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Don M. Dunbar, Editor.

EDITORIAL OFFICE COPPER CLIFF, ONT.

SOME BASIC FACTS about METALS and ALLOYS

(By the Editor of Nickelsworth)

When Mother Nature made the earth she used 96 kinds of building blocks. We call them "elements". They are substances with characteristics which cannot be changed except by atomic bombardment. And of these 96 substances, about thirty are commercial metals used by man in modern industry. The rest are either rare metals unobtainable in practical quantities, or non-metallic solids, liquids, and gases.

Man rarely finds elements in free form within the earth's crust. Usually he must refine ores to separate metals from their compounds of sulphur (sulphides) or oxygen (oxides). A special branch of science, called metallurgy, is devoted to the refining of metals and converting of metals to rods, bars, sheet, tubing and other forms used in industry. Related to this branch of science is the field of physical metallurgy which determines and measures the properties of metals and alloys so we can use them to greatest advantage.

Metals and Alloys

A metal is always a solid element, heavier than water, which can be fused with other elements. (The only exception, mercury, is a liquid metal at normal temperatures.) An alloy is produced by melting or sintering together two or more elements. So, by combining (or alloying) various elements the metallurgist creates thousands of new materials with metallic characteristics different from those of Nature's single elements.

Characteristics

Just like people, each metal and alloy has an individual personality made up of several traits. The traits of a metal's personality are called "properties". The list below shows the seven important properties of a metal and some of the characteristics which belong to each.

PROPERTIES	CHARACTERISTICS
Physical constants	density, melting point
Mechanical properties	strength, hardness, ductility
Chemical properties	composition, resistance to corrosion, resistance to oxidation
Thermal properties	heat conductivity, expansion
Electrical properties	electrical conductivity and resistance
Optical properties	reflectivity, colour
Magnetic properties	magnetic strength, permeability

Together, these seven properties reveal the personality, and usefulness, of a metal or alloy.

Let's see how this works out. Below is a table which shows some properties of well-known metals and alloys. Reading this table you can see that zinc is lighter and softer than copper or nickel and melts at a much lower temperature. Also, you can see that Monel, an alloy, is heavier, stronger and



Tourists in record numbers are getting a first-hand look at Inco's big smelter at Copper Cliff this summer. As many as 65 casual visitors have dropped in during a day to see the fascinating show, their interest aroused either by the Company's new display room in Sudbury or by the sight from the highway of the three majestic stacks. They come from every state in the Union, every province in Canada, and often from over the ocean. In addition to the tourists, visitors this summer have included organized tours such as local school groups, 10 mining students from the University of Wisconsin, 11 geological students from the University of Illinois, and various organizations such as the Junior Investment Dealers Association of Toronto, of whom there were 30. Picture shows a group passing through the smelter yard with their guides.

harder than brass or steel and will resist the action of sulphuric acid better. Facts like these help you put the alloy with the right personality to work on the right job.

Material	Metal or Alloy	Composition	Resistance to Corrosion in Sulphuric Acid	Melting Point °F	Density lb. per cu. in.	Tensile Strength psi.*	Hardness* Brinell
			moderately				
Nickel	metal	Ni	good	2635	0.321	70,000	110
Copper	metal	Cu	fair	1980	0.322	45,000	105
Zinc	metal	Zn	poor	786	0.258	25,000	100
Monel	alloy	Ni+Cu	good	2460	0.319	90,000	150
Brass	alloy	Cu+Zn	fair	1710	0.306	70,000	140
Steel	alloy	Fe+Mn+C	poor	2760	0.284	70,000	140

* Annealed.

† "Nickel and Nickel Alloys."

The above tabulation illustrates some properties of well known metals and alloys.

Structure of Metals and Alloys

The basic structure unit of a piece of metal is the molecule. But a piece large enough to see and handle consists of millions of molecules hanging together in clusters called lattices. The arrangement of these lattices within a piece of metal form grain patterns which have an effect on the personality of the metal.

If you polish and etch the cross-section of a piece of metal you can see (under a microscope) its structure of grains. In the case of a cast metal, you see a fern-like pattern. By hot working and annealing this cast metal the grains become smaller and more uniform. If the same piece is then cold worked these grains will stretch out in the direction of rolling or drawing. Then, if the piece is further treated at high temperature, the stretched grain will change back to smaller, more uniform grain shapes.

Changes like these in the structure of a metal or alloy can cause changes in the material's personality, even though the actual molecules remain unchanged. That's why there can be a great difference in pieces of the same metal or alloy which have been shaped or heat-treated in different ways.

In a subsequent issue the Editor of Nickelsworth will tell what happens to iron and copper when they are alloyed with various elements.

UNUSUAL FELLOW

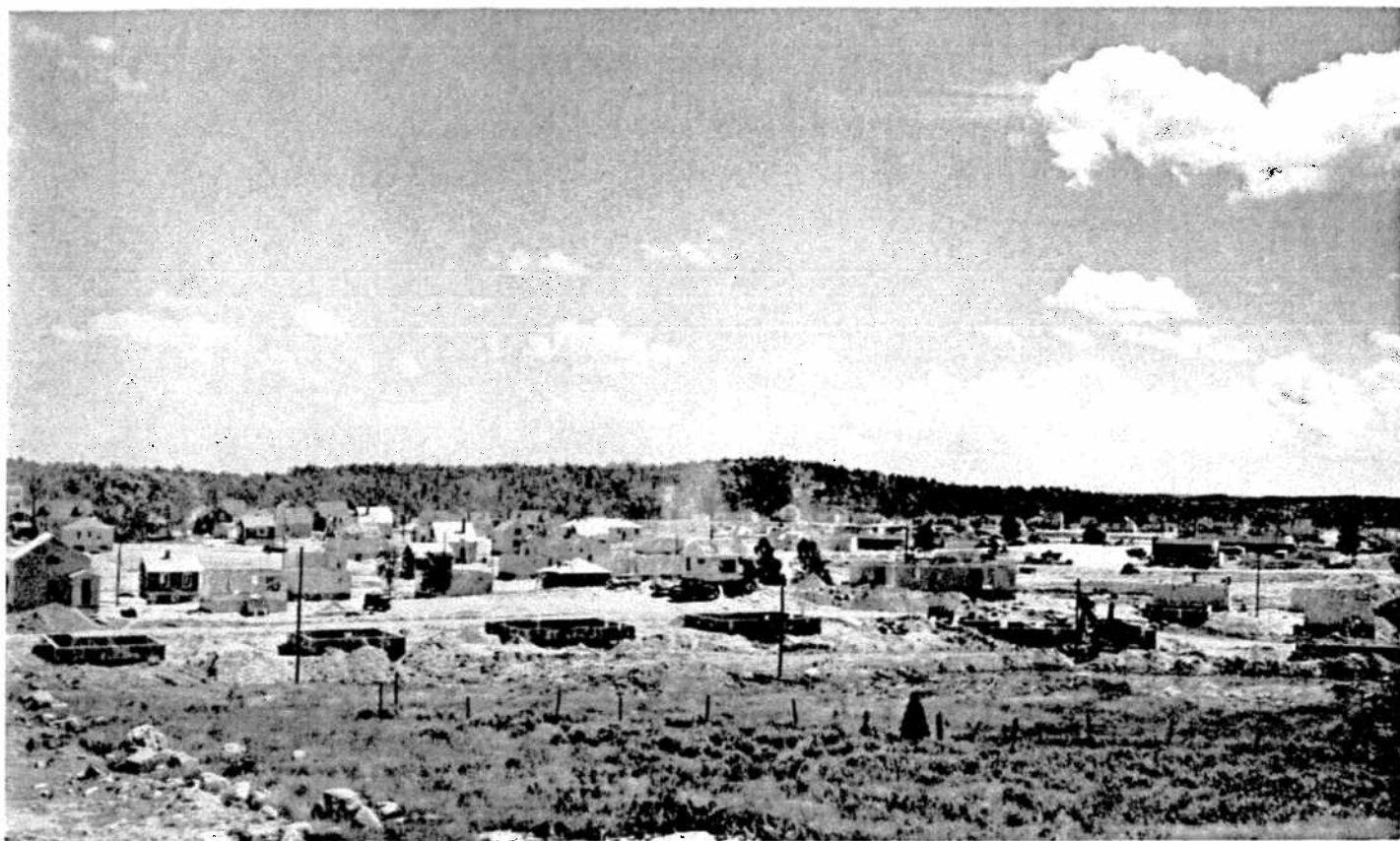
A carter stopped his vehicle outside a pub and bought a large whiskey, which he gave to his horse. The horse drank it and said: "Thank you very much—that was good. But aren't you having one?"

"Oh, no," replied the carter in a shocked tone—"I'm driving."

INCO FAMILY ALBUM

Contriving to look cool, collected, and contented despite the heat were all the delightful people we met in our Album tour this month: (1) Mr. and Mrs. Fred Rivers (Port Colborne) with Mark, 3, Paula, 20 mos., and Linda, 3 mos. (2) Mr. and Mrs. Jim Grassby (Mines Dept., Cop per Cliff) with Andrea, 4, Claudia, 7, and Miriam, 1. (3) Mr. and Mrs. Archie Grassam (Frood-Stobie) with Archie Jr., 10, Christine, 17, and Margaret, 7. (4) Mr. and Mrs. Andy Ostachek (Creighton) with Joyce, 8, and Carolyn, 10. (5) Mr. and Mrs. Carl Clubb (Murray) with Bob, 4½, and Kenny, 8½. (6) Mr. and Mrs. Jim McCoy (Levack) with Dawn, 15, and David, 7. (7) Mr. and Mrs. Jack Spencer (Garson) with Winston, 9, Rodney, 4, Herbie, 14, and Clayton, 11.





450 Homes, 17-Room School for Model New Town of Lively

On a rolling plain midway between Copper Cliff and Creighton Mine a brand new community is in the making, a community of neat modern homes, a large public school, stores, and other facilities. It's the town of Lively, being built by Inco to help carry out a major expansion of its mining operations in the Sudbury District.

During the past 10 years Inco has been engaged in a continuing program of extending its regular underground operations at Creighton, Garson, Levack and Frood mines and, in

addition, new underground mines are being brought into production at Stobie, Murray, and Creighton. This expansion will offset tonnage obtained from the Company's great open pits, where operations are scheduled to be completed about 1953.

Considerable increase in manpower and shift of residence are among the many far-reaching complications involved in the conversion to all-underground mining, and an important feature of the long-range program has been construction of new homes, and

enlargement of educational, recreational, and other welfare facilities, for Inco employees. Since 1941 Inco has allocated for this purpose more than \$9,000,000. It has either built or let contracts for 865 new dwelling units, and has built three more large employees' clubs, a curling rink, and additions to schools in Company towns. It has also given substantial support to various community projects in Sudbury.

The new town of Lively, named after a veteran employee of the Company who has risen in the ranks from miner to mine superintendent, is springing up to accommodate the movement of manpower required for Creighton Mine, where in addition to the expansion of underground operations a 10,000-ton concentrator is about to swing into full production.

In a picturesque setting on the south rim



First Day and
first stamped
Letter from

Lively, Ont
Post Office

Which opened
during the

Centennial Year
of the Canadian
Postage Stamp.

Mr I. J. Simcox
Genl. Asst. to Vice Pres.
International Nickel Co
Copper Cliff
Ont.

Valuable Souvenir of New Town

A collector's item is this first letter to be post-marked at the brand new town of Lively. On the first day his office was open, Postmaster John Archibald despatched the letter to I. J. Simcox, general assistant to the vice-president of Inco. It will be placed in the official files of Lively, and a century or so from now will probably be worth quite a heap of lettuce.

of the famous Sudbury Basin, about 12 miles from Sudbury, 1,100 acres of rich farmland was purchased for the Lively townsite. The project was pushed with the vigor characteristic of Northern Ontario's mining industry. Sewer and water services are being installed for 450 homes, and several contracting firms have put their men to work on housing construction. In this hive of activity during the past 12 months 125 homes have been completed and occupied, and the balance will be built this year.

Ten different architectural styles have been used on the dwellings at Lively to produce a pleasing variety of design. Some of the homes are bungalow-type, others storey-and-a-half; some are of insul brick, others are stucco, and others of wooden sheeting. They have from four to six rooms, hot air furnaces, hardwood floors, full concrete basements, and all modern facilities.

Lively's public school has been built to the latest educational requirements in line with the plan to make the new community one of Canada's most modern mining towns. A seven-room section has already been completed, and construction of another 10 rooms has commenced.

In the town's smartly designed business block there will be a grocery store, a clothing and drygoods store, a post office with lunch counter and news stand, a drug store, a barber shop and beauty parlour, and completely appointed offices for a doctor and a dentist. A portion of the second floor will contain apartments, and the remainder will be a teachers' residence with several private rooms, a lounge, and a kitchen.

Streets are being graded and concrete sidewalks poured. The residential lots, 60 x 110 ft., will all be landscaped. The wide streets have been laid out attractively in a semi-circular pattern to fit the contours of the land, and the slopes and valleys of the terrain will provide opportunity for effective landscaping.

Property has been set aside for the construction of churches, a parking lot, and a sports field.

The Company has also made available at Lively building sites for Inco pensioners who wish to erect their own homes.

Additions at Other Towns

Housing development got under way at Levack Mine in 1943, when 50 new homes were added to the townsite, and since then 130 have been built along with the addition of several rooms to the school. At Copper Cliff during the past four years 100 new

homes have been built, and additions made to the public and high schools. At Creighton Mine development has included 70 new homes and a four-room addition to the school. New homes have also been erected at Murray Mine, Garson Mine, Frood-Stobie Mine and Willisville since 1941, bringing to a total of more than 1,700 the number of employee dwellings owned by the Company in the Sudbury District.

Inco Increases Nickel Output

An increase of 1,000,000 pounds a month in refined nickel production has been achieved by the International Nickel Company, according to an announcement by R. L. Beattie, vice-president and general manager.

Previously scheduled to be realized by the year end, the increased rate of production has been accomplished almost six months in advance.

It has been made possible by the installation of emergency facilities at the Company's Canadian plants and by the acceleration of a major program of expansion of underground mining capacity, accompanied by metallurgical process changes.

Defence requirements of the western nations, augmented by heavy civilian requirements, have created an abnormal overall demand for nickel which is taxing Inco's production facilities to the utmost, Mr. Beattie said.

It comes at a time when the Company is in the midst of a large program of conversion from the mining of both surface and underground ore to the mining exclusively of underground ore.

"In view of these circumstances," Mr. Beattie said, "we are particularly gratified at being able to increase our production of refined nickel by 1,000,000 pounds monthly, so far ahead of the date it was at first thought possible."

Through this increase Inco's production will be at capacity of 21,000,000 pounds a month, a higher level than in any peacetime year.

Character is like a tree and reputation like its shadow. The shadow is what we think of it; the tree is the real thing.

"100 GRAND" AT REFINERY

Men of Distinction in Inco last month were the workers at the Copper Refinery, who put their collective shoulders to the safety wheel and pushed past the 100,000-safe-shifts mark.

They started their run on Feb. 20 and on July 20 completed 100,000 shifts without a lost-time accident. It was the fourth time they had scored the big achievement. Complimentary theatre tickets will be issued to them in the near future.

Safety Engineer Lionel Roy thought the performance especially good because many new and inexperienced men had been taken on in the interval. Apparently the older hands around the plant thoroughly impressed the new men with the importance of safe workmanship at all times.

INEVITABLE SCOTTY

And there's the one about the Scottish cowboy who bought only one spur. He figured that if one side of the horse went, the other would, too.

FUSSY

Teacher: "What's a cannibal, Cedric?"
Cedric: "A guy who loves fellow men — with gravy."

Had Great Luck At Manitou Lake



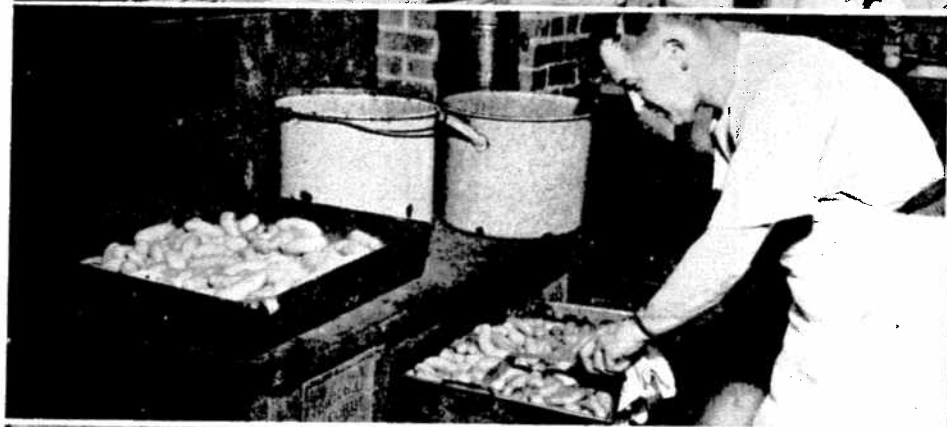
On only one day out of the two weeks' vacation he spent fishing at Manitou Lake on Manitoulin Island did Grant Cranston of the coal plant at Copper Cliff Smelter fail to catch at least one fine big trout. It was the best fishing holiday he ever had, he said. Picture shows Grant and his wife with three beauties they hooked in half an hour, one 18½ lbs., one 15 lbs., and one 9½ lbs.



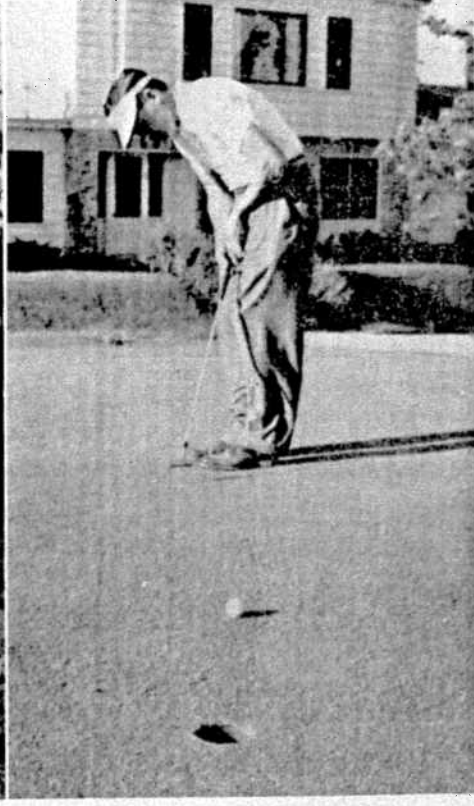
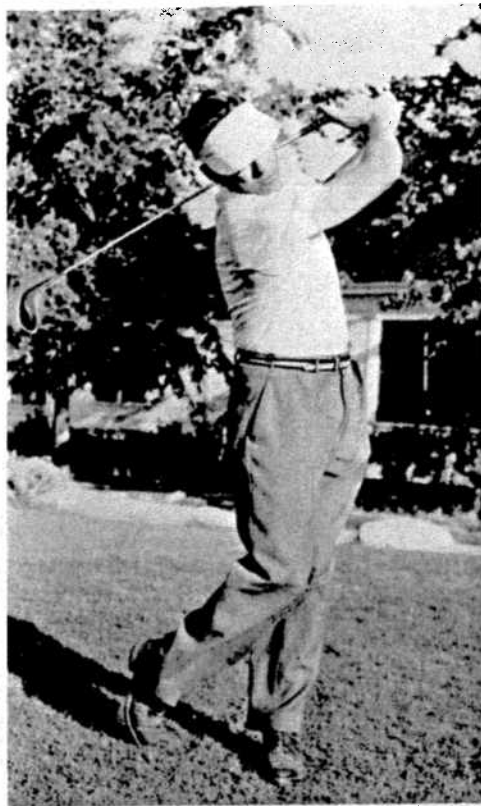
Young Scouts Kept Hopping at Annual Camp

With a total enrolment of 75, the annual two-week main camp of Sudbury District Boy Scout Association at the beautiful permanent campsite at Windy Lake was a thorough-going success again this year. The camp chief, District Scoutmaster P. L. Petersen of Coniston, was enthusiastic over the co-operation he got from leaders and boys alike in carrying out an ambitious program of activities.

Many older boys who ordinarily would have



Stew Watson New Champion of Idylwyld Golf



been back at camp had taken jobs for the summer, and as a result there were no less than 52 tenderfoot Scouts in the enrolment. This forced curtailment of some projects which could have been carried out by experienced campers, but by and large the program was successfully completed.

Full courses of instruction in swimming, woodcraft, etc., were given, supplemented by special projects such as building a diving tower. Renewed emphasis was placed on outdoor cooking, the boys preparing many of their own meals with supplies they picked up at the mess hall; menus were planned by the assistant scoutmaster.

In the first of the photographs accompanying this story is seen the permanent campsite of the Fox Patrol. Preparing the noon-day meal on the fireplace built by the patrol are Ken Fitzgerald and George Fletcher; on the left Bobby Fera is doing a clean-up job with a rake; on the right Frankie Sottile and Alfred Boulay are cutting wood with David Martin holding the log; in the background, washing dishes, are Barry Olivier and Maurice Tessier.

Planning a canoe trip by grid map, in the second picture, are the camp leaders: Scoutmaster R. V. Keffer of 1st Coniston Troop, Scoutmaster W. E. Poirier of 2nd Coniston Troop, District Scoutmaster P. L. Petersen, Asst. Scoutmaster T. E. Geoffrey of 2nd Coniston Troop; standing are Asst. Scoutmaster W. R. Marttila of Lockerby Troop and Asst. Scoutmaster R. C. Hulme of 5th Sudbury Troop.

That all-important post of camp chef was very capably filled this year by Eugene Chartrand of Sudbury, seen in the third photograph preparing a mammoth batch of sausages for his perennially hungry customers.

In the fourth and fifth pictures two of the lads are shown as they worked on personal projects: George Fletcher is lashing the ribs for a birch bark canoe and Ken Fitzgerald is finishing a fine totem pole.

Four 3-day camps for Sudbury District Wolf Cubs were held prior to the main Scout Camp. Two other two-week Scout Camps were also held.

Had a Handicap Of Only 13 at the Tender Age of 11

Stew Watson of Inco's Mines Dept. is the newly crowned champion of Idylwyld Golf and Country Club, and if he keeps his shots clicking the way they are this season he seems all set for a long and prosperous reign.

The king of the local fairways, who plays to a 3 handicap, got an early start in the Royal and Ancient game. When he was 11 years old he had a 13 handicap and was chosen for the Cornwall team playing in the St. Lawrence Valley Golf League.

Stew's home was in Montreal but he spent most of his boyhood vacations with a cousin in Cornwall. There he took to golf like a duck to water, starting as a caddy but swinging a club whenever he got a chance.

The war seriously interfered with his golfing career, although it was also responsible for an occasion which stamped him as a born tournament player. This was in July of 1942, when he was stationed at an R.C.A.F. training school in Winnipeg, and the sports page of the Tribune reported the incident as follows:

"LAC Stewart Watson was a promising Montreal junior two years ago. He didn't get to play in the national junior championship event because he happened to be attending school at the time it was contested. Now he's in the air force.

"Some of his friends at No. 3 Wireless School suggested that he enter the Manitoba amateur championship. He hadn't played this year, but Watson was game. Where could he obtain sticks? A friend volunteered to look after this matter.

"Dr. Gallagher of the tournament committee had just finished telling the story about Ben Hogan, the U.S. professional star, winning his latest competition with only nine clubs when Watson came up to the 18th green lugging a flimsy bag in which rattled a single wood, three irons

(Nos. 3, 5 and 7) and a putter.

"The card he turned in was an 83, and it included an 8 and a 7 on the first nine.

"To make the story better, Watson's borrowed clubs were ladies' clubs, far lighter than anything he had ever used before. 'I think they're the \$1.98 kind,' he grinned.

"He said, 'I couldn't hit a full shot off the tee with that driver. Too light. And I needed a No. 9 iron in the worst way.'

Any fellow who, after a long lay-off and playing with somewhat less than regulation equipment, could come up with a performance like that was bound to get to the top of the game, and his triumph at Idylwyld is no surprise.

Stew played very little golf during the balance of the war years; as a matter of fact it wasn't until 1949 that he again took up the game in earnest as a member of Sudbury Golf Club. He had come to the Nickel City in 1947. He became a member of Idylwyld in 1950.

He was married in Montreal in 1946 to Ruby Taylor, and they have one daughter, Sandra, aged 4.

A quiet, purposeful type on the course, Stew is popular with his fellow members. He's a worthy wearer of the championship laurels.

APPOINTMENTS ANNOUNCED

Vice-President R. L. Beattie announced the following appointments effective July 15, 1951:

C. C. Chapman, superintendent purchases and stores.

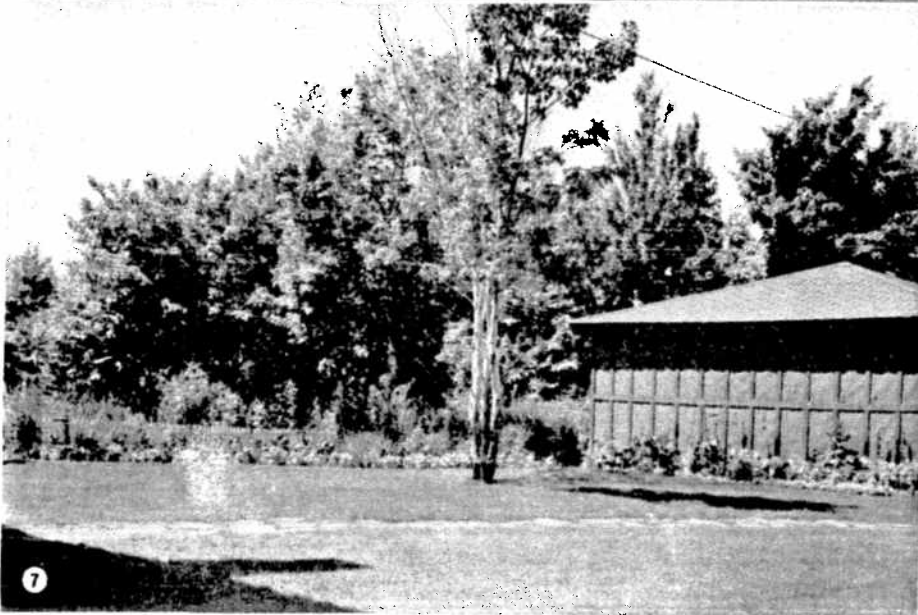
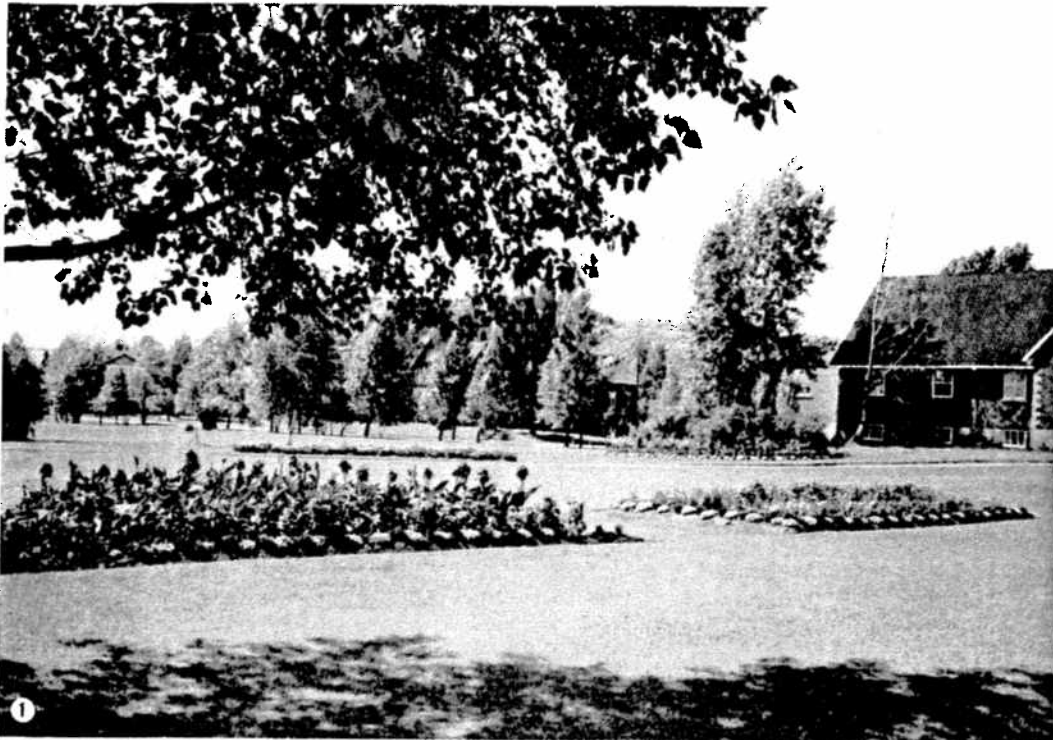
B. M. Forsythe, general purchasing agent.

J. L. McClellan, purchasing agent (Mining & Smelting Division).

H. W. Tyers, assistant purchasing agent (Mining & Smelting Division).

OIL BURNER INSTALLATIONS

Householders in Company houses who are having electrically-operated oil burners installed are asked to advise the real estate agent immediately the installation work starts so that the Company electrician may visit the place and make sure the oil burner installer is using the proper electrical circuits.



By Their Works We Know Them

This is the time of year when the works of the gardener bear fruit in beautiful home surroundings. Neighbors and visitors share the pleasure of his lovely flower beds, his neatly trimmed lawn, his well-kept shrubs, the lush growth of his vegetable garden. In pursuit of his hobby he gives joy to others as well as to himself.

Here and there in the district last week the Triangle camera picked up these scenes of summer loveliness; even in plain black and white, robbed of their rich color, they're inviting:

1. A section of Nickel Park, Copper Cliff, never more beautiful than it is this year.

2. Bill Oja of Creighton in a corner of the garden he won from the surrounding swamp.

3. The little private park beside the home of H. P. Boucher, Creighton.

4. Camille Prevost is responsible for these attractive home grounds at Coniston.

5. Another view of Bill Oja's well-groomed place at Creighton.

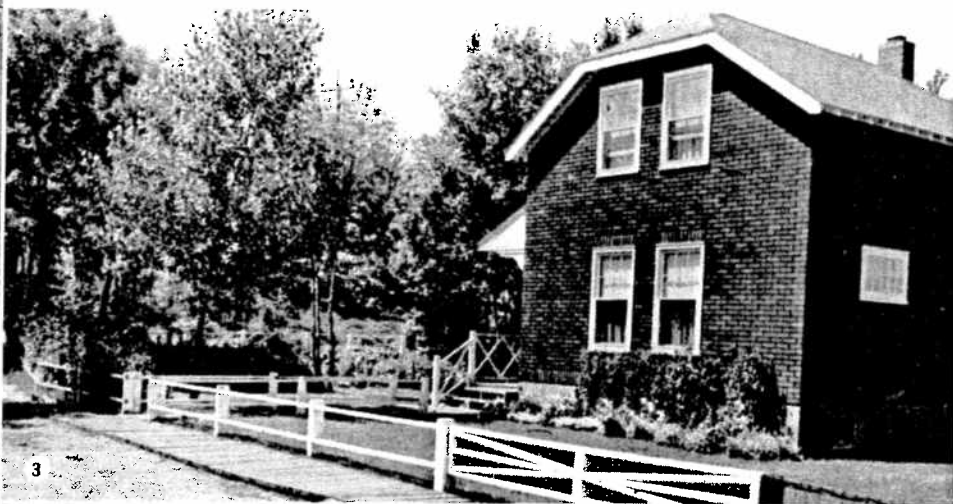
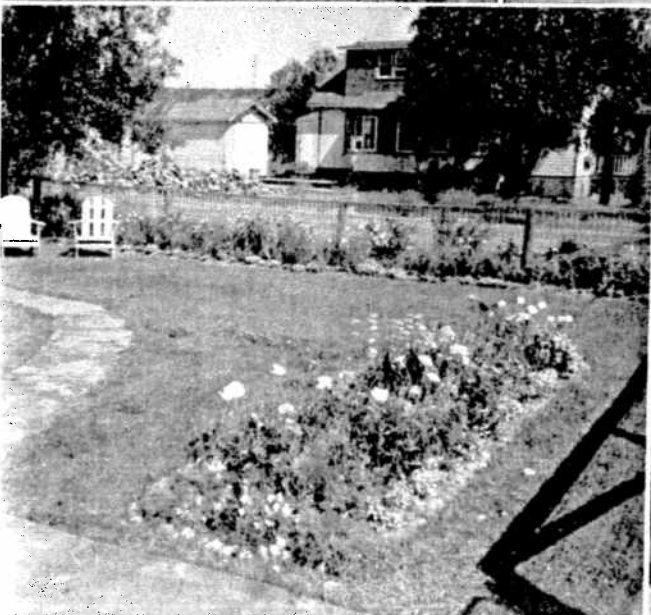
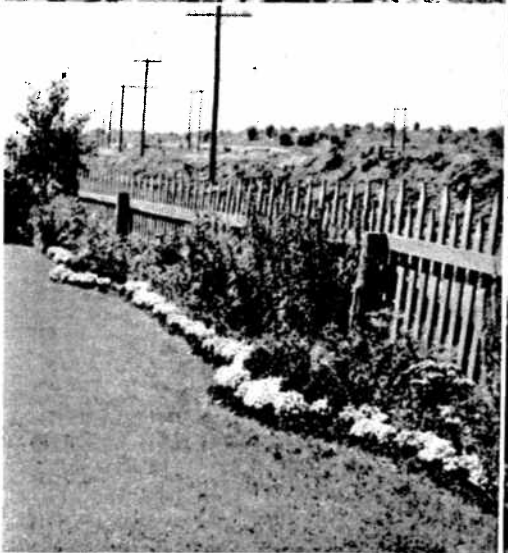
6. Gordon Wilson of Frood-Stobie is famous for his vegetable garden and home grounds near the turnoff of the Idylwyld Golf Club road.

7. The back garden at Earl McMullen's, Creighton.

8. Grounds at Fred Spencer's, Coniston.

9. Mrs. Percy Johnson, Coniston, has an attractive place.

10. Ted Fosten, Copper Cliff, always has a fine rock garden.





“Up” Meets “Down” at the Frood Pit

Arrow points to the spot, 335 ft. from original surface in the narrow south end of the Frood-Stobie Open Pits, where the first contact has been made with the underground operations which will complete mining of the ore in this area. In the background is seen the wider section of the Frood pit, where surface mining to much greater depth is feasible and will not be completed until 1953.



Widening First Slot Raise

Picture shows one stage in the widening of the slot raise driven in the south end of the Frood pit as mining in this area becomes an all-underground operation. George Quigley, blasting foreman, superintends loading with powder of a churn drill hole. Working with him are George Federonko, bench blaster, and Tony Muzzen, sand blaster. The slot raise, since widened by drilling and blasting into a slot 15 ft. wide and 75 ft. long in preparation for stoping, connected the pit bottom with underground operations 40 ft. below.

See Beginning of End For Surface Operations

The meeting of surface and underground mining operations at Frood-Stobie, planned back in 1938 when the Open Pit operations were started, is finally taking place. Another move is being made in the transition to all-underground mining at Inco.

In the narrow south end of the Frood section of the Open Pits the clanking churn drills and the big power shovels have retired from the scene. Further mining from surface there would be less economical than mining from underground.

In the wider section of the Frood pit, where surface mining to a much greater depth is economically feasible, operations are not scheduled for completion until sometime in 1953. Then the underground crews will take over recovery of the balance of the

orebody exposed in that area too, as they will also in the Stobie pit. A vast amount of ore still separating surface and underground operations remains to be mined.

As usual, the Mines Dept. has come up with a smooth method for carrying out the final transition to all-underground mining at Frood-Stobie.

First step of the change-over, in the completed south end of the Frood pit, was to drive a 9-in. churn drill hole from the pit floor through to the stopes 40 ft. below. Then the diamond drillers took over underground and widened the churn drill hole into a raise. The next play was made by the pit miners with their churn drills; they drilled and blasted a series of holes which expanded the raise into a slot 15 ft. wide

and 75 ft. long. With this slot as a starter, underground miners will now extend their stope right across the bottom of the pit. Muck will be pulled out with slushers and sent down an ore pass to 1000 level, where it will be crushed and then hoisted to surface in No. 3 Shaft.

A series of these slots will eventually be opened across the bottom of the pit.

THE GENTLE HINT

A customer sat down at a table in a smart restaurant and tied a napkin round his neck. The scandalized manager called a waiter and said to him: "Try to make him understand, as tactfully as possible, that that's not done."

Said the thoughtful waiter to the customer: "Pardon me, sir. Shave or haircut?"

BEFORE AND AFTER

Two lovers, walking down the street — She trips, he murmurs: "Careful, Sweet." Now wed, they walk the selfsame street, She trips, he growls: "Pick up your feet!"



Lake Ramsay Racing Canoes Catch Limelight

A glorious summer sport, as Canadian as hockey and just as demanding of superb physical condition, canoeing is steadily gaining in popularity among Inco employees and their neighbors in Sudbury.

Sudbury Canoe Club now boasts a membership of 125, many of them youngsters born water-wise beside Lake Ramsay and lured by the flashing paddle, the swift surge of the slight craft as it knifes the waves.

In Triangle's book there are few sights which can equal the thrill of a war canoe, its 15-man crew of beautifully muscled young athletes throwing everything they have into a co-operative effort as they drive their bark swishing through the water.

First of the accompanying pictures shows the crew of a war canoe in a workout on Lake Ramsay. The captain, standing in the stern, is Fergie Legge, also well-known for his skiing activities and obviously a chap who is happiest when his eyelids are heavy with either snow or spray. Members of the crew are Don Stringer, Allan O'Gorman, Cliff Langman, Doug Campbell, Ken Webster, John McMorran, Dick Facer, Evan Gordon (Frood-Stobie Mechanical), Bill McIntosh (Smelter), Bob Charsley (Frood-Stobie Mechanical), Bob Horne (General Office), Bill Thornley (Metallurgical, Copper Cliff), Rusty Hubbs, Frank Thom (Copper Cliff Reverbs) and Fergie Legge.

Bending muscledly to the stroke in the 2nd picture is Don Stringer, who, quite apart from the fact that he has a very nice first name, is establishing himself as the white hope of the Sudbury Canoe Club as far as outside competition is concerned. This young man, 17 years old, last year won the Canadian juvenile single championship at the annual regatta of the Canadian Canoe Association, and his clubmates say he's certain to cop the junior title at Ottawa on August 4 if he gets any kind of a break.

Third picture shows Don Stringer with his parents, Mr. and Mrs. Weir Stringer, who seem not averse to the suggestion that their son is quite a canoeing character. Weir needs no introduction to the boys at Frood-Stobie, where he is a familiar figure.

And in the 4th picture, surrounded by a group of interest canoeists, is Al Eldridge



Lunch-Hour "Shows" Spread Safety Story



A new wrinkle in safety instruction which promises to have a far-reaching effect on Inco operations is in the process of development by the Safety Dept. Photographs are being made of men performing their jobs, both underground and on surface, at the Company's mines, and these will be shown as slides accompanied by a lecture by the safety engineer or shift boss, who will point out the principles of safe workmanship involved. Above picture shows the audience at a noon-hour "show" in the commodious lunch room on 14 level at Creighton No. 3 Shaft. The men are keenly interested in the new method of safety instruction, and follow the lectures closely. Safety Supt. A. E. O'Brien believes that the "local color" in the photographs will bring the safety message home much more effectively to Inco employees.

(Smelter Efficiency) in his heyday a holder of Dominion titles and now vice-commodore and general factotum of the Canoe Club, going over the program of the Canadian regatta. Seen with him are Barbara Waller, Shirley Elliott, Allan Duval, Bob Charsley, Jim McIntosh, and Rusty Hubbs. Seems as if Brother Eldridge travels in nice company.

Organized in 1925 by W. S. "Bill" Beaton, now commodore and also mayor of Sudbury, the Canoe Club has a colorful history highlighted by the triumphs of its representatives in Dominion regattas and by its sponsorship of teams in local sports such as girls' softball, rugby, hockey, baseball, track and field, boxing and wrestling.

Won Many Championships

Outstanding achievements by its members in Canadian canoeing contests include the following: 1926 — W. S. Beaton and G. G. McCubbin won the senior tandem at the C.N.E., Toronto, in the record time of 4 min.

5 sec. for this course, defeating the Canadian and Olympic champions; 1927 — E. Godwin, G. G. McCubbin, W. S. Beaton, and W. J. James won the intermediate fours at the C.C.A. in Gananoque; 1930 — D. McCullough won the junior single at the C.C.A. in Hamilton; 1934 — Gordon Lane, O. Boucher (Purchasing Dept.), R. Scott and A. Eldridge won the junior fours at the C.C.A. in Lachine; 1935 — J. Wang, D. McCullough, Ray Scott and Charlie Eldridge won the senior fours at the C.C.A. in Ottawa; 1936 — J. D. McInnes and A. Eldridge won the junior tandem and A. Eldridge won the junior single at the C.C.A.; 1950 — Don Stringer won the juvenile single at the C.C.A.

Aubrey Ireland Jr. (Copper Cliff Mechanical) won the Canadian senior single three years in succession, only man to achieve such a feat, and was picked for the Olympic team in 1940, but was thwarted from an international triumph by cancellation of the

meet on account of war; his father won the same title twice in succession.

Whatever happens to its representatives in the 1951 meet of the Canadian Canoe Association at Ottawa, Sudbury Canoe Club can look forward to an illustrious future; it has been faithfully training its young fry, and on this basis no sports organization can fail to produce a Dominion champion.

SO HE RETURNED

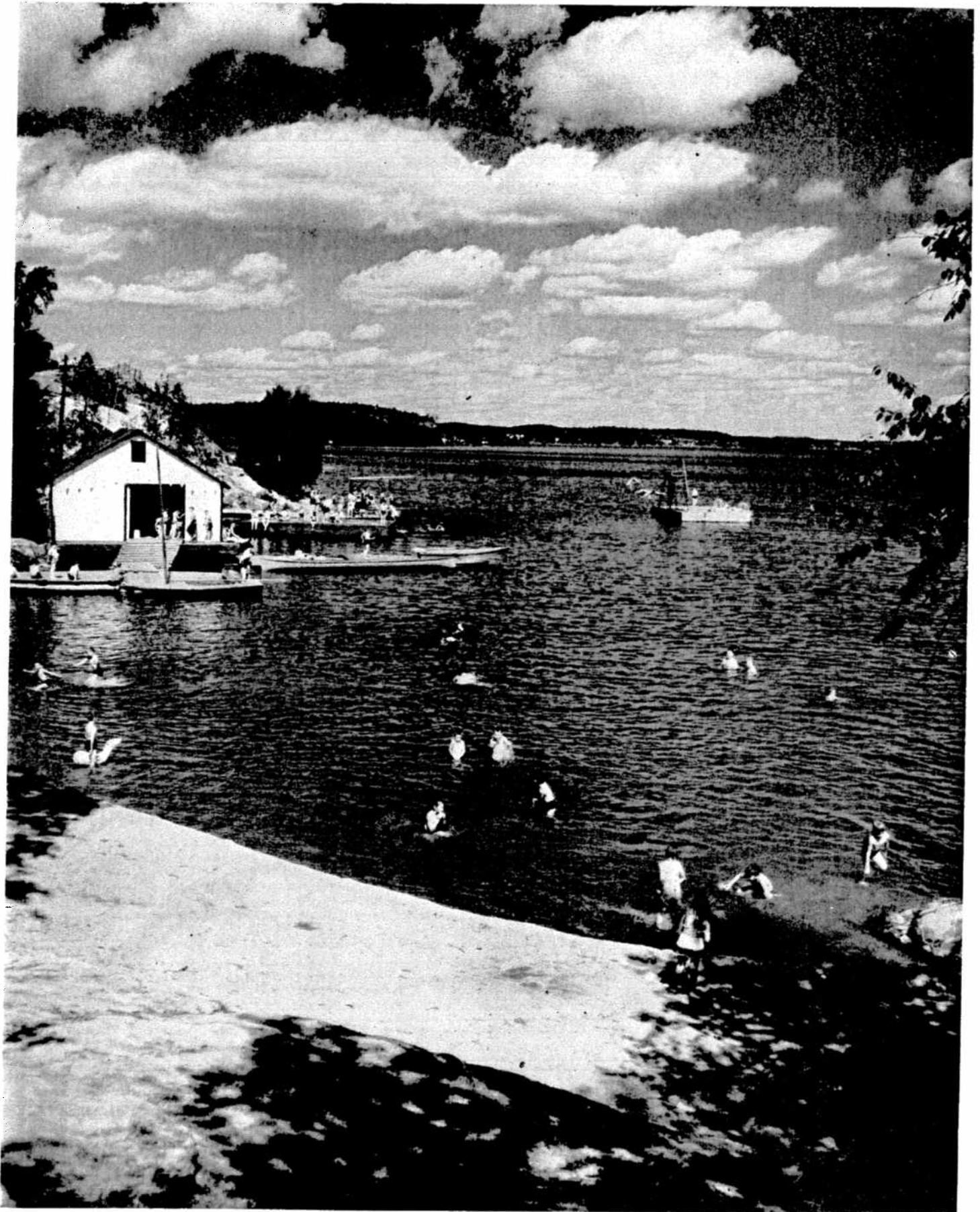
A boss had to lay off Pat. To avoid argument, he put the discharge in writing. A week later he saw Pat back at his job. Going to the Irishman, he demanded fiercely:

"Didn't you get my letter?"

"Yis, sur. Oi did," said Pat.

"Didn't you read it?"

"Sure Oi read it inside and outside. On the inside ye said I was fired and on the outside ye said 'Return to the Speedy Transfer Company in five days'."



Beating the Heat at Bell Park

Refinery Family's Holiday Thrill



Mrs. W. J. Noble registers at the reception desk of the Corning Glass Center in New York State, which she and her family visited on their vacation trip last month. With her are her husband, who works at Inco's Copper Refinery, her son, William J. Jr., and her daughter Joan. Also seen in the photograph is James M. Brown, director of the center.

Chance Visit Hits Jackpot

Corning, N.Y., July 23,—Because a chance acquaintance at Watkins Glen, near here, urged, "Be sure to visit Corning Glass Center," a Sudbury, Ontario, family of four came here yesterday afternoon with the result that William J. Noble, a machinist, was greeted as the 100,000th visitor to register since the Center was opened by Governor Thomas E. Dewey, of New York, last May 19.

The Nobles, who had started from home on a two-week motor vacation on Friday the 13th, defying the date, had chided one another yesterday morning because nobody had provided a cake for Mr. Noble's 39th birthday. The afternoon visit to the Glass Center made up for it when Director James M. Brown presented him with a fine Steuben bowl in token of the 100,000th registration.

A record attendance of 3,003 on Sunday brought the total mark to 100,585 with visitors registered from all over the United States and from Canada, Mexico and other countries.

With Mr. Noble were his wife, Edith, and their children, William J., Jr., 12 years old, and Joan, 8. Noble is a machinist for the copper refining plant of International Nickel Company, near Sudbury.

At the Thousand Islands they were told, "You must visit Watkins Glen." Having no definite route in mind, they did so. At Watkins Glen yesterday morning, a woman advised that they must visit the Glass Center. The Nobles arrived just in time for the 100,000th figure. This lot fell to the head of the family, who registered for them all. But Mr. Brown handed the bowl to Mrs. Noble.

Back home from their holiday, the Nobles were greatly enthused about the reception given them by the Corning Center officials. They were royally entertained, photographed throughout their tour of the fascinating display, interviewed for a radio broadcast,

and generally given "the treatment." "It really was an exciting and interesting experience," Mrs. Noble says.

Among the features of the exhibit which interested them particularly were; Pyrex bridge, nearly a mile of glass tubing set in spiral loops to form the bridge; a garden in the science section enclosed in a glass cylinder, with a fishpond which doubles as a skylight for the refreshment lounge on the floor below so that a diner looks up and sees goldfish swimming around in the ceiling; an all-glass purifying system where liquids touch nothing but glass, even in the pump at the bottom; a 200-inch telescope disc, largest piece of cast glass in the world; the Museum of Glass, where Mrs. Noble was especially interested in a case of such rare items as the renowned Bielby goblets, the only ones in existence which are signed, the priceless 17th Century Ravenscroft goblet, and the famous engraved 16th Century Verzelini Goblet.

Smart Athletes In Feature Pix

The way the weatherman has been behaving this summer, there'll probably be at least a couple of degrees of frost the morning this issue of the Triangle is distributed.

If that happen, our readers may find the annual August outdoors coverage a trifle too refreshing, but it's a chance we have to take.

But if the weather's toasting, as it should be, we think there'll be a good deal of comfort derived from the cucumber crispness of Ann Armstrong on the front page, the easy grace of Bob "Chucker" Ross as he soars over Lake Ramsay on the back page, the swimming scene at Bell Park (note the three girls taking off from the diving raft simultaneously), and the pictures of lawns and gardens here and there, joy to behold.

Ann is the daughter of Mr. and Mrs. Bill Armstrong of Copper Cliff, and is an expert

swimmer as well as being tops in the looks department. Bob is the son of Mr. and Mrs. Charlie Ross of Sudbury, and as smart a young diver as we've seen around the spa at Bell Park; when he was doing his stuff for the Triangle camera a crowd of young gaffers gathered around, and every time he came up from a dive they'd roar, "Attaboy, Chucker!"

As the last run of this issue goes to press, word comes in that young Don Stringer, whose picture appears on another page in the story about the Sudbury Canoe Club, has catapulted to fame by winning both the junior single and the gruelling 10,000-metre events at the Dominion Regatta at Ottawa. Don now gets a chance in the Olympic trials and, with any kind of a break, is expected to qualify as one of Canada's representatives in the Olympic games.

Some very interesting young people we have with us this month!

NATURE'S GOSSIP

The brook is Nature's gossip bearing news; It runs to tell in tiny, babbling words Of summer flowers abloom in matchless hues, Of skies and mighty trees, and warbling birds. It tells of how its journey, mile on mile, Brings into view an ever-changing scene. Of how it caught and held the sun awhile, And how it touched the meadow's vibrant green.

In small, confiding whispers trilling low It tells of ferns that edge its banks with lace, It tells of fragrance gathered in its flow, Of nights when stars have boldly kissed its face.

It murmurs, sings, and breathes a liquid sigh For beauty bound between the earth and sky.

— Florence Janson

Boys in Korea Want Inco News

The Triangle editor was glad to get a letter the other day from Pte. O. H. "Mac" McRae, well-known to many of the boys at Froid-Stobie, who is now in Korea with the 2nd Battalion of the Royal Canadian Regiment. He wrote:

"Just a few lines to see if an ex-Inco fellow could persuade you to send us a copy of the Triangle each month, as we're interested in what happens around Inco. There is Jim Perry from the converters over here, also Joe Napier and myself from Froid-Stobie, and quite a few others. The first thing that is asked when two of us meet is, 'I wonder what is happening around Inco,' and we're in the dark, so how about it, fellows. If you send a copy to me I'll sure see that the rest get it."

MEMO TO THE TRIANGLE CIRCULATION DEPT.: Copies of the paper each month to Pte. O. H. McRae of the Royal Canadian Regiment, and it's a pleasure.

OKAY, WHY?

Mr. Wrangle: "Why does a woman say she's been shopping when she hasn't bought a thing?"

Mrs. Wrangle: "Why does a man say he's been fishing when he hasn't caught anything?"

NO JUSTICE

The manufacturer of whisky puts his grain through a distillery, called a still. It comes out firewater, and the consumer pays from four to six dollars a quart, or from 30 to 60 cents a shot for it, drinks it and says, "Gimme another!"

The farmer also puts his grain through a distillery called a cow, and the consumer pays from twenty to twenty-five cents a quart for it, takes a drink, sets his glass down and says: "Go easy on the milk, folks, the price is way up!"



Swan Dive and Summer Sky