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Connections at Earleton Jct. for Elk Lake, daily except Sunday.

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Connections at Swastika, daily, with The Nipissing Central Railway for Kirkland Lake, Larder Lake, Cheminis, Rouyn and Noranda, Que. and intermediate points.

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SCIENTIST PRAISES WORK OF SKILLED PROSPECTORS

Dr. A. S. Eve, Professor of Physics, McGill University, Praises Courage of Mine Discoverers

Magnetic, electrical, gravitational and seismic are the four main methods of applying physics to assist the geologist and mining man, Dr. A. S. Eve, professor of physics, McGill University, declared in an address before the Royal Canadian Institute at Convocation hall, Toronto, on Saturday night, according to The Mail and Empire report.

Dr. Eve was born in Bedfordshire and graduated from Cambridge in 1884. Coming to Canada in 1903, he became lecturer in physics at McGill, was made doctor of science by that university in 1908 and is now director of the department of physics. He is a fellow of the Royal Society, a colonel of the C.E.F., and was honored as C.B.E.

Punctuating his lecture with dissertations of a highly humorous nature, Dr. Eve made a technical subject most interesting. Referring to the headlines of a Denver paper which described his experiments in the radio activity of minerals as the antics of doodlebugs, he disclaimed all acquaintance with such insects, and launched upon a tribute to the courage and endurance of the professional prospectors who have discovered the greatest number of mines in the world.

"The diving rod has been used since time immemorial for finding water, oil, gold, tin, lead, witches and Protestants," Dr. Eve said, "but it is one of those difficult cases where a medium is necessary, and one is apt to be imposed upon." In France during the war he admitted that the diving rod was used with success in the search for water but he doubted the necessity of a rod in a country where water was fairly abundant.

"Electrical methods are numerous and diverse in type," he said. "Rain or surface water slowly decomposes sulphide ore bodies, hence chemical change results in earth currents from battery or voltaic action. Currents flow in surrounding rocks upwards to higher parts of the veins, completing the circuit downwards through the vein itself. Thus, if on the earth's surface there are placed two non-polarizable electrodes connected by wires through a sensitive galvanometer, the trend and size of these currents are found and the ore body located. Electrodes may be porous pots, containing copper wires surrounded by a saturated solution of copper sulphite. A portable potentiometer is better than a galvanometer. Potential differences are measured between electrodes, which must make good contact with the ground."

He then demonstrated with graphs the lines of direct or alternating currents through various locations and explained that an ore body must be different to its surroundings really to make effective the use of electrical methods.

Pendulum methods determined acceleration due to gravity at any place, Dr. Eve stated, but remarked that this method is not usually sensitive enough for study of local underground variation of density. Von Eotvos, therefore, invented the torsion balance which is effective in a uniform gravitational field.

In searching for salt domes, Dr. Eve explained the use of detonations from high explosives which are buried in the ground. When the detonation occurs a radio signal is given and recorded on moving picture films attached to five or six seismograph recorders. One famous salt mine discovered by this method has already yielded \$150,000,000 in sulphur.

"SHIELD OF HONOUR" COMING TO GOLDFIELDS THIS WEEK

One of the most thrilling pictures of the screen season is promised at the Goldfields theatre on Friday and Saturday of this week, March 29th and 30th, when "The Shield of Honour" opens its engagement there. "The Shield of Honour" is a Universal production directed by Emory Johnson and was written especially for the screen by his mother, Emille Johnson, author of numerous successful pictures directed by him. It deals with the inside workings of a metropolitan police force and the cast embraces such players as Neil Hamilton, Ralph Lewis, Dorothy Gulliver, Nigel Barrie, Thelma Todd, Fred Esmelton, Joe Girard, Claire McDowell and others

Joke Hold-up Turns Out Serious for the Joker

At Cochrane last week Sam McLeod, well and generally favourably known in the North, pleaded guilty to a charge of attempted robbery while armed and was sentenced to a year's imprisonment. As Judge Caron explained to the accused the term was a very lenient one in view of the fact that a penalty of life imprisonment was provided by law for such an offence which the law rightly viewed as most serious. The previous good record of the accused and the fact that the affair may have been no more than a stupid and ill-judged joke no doubt moved the judge to the leniency shown. According to information from Cochrane, the accused was urged to secure the services of a lawyer and also to enter a plea of not guilty so that the real facts of the case might be made plain, but he stubbornly refused to do either, taking the stand that he was guilty all right, but that the whole affair had been no more than a joke. McLeod who was a linesman for the Public Utilities Commission at Cochrane, and who had worked at this trade in other parts of the North where he is one of the old-timers, is a married man with a family and has generally been considered as a good citizen and a good fellow. According to the information from Cochrane he entered the home of Mr. and Mrs. Angus Martin one evening about 9.30 and ordered all to hand over their cash. He had a shawl or wrap around his head and carried a revolver. Mrs. Martin recognized him and asked him to turn the gun over to her husband, which he did. Apparently he made no serious effort to get any money or to do any further harm than the masked demand. As the couple had a couple of hundred dollars in their possession at the time the matter was considered serious, and the police were notified. A charge was laid under the criminal code. It is thought that the accused was under the influence of liquor when he staged the affair. The Advance usually does not favour light sentences or paroles for crimes such as this, but it does appear to be a case where at least investigation might be made with a view to determining whether further clemency is warranted in the case, and at any rate there will be a general feeling that the judge was fully warranted in imposing a comparatively light sentence.

The winners of the last whist drive in the Hollinger Recreation hall by the All-Britain Social Club were—ladies, Miss Pugsley, Mrs. Bellamy and Mrs. Tomkinson; gentlemen, Messrs Atkinson, Sangster and Gray. The next whist drive to be given by the All-Britain's will be held in the Hollinger hall next Tuesday, April 2nd. Prizes and refreshments.

Invitations have been issued for an Easter dance to be held in the High School hall, South Porcupine, under the auspices of Porcupine Lodge, No. 506, A. F. & A. M., on Monday, April 1st.

LATE ALEXANDER M. KNAPP OLD-TIMER OF THE NORTH

Prospected Around North for Many Years. Employed at Hollinger Mine. Was Highly Esteemed by All Who Knew Him

Brief reference was made last week to the death at Phoenix, Arizona, of Alexander M. Knapp, formerly of this North Land. As it was suggested that information was desired in regard to the late Mr. Knapp and his relatives, Mr. J. R. Newman, of town, has kindly furnished The Advance with some particulars. Mr. Newman was a close friend of the late Mr. Knapp and as soon as he learned of the death he forwarded information that he had to the hospital at Phoenix, Arizona, telegraphing the address of a daughter of the deceased, and sending additional information to the Phoenix authorities by mail.

The late Alexander M. Knapp was born near Brockville, Ontario, some 61 years ago, and prospected through the West in his early days. About 1912 he came to Timmins and was for some years a timberman at the Hollinger Mine. Some years ago he went to California where his wife died, returning to the North again after the death of his wife. He prospected around the North, particularly in the Tashota, Goudreau and other sections. He went to the Paymaster when that property first opened up and was employed there for some time. About five or six years ago he went to Matheson to reside, having taken up a homestead there. He stayed at Matheson until last October. Mr. Newman visited him several times at Matheson, renewing friendship with this agreeable and interesting friend. On some of his later visits Mr. Newman found his friend in bad health, tuberculosis having marked him down. Friends and neighbours did all they could for the sick man and Mr. Newman stayed several days with him on more than one occasion. Eventually he was persuaded to go to the South for treatment, entering the Roanoke Sanitarium at Phoenix, Arizona, last October. His recent death there was a matter of deep regret for all who knew him. The late Mr. Knapp was an experienced and competent miner, and was well known and popular throughout the North. He was highly esteemed for his upright integrity and agreeable disposition. A daughter, Mrs. Hanovan, resides at Monia, Honolulu, where her husband is the manager of a large pineapple plantation.

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Efforts to Preserve the Migratory Birds

In an editorial article this week The Toronto Mail and Empire says:—

"Ontario has done a great deal to protect and to preserve wild life from useless slaughter and a further step is now under consideration. The fish and game committee of the Legislature has been informed that the principles of conservation will be included in the curriculum of the schools. There can be no doubt that the instillation of these ideas at an impressionable age will help to strengthen public opinion in the future. Some of the members pointed out that it was easy for an airplane to cross from the United States, especially the state of Minnesota, shoot fowl or deer and carry the 'bag' back without detection. Steps will be taken to prevent this kind of slaughter.

"Hitherto the United States has not done its share to carry out the terms of the migratory bird treaty and there has been a feeling in Canada that the efforts to preserve these birds while they are in this country has resulted in greater opportunities for American sharpshooters when the birds go south for the winter. But Mr. W. C. Henderson of the bureau of biological survey at Washington has issued a statement in which he says: "February 18 is one of the most important dates in the history of game preservation. On that day of this year here was approved by President Coolidge an act to authorize a national system of sanctuaries where migratory birds can feed, rest and breed unmolested by man." He admitted that Canada has already established numerous refuges to carry out her obligations under the migratory-bird treaty and has thus taken an important step ahead of us. Our new law will more effectively fulfil our treaty obligations to protect in this country the birds that spend part of the year here and part in Canada.

"It will take about a year to make comprehensive surveys of the most desirable and important sanctuary sites along the main bird-migration routes, but a preliminary study indicates that federal bird sanctuaries are needed in at least 125 concentration areas, with one or more in each state and several in Alaska. The funds that are authorized will run from \$75,000 for the first year to \$1,000,000 annually for the next seven years and \$200,000 each year thereafter. Mr. Henderson claims that the new law is one of the most important ever passed by Congress so far as sportsmen and those interested in song and insectivorous birds are concerned and that its beneficial effect will be so great that the government desires to ensure its full operation at the earliest possible date."

VALUABLE INFORMATION ON SEVERAL MINING AREAS

Report on Ben Nevis, Munro, Kamiskotia and Other Ontario Mining Fields Just Issued by Ontario Government

A further contribution to the knowledge of geological conditions in the northern mineral belt of Ontario is made in the latest report of the Ontario department of mines just issued. The booklet is in three parts, the first by T. L. Gledhill, embracing Ben Nevis, Munro, Kamiskotia and other base metal areas; the second and third parts, by M. E. Hurst, cover Ranger Lake and Garden River areas, and the lead-zinc deposits of the district of Algoma, respectively. In addition to a discussion of the general characteristics and geology of the areas, much interesting information on the individual properties is included. The field work was done last summer, of course, and since that time conditions have changed somewhat. Some properties have ceased operations, some have made important discoveries and others have been steadily working on development in the interval.

The search for base metals in Ontario is described in the recent government report. Perhaps the greatest boon to the base metal industry has been the perfection in quite recent times of the selective flotation method of milling complex sulphide ores that were formerly useless, says the statement. Electro-metallurgy has also made big strides. A notable feature of recent staking expeditions for copper and other base metals has been the fact that in many cases prospectors have been guided by the recollection of old showings, which in their former wanderings they had passed over in the search for gold and silver. Hundreds of abandoned claims are being restaked as a result of the changed conditions. The origin, structure and depth of pre-Cambrian base metal ores is of great interest at present. Deep work at the Noranda has shown that the sulphide masses are lenticular, says Dr. Gledhill. The same is true of the sulphides in the Frood orebody at Sudbury and of the Flin Flon in Manitoba. In a general way, he states, it is safe to conclude that deep-seated pre-Cambrian ore bodies are lenticular in form with the likelihood of one lens appearing where another pinches out. The factor of depth is important, since it indicates the future life of the mine. At Sudbury, the bonanza chalcocyanide body of the Frood appears first at 2,000 feet; at the Flin Flon deposit in Manitoba, the grade of the ore is maintained at 900 feet; at the United Verde mine in Arizona replacement sulphides are being mined at 2,500 feet or so; and at the Noranda ore has been found below the 1,000-foot horizon. Everything indicates that some of our replacement sulphide ores in the pre-Cambrian will extend to a depth of 3,000 feet and probably as far down as the favourable rocks and structure are maintained, Dr. Gledhill concludes.

A.S.D. EASTER DANCE IN MASONIC HALL ON MONDAY

The Easter dance, announced by the A.S.D. Club to be held in the Masonic hall, Timmins, on Monday evening, April 1st, promises to be one of the most enjoyable events of the season. Tommy Stephens' orchestra will furnish the music for the occasion. Invitations are not being issued for this dance, but tickets are on sale by members of the A.S.D. committee for the occasion.

HARRY L. DONALDSON, ILL AT WINNIPEG HOSPITAL

Word was received last week at Elk Lake that Harry L. Donaldson, manager of the Gem Lake Mines, has been seriously ill at the general hospital in Winnipeg suffering from pneumonia. It is hoped that he will soon be better, as he is now reported as making good progress to recovery, but it is expected that Mr. Donaldson will go home to Cobalt for a rest on leaving Winnipeg and before returning to his duties as mine manager. Developments at the Gem Lake Mines recently have been very promising, being excellent returns from all accounts, for the good work carried on by Mr. Donaldson previous to illness. Mrs. Donaldson is in Winnipeg and will remain there until her husband is out of danger.

William O. Langdon Barrister, Solicitor, Etc. A. E. MOYSEY BLOOM, Timmins, Ont.

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The Porcupine Advance Phone 26 TIMMINS - - - CANADA

A.S.D. Easter Dance Masonic Hall Monday Evening, April 1st, 1929 TOMMY STEPHENS' ORCHESTRA Admission \$2.00 Invitations are not being issued for this dance. Tickets on sale by members of A. S. D. Committee

"WHERE TO DINE" KINGSTON HOTEL Special Chicken Dinner Easter Sunday served from 5.30 to 7.00 p.m. A place where you can enjoy a good meal in a homelike atmosphere. Table d'hote Dining-room Service WHITE HELP ONLY EMPLOYED ALL HOME COOKING High Grade Rooms, Attractive and Clean POPULAR PRICES SPECIAL ATTENTION TO LADIES Ask for our Weekly Rates IF YOU COME ONCE YOU'LL COME AGAIN