

# INCO TRIANGLE

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NUMBER 6



Queen of the Flowers

(SEE PAGE 2)



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## Notes and Comment

AT EDDIE McKERROW'S retirement party, largely attended at the Italian Hall in Copper Cliff, J. R. Gordon passed along an amusing story he had picked up from Dr. Feldmans. It seems that one night when Eddie had the house to himself he invited in a few of the boys for a game of cards. Came lunch-time and the host whipped up a delectable spread that made his guests moan with pleasure, particularly the onions which they said were the best they'd ever eaten. Next morning Mrs. McKerrow couldn't figure out what had happened to a bag of pedigree tulip bulbs which had mysteriously disappeared. Eddie was discreetly silent.

*Despite the valiant martyrdom which he often likes to suggest is his lot, despite the well nigh intolerable weight of the burdens which bow his brave shoulders, Papa's place in the family circle is really a pretty strategic one. When the kids are misbehaving he says "Aggie, can't you make your children behave better than that?" But when the offspring are commendable he is quite willing to acknowledge the lovely little critters as his own.*

Canada climbed to acknowledged world supremacy in the production of nickel in 1905. At that time Canadian nickel production was at the rate of slightly over 1,500,000 pounds per month. Today Inco alone is producing 21,000,000 pounds per month and total Canadian production is over 23,000,000 pounds monthly.

Somebody was telling a story the other day about a Scotaman who walked 25 miles to watch the Glasgow Rangers play football but did not get to see the game after all because he was so tired when he got to the field that he couldn't climb over the fence.

THE tools of the Jet Age are jewel-like instruments that check to accuracies seldom attempted, for aviation, like the sea, is terribly unforgiving of any carelessness or neglect. The compressor rotor of today's jet engine, bristling with scientifically shaped blades, spins in excess of a screaming 8,000 r.p.m. on take-off. Its balance must be the result of perfect machining. If it is out of true by so much as the weight of a mosquito, disaster will follow, because each blade, weighing only a few ounces, can weigh as much as 22,000 times its own weight at that speed. Obviously even an imperceptible finish imperfection could have explosive results. In this almost unbelievably specialized engineering field, as in many another sphere on the broad front of human progress, the unique properties of nickel alloys are invaluable.

Alex Lefebvre of Levack says he got a lot of kidding over the article in last month's Triangle about his miraculous trout flies but Ron MacNeill (brother of the Geology Dept.'s Jake) came up with the best rib of all. Ron told Alex that he merely fastened his copy of the Triangle to his hook, dropped it into the bathtub, and hooked a 4-lb. speckled.

## Jerry Girard Again Batting Champion



Jerry Girard of Creighton, seen here rounding third base while Umpire Barney Barnett and Copper Cliff's Herk Flynn look on, is batting champion of the Nickel Belt Baseball League for the second year in succession. The peppery little outfielder hit .415 for the season and set a league record by leading his club in runs batted in for the fourth straight year. He has brought home an even 100 runs in the past four years. Runner-up for the league batting honors was Billy Demkiw of Frood, with a .389 average. Steve MacLelland, catcher, was the best hitter of the Coniston club with .348.

Patricia O'Brien, daughter of Safety Supt. A. E. O'Brien, and Jean McNeill, whose pappy is Paymaster Ken McNeill, have been awarded scholarships by the Sudbury Women's University Club. These brilliant young students, both gifted with beauty as well as with brains, will bring honor to their parents and teachers in their university careers.

SUDBURY Branch of the Canadian Institute of Mining and Metallurgy has a special treat in store for its members on Sept. 29 when its speaker will be John Fisher. Probably it's because we Canadians are inclined to be too reserved in our love of country that John Fisher is such a popular radio speaker. When he takes to the air with his tremendous enthusiasm for all things Canadian and his obvious pride in being a citizen of this magnificent land, perhaps most of us regard him as our personal spokesman, giving glowing words to the spirit we all feel but don't express half often enough.

Congratulations to Stu Watson on his splendid showing in the Northern Ontario golf championships. Only the masterful performance of Frank Wyatt in the final match kept Inco's Stu away from the title.

TODAY'S wage levels offer formidable temptation to the older boy, who cannot avoid some doubts about the necessity of education. Why should I keep on at school, he asks himself, when I can step right into a job and earn big money. How can he be helped to realize that advanced education is more precious now than ever before, that Canada is launched upon an era of tremendous opportunity in which he can expect to share only in direct proportion to the way he has prepared himself?

The boys of the Inco geological exploration party up there in the wilds of Northern Manitoba will be calling down blessings on the head of Inco's chairman of the board, Dr. John Thompson. He has sent them a

16 mm sound projector and screen, the best he could buy, along with a batch of films, to entertain them during the long winter evenings. The unit will be particularly welcome during the six-week freeze-up period commencing about the end of this month when planes are grounded and their only contact with civilization is the radio.

*"Don't tell me that Flynn is still frisking around the tennis courts!" ejaculated many an old-timer on seeing Bert, snappy in immaculate whites, pictured with his racquet in the August Triangle. Well, he certainly is, and his game is still sound as a rock. Norway's King Haakon has a rival coming on for those veteran-player laurels of his.*

### THE FRONT COVER

Arranging a lovely bouquet in this issue's cover picture is Mrs. Irene Day of Wembley Drive, Sudbury, who this year had her most successful season since she started winning prizes in Sudbury District Horticultural Society's annual show back in 1946. She won the T. Eaton Co. bowl for the best cut flower display, the LaPierre Cup for the best collection of 10 distinctive kinds of cut flowers, the A. E. Hodge trophy for the most outstanding home garden lot in the district, the Agnew Cup for aggregating the most points in the flower show, and the City of Sudbury trophy for the best horticultural exhibit in the show. Her 40 entries in the show took 30 firsts and nine seconds, truly an outstanding tribute to her gardening skill. The Majestic "glad" she is trimming in the picture stood 71 inches high in the garden, had florettes seven inches wide. Obviously impressed by it is her husband Roy, who has been an Inco man for 13 years and at present is a machine doctor on 400 level of Frood-Stobie No. 3 Shaft. He sometimes helps his wife in her championship garden but admits he would sooner have softball fingers than a green thumb.

The optimist says his glass is half full; the pessimist says his is half empty.

—St. Louis Post Dispatch

# INCO FAMILY ALBUM

Welcomed into our steadily growing collection of informal family groups are these nice-to-meet people: (1) Mr. and Mrs. R. H. Cleland (General Safety) with Jody, 9, and her three big brothers, Roy, Keith, and Dave. (2) Mr. and Mrs. Louis Giroux (Copper Cliff Concentrator) with Norman, 11, Clement, 8, Pauline, 6, Claudette, 9, and Larry, 2. (3) Mr. and Mrs. George Liddon (Port Colborne) with David, 10, and Roger, 8 mos. (4) Mr. and Mrs. Joe Ressel (Copper Refinery) with Jimmy, 3 mos., and Veronica, 7. (5) Dr. and Mrs. A. Knight (Levack) with Robin Elizabeth, 18 mos. (6) Mr. and Mrs. Aldino Tionelli (Creighton) with Bill, 4, Sharelene, 3, and Madeline, 5 mos. (7) Mr. and Mrs. Eugene Lalancette (Garson) with Edward, 19, Norbert, 17, and Denise, 13; not shown, Yolande, 3, and Betty, 20.



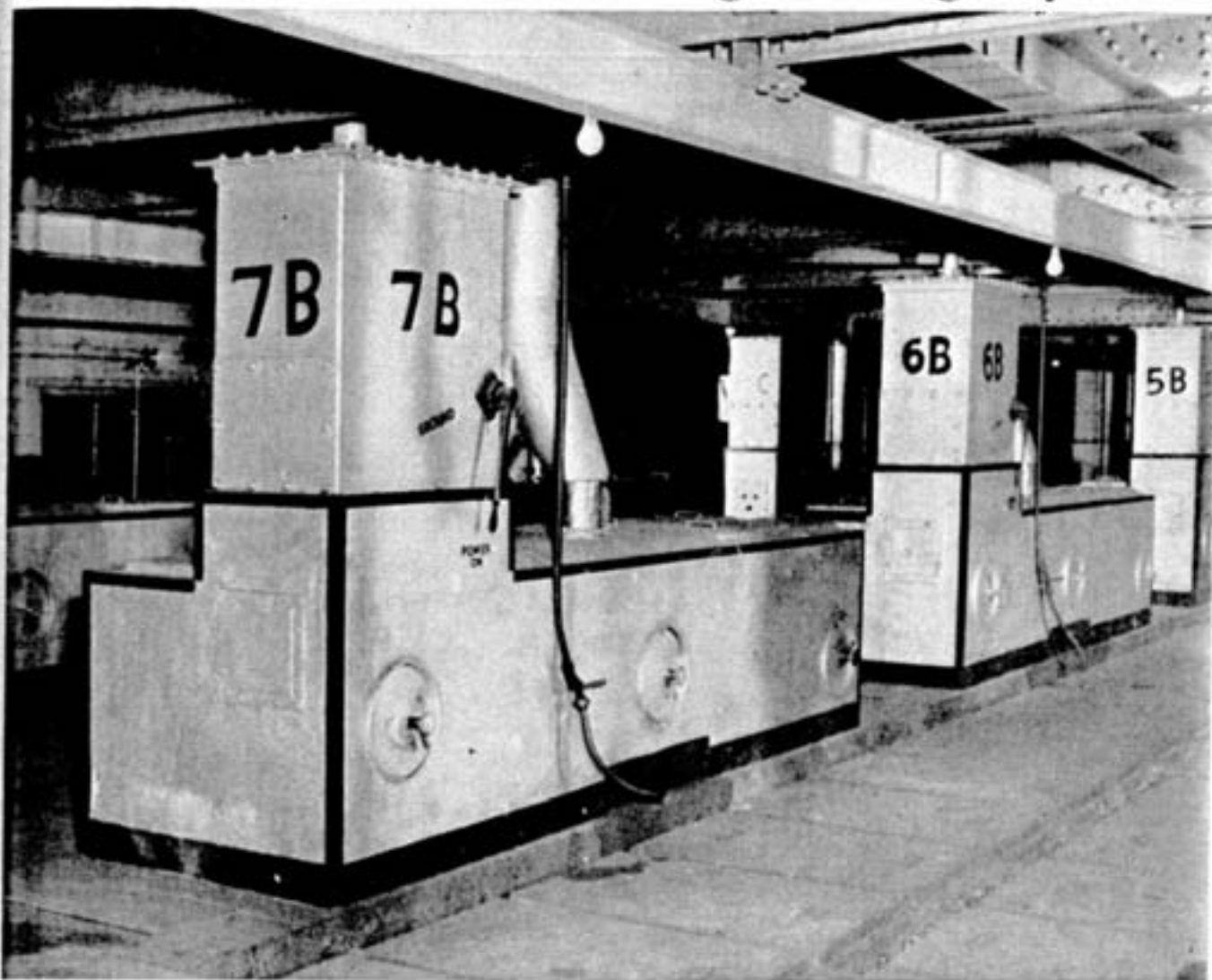


# Power is Stepped Up to 60,000 Volts for Cottrell



These views of the Cottrell precipitation plant at Copper Cliff smelter for the recovery of dust from furnace gases show: (1) Part of the building housing the Cottrell plant and the 500-foot brick stack; (2) Don Lavigne at one of the switchboards in the rectifier room; (3) Bert Childerhouse is setting the copper shoes on one of the rectifiers which step up incoming power from 550 volts ac to 60,000 volts dc. (4) Four brilliant bands of light show the contact between the copper shoes and the tips on the rectifier disc as it whirls at 750 revolutions per minute in its work of converting power for the precipitation process.

## Insulator Boxes Protect High Voltage System



Here are a few of the 72 insulator boxes in the treater section of the Cottrell plant. Beneath them hang the curtains of high voltage wire and the hundreds of rods on which ionized dust from the furnace gases is collected.



Aubrey Wright, foreman of the Cottrell plant, checks the temperature record. Gases must be kept hot to avoid condensation as they pass through the treater section.

## Tons Daily of Dust Collection

Many hundreds of tons of dust a day is filtered out of gases from the roaster and converter furnaces at Copper Cliff smelter and turned back into production instead of being allowed to escape up the stack.

This giant dry-cleaning operation is carried on in the Cottrell precipitation plant, which operates at such high efficiency that only a very small percentage of furnace dust gets by.

En route to the stack the gases pass into the huge flues in the treater section of the Cottrell installation where hang twisted-wire curtains charged with 60,000 volts of electricity and, parallel to the wire curtains, the grounded 22-foot rods which act as collecting electrodes. Receiving this big electric shock the ionized particles of dust are precipitated on the rods and the gases pass on to the stack. Once a shift the power is turned off in each unit of the treater section and the rods are rapped by pneumatic hammers to knock off the dust which falls into bins. Picked up by a screw conveyor the dust is

(Continued on Page 14)



## Murray's Picnic Enjoyed by All

Murray Mine employees and their families and friends had a wonderful get-together again this year at their picnic out Azilda way.

In an ideal setting the big program of fun for everybody went off without a hitch, and loud were the praises of the committee in charge: Carl Nesbitt, Maurice Lavoe, Stan Dotson, Al Court and Doug Dennis.

Eating, races of all kinds, a nail-driving contest in which 20 ladies demonstrated the muscle which wields the rolling pin, a fish pond, games of skill and chance, and a thrilling four-team tug-o-war contest won by Wayne West's crew of hefties, were among the many popular attractions of the meet.

A ticket for the whole family to the delicious bean supper went for the nominal sum of one dollar, and there was free pop and ice cream for all the kids.

In the accompanying photographs, snapped here and there at the very successful picnic, are seen:

1. Entries in one of the races for young



## Home Plantings Flourished Again This Summer



Blessed with excellent growing conditions, lawns and gardens of Sudbury and district flourished throughout the summer and brought admiring comments from tourists and other visitors. Among the hundreds of attractive home grounds developed by Inco men and their wives were those pictured above: Top left, as mayor of Coniston, Roy Snitch showed his community a good example with his neat, inviting grounds; top right, a perennial winner in Inco gardening competitions is the pretty outdoor living room at the home of W. W. Chapman, Copper Cliff; lower left, Ernie Hilton's place at Levack was slick and bright as usual; lower right, Teivo Kaukinen put in a lot of work to beautify the grounds around his home at Creighton. These citizens, and many others like them, rate orchids for their co-operation in making their communities pleasant, attractive places in which to live.

ladies toe the mark and wait for Starter Stan Dobson to give them the green light.

2. Maurice Lavole and Carl Nesbitt (right) were busier than a couple of one-armed paperhangers with the hives. They dispensed the tickets for various special attractions on the grounds.

3. The crack Surface team had no trouble defeating an underground lineup recruited by Stan Dobson in the day's softball exhibition but it was a good game and drew lots of attention. Umpire was Bob Brown.

4. Mrs. Leo Laronde and Mrs. Harvey Hautamaki, with their children, enjoy a rest in a shady spot.

5. Joyce Scully (front centre) found lots of young admirers for her thoroughbred collie, Beauty.

6 and 7. As usual the bingo game was a favorite attraction for fans of all ages.

8. The baseball teams have been overlooking a likely pitching prospect in Teivo Soini. Look at that big-league style as he tries for a cigar at one of the throwing concessions.

9. The horseshoe pits were busy all afternoon. Bob Turlotte of Open Pit and Jim Waddell of Falconbridge are the players seen here.

With its easy informality, its opportunities for renewing old friendships and making new ones, and the pleasant entertainment arranged on all sides, the picnic was a happy event not soon to be forgotten.

There is no cure for birth and death save to enjoy the interval. — Santayana



The miniature golf course in Nickel Park at Copper Cliff was very popular with both old and young again this summer, and was in use from dawn to dark, rain or shine. C. D. Ferguson, R. H. Cleland and T. M. Gaetz are official custodians of the course but have not yet been prevailed upon to give lessons in the fine points of the game.





# 300 Chains at Copper Refin'ry Inspected Daily

Every one of the 300 wrought iron chains in service at the Copper Refinery is inspected daily for wear or distortion and removed for repair if the slightest irregularity is observed.

Like shaft inspection at the mines, described in the last issue of the Triangle, this regular chain check at the Copper Refinery is typical of the many painstaking precautions taken to assure the safety of Inco employees.

Operations at the Refinery entail a great amount of transport with cranes and chain slings. Lifts of refined copper shapes or material in the various stages of the process often weigh several tons. This heavy duty takes a toll of some 300 feet of chain each month. Thorough daily inspection of all chains, and the immediate correction of any weakness before it can develop into an accident hazard, is a safety feature ranking high in importance at the Refinery.

Each department has its own set of chains which come in half a dozen sizes ranging up to 1-inch link stock. Every chain is numbered and specified for a certain type of work, and a record is kept of its performance. The inspection and maintenance routine is shown in the photographic layout on Page 8:

1. "Lefty" Caverson is giving the chains in the wire bar storage department their daily check, link by link.

2. Having found a worn link in No. WB9, he tags it with a Danger tag and removes it from service to be sent to the plant's blacksmith shop for repairs.

3. In the blacksmith shop Louis Paquette and his helper, Vincent Guidocco, have cut out the worn link and are fire-welding a new link into the chain.

4. All chains are annealed after repair or after three months of service. This procedure restores to some extent the original grain structure of the metal and removes the effect of work hardening. The chain remains in the annealing furnace for about 90 minutes at temperatures ranging up to 1375 deg. F. In this picture Len Kasatoski is withdrawing an annealed chain from the furnace. At the right is his helper, Joe Bulfon.

5. Back on the job good as new, the chain is seen here hoisting a 7-ton load of pure copper wire bars for transport to the weigh scales prior to shipment. Norman Fitzgerald is the crane follower who is signalling the crane operator to "take 'er away".

6. All crane cable in use at the Refinery also get a daily inspection. The plant has 20 10-ton cranes and one 15-ton, so there's about a mile of cable to be checked each shift by Gil Roussy, seen here at his task. Cable showing the slightest irregularity is replaced.

## FRUSTRATION DEPARTMENT

### PROBLEM

**THE BOOKWORM** — The two volumes of Gibbons' "Decline and Fall of the Roman Empire" stand side by side in order on a bookshelf. A bookworm commences at Page 1 of Volume I and bores his way in a straight line to the last page of Volume II. If each cover is 1/4 of an inch thick, and each book without the covers is 2 inches thick, how far does the bookworm travel?

### SOLUTION

Correct answer is 2 1/4 inches. The two volumes are separated only by two covers. The first page of Volume I and the last page of Volume II are on the same leaf, the first page of Volume II. When two volumes are in order on a bookshelf, the bookworm travels only 1/4 inch.

# Tube Crane of New X-Ray Unit First of Its Kind Used in Canada



A new X-ray unit having the most modern features attainable has been added to the equipment at Inco's Copper Cliff hospital.

First of its type in actual use in Canada, the tube crane of the unit is mounted on the ceiling, leaving all floor space clear and allowing overall coverage of the room with the X-ray tube so that patients may be X-rayed on a bed or stretcher without having to be moved to the table of the unit.

The X-ray tube is of larger capacity to handle modern high voltage techniques. The table is electrically controlled for any degree of tilting.

The vertical control provides advanced automatic selection, and one of its unusual features is automatic compensation for changes in voltage.

The installation is arranged to provide ample protection for the operator from stray X-ray radiation.



Herb Kruger, X-ray technician, at the control panel of Copper Cliff Hospital's fully modern new X-ray installation.

## Inter-Plant Golf Tourney Again a Success



AT THE ANNUAL GOLF TOURNAMENT: (1) Bud Osborne of Garson holes out on the 9th; other members of the foursome are Ernie Smith of Creighton, Dar Storey of Levack, and C. Goddard of Geology. (2) H. J. Mutz (right) presents the R. L. Beattie Trophy to the General Mines team of Jim Dewey, Stu Watson, Ron Silver, and Ted Flanagan; as individual prizes the boys received a dozen golf balls each. (3) Sitting on the golf seats they won as runners-up for the Beattie Trophy are the Port Colborne team of Les Lewis, Bill Spence, Johnny Jamieson, and Merle Noyes, with H. J. Mutz. (4) Here's the Creighton No. 1 team which won the E. C. Lambert Trophy, Nick Treflak, Blake Davis, Bill Duncan, and Bob Mornan.

## General Mines Team Regains Beattie Trophy with Gross of 319

In a thrilling match that was in doubt right up to the final minute of play, the powerful General Mines team from Copper Cliff regained the R. L. Beattie Trophy from Port Colborne at the annual Inco inter-plant golf team tournament.

Marginal victory for Captain Ted Flanagan and his men was two strokes. Copper Cliff came in with a gross of 319, Port Colborne with 321.

A Creighton quartet captained by Nick Treflak won the E. C. Lambert Trophy for handicap competition with a net score of 287, closely pursued by Frood Time Office with 288. Creighton's gross was 367, Frood's 406.

Almost 90 golfers took part in the successful event. The weather was ideal and the Idylwyld course was in beautiful condition.

Individual star of the tourney was Port Colborne's Noyes, who posted a three-over-par 75, the best score of the day. Strong in every department of the game, Merle birdied the first and second holes on both his rounds. Had it not been for an out-of-bounds penalty on the 7th he would have equalled par on his second nine.

"This whole tournament is worthwhile if only just for the pleasure of watching that Noyes in action," said Ted Flanagan, who, by the way, was no scoring slouch himself with a 37 on his second nine and a gross of 78.

Since the tournament rules decree that no player may receive more than one prize, the medalist award went jointly to Bill Regan and Dave McKenzie of Frood-Stobie No. 1 team, who tallied 79's.

Harold Kolvula of the Copper Refinery captured the low net award. He carded a 96 which, with his 32 handicap, gave him a net of 64. Come next year the handicappers will be laying for this boy with a big sharp axe.

The General Mines brigade played high calibre golf and deserved their triumph. Flanagan had 78; Ron Silver was 41-40 for 81; Jim Dewey and Stu Watson both came in with 40-40 cards for solid, extremely useful 80's. Of the Port Colborne lads, to go with Noyes' 75, Bill Spence and Johnny Jamieson were steady with 80 and 81 but Les Lewis ran into a lot of grief and had to settle for an 85.

Match play eliminations are now in progress to decide the Inco individual golf championships for Sudbury District. The draws are as follows: non-handicap, T. Flanagan vs. S. Watson, D. McKenzie vs. D. Beattie, W. Regan vs. R. Silver, J. Dewey vs. B. Davis; handicap, T. Ratchford vs. R. Seawright, T. Stewart vs. W. Dale, H. Kolvula vs. J. Patus, E. Capstick vs. C. McCoy.

Complete team scores in the 1952 tournament follow:

Port Colborne: M. Noyes, 75; J. Jamieson,

81; W. Spence, 80; L. Lewis, 85. Gross, 321; net, 298.

General Mines: S. Watson, 80; R. Silver, 81; T. Flanagan, 78; J. Dewey, 80. Gross, 319; net, 292.

Frood-Stobie No. 1: A. Miles, 86; W. Regan, 79; R. Williams, 88; D. MacKenzie, 79. Gross, 332; net, 292.

Smelter No. 1: W. Allen, 88; W. Holmberg, 87; R. Duncan, 91; B. McDonough, 84. Gross, 350; net, 297.

Copper Cliff Accounting: D. Beattie, 81; B. King, 112; G. McMaster, 90; A. Godfrey, 108. Gross, 391; net, 310.

Refinery No. 1: G. Burns, 87; M. Keaney, 85; E. Woods, 99; L. Desilets, 98. Gross, 369; net, 307.

Levack: F. McAteer, 104; A. Weir, 108; E. Mallette, 104; D. Storey, 104. Gross, 420; net, 298.

Creighton No. 1: W. N. Duncan, 89; B. Davis, 83; R. Mornan, 101; N. Treflak, 94. Gross, 366; net, 287.

Garson No. 1: P. F. Todd, 119; J. T. Murray, 93; A. G. Osborne, 120; B. Lalonde, 93. Gross, 425; net, 337.

Copper Cliff Geology No. 1: E. Staples, 98; G. Colgrove, 98; R. G. Lake, 105; J. Holloway, 99. Gross, 400; net, 311.

Mines Sub-standards: T. M. Gaetz, 94; J. Grassby, 110; B. Fraser, 110; S. Kuzmaski, 123. Gross, 437; net, 317.

Copper Cliff Accounting No. 2: T. Meehan, 117; D. Meehan, 107; S. Coagie, 113; L. Fay, 109. Gross, 446; net, 324.

Refinery No. 2: C. Matthews, 113; J. Mason, 109; H. Kolvula, 96; L. Tulloch, 129. Gross, 447; net, 317.

General Mines No. 2: J. McCreedy, 88; R. McAndrew, 88; G. A. Silver, 85; H. J.

Mutz, 95. Gross, 366; net, 308.

Copper Cliff Nomads: E. Capstick, 102; A. F. Brock, 116; N. Kearns, 99; O. McDermott, 97. Gross, 414; net, 292.

Research: W. Koski, 94; P. Evans, 108; W. Dale, 104; A. Illis, 98. Gross, 404; net, 301.

Copper Cliff Geology No. 2: F. Truskoski, 103; J. Haskey, 118; C. Goddard, 120; R. Bowhey, 115. Gross, 456; net, 323.

Frood Time Office: M. Ratchford, 107; E. Wormington, 113; T. Ratchford, 96; R. Walde, 90. Gross, 406; net, 288.

Creighton No. 2: R. Seawright, 94; A. Hough, 108; W. B. Creighton, 95; C. McCoy, 85. Gross, 382; net, 307.

Frood-Stobie No. 2: M. Clemen's, 94; T. Stewart, 97; H. Marchand, 121; R. Brown, 104. Gross, 416; net, 317.

Frood-Stobie No. 3: L. Arseneault, 108; R. Beattie, 116; C. Price, 86; C. H. Stewart, 32. Gross, 402; net, 314.

Frood-Stobie No. 4: B. Groom, 128; E. Tobin, 112.

Copper Cliff Engineers: J. Burwell, 107; J. McNeil, 98; D. Codville, 92; J. Patas, 97. Gross, 394; net, 300.

Smelter No. 2: H. Allen, 102; E. Smith, 113; R. McAndrew Jr., 92; H. Franssi, 104. Gross, 411; net, 304.

## Lots of Action at Creighton Meet



The sand really flew in the shovelling contest . . .



### TREAT FOR HIS PALS

George Smith of the Copper Cliff Refinery didn't catch this 25-lb. Restigouche salmon but he did the next best thing—he helped eat it. The fish was landed by Howard Caldwell, Refinery First Aid man, during his holiday trip to his old home in New Brunswick; he packed it in ice and shipped it back to Sudbury as a special treat for some of his pals. Nice guy to know, that Caldwell.

### THRILL OF A LIFETIME

Blake Davis of Creighton Mine entered goldfom's Hall of Fame on July 6 when he scored a hole-in-one on the Sudbury Golf Club's short third hole. His 9-iron shot lit about 15 feet short of the pin, hopped a couple of times, and ran straight into the cup. Witnesses were Marcel Clements and Tony Prete. Red-headed Blake is a student at Queen's University. This is his second summer of employment at Creighton and he likes it fine. His home is in East Angus, Que.

A teacher affects eternity. He can never tell where his influence stops.

—Henry Brooks Adams.



His Nibs the Clown was doing okay here . . .



But here it was a different story . . .

On its toes as usual, Creighton Mine Athletic Association put on a great show for young and old alike at its annual carnival on the school grounds. There were attractions galore, handsome prizes for the winners at the various concessions, and, per-

haps best of all, the chance meeting with an old friend or neighbor and the pleasant exchange of small chat. The affair was a notable effort on the part of the Creighton live-wires.





## 120 Boys Played Organized Ball In Copper Cliff Legion's League

For the fifth year in succession Copper Cliff Branch of the Canadian Legion has operated its minor baseball league for boys of the smelter town between the ages of 10 and 16 years. A total of 120 lads took part this summer in the well organized loop, which the Legion branch rightfully regards as one of its most important and worthwhile projects.

Equipment was furnished by the Legion

as usual, and games were played both mornings and evenings four days a week during July and August. "Unk" Longfellow and Doug Gathercole were the two long-suffering Legionnaires who piloted the league through the summer, and to them is due the wholehearted appreciation of every boy who took part.

In the minor group W. Johnstone's team finished on top of the heap in the regular

schedule, with M. Wright second, E. Vecchia third, and Danny Newell fourth. In the playoffs Johnstone and Wright met in the finals, which had all the thrills of a world series. The fifth and deciding game went into extra innings before Johnstone's lineup gained the decision.

B. Baker's team led the league in the major group with D. Johnstone second, Leo Pevato third, and R. Gemin fourth. It was Johnstone vs. Pevato in the finals of the playoffs, with the former coping the championship after a hard-fought series.

In the above layout are pictured the eight teams taking part in the playoffs of both groups:

1. Danny Newell's team: front, J. Montez,

J. Owens, D. Deegan, D. Rossetto; back, W. Massacra, E. Pagan, T. Antonioni, T. Armstrong, D. Newell.

2. E. Vecchia's team: front, R. Morrossa, R. Violino, P. Cassagrande, G. Bartoluzzi, J. Taus; back, G. Pavot, F. Deegan, E. Vecchia, D. Corrigan, R. Nicoli.

3. B. Biker's team: front, J. Corrigan, B. Stemp, J. Brannigan, L. Martel; back, W. Cullen, R. Sarlin, D. Cullen, C. Chelley, B. Baker.

4. R. Gemin's team: front, G. Fletcher, J. Pappin, M. Rupoli, R. Talamelli, D. Crouse; back, B. Mikkola, E. Pollesel, R. Gemin, N. Rupoli, B. Pollesel.

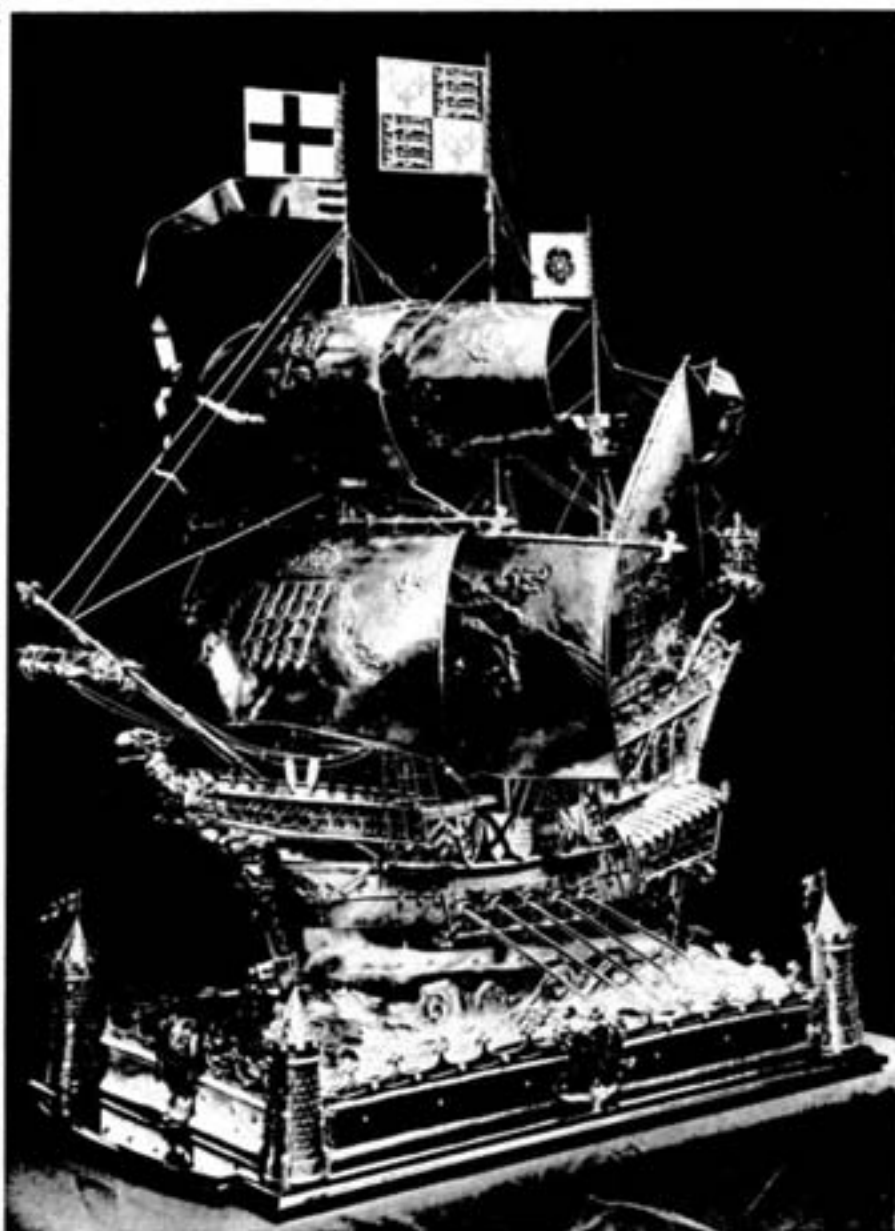
5. M. Wright's team: front, F. Mitte, G. Mei, R. Doherty, J. Montgomery, W. Santi; back, B. Doherty, H. McKinnon, K. Cecchetto, M. Wright, L. Rovinelli.

6. W. Johnstone's team: front, T. Randall, M. Fraser, R. Tessaro, R. Harkins, J. Randall; back, T. Gervais, W. Johnstone, D. Johnstone, D. White, R. Silver.

7. Leo Pevato's team: front, M. Doherty, M. Valentini, H. Pawson, B. Faddick, J. Mikkola; back, L. Pevato, L. Visentin, N. Pagan, N. Nicoli, V. Bernardi.

8. D. Johnstone's team: front, R. Borne, R. Taus, B. Barry; back, R. Taus, R. Toppazini, D. Johnstone, W. Kinkley.

## Mond Nickel Company's Silvery Ship



## Don Stringer Now International Champ

Big Don Stringer of the Sudbury Canoe Club, son of Mr. and Mrs. Weir Stringer, became an international champion this month when he flashed to victory in the senior single blade singles, feature event of the annual President's Cup Regatta at Washington, D.C.

Included in the large field which Don led to the wire was the United States Olympic Games representative.

The rangy Sudbury boy has been a Canadian Canoe Association champion for three years. In 1950 he won the juvenile singles for paddlers 16 years and under, in 1951 he lifted the junior singles title, and this year he captured the senior crown.

At the rate he is developing, Don is regarded as a shoo-in for a place on the Canadian team in the next Olympic Games, and Sudbury Canoe Club officials won't be surprised if he eventually becomes one of the all-time greats of the paddling sport.

### THE WORLD AS IT IS

Take the world as it is!—with its smiles and its sorrow,  
Its love and its friendship, its falsehood and truth,  
Its schemes that depend on the breath of tomorrow,  
Its hopes which pass by like the dreams of our youth;  
Yet oh! whilst the light of affection may shine,  
The heart in itself hath a fountain of bliss;  
In the worst there's some spark of a nature divine,  
And the wisest and best take the world as it is.

—Charles Swain.

### READY FOR SHEARING?

Wife: "Well, what happened when you asked your boss for a raise today?"

Husband: "Why, he was like a lamb."

Wife: "What did he say?"

Husband: "Baa."

### FIRST THINGS FIRST

A Scot whose child had swallowed a sixpence rang up the doctor.

"How old is it?" asked the doctor.

"It's a bright new one, dated 1950," replied the father.

Visitors to the head offices of the Mond Nickel Company, Inco subsidiary in the British Isles, at Sunderland House, Curzon Street, London, pause to study the fine model of a 16th-century galleon exhibited in the entrance hall. Sited behind a glass window of the waiting room, a soft light intensifies the silvery beauty of the metallic ship, almost all of which is constructed from pure nickel. Only the base and enamelled flags are made of alloys, the former of nickel silver and the latter of a copper-nickel alloy.

The model was made to commemorate the 25th anniversary of the Mond Company and was designed to show nickel in as many forms as possible. Thus, the figurehead is a nickel casting, the sails are of nickel sheet, cut out and embossed, the ropes are made of wire, and the masts and oars of rod, the blades of the latter having been beaten out by hand. The small sail of the bowsprit has been crumpled up to show the malleability of the metal.

Construction of this fine piece of workmanship was executed by Paul Hardy of

Storrington, Sussex, who also made in pure nickel two knights in armour to be seen in the hall of Queen Mary's famous Doll's House. The enamel shields and standards were by Harold Stabler.

Exhibited at the Shipping, Engineering and Machinery Exhibition of 1931, the galleon attracted much attention and was of particular interest to those with a knowledge of heraldry. The colourful flags which fly proudly from the masts include the cross of St. George, the ancient Royal Standard, and the English Rose, while the sails are embossed with Tudor badges, with the exception of the three-cornered sail, which has the maple leaf of Canada. The latter is of course wrong as to period, but was included to symbolise the country of origin of the metal. The shields along the sides of the vessel show various arms and are true heraldry. In the warships of the period, knights and squires who were entitled to bear arms hung their shields over the sides of the ship so that all passing vessels should know who was on board.

## Friends Honor Mr. and Mrs. R. L. Beattie On Their Departure from Copper Cliff



R. L. Beattie, Mrs. D. Finlayson, J. R. Gordon, and Mrs. Beattie.

Prior to their departure for Toronto, where they now have their home, Mr. and Mrs. R. L. Beattie were honored by a large gathering of friends at the Copper Cliff Club, and were presented with silver candelabra as a token of the warm affection and esteem in which they are held.

J. R. Gordon spoke briefly of the fine contributions which have been made by Mr. and Mrs. Beattie to the community through their friendship and unfailing interest in all worthwhile activities. Copper Cliff was deeply indebted to their outstanding citizenship. It was a matter of keen satisfaction to all that, while they were moving to a new home, they would continue to reside at their Lake Ramsay camp during the summer months and would remain in close association with the Nickel Belt.

Mrs. D. Finlayson made the presentation of the gift to Mrs. Beattie.

The guests of honor expressed their sincere appreciation of the loyalty and friendship which had made their long residence in Copper Cliff so pleasant, and said the gift would remind them of many happy occasions.

Vice-President Beattie will in future make his headquarters at Inco's offices in the Canadian Bank of Commerce Building, Toronto. With the exception of three and one half years of service in World War I, and a period of about one year at the Toronto office, he had been a resident of Copper Cliff continuously since he joined the Company there on Nov. 11, 1911. He and Mrs. Beattie were married in 1923; of their three sons, Allan is married and living in Toronto, a member of the law firm of Osler, Hoskin and Harcourt, and Bob and Donald are continuing their university education.

### END OF CONVERSATION

Father: "Get up Bobby. It's eight o'clock. What do you suppose Abraham Lincoln was doing at this time of the day when he was your age?"

Bobby, yawning: "I don't know. But I know what he was doing when he was your age. He was President."

The trouble with most household budgets is that there's usually too much month left over at the end of the money.

## Tons Daily of Dust Collection

(Continued from Page 5)

transported to a shooting tank which blows it through pipes to the reverberatory furnaces where it re-enters the smelting process.

Power for the Cottrell operation is received 550 volts ac and in a battery of rectifiers is stepped up to 60,000 volts dc. On either side of each rectifier are coils which prevent interference with radio reception in the area. All openings giving access to high-tension equipment or electrodes are protected by automatic grounding switches to prevent any person from coming into accidental contact with live parts carrying high voltage.

Under constant watch is the temperature of the gases as they pass through the treater section. If they slip below a certain point the result is condensation of acid which plays merry old hob with the equipment. On tap to combat this difficulty is ample heat from the reverberatory furnace boilers.

### FREEDOM

Is true Freedom but to break  
Fetters for our own dear sake,  
And, with leathern hearts, forget  
That we owe mankind a debt?  
No! true freedom is to share  
All the chains our brothers wear,  
And, with heart and hand, to be  
Earnest to make others free!

— James Russell Lowell



## Three Generations with Inco

Three generations of Inco men are seen in this photograph. On the right is Nicholas Hall of Copper Cliff, who retired on service pension in 1946; in the centre, holding an album of snapshots of early days in the nickel industry, is Alan Hall, a skimmer on the nickel converters at the smelter; on the left are Nicky Hall of the General Office staff and Jackie Hall of the sample house. Many Inco families in the Sudbury District can boast of three generations of men who have worked for the Company, a distinction which reflects credit upon the organization as well as upon the people concerned.



## Who'd Guess It Ed Kayser is 70

He's had such a long and active association with the International Nickel Company that his retirement is a story for the Triangle, even though his pension cheques will come from Fraser Brace Engineering in Montreal instead of from that great and good fund which guarantees comfort and security for Inco people in their evening years.

Ed Kayser, 70 years old on August 28 and looking about half of it, has been in charge of so much construction work at Inco plants during the past 15 years that he is almost indistinguishable from any employee of the Company. His first contact with Inco was joined back in 1927 when he was appointed superintendent of the Fraser Brace force constructing the nickel refinery at Port Colborne. He renewed the contact in 1929 when his firm was awarded the contract for construction of the copper refinery at Copper Cliff. And from 1937 to date he has been permanently on location in the Sudbury District, part of the time as general manager of Nordale Construction Company and the balance as resident superintendent for Fraser Brace.

Among the major construction projects which have been Ed Kayser's special care have been extensions to the mill and smelter at Copper Cliff, the Levack hoisthouse, Garson, Murray, and Stobie headframes and surface plants, the separation, sinter and oxygen plants at Copper Cliff, the No. 7 shaft headframe and concentrator at Creighton, the pumphouse at Vermilion River and the water line to Creighton, and the con-



MR. AND MRS. ED KAYSER

centrate pipeline to Copper Cliff, besides extensions to the Port Colborne refinery.

Born at Green Bay, Wisconsin, Ed graduated in 1905 from the University of Wisconsin with a civil engineering degree. His first job was on construction of the Pennsylvania Railroad tunnels under the Hudson River and across Manhattan of New York City. He became an employee of Fraser Brace in 1918, and subsequently his experience included construction of hydro-electric plants in South America.

He was married in 1915 to Edna Maher; their son Jack is with General Electric, and their daughter Barbara (Mrs. Malcolm Dennis) resides on Long Island. Until they select a permanent home they will live at Bloomfield, N.J., near their son, in order to keep a close tab on their grandson, Jack Jr.

The men who have been associated with Ed Kayser during his long connection with

## Wallet Presented to Alex Shawalla



A wallet containing a fat wad of bills was presented by Supt. Foster Todd to Alex Shawalla, retired track supervisor, from his many friends at Garson Mine. A steady and conscientious worker held in high regard by his fellow workers, Alex was deeply appreciative of the gift. All departments of the mine were represented at the brief presentation ceremony; seen in the group above, left to right, are Ray Beach, Eldon Carmichael, W. Brady, C. Witta, George Sullivan, A. Eontinen, A. Mully, A. Kaattari, J. Fila, G. Baker, N. Wadge, and E. Laporte.

Inco, and who know his outstanding ability as a construction superintendent, join with his many friends in wishing him and his wife a long and happy retirement.

## Another Three Inco Fellowships Are Established

Three new graduate research fellowships, each with a possible value of \$6,000, have been awarded Canadian students by the International Nickel Company of Canada, Limited. The fellowships have a possible tenure of three years.

Winners of the second series of such awards are Charles Elbaum, who will study at the University of Toronto under Dr. Bruce Chalmers; K. Ekler, whose research will be done under Prof. C. A. Winkler, at McGill; and Paul-Emile Fortin, who will work under the direction of Prof. Roger Potvin, at the Laval University, Quebec.

Renewals of fellowships awarded last year were granted to C. R. Cupp, Toronto, G. V. Mueller, McGill, and A. T. Casey, University of British Columbia.

Purpose of the fellowships, as defined by Inco, is "to promote and encourage academic research in the technical fields serving Canadian metal industries."

Judging of the merits of applicants and facilities at their disposal has been done by the National Conference of Canadian Universities, under Dean D. L. Thomson, of McGill. Mr. Ekler is a native of Hungary who came to Canada in 1940; Mr. Fortin was born in Val Jallbert, Quebec, and Mr. Elbaum is a native of Poland, in Canada one year.

Mr. Elbaum will carry out his research on the mechanism of crystal growth in metals, in the university's department of metallurgical engineering. His study will be an extension of work already done on the subject at the university.

Mr. Ekler's research will deal with addition agents in electro-deposition, continuing a program established eight years ago in McGill's chemistry laboratories.

Mr. Fortin's research will embrace two

subjects — the influence of nickel in stabilizing the modulus of elasticity of work hardened steel, and fundamental study of the decomposition of austenite in steels containing small amounts of nickel. He will work in laboratories connected with Laval's faculty of sciences.

## 6th Safety Award For Copper Cliff

Safety Supt. A. E. O'Brien enjoyed another of his favorite moments August 13 when he reported to Vice-President R. L. Beattie that Copper Cliff plant had for the sixth time rolled up a total of more than 100,000 shifts without a lost-time accident.

Theatre tickets have been presented to all men on the roll who took part in the plant's splendid no-accident performance.

The 103,000 safe shifts were scored during the period from May 21 to June 19 but the award was delayed due to investigation of an alleged injury which proved to be non-industrial.

### NO FAVORITISM

In a small town a tourist approached an old-timer on the steps of the general store. "Say," he asked, "what's the death rate around here?"

"Same as it is back east, bub," answered the old fellow, "one to each person."

### A REALLY TOUGH GUY

"Two days without food or water," announced the Commando to an admiring audience in the local, "think of that."

"Pretty bad," agreed a middle-aged man, "but how would you like to have fought in the trenches in Flanders? Sometimes we were up to the waist in icy water and mud for a week or more."

"Call yourself soldiers?" snorted a very old man who had hobbled up to the bar. "Fah! When I was in the Zulu war a spear knocked me down and pinned me to the ground. I couldn't move and I lay there for a week without food and drink."

"By jove!" exclaimed the Commando, "it must have been very painful."

"Not very," answered the old man, "only when I laughed."

Fortify yourself with moderation; for this is an impregnable fortress. — Epictetus

## Highland Cadets Busy at Their Annual Camp



At their annual camp the members of Copper Cliff Highland Cadet Corps took part in a full program of instruction and training. Picture shows a group at gunnery practice; Major R. Swain, commanding officer of the corps, is instructing Cadet Jack Perron; watching are Cadets Ron Pagan and Jim Rae. Cpl. Barry Ambler, Lt. Norman Yandon, Lt. Colin Young, and Cadet Frank Taylor. The camp was one of the most successful in the long history of the corps, Major Swain said.

## Highly Complex System Needed To Distribute Inco Products



Inco's far-flung system for the sale and distribution of its products was discussed by Dr. John F. Thompson, chairman of the board, in a letter to the Company's shareholders last month. Dr. Thompson wrote: "Today, as during the past years of war and rearmament, the most pressing problem of your Company is that of production. The day is approaching, however, when the prob-

lem of production will be matched by that of sales and distribution. The activities involved in selling and distribution are especially complicated with a Company such as Inco, which has to sell and distribute on a world-wide scale its refined metals—nickel, copper, platinum metals, gold and silver; rolling mill and foundry products in some 100 different nickel alloys; salts and oxides of

nickel and cobalt, and elementary products such as selenium and tellurium.

"For copper, gold and silver, the market channels are well known and our methods of sales distribution conform to those generally used in these trades. For nickel, we have the dual problem of satisfying the demands of large, long-established customers and at the same time making this metal available in small quantities to a great number of users whose consumption in the aggregate is an important section of our business and from whose ranks may be expected to come the large-quantity consumers of the future.

"For rolling mill and foundry products, the problem is more complex. Not only do we produce some 100 alloys but we supply these in the varied forms of rod, sheet, wire, tubing, castings, etc., and also with varying refinements of physical properties. These must be efficiently and economically distributed to over 50,000 customers in all parts of the world. To do this requires a complex, highly organized system of Company sales and service offices and distributors. And their activities must be supported by an equally far-flung system of warehousing.

"The fundamental principle of this system is to make the use of our products as easy as possible, thus caring for established purchasers and users and assuring potential consumers a near-at-hand source of supply which can be depended upon to respond immediately to their special needs.

"We have been years building this system. It is well staffed with a personnel experienced in this work over many years. The accompanying map shows its geographical scope, which we believe to be wider than that of any other non-ferrous metal company. As the non-ferrous metal trade shifts from a sellers' to a buyers' market, we can depend on this sales and distribution system to obtain for us our full share of the world's demands."