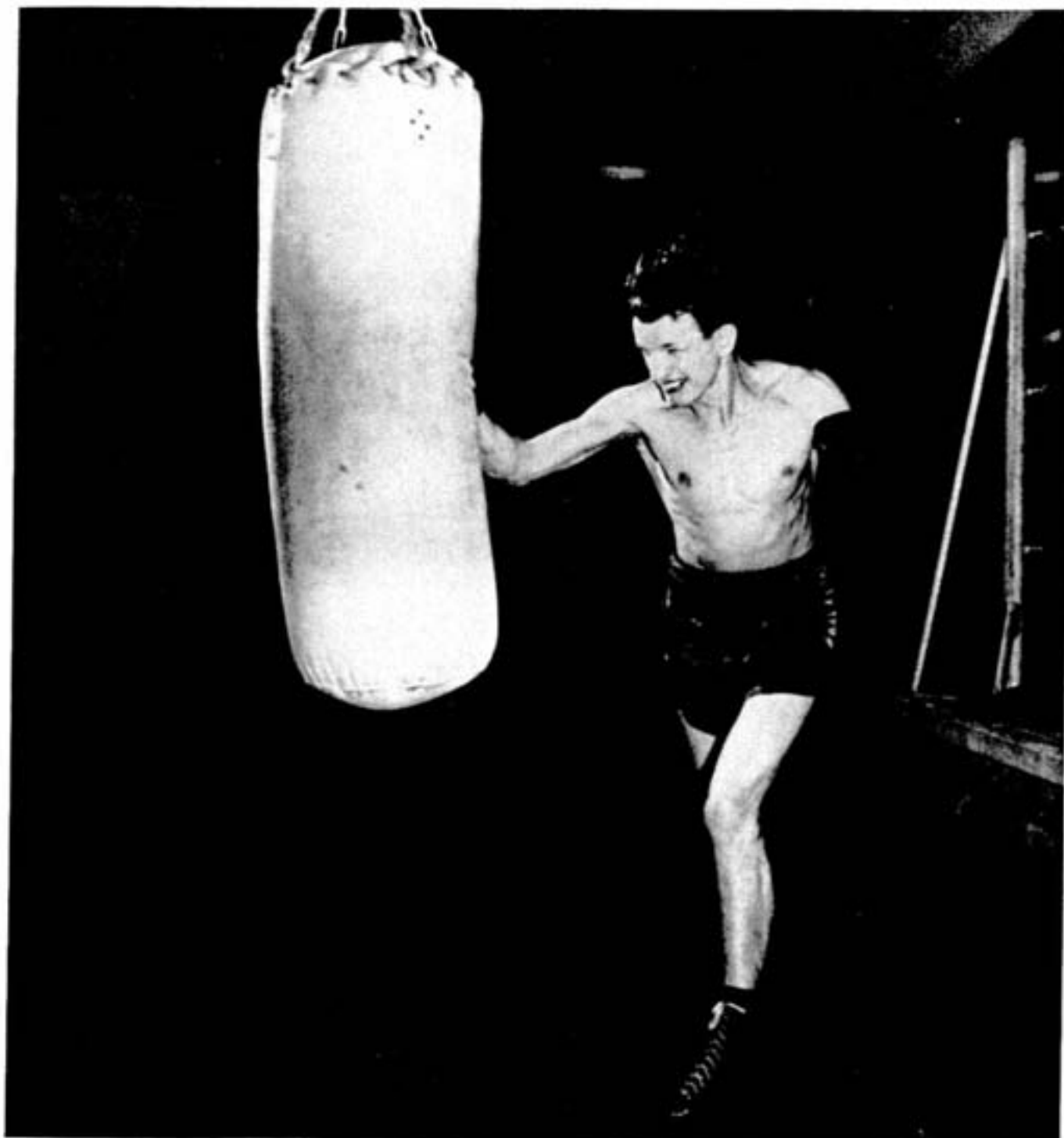


INCO TRIANGLE

VOLUME 9

COPPER CLIFF, ONTARIO, NOVEMBER, 1949

NUMBER 8



Frood-Stobie's Alex Mason, Canadian Champ



Published for all employees of The International Nickel Company of Canada, Limited.
Don M. Dunbar, Editor.

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Cast Iron That Bends Another Inco Triumph

Industry now has available to it a new cast iron which, unlike ordinary cast iron, is not brittle but can be bent or twisted. This astounding new material can be made readily and economically and can be used in a myriad of applications, thus affording countless economies throughout the industrial world. It is probably the most outstanding metallurgical development in the foundry industry since around 1820 when Seth Boyden first made, from cast iron, the American type of malleable iron at Newark, N.J. The novel product, popularly known as ductile cast iron, has several times greater strength than ordinary cast iron with greatly increased ductility and shock resistance.

These facts were presented by Don Reese, well-known foundry expert and engineer, in announcing that the United States Patent Office has recognized the meritorious nature of these inventions by granting Patent Nos. 2,485,760 and 2,485,761 to the International Nickel Company.

Extensive Research

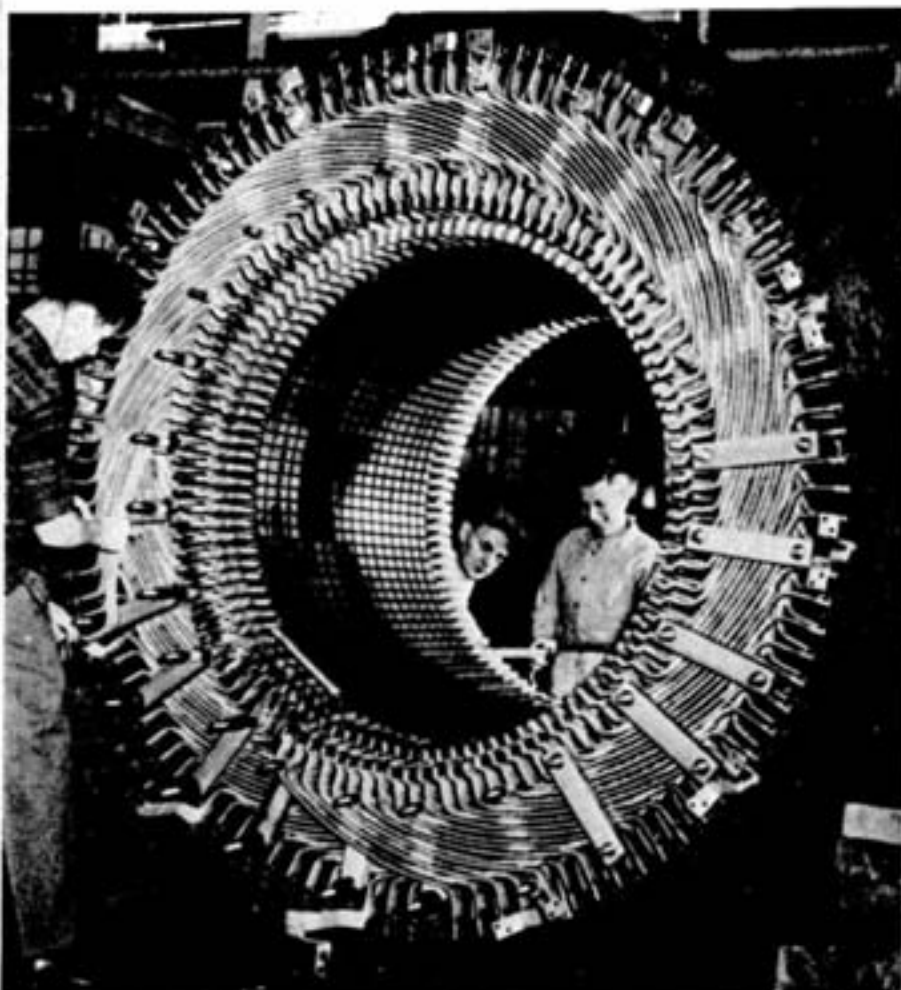
"The inventions," Mr. Reese stated, "were developed after many years of experiment and testing in the Bayonne (N.J.) research laboratories of International Nickel's Development and Research Division.

"As foundrymen have been searching for generations for such a ductile cast iron, the inventions covered by the patents are of unparalleled importance and the material's outstanding strength and ductility, plus resistance to shock, is especially significant and useful to many industries. The potential applications are many and varied. The automotive, agricultural implement, machinery, oil, railroad and many other industries can apply it in component parts too numerous to detail.

"Many new fields will be opened up by ductile cast iron because of its excellent engineering properties, and it will assume an important role in industry.

"This new ductile cast iron combines processing advantages of cast iron, such as fluidity, castability and machinability, with many of the product advantages of steel. The essential feature of the inventions is the introduction into and retention by the molten iron under treatment of a small but effective amount of magnesium. The presence of critical amounts of magnesium in the novel cast iron produces a new graphite structure which is in the form of spheroids or compacted particles. Due to the elimination of a substantial amount of the usual weakening flake graphite, the new magnesium-treated cast iron possesses excellent engineering properties, particularly high tensile strength, elastic modulus, yield strength, toughness and ductility. Under stress, it behaves elastically like steel rather than like cast iron, having proportionality of strain to stress up to high loads with a modulus of elasticity of about 25 million pounds per square inch.

Huge Motor Repaired at Cliff



The biggest job of its kind ever handled in Inco's electrical shop at Copper Cliff was the rewinding of a 3,400 h.p. motor from one of the substation blowers supplying converter air to the smelter. When the huge 14-ton motor burned out, rather than wait a year or more for parts from Switzerland, the Electrical Dept. undertook to repair and rewind it. With veteran electrician Arvi Ristimäki in charge, the ambitious assignment was completed in three months. Tape used on the job would reach from Copper Cliff to North Bay. Helper at the left in the picture is Ray Taylor, and seen through the motor are Arvi Ristimäki and Frank Shedler.

40 Companies Licensed

"More than 40 companies in many industries are now licensed under the patents to produce this new cast iron development. As much as 700,000 pounds of the material have been made in one day by the licensees, and as much as 200,000 pounds have been cast in one day by a single licensed foundry. Large castings requiring the pouring of 50,000 pounds of magnesium-treated molten metal for each casting have been produced utilizing the technique of this new development. Thousands of different component parts and as many as 12,000 of a similar part have been made of the patented ductile cast iron."

Mr. Reese added that the inventions are being protected patentwise in all important countries of the world, as it is expected that the inventions will be adopted on a world-wide scale.

Pay as little attention to discouragement as possible. Plough ahead as a steamer does, rough or smooth — rain or shine. To carry your cargo and make your port is the point.

Daffynitions

Hug: Energy gone to waist.
Bathing Beauty: A girl worth wading for.
Sailor: A wolf in ship's clothing.
Flypaper: Air mail stamps.
Embrace: A roundabout way of expressing affection.
Bureaucrat: A red tapeworm.
Tears: The greatest waterpower known to women.
Reducing Experts: People who live on the fat of the land.
Perfumery: A firm that makes money by sticking its business into other people's noses.
Parents: The kin you love to touch.
Time: The stuff between paydays.
Grade Crossing: Where head lights and light heads sometimes meet.
Parking Space: A place in which another car is parked.

It is infinitely more important to stress what people of different opinions, creeds, and nationalities have in common than to emphasize how they differ.

INCO FAMILY ALBUM

Let's get acquainted with another fine group of Inco families: (1) Mr. and Mrs. Joe Harrison (Copper Refinery) with Lois, 10, and Joan, 3. (2) Mr. and Mrs. Sam Pridham (Murray Mine) with Linda, 2, Sam Jr., 3 mos., and Sandra, 4. (3) Mr. and Mrs. Vic Baker (Copper Cliff Shops) with Maryln, 5½, Doreen, 15 mos., Billy, 11, the twins Jane and Ann, 2½, and Ronald 7. (4) Mr. and Mrs. Jack Anderson (Creighton Mine) with Jean, 15, and Richard, 11. (5) Mr. and Mrs. Bert Plouffe (Frood-Stobie) with Suzanne, 2. (6) Mr. and Mrs. Dave Wright (Garson Mine) with Betty (Mrs. Alfred Laderoute), Harold, 15 mos., Thomas, 17, James, 14, and Gloria, 15. (7) Mr. and Mrs. Joe Cassidy (Copper Cliff Concentrator) with Aileen, 4, and Larry, 16 mos.





Child Health Is Protected by Clinic Service

Handling an average of better than 800 young patients each month during the four years since it was inaugurated, the Baby Clinic at the Inco Medical Centre in Sudbury continues to render invaluable service to the families of employees.

Similar service is provided at Copper Cliff, Creighton, Coniston and Levack in a sustained campaign to keep the health of young Incoites right up to snuff.

Pictures on the opposite page show a few typical "customers" at the Clinic:

1. Disrobing for a check-up are Gerry and Leonard, sons of Mr. and Mrs. Albert Gouvreau, whose dad works at Copper Cliff Smelter. Gerry is being philosophical about the ordeal but Len, older and wiser, is filing a vigorous protest against the whole business, which his mother takes with good humour.

2. Mrs. Alvin Beach of Murray Mine and son Terry look on while daughter Nancy gets her monthly check from Dr. E. H. Simmons. Nurse Agatha O'Reilly is in attendance.

3. Nurse Jo-Anne Coulter vaccinates Richard, son of Mr. and Mrs. C. Dubreuil (Frood-Stobie). Young Dick never turned a hair at the jab of the needle.

4. Lorraine, daughter of Mr. and Mrs. R. Dore (Frood-Stobie) has her chest examined by Dr. Margaret Rae, while her mother holds a watching brief.

It's a Hard Life!

5. "What a guy has to put up with these days!" says Arthur, 6-month-old son of Mr. and Mrs. David Dick of Murray Mine. Dr. Foerster is handling the stethoscope and the lady in white is Nurse O'Reilly. Arthur tipped the scales at 22 lbs. and 2 oz. that day.

6. Lillian, the cute infant daughter of Mr. and Mrs. John Brunelle (Frood-Stobie) is being weighed in for another round in her bout with life by Dr. Rae.

Vaccination against smallpox, and a series of three inoculations to immunize the child against diphtheria, whooping cough, and lock-jaw, are part of the Clinic service, as is treatment involving minor surgery. A fluoroscope is provided for spotting the location of safety pins, buttons, and other such doubtful delicacies which children sometimes manage to swallow.

Problems of feeding and diet are carefully discussed with the mothers by Miss Willa Ahearn, district nurse of the Metropolitan Insurance Co., a feature of the Company's group insurance arrangement for employees.

A progress record is kept of each child registered at the Clinic, and is referred to each time the child is brought in for check-up.

How's Your Brain Power?

ANSWER to last issue's problem:

A has 43 odd and 42 even: 85 houses

B has 15 odd and 13 even: 28 houses

C has 7 odd and 2 even: 9 houses

In days of yore it was customary to have a moat built around a castle to protect it from robbers, invaders, other unsavoury types. A man once had a square moat twenty feet wide surrounding his castle. The usual way to cross the moat was by means of a drawbridge. One night, the owner, clanking rather heavily home from a party with the "boys", found his wife had

At Dinner Meeting of Geologists



At a very successful dinner meeting of the Foot and Hangingwall Society held at the Granite Club and attended by 42 of the 55 members, Jake MacNeill and Ron Taylor led an interesting discussion of methods of geophysical exploration used by Inco geologists. In the above group are (standing) Al Smith, research geologist, Copper Cliff; Jake MacNeill, exploration geologist, Copper Cliff; Oran Fritchard, mine geologist, Creighton; Bill McGill, exploration geologist, Copper Cliff; (seated) Ron Taylor, geophysicist, Copper Cliff; Paul Haskey, mine geologist, Garson; Ernie Cornford, mine geologist, Murray; Glen Thrall, mine geologist, Levack. Chairman of the meeting was Bert Souch. The recent marriage of Hank Vuori and the birth of a second son to Mr. and Mrs. Glen Thrall the day before the dinner were saluted in traditional style.

raised the drawbridge.

Scouting around he managed to find two planks, one 19 feet in length, the other 19½ feet in length. He could not splice or nail

them together and it took him some time to figure out how he could get them to span the moat.

Can you?



Wild Geese Tamed

When a flock of wild geese came down on their farm near Blezard Valley Village, Andre Foucault and his brother Louis winged and captured two of the big fowl alive. In the picture Andre and his young nephew Roger, aged 6, each hold one of the geese, which are being kept as pets. Between them, looking both ways at once, is a two-headed calf which was born on the farm, but died at birth. Stuffed and mounted, it is a prized family exhibit. Andre Foucault is a motorman on 1500 level at Murray, and in the summer months commutes from the farm to the mine.

Broad Service Marks Career Of Roy Barnes

"Good citizen" is the thought which comes easily to mind when writing of Roy Barnes, and in plain truth what finer accolade is there for a man at the termination of his career in a community?

Blessed with an unusual diversity of talent for service to those about him, Roy Barnes has contributed with unfailing good cheer and generosity to the lives of others, besides doing his job with the Company faithfully and well. When he retired on pension this month, frisky as a young colt despite his 65 years, good wishes for his happiness came from all sides.

To Copper Cliff in 1909

Born at Smiths Falls on December 23, 1884, son of a blacksmith and one of a family of 10, Roy planned to become a steam engineer until a bout of illness diverted him to an inside job. In 1904 he hooked up with the C.P.R. as a telegraph operator and five years later found himself transferred to Copper Cliff. There his additional duties included loading 300-lb. barrels of silver which were being shipped out from the old Cobalt Plant. He "bached" in a shack near the depot with another railwayman.

In September of 1910, lured by a substantial boost in pay, he joined the nickel industry. His first job was weighman at the West Scales, over which passed ore to and from the roast beds. His liveliest memory of that section of the operations is the day that Bill and Jack Hodgins arrived with the first steam shovel to load roasted ore. Great was the excitement when those experts and their mighty machine loaded as much ore in a day as 200 men could handle with shovels.

A turn at the East Scales, weighing supplies, and also a stint as timekeeper at No. 2 Mine, where the force was 24 men, preceded Roy's transfer in the summer of 1912 to the general office in charge of the telegraph key, files, and mailing. In recent years the department has been modernized by the installation of a teletype and postage and mailing machines.

In 1911 Roy was married at Parry Sound to Ethel Keir. Their children, all of whom



Last Batch of Mail

Roy Barnes, who retired on pension November 1st., is pictured here as he puts his last batch of mail through the postage machine at the General Office. At a largely attended party at the Copper Cliff Club he and Mrs. Barnes were presented with handsome farewell gifts from members of the Accounting Dept. and other friends and associates.

were born in the family's first home at 19 Rink St., Copper Cliff, are Keir, assistant dean at Alma College, St. Thomas; Bill, with the Bell Telephone Co., Toronto; David, in the Mechanical Dept. at Copper Cliff; Morley, teacher at the new Prince George School, Sudbury. Another son, Sam, died in 1929. They have two grandchildren.

It was in 1914 that Roy first developed his interest in boys' work, organizing a troop of Boy Scouts which four years later became the Copper Cliff Highland Cadet Corps. In 1921 the corps was gazetted by the Dept. of National Defence and soon won fame throughout the province for its parades and precision drills. At cadet camp at Niagara-on-the-Lake in 1929 it won the silver cup for

turning out the smartest guard. On countless inspections and other occasions in Sudbury and District it has captured the admiration of the public with its colorful uniforms and proud military bearing. A total of 113 graduates of the corps enlisted in the Second Great War in all branches of the service, and 13 laid down their lives.

Holds Rank of Major

During the more than 30 years in which he has been in charge of the Copper Cliff Highlanders, Roy Barnes has provided leadership and training which have been of inestimable value to the boys who have worn the uniform. In 1944 he was promoted to the rank of major in the Cadet Services of Canada.

Roy had been in Copper Cliff only a few days before he agreed to play clarinet in the Reed and Brass Band under the leadership of John Gribble. With his violin he was soon in steady demand at square dances in the camp and district, teaming with Bill Yeo at the piano. In later years he organized the Little Symphony Orchestra, which has grown to 30 pieces. He has arranged many a keenly enjoyed concert at the Copper Cliff Club.

In still another sphere the versatile Roy has made a substantial contribution. A gifted penman, he has illuminated hundreds of addresses and mementos of special events which invariably have been highly prized by their recipients. His crowning achievement in this field has been the preparation of the Book of Remembrance which will be placed in the Canadian Legion Memorial Hall in Sudbury. Lettering of the 575 names in Old English, and illuminating of each page of the book with an intricate design of maple leaves and service badges, required more than 10 weeks of his spare time, but it has been a labor in which he has taken great joy.

Mr. and Mrs. Barnes have taken up residence on the Long Lake Road in a cosy home which they have christened "The Birches". That their years of retirement will be many and happy is the earnest wish of their wide circle of friends and acquaintances.



30 Years of Leadership

As commanding officer of Copper Cliff Highland Cadet Corps for more than 30 years, Roy Barnes made a valuable contribution to his community. The corps is famed throughout the province for its smartness on parade and in precision drills. This picture was taken in 1937 when the corps was entraining for Parry Sound to stage a display which made such an impression that the cadet movement was immediately started in that town. Major Barnes is on the right.



Girl Guides in Disguise

Hearts, a kigmy, Carman Miranda, a Pistol-Packin' Mama, and tramps, gypsies, pirates, etc., galore. Norma Talo and Elsie Kyllonen as Robinson Crusoe and his faithful Friday were among the best. The five patrols each staged a skit, and there were games and songs on the program. In charge was the company captain, Miss Margaret LeBreton, standing at the right in the photograph.

Fourth Inco Company of Girl Guides had a happy Halloween party for their regular meeting at the Employees Club on Oct. 28. The colorful costume lineup, pictured above, included the Queen of

18 Teams in Cliff League

Personnel of the 18 teams playing in the Copper Cliff Bowling League at Inco Employees' Club this season follows, the captain being named first in each case:

A. Bertand, J. Lawson, P. McKain, S. McOrmand, L. Cavanagh, J. Clarke.

C. Bronson, A. Desotti, T. Koski, B. Montgomery, L. Smiley, O. Miller.

W. Brown, R. Desjardin, M. Gillis, R. O'Link, O. Marois, T. Nedjelski.

A. Browne, S. Coagie, E. Johnston, O. Myers, P. Stevens, T. Strong, E. Zettler.

R. Canapini, E. Bertuzzi, Ceppetelli, E. Desotti, J. Sime, J. Vargo.

H. Eastwood, P. Dichokowski, Lapointe, Paradis, Slater, Rivers, Hamilton.

G. Edwards, A. Bertand, H. Graham, W. Heard, D. McPhail, J. Radey, A. Thornton.

R. Fraser, J. Charlette, E. Delmore, W. Legacy, J. Modere, P. McKay, W. Tompkins.

J. Grassby, L. Arseneault, J. Keast, S. Kuzmaki, R. Moore, T. Foster.

L. Kennedy, J. Ceccone, J. Cormier, W. Jones, R. Livingston, A. Woods, A. McCarthy.

A. Longfellow, T. Armitage, O. Gallagher, M. Healy, E. Lawson, R. Poirier.

R. Longfellow, O. Basso, B. Basso, E. Bertulli, A. Didone, A. Orasi, M. Narduzzi.

A. Murray, R. Crapper, P. Duffy, R. Gauthier, K. Kudla, M. Wylie.

R. Regimbald, H. Cole, P. Fitzgerald, G. Fugard, M. Jennings, F. Thomson, J. Warner.

F. Rogers, J. Bembek, R. Leduc, R. Mallette, M. Rogers, T. Walmsley, M. MacDonald.

W. Trotter, M. Allan, H. Allan, A. McMullen, B. Trotter, G. Stone.

J. Wallace, N. Frattini, J. Gauthreau, L. Lafrenier, A. O'Reilly, G. Prentice, I. Wallace.

O. Zinkie, A. Eveline, W. McCann, A. Ranger, B. Travaglini, H. Wowk, M. Zinkie.

PRESENCE OF MIND

A contractor was putting down a 4-storey foundation excavation for a new powerhouse at the big insane asylum. A burly inmate was assigned to help the contractor as a roustabout.

One day as the contractor watched operations from above, the roustabout suddenly

clutched him round the neck and with a terrible laugh shouted: "Come on, let's jump!"

The contractor was frightened, but just as he was about to be pulled over the brink, he had an inspiration.

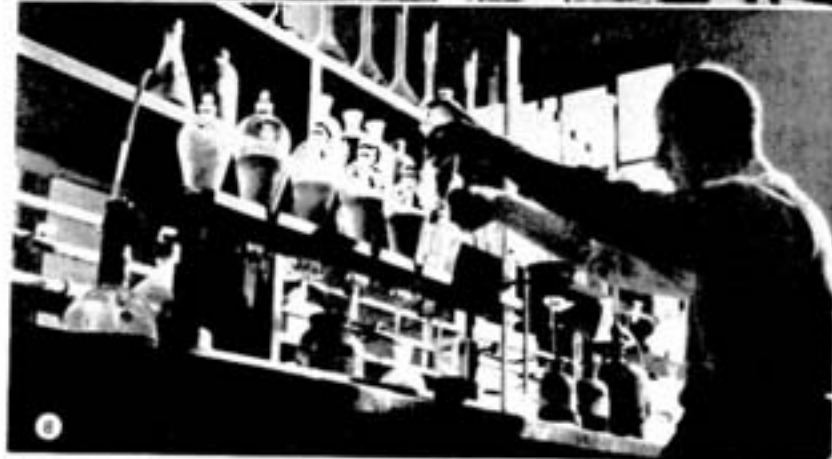
"Oh heck!" he replied, "anybody could do that. Let's climb down and then jump up!"



Cut a Couple of Rugs

John Bujarski, driller on 600 level at Frood-Stobie, poses with the proceeds of a little hunting expedition to his brother's farm at Lee Valley on Sept. 18. With his Savage rifle John knocked over a brace of bears, the largest one weighing about 300 lbs. Not bad for one afternoon!

John Bujarski, driller on 600 level at Frood-Stobie, poses with the proceeds



Swift and Accurate, Control Lab Reads the Pulse of Inco

Pulse of Inco's mining and smelting operations, where skilled fingers chart the heartbeat of metals along the road of recovery and issue the signals which call for changes of treatment, is the Control Laboratory at Copper Cliff.

Into this nerve-centre of science, where the lights burn 24 hours every day of the week, come samples for assay from all departments of the mining and smelting operations, at the rate of 32,000 per month.

The mines send ore samples; the mill sends samples of ore feed, flotation products, and concentrates; the smelter sends samples of matte, slag, and flux. They all want to know what's in those samples, in terms of metals, right away.

And in addition, to be assayed, there are samples of field surveys from the Geological Dept., samples of almost anything from the Research Dept., and samples from special projects on the go wherever Inco's engineers happen to be probing the mysteries of metallurgy.

1. Teddy Evershed and Aurel Seguin check a batch of samples which have just arrived from the Sample House at the Smelter.

Could Weigh Your Whiskers

2. In the balance room, on scales with a sensitivity of 1/20th of a milligram, technicians make their important readings. Delmar Suckow is weighing platinum cathodes on which copper has been deposited in the plating machines. Cec Baxter is weighing recoveries of sulphur from ore. Vern Rose and Kaye Benn are weighing samples of diamond drills and mattes.

3. On the right Joe Jaffe is adding acid to slag samples to decompose the slag, after which they are heated in the oven in front of him. On the left Gordon Zinkle adds water to put the metals in solution for filtering.

4. With a wash bottle Hugh McJannet slows water into a beaker to transfer a sample solution into a glass funnel lined with filter paper. The metal values in the sample pass through the filter into a jar and are ready for copper and nickel determination; the silicates in the sample are retained by the filter paper.

5. In the first step to determine the amount of silica in ore Dan Chatto is placing half-gram ore samples, combined with an alkali mixture, in an electric furnace, where they are heated to 1200 degrees F. The fused material is later treated with acid

which dissolves everything but the silica.

Out Comes the Copper

6. Filtered samples prepared by Hugh McJannet are placed on a plating machine, on which every bit of the copper is plated out on cathodes of fine platinum screen. Stan Simmons is removing a beaker from the machine and at the same time washing the cathode with a wash bottle previous to drying, after which it goes to the balance room to be weighed. There are four plating machines, each taking 12 beakers. Plating requires one hour. From an 80% sample about 1/7th of an ounce of copper would be deposited on the cathode.

7. After removal of the copper the sample solution, containing nickel and the rest of the ore components except silica, moves on to have its nickel content determined. Kaye Benn, at the right, is preparing the solution for this step by adding some six different chemicals so that elements such as iron will not interfere with the determination of nickel. Earl Nolan, at the left, is making the nickel analysis by adding standard cyanide to the prepared solution. In some cases the nickel content is determined by plating.

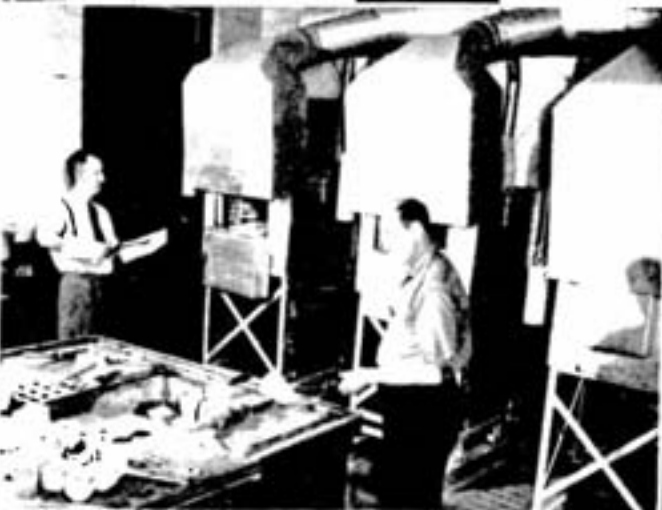
8. Here's an example of the special assignments given to the Control Lab. In a welter of tubes and beakers Bill Guest is making a micro-determination of the amount of lead and bismuth in a sample. This chore takes three to four days, and he's dealing in quantities like 1/10,000th of one per cent. The blink of a gnat's eyelash can throw the whole business out of kilter.

9. In this department of the Control Lab assays are made of the precious metals content of ore samples. From one of the three automatically controlled electric furnaces with a temperature range up to 2400 degrees F. Charlie O'Connor is removing a melted sample, while Ed McKerrow pours another melt.

Too Small for the Lens

10. Operating a micro-balance with a sensitivity of one 200th of a milligram, Art Serant is transferring a precious metal bead from an annealing cup to the balance pad for weighing. The camera has failed to pick up the tiny bead in the cup.

11. "Control of the control" is handled from this desk. June Mitchell, secretary, who has had a thorough grounding in laboratory work, makes a slide rule computation while Wib Job, chief chemist, telephones some assay results to Supt. Earl Stoneman at the mill.



Coniston and Copper Refinery New Champions



Levack and Pit Finally Beaten In Fire-Fighting Competition

Two three-time champions were toppled from their pedestals last month in the fourth annual Inco inter-plant fire-fighting competition. Both Levack Town and Open Pit, titlists in their respective classes since the event was inaugurated in 1946, bit the dust in the keenly contested 1949 showdown.

New champion in the division for pumper brigades, in which there were three entries, is Coniston Town, which led Levack Town to the wire by six seconds. In the non-pumper division of 14 entries John Clara's brigade at the Copper Refinery nosed out the Negus squad at Open Pit by one second.

W. A. Humphries, Inco fire inspector who acted as judge of the contest, was highly pleased with the calibre of performance turned in by the fire-fighters. About 225 men took part.

The competing brigades were put to three different types of tests. In the first test men selected by lot and blindfolded were required to tie three kinds of firemen's knots: a rolling hitch for holding a hoseline over the top of a roof; a rescue hitch for lowering an unconscious man; a running bowline with two half-hitches to hoist a hoseline up the side of a building. A time penalty was

charged for knots incorrectly tied.

The second test involved putting out an oil fire. Once again a brigade member chosen by lot had the responsibility of picking the most effective type of extinguisher from a selection of seven and dousing the blaze as quickly as possible. The secret of speed in this test was to direct the nozzles from sufficient distance to cover the fire without spilling the burning oil from the pans.

A problem in fighting a theoretical fire in a building or timber yard was the third test. This was where Levack met its Waterloo, by failing to appreciate the construction of the Employees' Club in which the fire was supposed to be burning.

Champs Are Photographed

In the first of the above pictures is the Coniston Town brigade: front row, Mayor Roy Snitch and Fire Chief Bill McLaughlin, Albert Sabourin, Nick Todd, Wesley Best,



Frood-Stobie in Action

Frood-Stobie brigade, recruited from the rockhouse and shops, is seen above in two of the tests which decided the 1949 Inco firefighting championships. In the top picture Tommy Mullen, blindfolded, is tying a rescue hitch in a rope for lowering an unconscious man from a building, while Inco's fire inspector, Bill Humphries, watches closely on the left. The "victim" is Bobby Jackov. Members of the brigade are: back row, left to right, George Passi, assistant chief, Bill Gamble, Norman White, chief, Ed. Peattie; front row, Jack Elbridge, Cliff Logan, Larry Jorgenson, Bud Hall, Ernie Dixon, Steve Valle, Jack Bruce. In the second picture Tommy Mullen is putting out an oil fire with a foamite extinguisher, a time test.

Pasquale Chezzi, Leo Oliver, Wilf Leduc, and Ralph Taylor; back row, Leo Pilon, Alme Blake, Art Gobbo, Hector Gervais, Geno Gobbo, and Felix Belanger. Not shown are Leo Belanger, Omer Laprairie, and Bernard Akey.

Second picture shows the John Clara brigade at the Copper Refinery: standing, Chief Engineer Len Kitchener and, Fire Chief John Clara, Garvais Albert, Adam Goch, Elmer Brook, Bernard Cowdry, and Girard Couplé; front row, Jean Marlan, Joe Bulfon, Ed. Yeo, Fern Aubin, and Art Burden.

Announcing the results of the competition, Fire Inspector Humphries tacked on a word of commendation for the high degree of "fire consciousness" which he finds exists not only among the men in the Company's plants but also among residents of Inco towns. On his inspection trips he finds that the big majority of people are keenly aware of fire hazards and anxious to avert them. A continuance

of this intelligent attitude, coupled with the efficiency of the fire brigades, will maintain the fine record of Inco plants and towns for low fire losses.

MADE COOLIDGE SMILE

The first time that Will Rogers went to the White House to meet President Coolidge, he was accompanied by his friend Irvin Cobb.

"I'll bet you can't make him smile," challenged Cobb, as the two entered the executive mansion.

"I'll take that bet," said Rogers.

When the president greeted them a few minutes later, Rogers pretended not to have heard.

"Excuse me," he said, leaning forward with his hand at his ear, "I didn't catch the name."

This broke even Coolidge's reserve, and he smiled broadly.

Mason is King Of Canadian Welterweights

Alex Mason, the lithe gent with the \$64 scowl who is seen giving the business to the heavy bag in this month's Triangle cover picture, won the Canadian amateur welterweight boxing championship this year in the tournament at Port Arthur.

A driller on 600 Level at Frood-Stobie, Alex earned the unanimous decision of the judges over Johnny Ravenda of Montreal in the final bout in his division.

The popular young mining mittman, who was born in Thessalon in 1923, doesn't wear that savage look all the time. Outside the ring he's a mild-mannered, soft-spoken guy with a warm smile. But when the seconds have scrambled through the ropes and he comes out of his corner for another round, Alex is the type of individual it's wise to avoid. And when he zings across that right, with its kiss of cement, somebody always gets good and hurt.

Won 32 Out of 49

In his 49 fights since he took up the game less than four years ago in Toronto, Alex has hung up 32 wins against seven losses and five split decisions. He has never been



knocked out. His hardest battle was his fourth, against Fitzy Pruden of St. Catharines just before that tough little gent turned pro; Fitzy gave Alex a lesson on the left hook and it was the Northern boy's first loss.

Alex first got interested in boxing when he was in the Army. After the war he got into physio-therapy work at Christie St. Hospital in Toronto as a technician's aide, specializing in physical training, and started his ring career on the side. Since coming to Sudbury he has done a lot to stimulate interest in boxing, and has been an outstanding performer on the Inco Club cards. His victory at Port Arthur brought high honor to the Nickel Belt's fistie fraternity.

A clean-cut fellow who thinks there's nothing better than being in top physical condition, Alex trains religiously at least three times a week at the Inco Club, and his workouts are very rugged sessions.

He was married in 1943 to Mary McCormack of Leeds, England, whom he met when he was overseas. They have two kiddies, Mike, 5, and Penny, 1.

Force never changed anybody's mind, but education and understanding have won a lot of victories, even though they take longer.

Jim Miles Is Held in Highest Esteem by All

More than 300 men of the Nickel Belt turned out to a party at the Caruso Club on October 3 to do honor to one of the finest sportsmen ever to come to the district, Jim Miles, who was retiring on disability pension after 27 years of distinguished service with Inco.

In earlier days as a soccer player, and more recently as a hunter and fisherman and a dyed-in-the-wool supporter of all branches of sport, Jim Miles has earned the friendship and admiration of all with whom he has come in contact for his deep-rooted love of the game for the game's sake, and not for glory or gain.

Presentation was made to him by Rupert Smiley, assistant master mechanic of Inco mines, of an easy chair, footstool, and lamp, as an expression of the universal esteem in which he is held.

Born at Barrow-in-Furness, Lancashire, in 1886, the son of a joiner, Jim started work at the age of 13 in the shipbuilding yards. At 14 he commenced serving his five-year apprenticeship as a machinist, starting at four shillings a week, and at the end of his time joined Vickers, Ltd., where he eventually became a foreman. When British industry appeared headed for a depression in 1920, Jim and his brother-in-law, Bill Stephenson, sailed for Canada. Four days after arriving in Toronto they had landed jobs with Inco and were off to Creighton Mine.

Genius for Improvising

During the shutdown Jim worked as a mechanic in the C.N.R. shops at Capreol, returning to Creighton in the spring of 1923 when operations were resumed. Three years later he became outside foreman, and in 1935 succeeded John Symons as master mechanic. In 1937 he was transferred to Frood Mine as master mechanic, and in 1942 moved over to devote his full time to the complex mechanical problems at the Open Pit. His instinct for machines and his genius for improvising were responsible time and again for keeping vital tonnage rolling from the Pit during the war years when the Allies were calling for every pound of nickel and copper they could get.

The pressure of war-time production took a heavy toll of Jim's health. He drove himself relentlessly, often staying on the job night and day when there was a breakdown or other special assignment to superintend. He took great pride in his work and would accept no half measures in seeing a project through to completion. His knowledge and skill, as well as his friendly personality, won him the respect and devotion of his men.

H. J. Mutz, general supt. of mines for Inco, says of Jim: "He always lived close to his job, and hours meant nothing to him. I have never known a man who was more conscientious about his work than Jim Miles."

An outstanding soccer player in the Old Country, Jim organized a team at Capreol in 1922 and when he returned to Creighton he played with such old timers as Jack Cullen, Jack Treasure, Wally Blackwell, Jimmy Smith, Chaff Cullen, and Sammy Treasure. He retired from the game in 1929. A keen fisherman now, he's eagerly anticipating jaunts next summer to some of his favorite spots along the Sauble River, in from Massey.

Jim was married in England in 1915 to Elizabeth Stephenson, who died in 1935. He



has one daughter, Mrs. J. Callahan of Sudbury, and two sons, Norman and Ab, both of whom are employed at Frood-Stobie and have brought joy to their dad's heart by their fine performances in local hockey. He has three grandchildren.

THE PICTURES

Photographs taken at Jim Miles' retirement party show him:

1. With two other well-known pensioners of the Mines Mechanical Dept., Ted Myhill and John Symons; 2. Receiving the congratulations and good wishes of Albert Beach of Murray, Frank Jenkinson of Creighton, and A. Vaillancourt, formerly of Open Pit and now a Sudbury taxi operator; (3) Following the presentation of his gift by Rupert Smiley, assistant master mechanic of mines.

WHY HE WAS LATE

The Sunday school teacher asked Bobby why he was late.

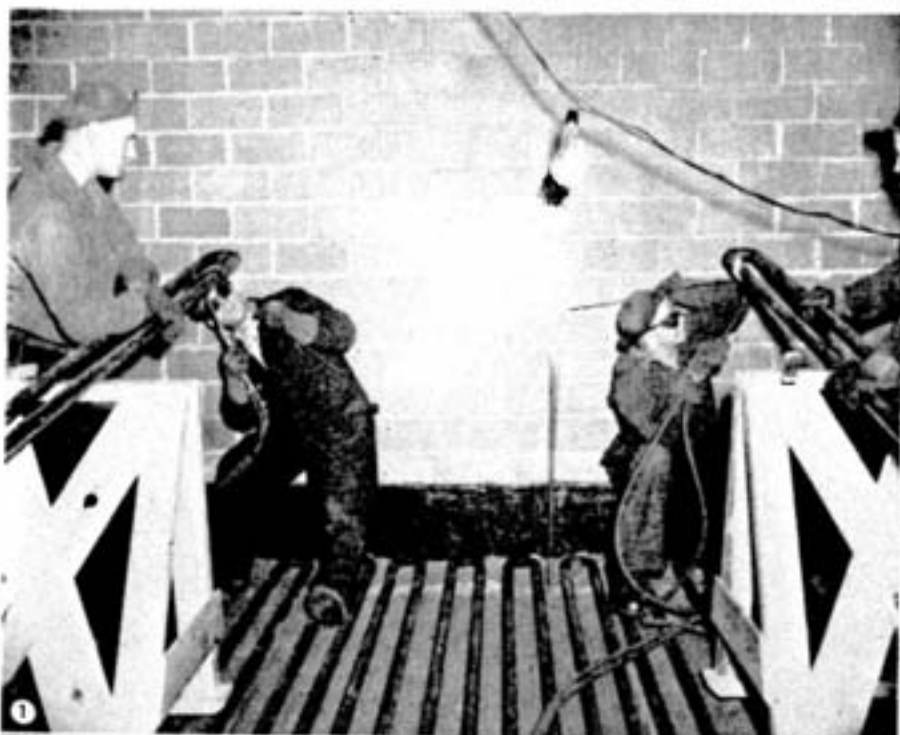
"I was gonna go fishing this morning," said Bobby, "but Daddy wouldn't let me."

"You're a very fortunate boy to have a father like that," said the teacher. "And did your father make it clear to you why you shouldn't go fishing on Sunday?"

"Oh, sure," replied Bobby. "He said there wasn't enough bait for both of us."



An open mind leaves a chance for someone to drop a worthwhile thought into it.



EIGHT MILES OF PIPE FOR NEW CURLING RINK

While a horde of besom an' stane devotees quiver in the throes of anticipation, work proceeds steadily on construction of the latest addition to Copper Cliff's fine range of recreational facilities, the new curling rink.

With seven sheets of artificial ice, commodious lounge, and locker rooms for both ladies and men, the new rink will match the best curling accommodation in Canada. That it will be put to full use, over a much longer season than was possible with natural ice, is a foregone conclusion. Copper Cliff Curling Club is signing up many new members and planning a schedule packed with action for everyone. The first event will probably be underway considerably ahead of completion of the building, so eager are the addicts to get into harness.

Laying of the pipe for the artificial ice plant is a big job which is being handled by the Copper Cliff Mechanical Dept. Almost eight miles of 1½-inch pipe, weighing 11 tons, will be laid. Base for the ice surface is two feet of slag, one inch of quartz, and one inch of sand. The pipes, spaced at 4½-inch centres, rest on 4x4 sleepers six feet apart.

1182 Separate Welds

Accompanying pictures show some of the steps in laying the pipe. In No. 1 Ello Sanchioni and Gordon Henry are busy making the final weld of U-bends at the end of each two-pipe circuit through which the brine will flow when the plant is in operation; there is one supply pipe and one return pipe to each circuit. A total of 1182 welds will be required to complete installation of the pipe.

In No. 2 Bob Nilson is painting the two 6-inch header mains running along the side of the rink which will handle the supply and return of the brine. Every pipe is equipped with a valve for control in case of leaks.

In No. 3 Ello Sanchioni tack-welds a U-bend to a pair of pipes, held in position by Buzz Daley and Joe Renaud.

The Stadium and the Curling Rink will be serviced by the same ice machine, but because curling ice requires a temperature five degrees colder than skating ice, each rink will have its own thermostatic control of the brine pumps serving it.

We cannot escape the present by conjuring up the past nor in trusting to the future.

—Geo. V. Kenyon-Ashenden.



Legion Branch Important Milestone at Levack



A service organization of noble traditions and high ideals was added to the steadily expanding community of Levack on Oct. 15 when Branch 503 of the Canadian Legion was officially inaugurated by Lieut.-Col. G. M. Fitzgerald, provincial president.

This important milestone in the development of the town was welcomed in brief

addresses by Mayor E. Gilchrist and Mine Supt. C. Lively. Mayor W. T. Waterbury of Copper Cliff brought greetings and good wishes from Inco Vice-President R. L. Beatle, who is keenly interested in Legion affairs. Duncan Finlayson, president of the Copper Cliff branch, assisted in the inauguration ceremony, and several members of the Cliff

branch were present to give the new group a sendoff.

Accompanying photos of the ceremony show:

1. Mayor Waterbury of Copper Cliff presenting the charter of the new Levack branch to President Harry Warren. In the foreground is M. J. Tamplin of Falconbridge,

This Was Copper Cliff 60 Years Ago



Very few residents of Sudbury District will recognize the above view of Copper Cliff, taken in 1889 from a point on the hill somewhere between Lady Macdonald Dam and the top of the present Oliver St. At the right are the buildings at the old Copper Cliff Mine, which was opened in 1887 and shut down in 1904, and was located just behind the present Town Hall. The two large buildings facing the camera about the centre of the picture were the boarding houses on Serpentine St. run by Archie Boyd and Tom Smiles, near the present Fire Hall. Large building in the centre, facing away from the camera, was the Yellow Club, where the Bank of Toronto now stands. The first smelting plant, the East Smelter, which commenced production late in 1889, was located to the left of the present Copper Cliff Road, on a site opposite the small bridge about half a mile from town. What changes have taken place in the transforming of this little mining camp into the smartly modern Copper Cliff of today!

district commander of the Legion, who presided.

2. Lieut.-Col. Fitzgerald addresses the gathering, outlining the history of the Canadian Legion, its policies and its ideals, and bestowing his official blessing on the activities of the new branch.

New Members Initiated

3. M. J. Tamplin, district commander, conducts the initiation of a group of candidates for membership: John Hickey, Hector Barr, Wally Gorham, Elmer Lloyd, and Garfield Gillis.

4. The executive of the Levack branch is seen here: Harry Warren, president; Rae Fraser, 1st vice-president; Carl Carlson, 2nd vice-president; Lionel Caldwell, sergeant-at-arms; Elmer Lloyd and Ron MacNeill, executive members, as also are Wally Gorham and Murdo MacLeod, not shown.

At the conclusion of the ceremony refreshments were served, followed by singing and dancing for which the music was supplied by the well-known Alf Mallette.

The new branch, with some 30 members, has selected boys' work as one of its first most important projects, and will sponsor juvenile hockey in Levack this winter. Juvenile baseball will probably be organized next summer.

Knowledge of our duties is the most essential part of the philosophy of life. If you escape duty you avoid action. The world demands results.

Refinery Loop Has 14 Teams

Fourteen teams have hopped into the fray for the Copper Refinery Athletic Association's bowling awards this season, and some hot competition is already being seen. Here are the lineups:

"ENGINEERS" — S. Mitchell (Capt.), A. Nault, O. Wickenden, A. Noble, K. Conley, T. Carrey, B. Cowdery, S. Campbell, O. Galey, H. McPhail.

"GREMLINS" — F. Harrison (Capt.), M. St. Amand, C. Vincent, G. Sauve, F. Vincent, N. Leuschen, M. Bernier, M. Lawson.

"NOMADS" — J. Smith (Capt.), J. Tosto, P. Taricani, T. Scinto, W. Solomon, N. Bertuzzi, M. Homsy.

"WIRE BAR" — A. Clement (Capt.), B. Benard, O. Salvatori, A. Casas, S. Cuppage, J. Manninen, A. Guise, W. Mayoras.

"MECHANICALS" — P. Coulombe (Capt.), N. Caverson, C. Trigg, H. Kolvula, M. Stelmakovich, J. Luptak, L. Andrews, R. Bergeron.

"COMBINES" — O. Mahon (Capt.), S. McGillivray, L. Bradley, W. Day, C. Mateyko, S. Dutchburn, G. Poulton.

"STENOS" — Misses H. McCrea (Capt.), I. Batsford, M. Coughlin, I. Ranta, Mrs. H. Leuschen, Miss T. Shaw.

"LAB" — J. Bryson (Capt.), M. Shamley, J. Crawford, S. Smythe, J. Aurie, G. Fallon, F. Casas.

"WOLVES" — F. Cooper (Capt.), T. Cornthwaite, R. Hiscok, G. Smith, E. Holgate, W. Koth, C. Smythers, J. Tallevi.

"ARCS" — L. Tulloch (Capt.), J. LaRocque, D. Derenosky, H. Caldwell, C. Darcy, P. Hes, G. Fennell, L. Piche, E. Johnson.

"CASTING" — C. Atkinson (Capt.), J. Twardy, R. Howard, D. Sauve, R. Dion, J. Jarsulich, P. Pay, P. Sheridan, E. Lang.

"NEUTRONS" — J. Mason (Capt.), L. Desilets, C. Marshall, F. Tafe, J. Hughes, R. Bourgeault, W. Hart.

"MILLWRIGHTS" — P. Blais (Capt.), C. Genereux, A. Ross, R. Miller, R. Picard, J. Nepsey, R. Desjardins.

"ACES" — G. Stesco (Capt.), F. Carson, H. Ringer, W. Marcolini, P. LaRocque, A. Lalonde, L. Antoniazzi, C. O'Reilly.

DRESS INFORMAL

"I like that fellow you were with the other evening, so I asked him to dinner tonight. I told him just to come in his business suit!" "Father! He's a swimming teacher at the Y.M.C.A.!"

REALLY POLITE

Mother—Marilyn, were you a good little girl at church today?
Marilyn—Yes, Mother dear. A man offered me a big plate of money and I said, "No, thank you!"



How Did He Ever Explain It?

"Never under-estimate the power of a whistle" is the title Don Mulligan of Copper Cliff Pay Office gives to this amusing pair of pictures. He was sitting on the dock at Wigwagan Lodge, Lake Rousseau, Muskoka, looking for something different in the way of a camera shot. He made one picture, seen on the left. Then he gave out with a low whistle. Both the horse and the girl turned quickly toward him, and he made the second snap. Since he was on his honeymoon at the time with the former Rosemary Bell, Don was whistling at the horse—of course. He says so, even.

224 Bowlers in Frood League

With a whopping entry of 224 players, the Frood-Stobie bowling league at Inco Employees' Club, Sudbury, is away to a big season. The "B" section drew so many teams that it had to be split in two for scheduling, and the top three teams of "B1" and "B2" will bowl off for the three awards for the section. List of the teams follows:

"A" SECTION

W. Busch (Capt.), A. Grassam, D. Hamilton, O. Cyr, P. Cardinal, E. Branning (Capt.), E. Bimm, S. Smith, F. Pegararo, B. Elliott, G. Fields, W. Cushing (Capt.), L. Bimm, H. Johnston, G. Robinson, F. Wharton, F. Gamble, P. Bosnak, D. Dickson (Capt.), T. Kane, H. Bouchard, F. Paul, V. Boufford, R. Wilson, P. O'Hagan, F. Florotto (Capt.), R. Hamlin, J. Jones, M. Pluvian, R. Teahan, O. Cull, P. Hall (Capt.), D. Smith, R. Smith, H. Pradmore, R. Lajeunesse, M. Cayen, C. Nesbitt, J. Killah (Capt.), D. Simon, W. Gamble, J. Zimmany, W. Lafleur, A. MacDonald, C. Mason (Capt.), L. Storie, B. Faulkner, P. McGuffie, I. Boal, H. Haddow, C. Mulligan (Capt.), A. Toffoli, S. Valle, M. Katarinac, M. McNichol, C. Scanlon, C. McChesney (Capt.), C. Scully, A. Mantisarri, E. St. Marselle, D. Leduc, M. Presdon, H. Carriere, G. Quinn (Capt.), B. Seawright, J. Eles, N. Choma, E. Tobin, G. Lepage, P. Dowes, A. Stone (Capt.), W. Woollacott, W. Baby, R. Brown, J. Kilby, J. McCreedy, E. Simon (Capt.), T. Zaitz, M. Opaleychuk, W. McKnight, E. Dunn, J. Watkins (Capt.), W. Stevens, R. Day, L. Midgley, K. Segsworth, N. Leore.

"B1" SECTION

G. Burmaster (Capt.), T. Peacock, G. Ireland, B. Conn, B. Hertlen, F. Harrington, J. Chornoboy (Capt.), A. Forcier, J. Scott, L. Plante, P. Brunelle, E. Dubriel (Capt.), B. Robertson, J. Taylor, W. Bull, J. Armaden, A. McIntyre, G. Porter, L. Gaudette (Capt.), P. Smith, C. Gamo, R. Thompson, J. Shaw, R. Moreau, M. Lacourciere (Capt.), V. Kreko, G. Kyer, H. Radey, E. Trembley, G. Sedore, J. O'Grady (Capt.), E. Daley, A. Allen, U. Kreko, D. Konopeda, S. Strutt, H. Ross (Capt.), T. Hearty, E. Moore, W. Jewitt, E. Belfrey, B. Rush, J. Stripay, W. Reynolds (Capt.), J. Oke, G. Disley, E. O'Hearn, E. Warnecha, O. Dunsmore, D. St. Germain (Capt.), E. Renaud, D. McCuaig, W. Cresswell, L. Deschamps, J. Bastien, A. Westfall (Capt.), T. Wilson, A. Austin, P. Brisbois, E. West, H. Peterson, M. Pritchard, E. Whalen (Capt.), L. Bush, O. Laflambe, A. Miles, L. McLean, H. Doig.

"B2" SECTION

T. Boyd (Capt.), W. Young, R. Lepage, P. Landry, A. Boyd, M. Allen, J. Doucette (Capt.), B. Hagerty, H. Grenon, E. Cayen, T. Hickey, A. Leclair, D. Jones (Capt.), E. Kiskynski, A. Kerr, J. Magder, E. David, J. Rodda, T. Johnston (Capt.), J. Chalmers, W. Dydik, G. Sullivan, G. McKennan, M. Coulter, P. Katarinac (Capt.), O. Rose, L. Roy, E. Dixon, N. Dennis, J. Bratina, H. Slade, A. Leclair (Capt.), C. Harrower, P. Bryant, E. Horstness, J. Pettigrew, W. Byers, P. Lloyd (Capt.), B. Hurd, V. Brunelle, M. Coulter, H. Murdock, C. Burton, C. Price (Capt.), E. Hickey, J. McFarlane, T. Ryan, O. Shellwell, D. Dinnis, G. Blackmore, E. Tweedle (Capt.), A. Sheehan, T. Marshall, L. Clement, P. Jenkinson, P. Boudrenault, J. Teahan (Capt.), C. O'Hara, A. Buell, G. Guy, H. Basso, W. Dool, M. Martin, J. Witte (Capt.), S. Dunster, N. Barabanoff, W. Krutz, F. Dugal, A. Hughes.



Startling Proof

To support their stories of how hard they worked in the bush last summer, lugging their electro-magnetic gear over mile after mile of rugged country, members of an Inco geological field party brought back these snapshots. In the first picture the hardy Eskimo, Iglulik, is seen in camp on the morning of his first day with the party. Second snap shows him in the evening, shockingly wasted after only 10 hours of trying to keep pace with the Inco geologists.