Industrial and Commercial Review

Prospecity Tide - Keeping Step with Progress - The Various Susiness Contorns Appearing in this Review Edition Respectfully Solicit Your Patronage When in Eugene.

dies and Gents Tailors.

The stock includes all kinds of repairs and parts for motorcycles and bicycles and everything else that you would expect to find in a modern and women to be received in the Section—They Employ a Wide Catronage from a Wise Section. DeLux Tailoring for Men and Women Leccitory.

and surfounding sections an opportion of the state and in this edition adaity to get suits that are distincted we are glad to compliment Messrs. in hi, style and workmanship, Here the individuality, which all men seek and so few and, is easily obtainable, en comparison with other garments that are offered but that do not give the wearer all he likes. To be attred correctly-to feel at ease in clothes that fit perfectly—is every man's desice. Individually tailored to measure clothes from this store set a standard of quality that has only been approached by the most exclusive tail ers of London, New York and Chi-

Yet they cost little, if any more than do ready-to-wear clothes.

you will be surprised at the results they attain. Mr. W. W. Moore, in charge, is a prominent business man, and it is a pleasure for him to meet all customers and to show new ones his establishment and what they offer. He as always connected with propositions

The Smith-McKern Cycle Co.

Part of Oregon, and is the Sales Agent for the Famous Indian Mo-

the location in its midst of complete were most reasonable, and up-to-date stores and shops. The Messrs. B. H. Will and W. H. everything in the motorcycle, bi-sistants are men who take an inter-cycle or general accessory line at est in the city and the aurrounding the above institution adds to the territory and are at all times concommercial efficiency of this county, nected with propositions that will add From a modest have enlarged this establishment un- part of Oregon. til it is now as complete as any in Therefore we are pleased to com-this section. There is no city many pliment them in this reviw and ad-

Moore and Moore, La- stock and service than that placed at your disposal by this establishment. The stock includes all kinds of re-

and the new models are now on dis-play. These are of international reputation and have triumphed in many an these days when prices are so contests both for speed and indur-bign at behaviors every man to see ance. The management joins the man-must the is getting the greatest return ufacturer in challenging the trade to kor his money when he invests in a produce machines which will equal

gensione to any community. Inat is way we are good to refer you to this way we are good to refer you to this way we are good to refer you to this and all work they place their personal guarantee. In this county that is a sufficient sign of quality and working the man of this ways been a booster for this section of the state and in this edition. Smith and McKern upon the accom modation and efficiency of their work

Eugene Auto Top Co.

An Up-to-Date Establishment in Ev ery Respect. Located at 742 Charnelton St., Eugene, Where They Specialize in Seat Covering and Auto Top Building.

It is a fact beyond question that a modern establishment of this kind is a great asset to a community such as A specialty is made of seeing that Eugene they are experts when it your suits fit you properly and even comes to seat covering and top makthough you be out of proportion in ing and there you can get it done some way, yet if the workmen from when you want it and when they tell this shop design, cut and fit your suit you they will have it done for you.

If you want any special kind of covering or any original ideas carried out for you this is the place to go for anything there is to do in this line they can do. And the materials used are the best on the market.

In their auto top department they have won well merited commendation that are for the public good and in through their modern methods and this review we are glad to give him the excellent work turned out. There the place he deserves in the business is nothing that mars the looks of a motor car to such an extent as a shabby and worn out top. The top wears out more quickly than any wears out more quickly than any other part of your car and after a year or two of service it is necessary to replace it with a new one. Some people think that it necessitates the purchase of an absolutely new top. One of the Leading Bicycle and in your midst they can completely rebuild your old one and turn it out in as good shape as the day that you bought it.

Agent for the Famous Indian Bio-torcycle—Has a Large Patronage after they have equipped it with a new top or repaired it you will feel like you have a new car. You will When you drive away in your car One of the things that make any that the materials and workmanship. city a desirable place to live in is are the very best and that the prices

that one can get anything and Ehlen, the proprietors, and their asbeginning, they to the growth and expansion of this

times the size of its home that offers vise all our readers to call on them sis citizens a better or more complete when in need of anything in this line.



Radio Instructor in Lane Technical High School, Chicago, and Her Class.

PROGRESS OF RADIO

THROUGH THE YEARS

Wireless Research Began Long Ago, But Development Has Been Swift Lately.

Wireless research started many years ago, as far back even as 1827. Even the radio telephone is not a recent perfection; rather it is that introduction to the layman of the human voice and music has suddenly popularized something that wireless men had thought a pastime or amusement. Here is the chronological record of wire-

1827-It was found that the magnetic discharge from a leyden jar would magnetize a steel needle.

1831 — Electro-magnetic Induction

was discovered between two entirely eparate circuits by Michael Faraday. onden, England, and Morse of the United States take out first patent for

electric telegraph. 1838 K. A. Steinhell of Munich suggested that a system of wireless telegraphy could be established after ale discovery of the use of the earth

1840 Joseph Heary (U. S. A.) pro duced the first high-frequency electric oscillations, and stated that the condenser discharge is oscillatory.

1842 - Wireless experiments were made by S. F. B. Morse by electric conduction through water across Washington canal and across wide

1843-A wireless system for transatlantic communication was suggested. 1845-Water was used as a conducting medium in wireless experiments

across a wide river. 1849-Intelligible alguals were ually went across a river 4,500 feet wide in India, but the cost was found prohibitive for commercial use.

1867-The electric waves that are now utflized in wireless telegraphy tion was kept up constantly for 12 and telephony were predicted in an

address before the Royal Society in London, England.

1880-The sending of an electric cur rent through earth was systematically studied by John Trowbridge of flarvard. It was found that signaling might be carried on over large

1885-It was found that telephonic speech could be conveyed by induction over a space of quarter mile. This experiment took place in England.

distances between places not connected

180 Electric waves were suggested as being particularly suitable for the sending of signals through

1892-An instrument for the detec tion of electro-magnetic waves was discovered which was given the name

of a "coherer." 1894-A scientist of Berlin signaled through three miles of water.

1895-High frequency waves excite curiosity of Senatore Marconi,

1836-First patent for practical wireless transmitting system is taken out in London by Marconi. Afterward, successful signaling was carried out over distances as great as one and one-quarter miles. Sir William Preece of the British postoffice system interested his cohorts in Marconi's wireless experiments.

1897-Marconi establishes communication between points four miles distant. Halloons were used to suspend antennair.

Merconi demonstrates his wireless system before the king of Italy, communicating with two Italian warships nine miles distant.

The first Marconi station is erected on the Isle of Wight and experiments conducted over a distance of 14 miles. Near the end of the year the first floating wireless station was successfully operated.

1808 The first paid marconigram was sent from the Isle of Wight

station. 1899 Reports made on lighthouse accident by radio. First French gunboat is fitted with radio apparatus. In Vienna communication between two balloons is established. New York Heraid receives radio report of international yacht races. The British war office introduces Marcont appropriate into the South African battlefields, 1999 German yessel communicates a

distance of 60 miles by radio signals. 1901-Radio communication started with five islands in the Hawaiian group. The first British ship is fitted with the wireless telegraph.

1902-Radiograph signals received abourd vessels at sea at 1,500 statute miles. Signals received from a distance of 2,000 miles.

1903-King Edward receives a rudio message from President Rousevelt, High-power stations were ordered by the Italian government. First transatlantic radio message sent. Telegraphic news service for ships at sea is started. Marconi knighted in Rus-

1904-The first press message was sent across the sea.

1906-Patent suit started in New York between the Marconi and De Forest company. Patent for horizontal directional

serial is taken out. This was a great step forward in long-distance work. 1906-International conference is held in Berlin, at which most of the countries of the world are represented.

1907-The use of steel disks for producing notes were successfully Radio stations in Ireland and Nova Scotla were opened for limited public

1908-Radio stations opened for unlimited public service between Great Britain and Canada.

1909-Steamship in collision with another off the coast of Florida sucreeds in calling assistance by radio. 1916-Marconi receives messages 6,700 miles while on board ship going

Spanish radio company formed 1911-Canadian government leased

to South America.

radio stations for 20 years. 1912-Radio distress signals from the Titanic bring assistance and save lives of 700 passengers.

1913-Tests were made between the Eiffel tower in France and the station at Washington. During the trip into Central Asia an explorer received his longitude and time signals from a distant radio station.

1914 Marconi and radio officials. start test of wireless telephone between vessels of the Italian fleet. The test was continued between vessels on the high seas and voices were heard with clarity at a distance of 44 miles. One day radio telephone communicahours. Great Britain declared war

upon Germany August 4 and all prirate radio telegraphy and telephony suspended.

1915-Radio communication between America and Japan is completed. The stations were located at San Francisco and Tokyo with a relay station at Honolulu.

The American Telephone and Telegraph company succeeded in radio telephoning from Arlington station at Washington to Hawall, a distance of bearly 5,000 miles.

Secretary Daniels of the United States navy transmitted telephonic messages from Washington to the Brooklyn navy yards.

1916-President Wilson and the mikado of Japan exchange messages over the new transpacific radio service, which is formally opened.

1917 Senatore Marconi visits the United States and aids greatly in recruiting for radio operators for the

United States army. 1918 Wireless telephony progressed

rapidly being used to a great extent in the equipment of airplanes.

Several new long range stations were erected in the United States, it being claimed for one built at Appapoils, Md., that it was capable of communication at 4,000 miles. The United States government also opened & highpower station at Bordeaux.

In September of this year radio signals sent from a point 12,000 miles away were received in Sydney, Aus-

1919-With the exception of the three transatiantic flights-that of the U. S. NC-4, and the British flights of Alcock and Brown and the dirigible R-34, in which radio communication played an important part in keeping the ships of the air on their coursesno very great progress was made in radio telegraphy, sittiough radio tele-

phony was being pushed along quietly. Restrictions upon amateur receiving and sending were lifted by the American government.

1920. This was the year of the radio telephone, more attention probably being paid to this branch of radio than to its older brother, telegraphy. Several broadcasting stations were opened. 1921-This year was another radio telephonic year. It was marked by

stations.

the opening of numerous broadeasting

Fahrenheit.

DEFINING THE PICTURE SPORT SECTION WHERE DEEDS COUNT

Pen Portrait That May or May Not So Irving Bacheller Pays Glewing Trib-Se Very Much Overdrawn er ute to His Home, the "Glerieus Caricatured. Sun-Kissed West."

her man companion.

in the most perishable of colors and

fabries, bathing suits that won't wet

and rubber picture hats that would

make you drown if they were caught

by a wave. That's the picture sport.

togs; she never swims in her water

suit; she never rides or hikes in her

breeches; she never plays tennis in

her becoming tennis skirt. Oh, no.

but she sails in to tea with the rest

of us after the games are all over

and we are hot and red and covered

with perspiration and sits flown to

the table as fresh as paint, giving us

the once over for being so blown and

blowsy looking. She fans herself

and makes up with her vanity case

BETTER THAN NO EXCUSE

Watch her!"-Chicago Journal.

weather we've been having!"

HYDRAULIC HORSEPOWER

The combined hydraulic horse-

power of the United States and

Canada is 50,000,000, or slightly

more than that of Europe. The

power developed both in the United

States and Canada, again, is slightly

greater than the grand total for all

of Europe. The percentage of power

lized by Great Britain in proportion

The possibilities of future wealth

in the United States in this respect

are amazing. In a single month the

country was 1,226,770,000 kilowatt

duces twice the hydraulic power of

ural resources, this wealth, it is en-

conraging to temember, may be in-

A CAREFUL ESTIMATE

The recruit was anxious to get a

noncom's billet in the Tenth artil-

ing him a preliminary examination.

pound shell burst into?" asked the

"How many pieces will a 12-

The recruit did some rapid-fire

thinking. He rubbed his chin-

drew an imaginary line on the floor

his head, and finally drawled out:

not less than two."

"Well, sergeant, I should judge

USE LAMPS TO STUDY PLANTS

and the process of photo synthesis in

creased more than 500 per cent.

other countries.

ergeant.

"She never plays golf in her golf

I took a trip across the continent, "Do you know the picture sport?" stopping off in Indiana to see my asked a girl who was wearing Norfolk tweeds, flat sport heels and a old friends. It was like a bath for my soul. Brains count out West. Anybody who tries to show off is "Any kin to the tin horn?" asked snubbed, Irvine Bacheller writes in the Delinestor.

"N-mo-I'd say not, Because this kind is not objectionable except You must do something to be anything in the Middle West; just to as she is inconsistent and that may be her prerogative. Who knows? have semething doesn't count. You She is the girl who fills up her warddon't list your ancestors as you must robe with the most fragile of soin Virginia or the Carolinas, but to called sport clothes, silk skirts, emfeel self-respecting you must do something. broidered ribbon hats to match, silk hose, dainty ties or pumps, sweaters.

The Far West still keeps the American inheritance of open-hearted hospitality and its provincialism. The West has inherited some of the finest virtues of our country, and if it is not biften by Back Bay, Philadelphia, Virginia or Charleston, it. will grow up into its mother's finest

"No church west of Chicago, no God west of Denver," we used to hear when I was a child. But today the churches are part of the community and even men go. People in the West do not seem to go to church merely out of respect for the devil and a conscience complex, but because they like to. Churches and schools are important places in the wide open she's the picture sport! West.

THE REAL PLEASURE



"Would you be glad if I said I

"Yes, because it would annov Isabelle."-From Sondags Nisse, Stock-

"FOSSILS" VERY MUCH ALIVE

Once in a year or two there meets in New York for a banquet an organization known as "the Fossils," developed is, then, about the same in made up of "amateur journalists of North America and Europe. The the past," men who, as boys back in British empire, apart from Canada, the seventies and eighties played cuts a poor figure in these totals. with printers' ink. Thomas A. Edi-Leaving out Canada, the power utison is one of them, as is Gov. William C. Sproul of Pennsylvania and to her resources is far below that of Josephus Daniels, who used to be secretary of the navy. James M. Beck, solicitor general of the United States; Senator George H. Moses and Cyrus H. K. Curtis are "Fostotal output of water power for the sils." All of which may indicate that putting one's thoughts in print hours. Incidentally, California prowhile he is yet young is a thing that may breed that straight thinking New York. By developing such natthat leads along the road to accom-

WORLD'S FLAX PRODUCTION

plishment,

Of the yearly total of 500,000 tons of flax produced for manufacturing purposes, Russia in prewar days raised 400,000 tons, France and lery, and the first sergeant was giv-Belgium, 50,000; Ireland, 10,000; Netherlands, 10,000, and Germany and Austria, 30,000, The Irish linen industry, which is chiefly centered in the north of Ireland, is dependent on foreign sources for its supply of raw material, only about one-eighth of its consumption of raw with the toe of his shoe -- scratched flax being produced at home,

COLD RADIATORS

"What's going on here?"

"A fire drill," said the school janitor, who was sunning himself on the Large electric lamps, 1,000 watt curb. "This here edyfice is 'sposed capacity, are being used in an inten- to be a-blazin'." sive study of the rate of respiration

"Oh, I see."

"But, of course, it ain't, an' if plants at the University of Wiscon- anybody wants to ask me about it I sin. The plants are allowed to grow can tell 'em that there ain't even a under these powerful lamps in a fire in th' basement."-Birmingham room cooled to about 65 degrees Age-Herald.

The Deminican reputate Mans to "You never won't hab no trouble become one of the beet-sugar producgettin' work, son," said Uncle Eben, ing regions in the world by irrigat-"if you coaxed foli a job as hand as ing about 150,000 acres of a river

REPUBLICAN NOMINEE FOR

Elect IKE PATTERSON

at the primaries Friday, May 19,

He is a man of rare personality and proved executive ability. Here, briefly, is his story: Isaac Lee Patterson was born in Benton County, Oregon, in 1859. Attended country schools and worked his way through Christian College, Monmouth, Be came a successful merchant in Salem. In 1894 was elected State Senator from Marion County. In 1898 was appointed Collector of Customs at Portland, by President McKinley: re-appointed by President Roosevelt in 1902.

A Record of Achievement

WHILE he was collector, the business of Mr. Patter son's office practically doubled yet he reduced the cost of running his office by \$6,380 a year. Since 1906 has been a successful farmer at Eola, Polk County. In 1919 and 1921 served as State Senator from Polk County. As chairman of Senats Finance Committee led the fight against wholesale salary increase bills and defeated most of them. In 1921 voted against increasing Governor's

Vote for Patterson and Stop this Waste!

Since 1913 State taxes have increased 748.7 per cent! This gross extravegance must be stopped! Mr. Patter-This gross extravagance must be stopped! Mr. Patterson has pledged that when elected he will make a substantial decrease in your state taxes by efficient and economical administration. A vote for Senator Patterson is a vote for clean, economical business-like government.

PATTERSON CAMPAIGN COMMITTEE

Partiesd, Oregon