

By FRANK H. SPEARMAN

WNU Service.

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STORY FROM THE START

At Sleepy Cat Doctor Carpy tells Wentworth, freighting boss, of a shooting scrape in Bartoe's gambling den, in which John Selwood, gambler, in defense of his wounded partner, Dave Tracy, shows remarkable skill and nerve. A year afterward, Selwood, now Wentworth's representative at Sleepy Cat, comes upon a settler whose wagon has mired in a creek. He helps get the outfit clear, after picking up a girl's shoe and seeing and being attracted by the supposed owner thereof in Fyler's (the settler's) wagon. Moses McCracken, a youth, is robbed of \$600 in a Sleepy Cat gambling den. Selwood forces the swindlers, Bartoe and Atkins, to return the money.

CHAPTER IV—Continued

"What's that?" demanded Selwood, with a shade more of life and carelessness in his tone—"If Tracy said that—"

"Not doubting your word at all, Selwood—not at all. But somebody in a town like this always has to act as peacemaker—you know that. The boys seemed to pick on me for the job. It ain't much of a job, nor one I was looking for. But I was foot-loose and took it to oblige. I found I was getting all the kicks and the boys getting all the money, so I asked them to chip in down along the line. Most of 'em did. Tracy and a few others didn't—"

"Wasn't Tracy the only one that didn't?" asked Selwood impassively. "That may be—I don't remember. But I never had any hard feeling against Tracy on that account. I want you to know that, Selwood. You seem," continued Starbuck with some irritation, "to want to stick to that subject. I didn't come here tonight to rake over old scores; I came here to try to patch up new ones. Selwood."

"Before we get out the stinking plaster," Selwood went on evenly, "let's get Dave's position clear—and mine. Dave felt that a place run like this place, where a straight game is dealt, didn't need any protection—neither the place nor the proprietors. It may be he made a mistake, but that's the way Dave felt—that's the way I feel. Now about this Bartoe business. He robbed today, among others, a boy here with his widowed mother, of six hundred dollars. I told Bartoe to give the boy back his money. He refused. I told him I'd clean him out in the morning or he could clean me out. There's no use of more words about it—that's all there is to it."

"Well, I wouldn't say that's all, Selwood," observed Starbuck, asserting himself. "You here to keep law and order and I can't have any places burned in the business quarter of Sleepy Cat. He's in the gambling business same as you are—"

Selwood jumped as if stung, and used a strong word. "Same as I am!" he echoed angrily. "Do I send out fallbirds like Atkins to drag men in here to rob them? What do you mean?"

It needed all of Starbuck's diplomacy to quiet things down. He rehearsed Bartoe's defense. He urged good feeling—all to no purpose. He found he could make no impression whatever on Selwood's firmness. He rose at length, indignant. "I see I can't reason with you. If anything unpleasant happens—don't hold me responsible!"

"Not if you keep out of it," observed Selwood, unperturbed. "I'm here to keep the peace, not to 'keep out,'" retorted Starbuck, rising to his full height before his troublesome customer. Selwood rose in turn. "I believe you left Thief River just before I went there," he said calmly. "You had some trouble regarding claim signs."

Starbuck blazed. "What do you mean?" he demanded. "Miners will travel all night to round up a claim jumper. But I feel exactly as you do, Starbuck. Why rake up old scores?"

"As far as I'm concerned," exclaimed Starbuck, advancing hotly, as Selwood purposely retreated, "if you mean the bunch that tried to jump my claims down there—bring on your miners!"

"I'm not much on old scores, Starbuck," said Selwood soberly. "I don't think we're going to have any trouble here—not you and I, anyway. Our teamsters can take care of Bunty's outfit tomorrow. I'm riding down to Thief River myself tonight on business and I've told McAlpin to keep a horse saddled for me. But I shan't start till eleven o'clock. I expect before that Bartoe will have that six hundred here. Drop in any time, Starbuck. Always glad to see you."

With this judicious and even-handed mixture of threats, hints, "anyways," and small talk, Selwood let Starbuck go, with feathers once more unruflled. But neither had fooled the other in the slightest degree. Both understood it was only a possible preliminary to situations that might carry far into the future.

At one minute past eleven o'clock Selwood left the gambling hall for the barn. His pony was waiting. Climbing into the saddle he headed south for the Thief River road, trying out the new pony's steps. He had crossed the river bridge and was swinging out on the Spanish slinks when he heard the clatter of hoofs behind him. A horseman riding fast overhauled him and he looked around to greet Bob Scott. Scott reined in beside the gambler, with his pony on its haunches. "The money's up," he grinned. "You won't need to bother the miners."

They rode back at a leisurely pace, put up their horses, and walked together up the hill. Selwood got the money, counted it, handed it to Scott, told him where to find the owner and deliver it. "Tell her to get her boy out of town before somebody else gets it away from him," was his only injunction.

"If there's any human scum in the whole blamed United States that ain't landed in Sleepy Cat," grumbled Carpy, "it must be because they ain't heard of it yet."

Doctor Carpy was an educated man, who knew quite well how to speak good English. But, like many another frontiersman of his kind, he had caught the slovenly English of the men with whom he was thrown in contact.

"Now look at that coat," he continued, calmly aggrieved. "I bought it new at an auction yesterday! Last night I rode down to see a sick teamster at the bunkhouse—one o' your men, Selwood. While I was fixing him up it began to rain. When I started for home I put on the coat. By that time it was raining all-fired hard. I lifted my whip to touch up the horses, and the whole sleeve parted at the shoulder joint! When I reached around to see what the matter was, the other sleeve fell clean off. When I stepped out of the buggy, the coat came in two right across the back! Look at it!"

With some violent punctuation of his complaint, the doctor, who in Sleepy Cat never by any chance received more than the first syllable of his professional title and rarely his surname, was telling John Selwood of how he had been cheated.

"Where did you buy the coat?" asked Selwood, though less moved as a listener than the doctor was as an orator.

"Down at that new place—opposite the warehouse—in the old bunkhouse. A man named Fyler is running a dry-goods store there. And Big Haynes is running a mock auction, on one side of the store. Come on down. You lick Haynes and I'll lick Fyler!"

The two men were talking in the one-story building adjoining and communicating with the hotel, that bore the small wood sign—known as the "shingle"—of the sole doctor in Sleepy Cat or within a hundred miles of Sleepy Cat—an open-headed, profane, and not always cool-headed surgeon, but one whose failings were in rough measure redeemed by a generous heart and the benefits of a skill free, without question, to all comers.

Selwood, travel-stained and dressed in the rough gear of the trail, had evidently just come in from a trip over the division and sat listening to his friend with the air of a man who has more serious matters on his mind.

"How is Dave coming on?" he asked, without responding to Carpy's flippant invitation to help "clean up" the new trader.

The doctor, one elbow on the table, scratched his head. "Hang Dave," he said, perplexed, "he ain't coming on. I can't get any life into him. It's close to a year now since he got hurt. But you've got to remember, John, he's an old man, and put in three years in the Army of the Potomac. Now, look at you. The first time Dave came to see me, a year ago, to get some medicine for you he said you were in the last stages of consumption. It wasn't so; but you were headed that way all right. Look at you now—spry as an antelope."

"You took good care of me," Carpy disclaimed. "Good" care nothing. It was this dry mountain air—not too high and thin, neither—that took care of you; and you're young. Now, Dave is just teeterin' along—wound all healed up, but just kind of slow paralysis. Nothing I can put in him seems to pull him up. It sure was hard to get what he got here in Sleepy Cat, after three years in the army. This town is certainly tough—and getting tougher."

"It was tough before you and I saw it, Doctor; and it will be tough after we're laid up on the hill," replied Selwood indifferently. "If you can pull Dave through you'll save one good man for it—if he is a gambler."

"Where you going?" "Down to the tent," Carpy understood what he meant—that he was going to see his wounded partner. Tracy had been moved from the gambling-hall to quieter quarters on the edge of the tent colony of the town.

As the two men parted and Selwood walked down the hotel steps, a tall, odd-looking man accosted him. "Stranger," he said with a suspicious air, "I'm lookin' for John Seltzer."

Selwood answered promptly if not definitely. "What do you want with John Seltzer?"

"I'm a Russell and Wentworth mule boss, stranger, from Medicine Bend. This man Seltzer is our superintendent here."

"You're William Pardaloe—" "Just plain Bill, stranger—Bill Pardaloe—what do they call you?"

"It depends somewhat, Bill, on who does the calling; my friends call me John Selwood."

"Then that's what I want to call you, stranger—I don't give a hang who you are or what your name is—we're friends."

Selwood looked Bill over with some curiosity. He was an unusual man even among unusual men. In his left hand, with the stock resting on the ground, he held, as he talked, a double-barreled shotgun, of a size and calibre unique in the mountain country. It was, in fact, an old eight-gauge English gun with barrels thirty-six inches long. Its normal charge, as Selwood

Margaret Hyde, indeed, courted no acquaintance. Many women passed through Sleepy Cat, but among the few that called Sleepy Cat their abiding place she walked alone. She was housekeeper at Doctor Carpy's hotel; a hard-working housekeeper under the hardest possible conditions; but she stuck to her job and walked her way—alone. And cold and hard though she was, she was never too tired to bring delicacies to the ailing or to sit up at night to care for a sick teamster.

On this morning that Selwood parted from the frangible surgeon, Christie Fyler, leaving her own tent to go up street, caught sight for the first time of a new visitor at the sick man's tent. This was Selwood. No day passed, indeed, without Selwood's seeing Tracy; he made his visits usually in the early evening, before going to the hall. On this particular morning his anxiety had got him up early—for him—that is, before noon, to see Carpy and discuss his friend's chances. From the tent Selwood walked back to the hotel for his own breakfast and dinner—usually one meal. On the way he had to pass the old building made over into a store by the trader, Fyler—the man of whom Carpy had so feelingly complained—and passing, Selwood, moved by an impulse of curiosity, looked in.

A midway auction was in progress. Before a counter, where Selwood entered, was gathered a small crowd of men—emigrants, settlers, teamsters, and loafers; while on the counter, red-faced and in his shirt-sleeves, stood Big Haynes, running an eloquent auction. The bidding was good, stuff was moving briskly. At the rear end of the counter Fyler, behind a dry-goods box, was wrapping up purchases and taking in the money. It looked like a queer combination to Selwood, the new trader and the two Sleepy Cat worthies, but he had no comments to record on that point, either to himself or to any one else.

He shouldered himself through the crowd without hesitation or difficulty—whenever his shoulders encountered an obstacle, the obstacle gave way. He walked straight to Fyler, holding out a handful of soggy scraps of black felt. A bedraggled hatband hung from his wrist. "Look here, Haynes," he thundered. The auction stopped. "Here's the hat you sold me yesterday." Cole added, in no uncertain tones, Haynes gave him prompt attention. "That's what the rain did to it!" belted Abe.

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to getting well; in consequence, the newcomers encroached on his privacy until the Fyler tent was pitched almost back to back with his own; and all that Christie had ever heard of her neighbor's tent—a larger and better tent than the others—was that it sheltered a sick gambler. Christie saw at times an Indian-looking man coming and going from the gambler's tent, and at times a woman—who came daily from somewhere—to bring broth and to tidy up the quarters of the wounded man.

Once Christie, at her own work, had caught a glimpse of this woman's face. She was not old in years, but her complexion, ruined by the sun and the winds of the mountains, made her look old. Her features showed traces of an earlier beauty, and her elastic step proved her health and strength; it was care and unhappiness that aged her expression. Her eyes fixed themselves in Christie's memory; they were dark, rather deep eyes, with a hard look, as if of hope, like her youth, faded. Meeting her again in the street, as the two passed on their ways, Christie had paused to ask a question. The response had been cold—not calculated to invite acquaintance.

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Selwood, listening to Big Haynes' thundering praises of his wares and complaints of the astonishing coldness of his buyers, used his eye about him. He saw that the stock was of a sort not infrequently shipped to the frontier because out-of-date elsewhere. It was desperately ill-sorted for the needs of western men, though it might have suited western women, had there been any number in Sleepy Cat to suit. Selwood edged gradually over to where Fyler was at work wrapping goods near the money till. He remembered then that he had some business with Fyler.

"You seem to have the best part of the job," he said presently, and solely because he wished to talk to him.

Fyler looked up without recognizing his benefactor of Crawling Stone wash.

"How's that?" "Next the money drawer." Fyler laughed. "Mighty little in it!"

"My name's Selwood," said the gambler, without raising his voice. "I look after the Russell and Wentworth freight here. My wagon boss tells me we're short some goods for you in the last shipment."

The trader looked at him with a new interest. "You were; twelve cases of boots—all I had coming; just about put me out of business. Where were they lost?"

"They weren't lost. They were stolen. I came in to get a description—when you're through with the sale."

As he spoke, a man that would invite attention entered the front door. He was short, almost squat in stature, and square-built—practically everything about the man could have been measured by a right angle. He was smooth-faced, his head was square, his forehead square, his shoulders square, his feet broad and square, and his jaw was square. He walked slowly and planted his hob-nailed boots squarely before him. His legs were short, his arms long, and he would have disputed build with a gorilla and strength with a grizzly. This was Abe Cole, the Sleepy Cat blacksmith. Other blacksmiths there were in Sleepy Cat; but Cole was known as and designated as the Sleepy Cat blacksmith.

Fortunately he was as peaceable as powerful when not aroused, but his disposition was naturally positive, and he was known as a fighter.

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Odd Method of Travel Called "Ride and Tie"

Salmon P. Chase, Lincoln's secretary of the treasury, showed financial ability early in his life. When he went from his New Hampshire home to Worthington, Ohio, to live with his uncle, he was accompanied by an older brother as far as Cleveland, where he was given instructions as to how to reach Worthington. Finding that he had to wait several days for a coach to take him as far as Medina, he obtained a canoe and earned several dollars by ferrying people across the Cuyahoga river, relates J. H. Galbraith, Ohio historian. In Medina he met two young men from Worthington, whom he was to accompany on their return trip. They had come on horseback, so young Chase was introduced to the "ride and tie" method of travel.

One of them would mount the horse and ride forward several miles, of course outstripping the one who walked. Then the rider would dismount and tie the horse by the roadside and press on by foot. The other would reach the horse, mount it and pass his companion, would tie it and go ahead on foot. In this way the horse was spared a double burden and the travelers made good speed.

Land of Lottery
Lottery tickets are sold in Madrid just the same as newspapers are sold on the streets in the United States. One is never out of range of the lottery ticket seller. Everybody indulges in this dissipation, and there is ample opportunity for there is a state lottery distribution every two weeks. There are official agencies, but these seem to be patronized only by those who buy the tickets to sell again. Ordinarily purchases are made of the persons along the street who call their wares just as the huckster and newsboys do, and as the day for the drawing approaches they grow more and more excited, each one claiming that he is about to sell the lucky ticket. Hucksters are the best salesmen, for there is a superstition that these persons bring or give luck.—Chicago Journal.

Few "Wild" Horses
As a wild animal, the horse is found only in the open arid or desert plains of Central Asia and Africa. Those found in North and South America and Australia are not true wild horses. The mustangs and broncos of our West and of South America are domesticated animals that have run wild, or those descended from them.

WEEKLY South-West NEWS ITEMS

The city of Clayton, N. M., is considering an extensive paving project for city streets this year.

Preaching the gospel of co-operation, seventy-two members of the Los Angeles chamber of commerce visited Arizona points last week.

A loss which will total more than \$50,000 was caused by a fire which threatened for a time to destroy a large portion of the business district of Des Moines, N. M.

Several quarts of sacramental wine were consumed by a burglar or burglars who ransacked the vestry room and closet at St. John's Episcopal church at Globe recently.

A new Arizona industry made its initial bow during "Trade at Home—Use Arizona Products Week" with the first deliveries of waxed "letruce liners" from the new paper-waxing plant at Benson.

Fire recently damaged the machinery and stock of the Carlisbad Current Argus print shop to the extent of \$1,500. The fire was caused by spontaneous combustion. Most of the damage was done by water.

Announcement was made in Tucson recently through the Tucson chamber of mines, of the sale of the exposed Reef mine, in the Patagonia region to Messrs. Wilson, Welby and associates for the price of \$75,000.

The Gadsden Arizona State bank failed to open its doors a few days ago and its affairs are now in the hands of the state banking department. Total assets of the institution were listed at \$115,000.

A new strictly modern power plant is to be constructed in Dawson to serve the mines and community, according to announcement by W. D. Breena, manager of the Stag Canon branch of the Phelps Dodge corporation.

Demand for the 1927-28 hunting and fishing licenses, which were sent out from the New Mexico state game warden's office at Santa Fe for distribution, is great this year, according to State Game Warden Edgar L. Perry.

During the regular meeting of the Normal regents held in E. Las Vegas, the board authorized the employment of eight additional teachers who for the most part will consist of special instructors during the coming summer season.

Historical points on the National Old Trails will be marked with monuments erected by the Daughters of the American Revolution and efforts are being made by the Clifton Commercial Club to have such a monument placed at the northern terminal of the Coronado trail, in Springville, it was announced in Clifton recently.

It took the jury fifty minutes to reach a verdict in the case of the State vs. Joan Drake and George Ball, tried jointly in the Grant county district court at Silver City, for the slaying Nov. 19, 1926, at Deming, Luna county, of Night Marshal John J. Noonan, 67-year-old peace officer. Guilty of murder in the second degree was the verdict as to both defendants.

Three of ten children who ate "wild parsnip" roots during recess at the Los Vigiles rural school four miles north of Las Vegas are dead and seven other children suffered terrible agonies in convulsions despite efforts of a large corps of doctors at the St. Anthony's hospital and sanitarium in Las Vegas. The dead are Salome Sanchez, 7; Melaguis Ortega, 9; Ursula Megillas, 7.

Cooper and Dinkle, Southern Pacific railroad mechanics of Yuma Arizona, have just received their first United States patent on their grease guns for locomotives. These grease guns will revolutionize the greasing of locomotives and will do away with all hand work. The Southern Pacific company have been using these grease guns for more than a year on divisions out of Yuma.

George Carrion, a clerk in the post office at State College, near Las Cruces, N. M., is under arrest there on charges of stealing registered mail and rifling ordinary mail. R. B. Munday, postoffice inspector in charge of the T aver division, was notified recently. Inspectors J. L. Cooper of Albuquerque and A. W. Deming, Roswell, who made the arrest, say Carrion has confessed.

The immediate expenditure of approximately \$350,000 in development of properties of the Tornado Gold Mining company has been authorized by the company officials as a result of the recent rich strikes made on claims in the Dripping Springs mountains between Winkelman and Globe. James J. Gerard, well known Phoenix engineer and president of the company, announced recently in Phoenix.

J. Frank Curns, Wagon Mound lawyer, has been appointed attorney for the state tax commission, according to announcement of Chairman Nathu Jaffa of the commission in Santa Fe. A total of \$49,822.74 was expended by the eighth New Mexico state legislature, according to figures tabulated in Santa Fe by Rupert F. Asplund, director of the State Taxpayers association, the whole comprised of compensation for per diem and mileage of the house and senate, printing of bills, etc., salaries of employes and other miscellaneous expenses.



Your Kidneys Must Function Properly For You to be Well

LATE hours, rich foods and stimulating drinks are all hard on our kidneys. If their action becomes sluggish, they do not thoroughly cleanse the blood of poisonous wastes. Such impurities may make one dull, tired and achy, with often a toxic backache, drowsy headaches and dizziness. A common symptom of imperfect kidney function is scanty or burning excretions.

Thousands have learned the virtue of Doan's Pills, stimulant diuretic in these conditions. 50,000 users have publicly recommended Doan's. Ask your neighbor!

50,000 Users Endorse Doan's:
Lambert W. Cox, Westover, Md., says: "Doan's Pills proved their value to me. My kidneys acted sluggishly and the secretions were scant and scalding. There was such a soreness across my back that I couldn't bend or stoop. I was told to use Doan's Pills and shall always be glad that I did. They put me in fine shape."



The Sad Part

"Where is the young man you said gave such promise?" "He began to slight his work; was continually tardy. I had to let him go." "He didn't give you a square deal." "That doesn't worry me. He didn't give himself a square deal."

Must Give Vacations

The grand duchy of Luxemburg is the only sovereign state in the world that has a law making it obligatory for all employers to give a vacation with pay to all their employes. The Luxemburgers are proud of being in the van of progress.

Sweet Pickup
The purchaser of a house in Cavendish, Vt., received a bonus of twenty pounds at the time. The house had been unoccupied for several years. He found the honey in the chimney and was able to collect it in good condition.

If shoes pinch or feet ache— are tired and sore— just shake ALLEN'S FOOT-EASE THE GREATEST HEALING POWERS into your shoes! At Drug and Toilet Goods Counters

Deafness—Head Noises RELIEVED BY LEONARD EAR OIL "Rub Back of Ears" INSERT IN NOSTRILS At All Druggists. Price \$1. Refer about "DEAFNESS" to report, A. H. LEONARD, INC., 70 FIFTH AVE., N. Y.

50 Gallons (Bulls \$1. Special assorted blood and flea range puts on the big fat wild hay cuts 1 to 2 tons acre; 1 to 7 ml. 2 lbs.; 5 hours big stockyards; no droughts, cyclones, blizzards or poison plants. Cattle and sheep make money here. Write for booklet, Interstate Land & Live Stock Co., Narcisse, Man., Canada.

(CHAFING and RASHES promptly relieved and healed by a few applications of Resinol

Green's August Flower For Indigestion, Dyspepsia, etc. Relieves Distress after Hurred Meals or Overeating. Being a gentle laxative, it keeps the digestive tract working normally. 30c & 90c. At all Druggists. G. G. GREEN, Inc., WOODBURY, N. J.

RANCH RIGHT Cheap feed, short haul, no taxes on live stock, unlimited water and free range puts on the big fat wild hay cuts 1 to 2 tons acre; 1 to 7 ml. 2 lbs.; 5 hours big stockyards; no droughts, cyclones, blizzards or poison plants. Cattle and sheep make money here. Write for booklet, Interstate Land & Live Stock Co., Narcisse, Man., Canada.

BABIES LOVE Mrs. Winslow's SYRUP The Infant's and Child's Regulator Pleasant to give—pleasant to take. Guaranteed purely vegetable and absolutely harmless. It quickly overcomes colic, diarrhoea, flatulency and other like disorders. The open published formula appears on every label. At All Druggists