

The Newest Notes of Science

There are about 80 operations in the manufacture of a gold pen. Almost every known variety of metal is found in Newfoundland. Forty-one of the states maintain geological or similar officials. A French engineer has developed a petroleum motor in which no carburetor is needed. With fuel saving in view, a new cereal cooker can be inserted in the top of a tea-kettle. A British inventor has patented a lamp to hold them firmly. Electrical apparatus with which violet ray treatment can be given at home has been invented. Ceylon produces nearly every precious stone known, except diamonds, emeralds, opals and turquoises. Wire handles to be fastened to mattresses to facilitate moving them have been patented by a North Dakota inventor. London's electric lights are provided by about thirty companies, which supply current at voltages ranging from 110 to 240. An acetylene flashlight for railroad crossing gates, ignited by a pilot light as a gate is lowered, has been invented. An English artist sketches submarine scenes by descending with a diver's helmet and using waterproof paper and crayons. Harness that holds chickens' wings down and prevents them flying away from home has been patented by a Missouri woman. Efforts are being made to produce textiles from the strong fibre of the silk grass that grows wild throughout Honduras. A new electric room heater that is portable is about the same size as, and in general appearance resembles an electric fan. According to a French electrician the temperature of the carbon filament in an incandescent lamp approaches 2,900 degrees. Recently invented paint brushes are fitted with adjustable handles that can be set at any angle desired or removed entirely. By a new French process aluminum can be so substantially nickel-plated that the metal can be hammered and bent without cracking. An inventor has patented a guard to be fastened to the back of a man's head to enable him to shave his neck accurately and safely. Cyprus has revived its former native tobacco industry, producing tobaccos suitable for cigarettes of Turkish and Egyptian types. In an Illinois inventor's double-acting churn turning the handle revolves the paddles in one direction and the barrel in the other. In a Paris aerodynamic laboratory for testing model airplanes wind speed up to 71 miles an hour are produced by ingenious machinery. A handsaw invented by a Californian has two teeth at the end of the blade to prevent it slipping when leaned against a wall when idle. The Cuban government will erect a lighthouse at Santiago powerful enough for its light to serve as a beacon for mariners 50 miles away. Metal bellows in the bottom of a new oilcan permit a steady stream of oil to be poured from the spout as long as the bottom is pressed. The hours, halves and quarters are spoken by an English clock which has a photograph with a very durable record as a part of its mechanism. Pressing down the top of a new holder for boxes of safety matches opens the bottom, into which cigar ashes and burned matches can be placed. Water from the condensers in a German electric plant is piped a mile and a quarter to a public bathhouse to save the expense of a heating plant. A cylindrical piece of abrasive material with grooves around it of various widths has been patented by a New York man for sharpening edged tools. Natives of Madagascar make a wax with many uses by beating the leaves of the raffia palm to dust, boiling this to a cream and allowing it to cool. Candles made of metallic magnesium and aluminum for taking motion pictures at night project their light about 33 times as far as ordinary are lights. Spain has established at Seville a nautical school for boys who have received an elementary education, with special courses in piloting and engineering. Something like a life sight is a device invented by a Minneapolis man to be attached to a split plane's cap to enable him to address a ball accurately. About eighteen per cent. of the area of France is under forest, which is managed by the government to prevent overcutting and obtain the maximum timber production. By hydraulic mining gravel is obtained from a bank in Michigan, screened, washed and loaded on wagons ready for road building without the use of hand labor. The latest plan for draining Holland's Zuider Zee contemplates the construction of an embankment 182 miles long and work that will take 33 years to complete. For drying towels or clothing there has been invented a band to be clamped around a hot water boiler, carrying hooks on which to hang the articles to be dried. English tests with radium to aid plant growth have shown that it is most effective when used in the proportion of one seven hundredth of a gram to a ton of soil. An Ohio man's racing automobile has a hood so high that a driver cannot see over it and is equipped with a series of mirrors to enable him to watch the road ahead. A French scientist of high standing has advanced a theory that many unexplained fires at sea and explosions on warships and in mines are due to stray wireless waves. Statistics gathered from colleges throughout the country show that residents of the United States, both men and women, are growing taller, more robust and stronger. To permit escape from steam or gas filled rooms in emergencies a water-seal exit has been invented, a tank filled with water being installed beneath the floor, a wall extending into the water preventing the passage of steam or gas. The position of rector of the Trivet Memorial Church, Exeter, Ont. Rev. Robert Hamilton, former pastor of St. Enoch's Church, Toronto, has received a call to the First Presbyterian Church, Stenter, N.C., U.S.A. The position of Field Secretary for Baptist Sunday Schools in the Maritime Provinces has been given to Rev. I. W. Williamson, of Vancouver, B.C. The ladies of St. Paul's Anglican church, Toronto, used up 500,000 yards or 14 miles of surgical gauze in their surgical dressings during the last year. The British and Foreign Bible Society recently sent a New Testament and Psalter in Spanish to every lighthouse keeper in the Philippine Islands. A memorial for Capt. Scott and his five companions, which is to be placed in St. Paul's Cathedral, will be unveiled by Premier Asquith shortly after Easter. After one year's work the National



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al Evangelistic Campaign in Japan reports that over nine hundred meetings were held with a total attendance of over 160,000. Captain, the Rev. W. R. Ball, wounded on the firing line, was chaplain of the Edmonton Battalion and formerly a worker in the Archbishop's Western Canada Fund. The Christian Literature Society of Japan issued nearly 8,000,000 pages of printed matter during the past year. It is chiefly supported by the missions working in that country. The congregation of the Century Baptist church, Toronto, worshipped in their newly equipped and freshly decorated church last Sunday after worshipping in the school room for some time. A family Bible belonging to the late Judge Thomas Hughes, author of "Tom Brown's School Days," has been presented to the Rugby School Library by the will of an old Rugby boy. One of the most orthodox of the Presbyterian churches in Scotland is contemplating the licensing of laymen to preach, the ranks of ordained pastors being so reduced owing to the war. Rev. George A. Schulte died at his home in Newark, N.J., recently, at the age of 77. Since 1893 he has been secretary of the General Missionary Society of the German Baptists of North America. A pastor, writing to the Presbyterian from northern France, says: "One day I read the 'De Profundis' to a dying German Catholic as the priest was away. We have only one religion, that of pity, which is saving us from hatred and despair."

A GOOD MEDICINE FOR THE SPRING Do Not Use Harsh Purgatives—A Tonic is All You Need.

Not exactly sick—but not feeling quite well. That is the way most people feel in the spring. Easily tired, appetite feeble, sometimes headaches and a feeling of depression. Pimples or eruptions may appear on the skin, or there may be twinges of rheumatism or neuralgia. Any of these indicate that the blood is out of order—that the indoor-life of winter has left its mark upon you and may easily develop into more serious trouble. Do not dose yourself with purgatives, as so many people do, in the hope that you can put your blood right. Purgatives gallop through the system and weaken instead of giving strength. Any doctor will tell you this is true. What you need in spring is a tonic that will make new blood and build up the nerves. Dr. Williams' Pink Pills is the only medicine that can do this speedily, safely and surely. Every drop of this medicine makes new blood which clears the skin, strengthens the appetite and makes tired, depressed men, women and children bright, active and strong. L. R. Whitman, Harmony Mills, N. S., says: "As a tonic and strength builder I consider Dr. Williams' Pink Pills wonderful. My whole system was badly run down, and although I faithfully took a tonic given me by my doctor I could not get improvement. Then I began Dr. Williams' Pink Pills and was soon restored to my old time health. I can most heartily indorse this medicine." Sold by all medicine dealers or by mail at 50 cents a box or six boxes for \$2.50 from The Dr. Williams' Medicine Co., Brockville, Ont.

PERFECT HEALTH IS EVERY WOMAN'S BIRTHRIGHT.

A Prescription That From Girlhood to Old Age Has Been a Blessing to Womanhood. "MARRY." All alone and lonesome—I'm feeling pretty blue, So I'll close my eyes, dear Mary, and think real hard of you. I can almost see your face, as you said how proud you'd feel If I'd enlist—that settled it, about the "Soldier" deal. You said you'd surely miss me, but preferred to see me fight. Then to stay and read the war news, about the Allies' might. Your loving prayers you promised would follow all the way, To Belgium, France or England, and help me win the day. You've urged me on to duty, you're an angel to my life. A heroine sublime, dear, in this, our hour of strife; For you're my little "Partner" who waits at home for me; Patient sweetheart Mary—you are mine across the sea. In the trenches threatening there, amid the cannons' roar, When the tumult's terrifying, thoughts fall to rise no more, Mingled with the dead, and dying, daring still to face the Huns, March our heroes, yet undaunted, waiting to hear "Shoulder guns!" When the war is over, and our hearts with joy o'erflow, We'll extend our sympathy to the boys who couldn't go. I'll feel proud and happy as I take you in my arms. And whisper to you, Mary, after all, "War has its charms." The cheerful and willing taxpayer is the exception, not the rule. Some people seem to be Christians, on a limited capital of piety.

PERVERTED ATTITUDE OF GERMANY REVEALED IN ITS PULPIT SERMONS.

Which Show That Hun Preachers Have Murder, Not Even Half-Hearted War, in Their Hearts. In the Methodist Times, of London, Eng., the Rev. William Burgess (Roma), general superintendent of the Wesleyan Methodist Missions in Italy, contributes a translation of passages taken from the sermons of leading German preachers which have appeared recently in German newspapers. Mr. Burgess thinks there is no better way of getting an insight into the strangely perverted attitude of the German mind touching the present war than by reading such extracts. Pastor Zoebel, speaking in the great Lutheran Church of Leipzig, referred to the German guns beating down the children of Satan, and to German submarines as "instruments to execute the Divine vengeance," to send to the bottom of the sea thousands of the non-elect. "There ought," he said, "to be no compromise with hell, no mercy for the servants of Satan—in other words, no pity for the English, French, and Russians, Italy, contributes a translation of passages taken from the sermons of leading German preachers which have appeared recently in German newspapers. Mr. Burgess thinks there is no better way of getting an insight into the strangely perverted attitude of the German mind touching the present war than by reading such extracts. Pastor Zoebel, speaking in the great Lutheran Church of Leipzig, referred to the German guns beating down the children of Satan, and to German submarines as "instruments to execute the Divine vengeance," to send to the bottom of the sea thousands of the non-elect. "There ought," he said, "to be no compromise with hell, no mercy for the servants of Satan—in other words, no pity for the English, French, and Russians, Italy, contributes a translation of passages taken from the sermons of leading German preachers which have appeared recently in German newspapers. Mr. Burgess thinks there is no better way of getting an insight into the strangely perverted attitude of the German mind touching the present war than by reading such extracts. Professor Rheinold Seeby, a teacher of theology in the Berlin University, preached in the cathedral of the city, said that in killing their enemies, burning their houses, and invading their territories the Germans still performed a work of charity. Divine love was seen everywhere in the world, but men had to suffer for their salvation. Germany loved other nations, and when she punished them it was for their good. Pastor Fritz Philippi, Berlin, preaching from his Protestant pulpit on the Divine mission of Germany, said as the Almighty allowed His Son to be crucified that the scheme for redemption might be accomplished, so Germany was destined to crucify humanity, in order that its salvation might be secured. The human race could be saved only by blood, fire, and sword. "It is really because we are pure that we have been chosen by the Almighty as His instruments to punish the envious, to chastise the wicked, and to slay with the sword the sinful nations. The Divine mission of Germany, oh, brethren! is to crucify humanity. The duty of German soldiers, therefore, is to strike without mercy. They must kill, burn, and destroy, and any half-measures would be wicked. Let it then be a war without pity. The immortal and the friends and Allies of Satan must be destroyed, as an evil plan, unproved, Satan himself, who has come into the world in the form of a great power (Britain) must be crushed. On Germany is laid the Divine command to bring about the destruction of those who are the personification of evil. When this work is finished, the kingdom of righteousness will be established on the earth, and the German Empire, which will have created it, will remain its protector." And the saddest part of it all is that there are poor, deluded dwellers in Germany who open their mouths and swallow the devilish teaching of those preachers, who have murder, not even half-decent war, in their hearts.

SUMMARY OF 1916 LEGISLATURE

The Reforms Accomplished by Rowell And Liberal Party. Although still in opposition the Liberals, under the leadership of Mr. Rowell, actually obtained many reforms in the Legislature this Session, with the result that such a Conservative paper as the Hamilton Spectator, for example, contains the following item: "Scott Davidson, Liberal M. L. A. for North Brant, in speaking at London on Saturday, claimed that N. W. Rowell was practically leading the Legislature. Quite a few people will consider the remark is more than half true." Among the reforms accomplished this session by Mr. Rowell and the Liberal party are the following: Prohibition. Establishment of a Trades and Labor Branch. War Resources Committee. Northern Ontario Development. Hydro Power for Eastern Ontario, as well as for the west. Equal treatment for Ontario citizens in the armies of the Allies. Substitution to the House of T. N. O. and Hydro accounts. On the other hand, among the proposed reforms advocated are: Radical programme of social reform in aid of the workmen and the working women. A thorough-going advance in agriculture. Destruction of the patronage system. Government control of nickel. Heavier taxation of private land drainage in taxation of farm property. Moral blindness makes many of us mistake vices for virtues.

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PULPIT, PEW, PARISH

GLEANINGS 'MID THE CHURCHES AT HOME AND ABROAD. "Tom Brown's Family Bible"—Archdeacon's Golden Wedding.—Laymen May Preach in Scotland.—A Christian College for women was opened at Nanjing, China, last October. The Salvationists have opened a home for refugees from Poland in Petrograd. Newmarket Presbyterian church was opened forty-one years ago last February. 105 men have enlisted from the congregation of St. Paul's church, Port Arthur. The Ven. Archdeacon and Mrs. Beer of Kasto, B.C., celebrated their golden wedding recently. The Church of the Redeemer, Toronto, celebrated the wiping off of their mortgage debt. Nearly 300 French missionaries have been withdrawn from China since war broke out. Rev. M. A. MacKinnon, of Regina, a Queen's graduate, has been made Doctor of Divinity by the Manitoba College. About 95 per cent. of the members of the Kindersley Presbyterian voted in favor of Church Union. On the last Sunday in March Montreal street Methodist church, Montreal, celebrated its eighty-second birthday. Rev. Andrew Moffatt, Salford, Man., has given his family of three to the service of King and country. Evangelist Alex. Torrie and his wife have been conducting services in Montreal and that district for the last month. The Salvation Army is abolishing its famous "bread line" in New York. Too many neversweats patronized it of late. Rev. W. A. McTaggart, of Toronto, has been conducting special services in St. Paul's Presbyterian church, Winnipeg. Pte. A. E. Longmore, son of Rev. J. Longmore, incumbent of Homefield, Man., parish, died last week of pneumonia. The Grande Ligne Baptist Mission for the French in the province of Quebec was founded by Madam Henrietta Feller in 1835. Dr. Duval resigned as pastor of Knox Presbyterian church, Winnipeg, last month after twenty-eight years of service there. The Grand Duchess Tatiana's Fund is financing the relief expedition which the Russian government has organized for the Armenians. Rev. D. Currie, D.D., of Beaverton, Ont., has been nominated as professor of pastoral theology in the Montreal Presbyterian College. Rev. A. A. Trumper, rector of St. Thomas' Church, Dover, has accepted

JOHN THIRTYACRE. I swallowed a large tooth in April, 1910, and it lodged in my lung. This developed into tuberculosis. Four doctors treated me but I gradually became worse. Then my sister learned of Nature's Creation and got the medicine for me. When I began taking Nature's Creation, I was having night sweats continually, pains in my chest and both lungs. Several physicians said I could not live over 30 days. After taking the first bottle of Nature's Creation, a wonderful improvement was noticeable and I continue to improve. I weighed 107 pounds; now 130, and never have had any return of the old trouble.

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