

INCO TRIANGLE

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A Signature of Beauty

(Story on Page 16)



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Build Plant for New Fluid-Bed Roasting Process at Smelter

Development of a new fluid-bed roasting process for the continuous production of coarse, granular nickel oxide from fine sulphide concentrate by International Nickel was described in a paper presented at the annual meeting of the Canadian Institute of Mining and Metallurgy at Toronto on April 26 by W. Curlock and H. J. Roorda, respectively superintendent of research and assistant to superintendent of research at Copper Cliff.

The new method will be utilized in a \$5,000,000 plant now under construction at Copper Cliff and will largely replace existing sintering facilities. Process technology, as described in the paper, has been established in a pilot plant embodying a 4-foot diameter roaster which produces oxide at 20 tons per day.

In the new process, the low melting temperature and the fine particle size of the sulphide precluded use of conventional fluidization techniques. Instead, the fine sulphide is formed into small pellets and fluid-bed roasted at 2000 degrees F., about 800 degrees F. above the softening temperature of the sulphide, but below that of the oxide.

Thompson on Display At Manitoba Shows

Visitors to Winnipeg's Red River Exhibition and Brandon's Manitoba Provincial Exhibition will get a glimpse of life in Thompson, 400 miles north of Winnipeg, where Inco's new mining project is scheduled to start preparatory operations in the latter half of 1969. Full-scale production of electrolytic nickel at an annual rate of 75,000,000 lbs. is scheduled in 1971.

The Thompson project will constitute the biggest nickel-producing operation in the free world next to Inco's operations in the Sudbury district, and has the distinction of being the first fully integrated nickel plant in one location. Mining, concentrating, smelting and refining of electrolytic nickel will all be done right at the plant site.

Based on the theme: "Thompson — A Modern Family Town", a special display by Inco will illustrate the advantages of living and working in Thompson, one of Manitoba's newest and most modern communities.

The display will show working conditions at Thompson, and will feature photographs of the modern homes, schools, hospital, utilities, stores and recreation facilities.

available for employees of the Company, their families and other residents of the town.

Also planned is a series of colour slides with commentary to illustrate the growth of Thompson from the days of the first exploration camp to the present.

Bill Mavoros

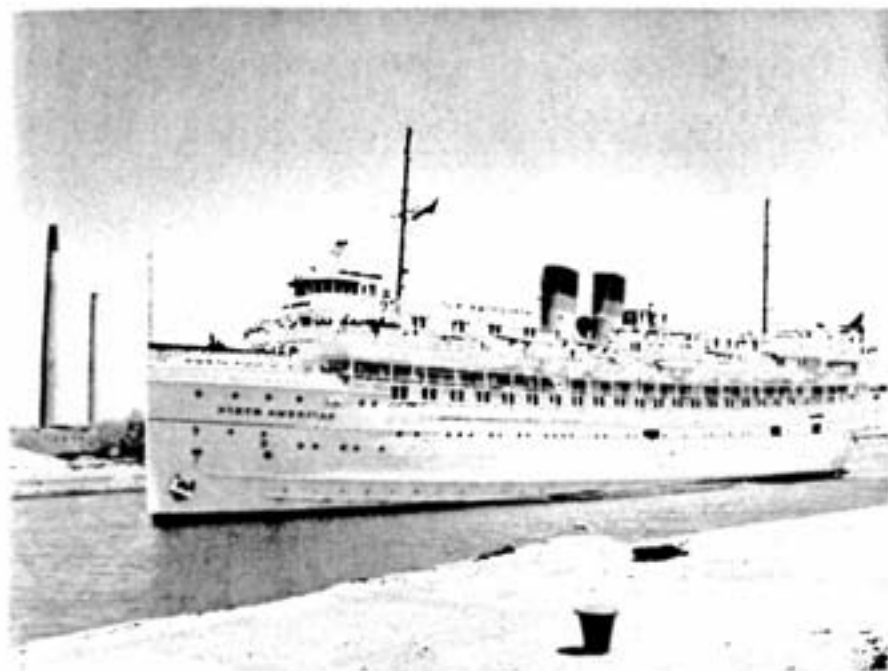
One of the Copper Refinery's most enthusiastic boosters has retired on pension. Bill Mayoros, one of the best mastic men ever to patch a floor or tank, has decided finally to devote his time to home.

garden and camp and let the tankhouse manage somehow without him.

He was born in 1897 on a farm in rural Hungary, and farming was the first work he tackled upon

on landing in Saskatchewan in 1926. Later he helped with the changeover to heavier gauge steel on the railroads. He came to Frood in 1929, and worked nearly four years underground. He quit the mine but soon took a job at the new copper refinery.

A Pleasant Sight on Port Colborne's "Main Street"



Port Colborne's "main street" is one of the world's great inland waterways, the Welland Canal. Passing through the heart of the town, it provides a continuous program of entertainment during the navigation months, especially since the St. Lawrence Seaway connected it with the shipping lanes of the Atlantic. In our picture the North American makes a pretty sight as she cheeks through the canal's 1,390-ft. Humberstone lock, longest lock in the world. She and her sister ship, the South American, each make two round trips a season through the canal, on a pleasure cruise from Chicago to Quebec. Chimneys of Inco's nickel refinery are in the background of the picture.

Bill worked five years in the casting building, then moved over to the tankhouse which, as far as he is concerned, will always be the best place to work. "I never like to leave that place," he confessed.

He was married to Barbara Bero

in 1922 and they have one son Bill, a shift boss at the Copper Refinery. Their two grandchildren give them much joy.

A fine home, garden, and a camp on Whitewater Lake are keeping this smiling pensioner busy.

Copper Cliff Club Marks 44th Anniversary



The Copper Cliff Club was booked to capacity for the dance celebrating its 13rd anniversary. Corsages for the ladies, a delicious buffet dinner, and smooth music by Wally Johnson's quintet all contributed to a most enjoyable evening.

Garson Club's Bowlers Ring Down Curtain on 11th Successful Season



Garson Employees Club bowling league wound up another very successful season — their 11th — with a banquet and trophy presentation program at Coniston's popular Club Allegri. League president Cecil Ace and secretary-treasurer Ollie Matson heard words of well-earned praise for producing one of the best bowling seasons yet. Above pictures show: 1. "Rockets", the club champions, with the Garson Mine A.A. trophy and their awards: Orlando Rinaldi, Pat Levesque, Eli Maki and Joe Cull; Eldon Carmichael and Gaylord Cull were also members of this team.

2. The champs of the eight-team A section, the "Hardtacks", Vic Kreko, Gordon Young, Taumo Perala, Vern Kallio, Voitto Peerla and Vaino Maki, with the Todd trophy. 3. Winners of the 10-team B section receiving the DeMarco trophy from Cecil Ace: Len Matson, Hugh Rorison and Arthur Lyc; the other men on this team were Rudolph Lindskog and Calvin Carr. In the individual standings the Cull boys picked up all the marbles. Gaylord took high average with 255, Gordon high triple with 934, and they each rolled a 380 to tie for high single.



Lawn chairs were presented to the members of the ladies' league championship team. Trying out her chair in the picture on the left is Mrs. Norma Jarmovich holding the Garson Employees Club trophy, and standing behind her are the other members of the team, Mrs. Carmen Joly, Mrs. Helen Cresswell, Mrs. Anita Morrow and Mrs. Claire Monk. The second picture shows three members of the consolation champs with the Roy trophy and their individual awards: Mrs. Edna Ace, Mrs. Daisy Dunsmore, and Mrs. Joan McDonald; the other two team members were Shirley Ferenzina and Myrna Dunsmore. In the ladies' section, for the second successive year, Mrs. Edith Matson outbowled all others to win all three individual awards, high single (345), high triple (790), and high average (197); she is seen in the third picture (right) receiving congratulations from the ladies' league president, Mrs. Irja Kreko. The good-looking gal in the fourth picture is Lorraine McGregor, who won the individual club championship for ladies. Gaylord Cull won the similar award in the men's division.

Joe Siwicki

Born in the Ukraine in 1897 Joe Siwicki came to Canada in 1925 and almost immediately got a job on the blast furnaces at Copper Cliff. "My wife's father, John Doskocz, was working here," explained Joe, "and he helped me." Retired now on an early service pension Joe is looking forward to spending more time in the big garden at his home on Poland Street in Copper Cliff.

In 1930 after working for a period in the roast yard at O'Donnell Joe was transferred back to the smelter and the following year moved up to the crushing plant, where he worked until retirement.

Joe married Ksenia Doskocz five years before coming to Canada and she joined him in this country in 1928. Their family include Sylvia,

wife of Walter Adair of the smelter. Christine of Wawa whose husband Leo Aho is a former Incoite, Stella (Mrs. Z. Quaintini) of Sudbury and six grandchildren.

Recently confined to hospital for a short time Joe is beginning to feel better now and hopes that by midsummer he'll be back in shape and in full control of the garden.

John Pochay

Retired on an early service pension from the smelter at Copper Cliff, John Pochay is taking to his new leisure like a duck to water.

John first worked in the nickel industry back in 1926, hiring on at Coniston shortly after arriving in Canada from the Ukraine. He was employed in the yard and at the ore bins until laid off in 1930.

During the depression years he was in Montreal, Winnipeg, the Soo and any town where he could find a job. Returning to Coniston in 1933 he worked in the yard until 1942 when he was transferred to Copper Cliff. Employed on the nickel reverbs since that time he

has seen service as a fitter, back-trackman, and roofman.

His wife Anastasia Hasian, whom he married in 1923, has remained in the old land where their only son died many years ago.

Living with a nephew in Sudbury John intends spending the summer visiting a host of relatives in the pleasant Niagara district, and enjoying his paid leisure to the full.

Mike Narduzzi's Team Takes League Laurels

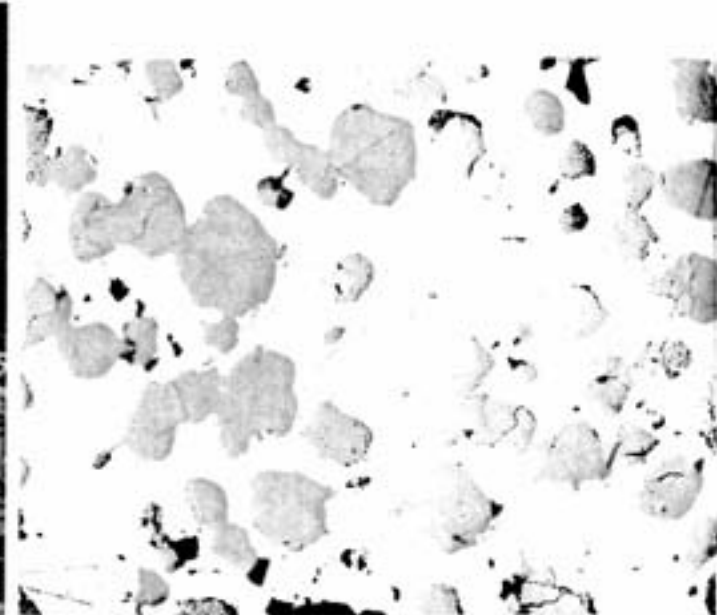


Winners in the hotly contested Copper Cliff bowling league at the Sudbury Inco Club were Narduzzi's team, pictured here standing around Mike at the scoreboard. Gil Benoit is on the left and the others are Sam Baldelli, Chuck Cinotti, Norm Ceppetelli, Curly Tomassini and Bucky Basso. This same team led the league all year and beat out Reginald in the playoffs. League high single was scored by Malcolm Finlayson (387), high triple (889) by Chuck Cinotti and high average (254) by Chuck Bronson.



Mr. and Mrs. Siwicki





In this view of the huge casting and cooling building at Copper Cliff smelter, a 14-ton ladle of nickel-copper matte is being poured into one of the 213 moulds. Covered with an insulated steel hood, it will then be cooled slowly over a period of several days, during which time by a wonder of nature the nickel and copper sulphides will separate and form independent crystals. Inco research developed this method of nickel-copper separation, which replaced the Orford process at Copper Cliff in 1948. In the photomicrograph at the right the separation is clearly shown: the dark crystals are copper sulphide, the light crystals are a metallic fraction containing small amounts of precious metals, and the matrix holding them both is composed of nickel sulphide.

Institute Hears Paper on Inco's Process of Nickel-Copper Separation

A paper on "Treatment of Nickel-Copper Matte", describing the Inco process for the separation of nickel and copper sulphides at Copper Cliff smelter, was the feature at the season's final smoker of Sudbury branch, Canadian Institute of Mining and Metallurgy. More than 200 attended.

Dr. G. A. Harcourt, assistant to the vice-president and assistant to the general manager, presented the paper, which he co-authored with Kelvin Sproule and L. S. Renzoni. It was originally prepared for the international symposium on the extractive metallurgy of copper, nickel and cobalt, at the annual meeting of the AIME at New York in February.

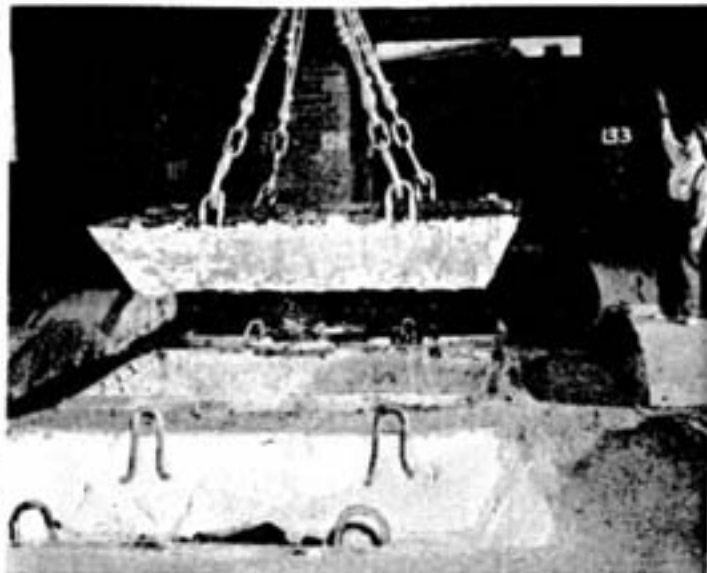
The separation of copper-nickel contained in the Sudbury ores has been a problem since the deposit was first discovered in 1883. The ores were essentially worthless until the discovery of the Orford process in 1890, which permitted the separation of the copper-nickel contained in Bessemer matte, and this process continued in use until 1948.

The constituents of Bessemer matte when solidified have been known to be Cu_2S , Ni_3S_2 and a metallic alloy since the study of Hayward in 1915, and it had been appreciated for some years that

the possibility of separating these constituents existed. However, the first really successful separation was not made until 1943 as a result of work which started soon after the completion of the Copper Cliff research laboratory of The International Nickel Company in 1937.

After many failures in attempting to make this separation, all personnel associated with the project at Copper Cliff experienced that tremendous thrill of discovery in February, 1943 when they came up with Bessemer matte separated into three parts as represented by samples in glass bottles. One bottle contained copper concentrates assaying 75% copper, 5% nickel; a second contained a nickel concentrate assaying 2% copper and 70% nickel and the third held a metallic alloy which contained nearly all of the precious metals present in

(Continued on Page 8)



Here a 25-ton ingot of matte, after controlled cooling, is lifted from its mould. Crushing and flotation are the next steps in the process for the recovery of the independent crystals of nickel and copper sulphides and the metallic fraction containing precious metals.

Recent university graduates who have joined Inco, and many of the 325 students who have obtained vacation employment with the Company in the Sudbury district, attended the CIMM smoker at which Dr. G. A. Harcourt presented the paper on "Treatment of Nickel-Copper Matte." He is seen on the left in this picture with John Smith (Frodo), Doug Whelan (Copper Refinery), Gordon Stibbards (Copper Cliff mill), Mike Farnsworth (Open Pits), Ron Campbell (Levack), Al Spence (Garson), and Milton Chomyn (Copper Cliff smelter).



Mixed Bowling League Upholds Reputation As One of Liveliest at Inco Club



Living up to its reputation as one of the liveliest groups at the Sudbury Inco Club, the mixed bowling league is already setting its sights on greater success next season. Trophy winners who received their prizes at the closing banquet are seen in these pictures: 1. Winners of the Stan Dobson trophy for the league championship, Fred and Simonne O'Hagan, Eddie and Aileen St. Marselle, "Butch" and Dorothy Bouchard, Jack and Irene McFadden, 2. Winners of the Eldred Dickie trophy for the A section, Frank and Ida McKain, "Spike" (absent) and Jean Boal, Charlie and Carol Rafuse, Frank and Nonie Millson.



New holders of the Norm Creet trophy for the B section of the Inco Club mixed bowling league are John and Jackie Luptak, Vic and Peggy Venecek, Joe and Gerlie Hughes, and Andy Martin and Kay Temple.



Individual scoring stars of the league, shown here, were Svan Rantio, high average (238) and high triple (688); Jean Boal, high triple (760); Joyce Smeltzer, pinch-hitting for Osyth Cluff, who had high average (205) and high single (323); Albert Amos, the affable league secretary, who had high single (393).

Karl Martilla

Retired from Frood mine on early service pension Karl Martilla is now busier than ever landscaping his new home and improving his summer camp. "I'm busy 14 to 16 hours a day," he grinned. "I don't know how I found time to work for Inco before."

Their camp on Armstrong Lake will be headquarters to the Martillas for a good six months of the year now, and with the indispens-

able "sauna" it makes a very pleasant home. "Only trouble this spring," Karl said, "are the black flies, they're real bad."

Born on a farm in Finland at the beginning of the century Karl came to Canada in 1928. After several months at odd jobs near Montreal he went to a bush camp near Capreol for the winter. Next spring he came to Sudbury and got a job at Frood.

Working all his Inco time at Frood he has been stope boss and pillar leader for many years. For the last 10 years he had worked as a level timberman. Capable and dependable, he was a typical example of the many good Finnish miners in Inco mines.

In 1946 Karl married Tyne Pajunen and after enjoying a trip back to Finland in 1955 they are planning another for next year.

A fine new house in the Hillcrest area of Sudbury is presently getting the finest of grooming care from this very happy Finnish couple.



Mr. and Mrs. Martilla

Former Copper Cliff Residents at Reunion



When Harriet Maddock, formerly of the purchasing department at Copper Cliff, was wed to Doug McMorran of the Copper Refinery, the occasion was a happy reunion with old Copper Cliff friends for these former residents: Mr. and Mrs. S. A. Crandall of Belmont, Calif., Mrs. John F. Robertson, Mrs. Sheridan and L. M. Sheridan of Santa Barbara, Calif., and John F. Robertson of Toronto. Mr. Crandall, 72, retired in 1953 with 25 years' service; his predecessor as chief engineer at Inco, Mr. Sheridan, who is now 78, retired in 1947 with 27 years' service; Mr. Robertson, who is in his 80th year, retired as plant metallurgist in 1946 with 38 years' service.

Inco Directors Visit Thompson And Copper Cliff

Both Thompson and Copper Cliff were honored by a visit from directors of International Nickel following the annual shareholders' meeting in Toronto April 27. The Thompson visit was the first inspection by the directors of the Company's great new northern Manitoba nickel development.

In the picture on the right a group of the directors are seen in the foyer of the Inco administration building at the Thompson plant: 1. Rt. Hon. Viscount Margesson, PC, MC, London, England; 2. Dr. John F. Thompson (honorary chairman and chairman of the executive committee), New Canaan, Conn.; 3. Lance H. Cooper (vice-president), MBE, London, England; 4. Henry S. Wingate (chairman and chief officer), New York; 5. J. C. Traphagen, West Nyack, N.Y.; 6. Sir Otto E. Niemeyer, GBE, KCB, London, England; 7. H. C. F. Mockridge, QC, Toronto; 8. J. Roy Gordon (President), New York; 9. William C. Bolinius, New York; 10. Edwin G. Baker, Toronto; 11. Elmore C. Patterson, Mount Kisco, N.Y.; 12. George C. Sharp, Katonah, N.Y.; 13. H. R. MacMillan, CBE, Vancouver; 14. Ralph D. Parker (senior vice-president), Toronto.

A meeting of the directors was also held for the first time in



Winnipeg. Directors not shown in this picture who attended the

meeting were Laurance S. Rockefeller (New York), R. Ewart Sta-

vert (Montreal), and Norris R. Crump (Montreal).



In the town of Thompson the handsome assembly room of the municipal building was the scene of a reception that provided a pleasant break for the directors' party in the day's long but interesting inspection of underground and surface developments at the plant, and tour of the town. These pictures show: 1. Alan R. Smith (staff assistant), Mrs. J. Blaine Johnston, director Laurance S. Rockefeller, Carl A. Nesbitt (resident town administrator). 2. Mrs. I. P. Klassen (pouring) and Mrs. Gordon Armstrong with directors Dr. John F. Thompson, Sir Otto Niemeyer, Lance H. Cooper. 3. Mrs. Ray Puro serves F.M.A. Noblet (treasurer of the Company), Walter A. McCadden (comptroller of the Company), director William C. Bolinius.



Viewing the flotation section of the new Levack mill, in the picture on the left, are H. F. Zurbrigg (chief geologist), directors R. Ewart Stavert and Lance H. Cooper, George Morrison (mill superintendent). 2. In the hoistroom at Levack mine, director Elmore C. Patterson with F. McAtee (mine superintendent). 3. In Copper Cliff smelter, director Dr. John F. Thompson, J. N. Lilley (superintendent of smelters), T. M. Gaetz (assistant general manager, Ontario division).

INCO FAMILY ALBUM



RIGHT: Formerly of Coniston and recently transferred to Thompson, here's Leo Pilon with his wife and family: Annette (Mrs. R. Sauve), Joanne, 19, Raymond, 16, Louise, 15, Suzanne, 14, Pauline, 11, Gerald, 8, and Monique, 8 months. **LEFT:** Formerly of Lively and now also of Thompson, Mr. and Mrs. Ike Klassen with Gail, 11, and Susan, 7; their son David, 16, is attending college.



RIGHT: Creighton mine's well-known and popular Lucien Joly with his wife and family: Michel is 16, Maurice 12, Giselle 9, and Gilbert 7. **LEFT:** Mr. and Mrs. Eric McIntyre, Port Colborne, with Theresa, 3, Tommy, 5, and Jimmy, 2. Eric is a valued member of the pipettiers at the Nickel Refinery.



RIGHT: Jack Mader, sinter machine man in the pelletizing department at the Iron Ore Plant, came from Port Colborne to Copper Cliff; here he is with his wife and six kiddies: Michael, 8, Diane, 20 months, Paul, 7 months, Kenneth, 5, Jackie, 4, and Eugene, 11. **LEFT:** Mr. and Mrs. John Bailey of Sudbury with Bobby, 11, Tom, 10, and Jim, 12. All of John's 25 Inco years have been spent at Frood, where he is a stope leader on 1090 level.



RIGHT: Mr. and Mrs. Graham Smith of Lively with Byron, 9, Kevin, 3, Arnall, 7, and Heather, 10. Graham is on the warehouse staff at Murray mine. **LEFT:** Both Mr. and Mrs. Paddy Hanna of Copper Cliff were born on Manitoulin Island, near Little Current. Here they are with their family, Frances, 3, Dennis, 14, and Roy, 17. Paddy works on the reverberatory furnaces at Copper Cliff smelter.





That long last stride meant a safety for Coniston's Roly Gosselin, on his only hit of the evening. In fact the whole Coniston team only got four hits against Garson Bombers in this game, and were beaten 10-3. Garson players shown are Grady Beland on the mound, Jerry Leblanc at 1st, Serge Lefebvre 2nd, Frank Ireland short, Gord Todd 3rd and Ray Hartley in left field. Coniston baseline coaches are Armand Lemieux at third and Visentin at first.

Garson and Coniston Lead the Pack In Intermediate Softball Scramble

With the Royal Trading league catching the headlines for import pitcher duels, no-hitters, etc., not too much is heard of the Sudbury District Intermediate B softball league, a classy six team loop operating in the eastern part of the district. Now in its third year the calibre of ball has steadily improved and this season excitingly fast, action-packed games are the regular bill of fare.

While good pitching is standard in this league — former Royal Trading pitchers Johnny Wallace and Grady Beland are among the competent hurlers doing mound duty here — there is still ample hitting to ensure some fine fielding plays and exciting base running.

The two Inco plant teams in this league, Garson and Coniston, are presently leading the pack. Garson Bombers, strengthened somewhat from last year when they lost out to Coniston Allegris in the semi-finals, are riding high, having yet to lose a game. "Coniston gives us the most trouble though", coach Odie Maguire declared, and Coniston's mentor Armand Lemieux intends keeping it that way, only more so!

Garson - Falconbridge Combines are in third slot followed by RCAF, Fielding Beavers and Wahnapiatae. Games are played at the Radar station, Falconbridge. Garson, Coniston and Wahnapiatae.

George Holmes, Serge Lefebvre,

Al McCausland, Reg Lefebvre, Earl Kent, Eldon Carmichael, manager Ellis Moratz and coach Odie Maguire are among last season's Bombers going strong for Garson again this year. The new lineup also includes Jerry Leblanc, Gord Todd, Frank Ireland, Tom Stefanko, Ray Hartley, Grady Beland, Henry Vendette, Gerry Melcher, Bert Pilatzke and Noel Racicot. So far, at the plate, McCausland, Leblanc, Carmichael and Todd

have been the leaders in a very strong hitting club.

At Coniston a number of regulars from last season are being aided by three "imports" from Creighton, the McLaughlin brothers, plus a half dozen or so new faces. Former Royal Trading pitching ace Johnny Wallace is one of these along with Ovide Cyr, Buck Marcotte, Vic Boyd, Stan Price, Peter Daypuik, Richie Caverson, and Bill, Dick and Bob McLaughlin. Others are Keith Boyd, who along with brother Vic, Roly Gosselin and Richie Caverson, is making like the Yankees' Roger Maris at the plate, and Gino Oliver, Gino Caverson, Carl



Coniston's Roly Gosselin gets set to lay down a bunt and move that runner to second. This action was in a recent Intermediate B softball game when Garson Bombers shelled Coniston 10 to 3. The Garson catcher is George Holmes and first baseman Jerry Leblanc. Coniston baserunner is Jim Fitzgerald, with coach Reno Visentin keeping a close eye on the play. Base umpire is Billy Core.

Gaston, Jim Fitzgerald, Ted Banks, Ken Fitzgerald and Reno Visentin, who doubles as manager. Ex Sudbury Wolfers Armand Lemieux is the field general.

League president is Mickey Stahan, with Mike Presniak the hard-working secretary. A 20-game schedule will decide the play-off berths. The unspurring staff includes such strong-minded stalwarts as Tubby Halverson, Billy Core, Joe Halverson and Al Cyr.

Institute Hears

(Continued from Page 4)

the original Bessemer matte.

At the time of its introduction the new process was described by the Engineering and Mining Journal as "one of the most fascinating metallurgical developments which has appeared for many years."

The heart of the process is the fact that if matte is cooled very slowly through the solidification and transformation range, the product will separate into independent crystals of nickel sulphide and copper sulphide and a metallic alloy which can then be separated by crushing, flotation and magnetic separation.

During one stage in the controlled cooling period, even though the matte is completely solid, a migration of the copper constituent nevertheless takes place from the nickel sulphide to the nearest copper sulphide crystals.

The paper was illustrated with slides and an excerpt from the Inco motion picture "Milling and Smelting of Sudbury Ores".

The chairman of the CIMM branch, J. A. Pigott, presided. Introduced by Dr. W. Curlook, Dr. Harcourt was thanked at the conclusion of his address by Louis Rivet.

Joe Sustaric

Another familiar Frood face has joined the growing list of happy Inco pensioners with the retirement on early service pension of

Joe Sustaric.

One of Frood's real oldtimers, Joe helped drive the mine's main crosscut on 2400 level back in 1928.

Joe came from Yugoslavia in 1925 and after trying the farm, bush

camp and railroad work he arrived at Garson in 1926. He moved to Frood in 1928 and among other development projects helped deepen No. 1 shaft.

Quitting Frood in 1931 he returned to the Old Country and married Antonia Guidovec. She and their daughter Josephina, who was recently married, have remained there.

Returning to Canada, Joe worked around Kirkland Lake for a time before rejoining Inco at Creighton in 1933. In 1936 he transferred back to Frood, working there on most of the production jobs. He eased off toward the end and spent the past few years as fireguard.

In good health except for a little leg trouble, Joe intends taking things easy for awhile, then returning to Yugoslavia. "I can live like millionaire over there on my pension," he said.



Some of Prize-Winners in Port Colborne's Golf Tourney



Some of the prize-winners at the annual Inco Nickel Refinery golf tournament at Port Colborne Country Club are shown in this lineup. Les Lewis, co-chairman of the highly successful event with Paul Wegrich and Gordon Hurst, is seen on the left, and next to him are Bob Bozzato, most honest score, 144; Don Nicks and John Tuck, longest drives, 225 yards and 209 yards respectively; Ivan Royal, least putts on putting green, 16; Bill Spence, low gross, 77; Paul Wegrich, low nine-hole gross, 37; W. J. Freeman, low nine-hole net, 36. Other winners were Con Van Suchtelen, John Jamieson, R. White, Alan Reid, "Chip" Sider. Prizes were presented by W. J. Freeman following the buffet banquet. The committee in charge was thanked for its good job by Charles Ott, president of the Inco Recreation Club.

Blue Saints Bugle Band is Pride of Sudbury Tech



If Stan Dorling wears an expression of pride as he stands beside Sudbury Tech's Blue Saints bugle band, who's to blame him? He's one of the instructors of this sharp unit which has made such progress in little more than a year.

With smart new uniforms, snappy drills and stirring music the Sudbury Tech Blue Saints bugle band is making a name for itself in Sudbury. Formed just over a year ago by the school's impresario George Netke, it was most impressive at the Precision Fantasy show held recently at the Sudbury Arena.

Largely responsible for the band's musical success are two members of the 58th LAA (Sudbury) Regiment band, Stan Dorling and Bob Craig. Bob, with Falconbridge, and Stan a member of the Inco shops office staff at Copper Cliff, volunteered to train the bugle band and the results have been most gratifying.

The gleaming highly polished bugle used by the Tech band is a far too from the old army bugle, Stan Dorling told the Triangle. It is a real musical instrument equipped with piston and rotary which more than double its musical range. "You have five notes only with the bugle," Stan explained. "The piston, which is akin to valves on a cornet, gives you another five notes, and the rotary five sharps or half-tones."

The piston is located horizontally along the underside of the bugle and is controlled with the right thumb, the rotary with the left.

To give even greater musical range there are five distinct types of bugles in the Tech band, soprano, tenor, French horn, baritone

and bass baritone. Sopranos Gomi-nate—there are 10 of them, against just one bass. This is a happy arrangement both musically and financially since a soprano bugle costs between \$90 and \$150 while a bass runs to more than double that figure.

The present band has 16 members, four of them girls, and almost all were strangers to the bugle last year. "The kids are really eager to learn," Stan said, "especially if there is a show to go on. They really buckle down then."

"It takes about three months for the average youngster to learn to play," explained Stan. First step is teaching them to read music, then how to "tongue" a note on a mouthpiece. After a month or so of this comes learning to "tongue" a real bugle. A few more weeks and they are ready to start playing simple pieces.

With no written bugle music, piano scores are taken and arranged by the instructors. "And," Stan proudly added, "some of the boys and girls are now helping out with this."

Still an active member of the 58th Regiment band, in which he plays first baritone and is also band librarian, Stan does double duty on Monday and Wednesday evenings. From 6:30 to 8 he instructs the bugle band, then from 8 to 10:30 he attends regular practice with the 58th. On Fridays he conducts the bugle band beginners' class which this season has nine girls and three boys. "They'll replace kids graduating from school," Stan said, "and there is also a possibility of enlarging the band."

One youngster in the beginners is a real find. "He can hit super C — that's a full octave above top C — which is tough for even experienced buglers," Stan said. "Of course he played cornet six years with the Salvation Army band, which helped."

One of the original members of the Sudbury Lion's Club Boys' band (1937) Stan has been playing since that time. He has been a member of the 58th for the past nine years. This is his first teaching assignment. "I really enjoy it," he grinned, "but it sure cuts down on the time I have to work around the house."

A few years ago Stan bought a vintage home on Regent street and is gradually remodeling as time and money become available, on strictly a do-it-yourself basis.

Stan has three children, Dan 11, Janice, 9, and Susan, 6, but so far only Dan has a brass instrument, a cornet. "He doesn't play much though," Stan said, "not too interested and it's true what they say — you should never try to teach your own youngsters."

With Inco since 1951, Stan worked for a time in the metallurgical department before moving to the shops office staff.

Inco Accounting Dept. Heads

As a result of recent organizational changes, the accounting department of The International Nickel Company of Canada, Limited, is now constituted as follows:

Walter A. McCadden, comptroller; W. John Gould, deputy comptroller; Joseph E. Finnelly, assistant comptroller; Robert N. Broderick, assistant comptroller; Mills Austin, assistant to the comptroller; John D. Taylor, assistant to the comptroller.

Sudbury District

Donald Cowell, division comptroller; George E. Burns, assistant division comptroller; Russell J. Henderson, assistant division comptroller; Thomas J. Meekins, assistant division comptroller; Ernest G. Woods, assistant division comptroller.

Nickel Refining Division

Clarence A. Beach, division comptroller; Stewart C. Augustine, assistant division comptroller.

Manitoba Division

J. Ross Hawkins, division comptroller.

John Narozanski

A salvageman at Murray mine for many years, John Narozanski has retired on disability pension. His service dates back to 1930 when he started at Creighton.



John and Mrs. Narozanski

A banner year for John was 1930, since he also met and married Sophie Miluch that same year. A native of the same village as he was in Poland by some whim of fate she came to work in John's boarding house at Creighton. Of their two sons, Michael is employed in Sudbury and John Jr. works at the Copper Refinery.

John came to Canada in 1929. He was 25 then and before starting at Creighton mine the following year he took turns at the harvest and the railroad, as well as on highway building and in the bush.

At Creighton he worked underground in stopes and on motor crews. He transferred in 1944 to Murray where he later took over as salvageman. John liked that job and would still like to be on it, he said, but the doctor decreed otherwise.

With time on his hands, the always neat Narozanski home and garden in Sudbury is receiving even more care than usual from John, and he has plenty of attention left over to lavish on their one grandchild.

Fond of being busy John is not finding enforced leisure too easy, but he's working at it!

Some of the Copper Refinery's Products in Attractive Display



Some of the 55 different shapes in which highest quality ORC brand Inco copper goes to market are seen in the above display recently arranged at the Copper Refinery. Row by row the neat, attractive exhibit contains, from left to right:

Front row: 1, ingot bars. 2, copper shot. 3, ingots.

Second row: 1, phosphor de-

oxidized billets. 2, Port Colborne anode mould. 3, electro copper billets.

Third row: 1, electrolytic cut cathodes, bundled for shipment. 2, electrolytic copper cathodes, full size. 3, 3,750-lb. electro copper cake, on mould in which it was cast. 4, water-cooled copper v.c. billet mould. 5, water-cooled copper v.c. cake mould.

Fourth row: 1, phosphor deoxidized copper billets, bundled for shipment. 2, 600-lb. electro v.c. cakes. 3, 1,500-lb. electro v.c. cakes. 4, 600-lb. silver-bearing v.c. cakes. 5, electro v.c. wire bars, bundled for shipment.

Fifth row: 1, 675-lb. electro v.c. cakes. 2, 1,000-lb. electro v.c. cakes. 3, 1,800-lb. electro v.c. cakes. 4,

1,000-lb. phosphor deoxidized v.c. cakes. 5, 600-lb. phosphor deoxidized v.c. cakes.

Rear row: 1, horizontal cast wire bars. 2, 4" x 4" electro v.c. wire bars. 3, 5" x 5" electro v.c. wire bars. 4, 5" x 7" electro v.c. cakes. 5, 4" x 4" silver-bearing v.c. wire bars. 6, horizontal cast wire bars, bundled for shipment.

Toivo Pentilla

A member of the blasting gang at the Open Pit for nearly 20 years, Toivo Pentilla has retired on disability pension. "The Pit was a real good place to work," said Toivo. Before going to the Open Pit he had spent almost 10 years underground at Frood.



Toivo and Mrs. Pentilla

Coming to Canada in 1923 he went first to Port Arthur and worked several years there in bush camps and the paper mill. Next stop was Windsor where he helped make Studebaker cars for a couple

of years, then after a few months in the States, came to Sudbury and started at Frood in 1929.

At Frood Toivo helped to sink no. 5 and no. 6 shafts and to deepen no. 4 shaft, and also did a lot of construction work and drift driving after no. 3 shaft was sunk. A cracking good miner he was equally appreciated at the Pit.

In 1927 Toivo married Annie Penttinen and they have been very happy together. A son Pentti of Sudbury recently presented them with a fine grandson, Peter.

From now on their Tilton lake camp will be home to this couple for better than half the year, and the remaining months will be spent travelling and enjoying a more southern climate. Another trip back to Finland is also in their planning.

"I don't mind what we do," smiled Mrs. Pentilla. "I just like having him home."

INCO MEDICAL CENTER
SUDBURY
TELEPHONE NUMBER
CHANGED TO
OS. 4-3171



Club's Teen-Age Bowling League Big Success

Twelve teams took part in the Copper Cliff Club's first teen-age bowling league, which recently wound up the season with a dance and trophy presentation. Ted Foster, member of the bowling committee, is seen here with the league champions, Marilyn Baker, Warren Piche, Bob Cook and Charlie McBeth.



Beautiful weather and a beautiful golf course combined to make the annual Inco Nickel Refinery tournament at Port Colborne Country Club another resounding success. There were 84 entries. The husky golfer on the first tee, about to knock the cover off the little white pill, is Andy Vasko. Not quite so sure of himself, Pat Skuta is rigged out with special equipment in the second scene; Bob Ralston holds the ball while Don Richardson and Mickey Rivers steady Pat for his mighty effort.



On the 18th green Bill Freeman is seen as he prepares to sink a three-footer (which he did); Howard Tuck holds the flag, Harry Roe holds the score card, and Earle Lambert holds his breath. On the right, relaxing with mid-round cokes, Len Richards, Jim Fisher, Stan Pettit and Bob Gorley were photographed as they checked back on their score, still able to smile a little.

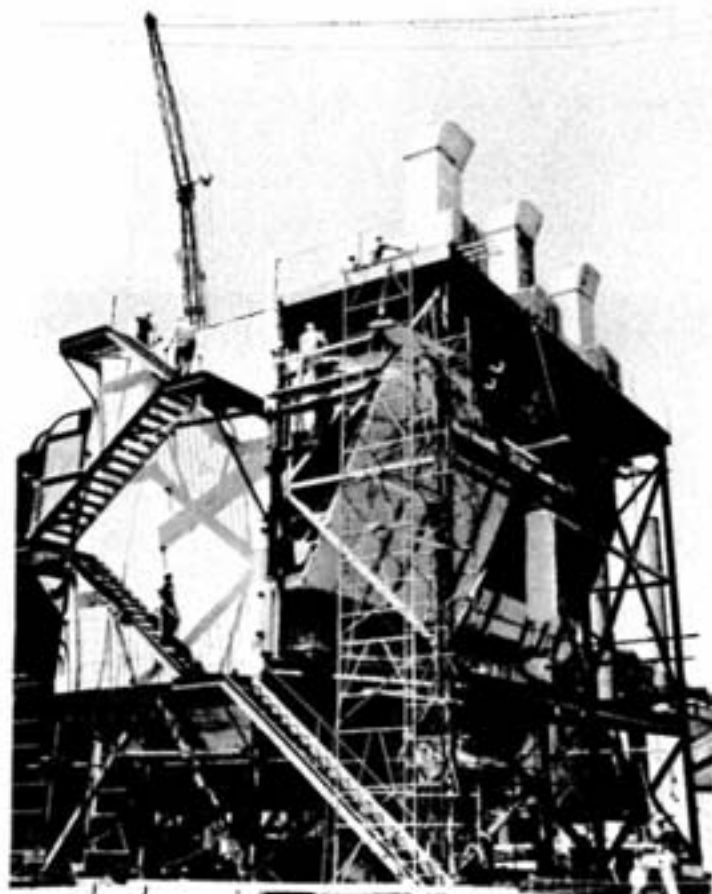


Mike Head looks a little skeptical but Harold Guse certainly seems to be sinking that putt in the first picture; the other players are Gerry Corey and Chuck Ott. The two barefoot boys who shed their shoes to get a better "feel" of the course are Don Buchanan and Alan Findlay. On the right, stoking up at the bountiful buffet that climaxed the event, are Bill Hudgins, Bob Rivers and Clarence Beach. You can see those boys are really hungry — they're all looking at the food!



Soccer is now the leading attraction at Queen's Athletic Field, filling the stands with crowds reminiscent of baseball's balmy days.

New \$500,000 Dust Collector at Port Colborne



Now in operation at the Port Colborne refinery is a high efficiency electrostatic dust precipitator, another step in the Company's program of plant improvements. It is shown above in the final stage of construction.

Supplementing existing mechanical dust collecting units, the \$500,000 precipitator will decrease the quantity of dust emitted from the refinery's anode furnace department to a point well below the standards set by air pollution

authorities for rural and urban areas.

It had been planned to complete the new unit by mid-May, but unusually wet weather conditions interfered.

Subjected to an electrostatic charge in the precipitator's big wire hung chamber, dust particles will be collected on steel plates for processing. In addition to this major installation, other new dust collecting equipment is being added at Port Colborne.

Olympia Leading Tight Race For Sudbury Soccer Supremacy

Sudbury district soccer fans are enjoying another fine season of their favorite sport, with the unusually wet weather failing to dampen the violent enthusiasm of fans or players.

Former Ontario champs, the classy Sudbury Olympias, are currently holding down top spot in the league by a very narrow margin, the race this season being the closest in years. Italia Flyers and Adria Rockets are parked right on Olympia's doorstep with the league leadership as precarious as a dictator's regime.

Polish White Eagles occupy the fourth spot within striking distance of the leaders, while Caledonia are the cellar dwellers, having only one tie game to their credit. Back in the league after a year's absence, Caledonia look much better than their official standing would indicate and are serving up stiff opposition to all clubs.

For the third consecutive year Olympia will represent Sudbury in the northern Ontario playoffs scheduled for July 2 in Sudbury. They will host the Soo-Elliott Lake winner and produce a team to go against the Hollinger Mine - Virginiatown Canadians winner on July 9 in Sudbury. This will decide a northern Ontario champ to advance to the provincial playdowns for the right to enter the Dominion championship.

Outstanding netminder for several seasons and last year with the White Eagles, Olympia's Alf Galins is again top man in that department the statistics show. However Italia's Tino Cerri and Joe Merkash of Adria are not far off the pace.

Offensively too Olympia are strong with three of their forwards, Gunter Van Der Zyl, Alfred Sieber and Hans Wehrmann among the top scorers. Wehrmann was top scorer in 1959 and also took the MVP award and as of this date (June 24) has most goals this season with six.

Adria also have two clever for-

wards high in the goal-getting race. Drago Konkevich and Alonzo Jaime, first Spaniard to play in the league, are well up there and along with Willy Schuran are three excellent reasons why the Rockets are such close front runners.

Italia's Ed Palladino is the leading forward with that club and that fine centre half Bruno Candusso is a tower of strength on defense. For the White Eagles George Zedek at centre half is their most consistent player and Caledonia's Jim Gadjeck and Joe Vukovic appear to be among their best.

According to the association's publicity chairman, Bill Gaylor, a lad not given to unreasonable statements, the calibre of play now is comparable with that of the 1935-39 era when such powerful clubs as Garson, Falconbridge, Creighton and Frood held sway. Bill says that Olympia are easily on a par with the best then.

While attendance may not be quite as high now as in the old days, it has remained fairly constant of late with an average of better than 500 per game for the seven games in May. This is slightly higher than last year. Crowds range from 300 to 800 depending on who is playing.

The Sudbury and District Football Association has been in operation since 1908, the publicity chairman told the Triangle, with one exception of certain periods between the two wars. Reorganized in 1946, and despite some very difficult times, it has progressed to the point where it is again the major sports attraction in town, although the softballers are bidding strongly for this distinction.

After seven years as president, Jim Nemis was made a life member of the association whose president this year is Frank Musico. Vice-president is Vic Crocker, Bill Gaylor doubles as treasurer and publicity, and Mac MacDonald heads the discipline committee.

Real heroes in this league are

The Roving Camera



PERCY CASTONGUAY swears he has the best campsite and the finest beach to be found anywhere in the Sudbury district. And it's right on the Vermillion river, only a couple of miles from his home in Lachwood. A great outdoorsman, Percy along with three hunting friends is in the process of building a hunt camp near Moose lake. That's a few miles northeast of Levack, where Percy has worked on and off since 1939. Normally a motorman, during the summer months he relieves underground powdermen on vacation, and was doing just that on 1750 level when the Roving Camera caught up with him. Born and raised in Chelmsford, he has a family of seven. Two of his sons, Bernard and Michael, work at Levack and Copper Cliff respectively. A better-than-average hockey player and boxer in his youth, Percy recalls tangling on several occasions with the original Frodo tiger, Dooly Bolvon, back in the good old days when boxing was in flower at Sudbury's St. Anne's Hall.

the indomitable Bert Kemp and Bill Seawright, senior referees who, despite much verbal and some physical abuse, have helped keep order for the past 10 years. Bert is referee-in-chief and others on his staff besides Bill are John Ward, Ennio Udeschini, Steve Jensen and a newcomer from Italy, Vincent Pozzuoli.

To bridge the gap between playground soccer and the senior league, the association is operating a junior league this year. Italia, Adria and Olympia all have junior editions with a team from the Sudbury High School under the White Eagles banner rounding out the league. Some of their games will be played on the early end of double features with the seniors, giving the fans an extra dividend of entertainment.

John Rusnak

"I really liked to punch," said John Rusnak, "and I'd still be there today if my heart hadn't acted up." Retired from the converter department at Copper Cliff on disability pension, John is following doctor's orders and feeling fine.

Born in the Ukraine at the start of this century he arrived in Canada just in time for the depression. After a year in Montreal he went west, working on a farm in Saskatchewan until 1935.



Mr. and Mrs. Rusnak

That year he came to Sudbury, spent the winter at a bush camp, then hooked up with Nordale Construction in the spring, working on Inco plant extensions. In 1942 he joined the Company at Copper Cliff, started punching converters shortly afterward, and stayed with that job till the end. "It's a pretty easy job now," he said, "with the automatic punchers."

Married in 1925 his wife died in 1943. He remarried last year, Mrs. Herman of Saskatchewan becoming his wife. They are thinking of returning to that province which they both think is really nice country, ideally suited to gardening, for which they are noted.

Located on Lloyd street opposite the Carleton street light their present home and grounds in Sudbury are a credit to themselves and the community.

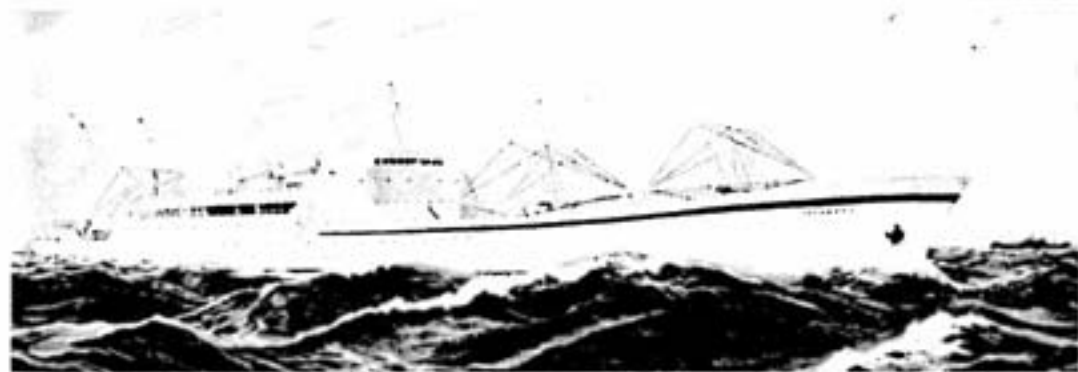


ABOUT to open the tap hole in an anode furnace at the Nickel Refinery in Port Colborne, Eli Plecas paused with his tapping gun while the Roving Camera snapped his picture. Born in Yugoslavia, Eli first joined Inco at Port Colborne in 1927. When the Orford process was transferred to Copper Cliff in 1931 Eli was one of the men chosen by the late Dunc Finlayson to go along as a skimmer. From Copper Cliff he later moved on north to the gold mines, but 1943 found him back at Port Colborne and there he has since remained, a happy, carefree fellow who likes his work on the furnaces and his car excursions around the country.



Jet Pilot Relates Experiences at Banquet

FO George Miller of the RCAF station at Falconbridge, a jet pilot, was the interesting guest speaker at the annual father-and-son banquet of Copper Cliff Boy Scouts and Wolf Cubs. Four of the fathers and their sons are shown here: J. R. Felck and son John, George Adair and son Brian, T. H. Peters and son Michael, and Harry Ryder and son Gordon. Presiding at the banquet was Frank Fielding, chairman of the local Scouting group committee.



The N. S. Savannah ushers in the atomic age in marine transportation. Hundreds of thousands of pounds of nickel-containing materials have been used in this revolutionary vessel for corrosion resistance, high temperature applications, and appearance.

Nickel Stainless Steel and Nickel Alloys Vital Materials in Building First Nuclear Ship

On May 22, 1819, a 320-ton wooden ship started an epic voyage from Savannah, Ga., to Liverpool, England. The name of the vessel was the Savannah—the first ship to use steam on a transatlantic crossing. In the 140 years that followed no one problem has so taxed the imagination and ingenuity of marine designers and engineers as the creation of the first nuclear-powered commercial vessel, the N. S. Savannah, launched July 21, 1959.

As the original Savannah ushered in the steam age in marine transportation, so it was fitting that the new Savannah should usher in the atomic age. Thus, the world's first atomic merchant ship may well become the most important vessel ever built in the United States.

At the same time, the vessel marks a pivotal stage in marine design. Not only is it the first nuclear-powered commercial vessel, it also may mark a point of transition from the bronze age in sea-going ships to an era of stainless steel.

Perhaps no other commercial vessel contains more stainless steel than the Savannah. From the nuclear power plant buried deep within the ship's vitals, to the lustrous hardware adorning the entrance to each passenger cabin, stainless steel is everywhere in evidence.

Located amidships is the 145-ton pressure vessel housing of the nuclear reactor that powers the ship. It was built and installed by Babcock & Wilcox Company. Inside its shell are 32 fuel elements, each containing 164 fuel rods clad with Type 304 nickel stainless steel. These rods contain the fuel in the form of sintered uranium oxide pellets.

The pressure vessel containing the heart of the reactor, the core, is approximately 27 feet tall by 11 feet in outside diameter. Inside diameter is about 7½ feet. The entire interior surface of the vessel is clad with "18-8" nickel stainless steel, 0.109 inch thick. The reactor system is designed to confine high purity water at 650 F, at a pressure of 2,000 pounds per square inch.

The bottom head of the reactor vessel is forged from a 58,646-pound circular plate of carbon-silicon steel, 15 feet in diameter. Before forming, the plate surface which

became the inside of the forged head was clad with Type 308 extra low carbon stainless steel containing 11 per cent nickel. The reactor head is one of the largest and heaviest pressure vessel closures ever made in one operation by die-forming.

Besides its extensive use in the Savannah power system, wrought stainless steel is found in many time-tested applications in other parts of the ship. In the passenger areas, stainless steel lends its attractiveness and long life to promenade deck paneling, doors, window frames, cabin hardware and trim. Nickel stainless steel gives strength, lightness and ease of cleaning to the Savannah's galley, hospital, and laundry.

Babcock & Wilcox chose stainless steel castings for several vital parts of the primary system. Outstanding among these components are cast stainless steel volutes and impellers in the four primary coolant pumps. Both are cast from stainless steel alloy type CF-8 (Alloy Casting Institute designation for cast stainless steel containing 19 per cent chromium, 9 per cent nickel). The volute or casing weighs 3150 pounds. Two primary pumps mounted vertically on each of the steam generators (heat exchangers) pump coolant water through the reactor to absorb nuclear fission heat, and then to the tube side of the steam generators. Here, heat is transferred through tube walls to generate steam in the secondary circuit. Hooked in parallel, the four pumps return the flow of cooled primary water to the reactor to complete the circuit. Supplied by the Allis-Chalmers Manufacturing Co., the hermetically sealed pumps have a design rating of 5,000 gpm at 70 psi head and operate at 3,600 or 1,800 rpm.

In the reactor vessel itself, 32 CF-8 stainless steel castings form part of the transition assemblies, providing connections between the fuel elements and a grid plate. These castings must maintain a tight seal between inner and outer flow passages in the core. It is also essential that they keep to a minimum any corrosion products which would become radioactive and travel around the loop.

Stainless steel castings were selected for volutes, impellers and

other pressure-containing components in Savannah's pressurized water reactor for three important reasons: (1) the complex shapes of such parts are economically made as castings; (2) cast nickel stainless steels provide the combination of corrosion resistance, thermal stability and strength required for nuclear power generation; and (3) castings can be designed with fillets and radii to eliminate crevices which might entrap radioactive particles.

For the removal of the reactor fuel element, a specially designed rotary manipulator is made of nickel-containing ductile iron grade 60-45-10. Nearly 900 pounds of nickel were used as an alloying element to provide the strength levels and grain refining required of the seven castings making up this vital assembly. Ductile iron was preferred over other common ferrous materials for its superior strength and impact toughness; for its excellent castability to provide homogeneous structure; and, not the least, for its outstanding machinability to reduce capital outlay. A complete X-ray examination of the casting disclosed no metallurgical defects throughout sections as heavy as 14 inches, which occur for instance, in the outer rotating ring.

Travellers on the N. S. Savannah will also see the new look in sea-going swimming pools. The once familiar tile surface is gone. Monel nickel-copper alloy has taken its place.

The monel alloy, highly resistant to the corrosive action of sea water, is integrally bonded to steel plate which provides the necessary rigidity. This monel-clad steel, a standard product of the Lukens Steel Company of Coatesville, Pa., also is easy to keep clean and presents none of the costly repair problems that are so frequently associated with tile pools. Its soft, attractive finish has been further enhanced in the Savannah's pool by sand-blasting and polishing alternate strips over its entire surface. The pool measures 26 feet long, 12½ feet wide and 7 feet deep.

When the N. S. Savannah navigates in a heavy sea, she will remain on an even keel, her normal roll being reduced by 90 per cent. Steadying the Savannah will per-

mit it to maintain an estimated 20½-knot cruising speed through heavy seas. Stabilization will also reduce cargo breakage in the ship's 746,200-cubic-foot holds and minimize discomfort for its 60 passengers. Responsible for the steadying effect is the Sperry Piedmont Company's "Gyrofin Ship-Stabilizer" which constantly outwits the waves. It calculates the rate of roll and compensates for it by means of two underwater fins, projecting from either side of the hull. These fins tilt to produce a lift force which counteracts the action of the waves. Each fin has a hinged flap, resembling the aileron on an aircraft wing, which is operated by a ram. Each fin can exert up to 6,000-foot tons of lift and change the direction of its force every two seconds if necessary. Pins for these flaps will be 14 feet long, and 4 inches in diameter. Because of the tremendous strength required in the pin, and the constant exposure to sea water, Sperry engineers use pins made of "K" monel age-hardenable nickel-copper alloy.

The project to build the N. S. Savannah was undertaken in keeping with the policy of the President and the Congress to foster and develop the American Merchant Marine and to demonstrate to the world the intent of the United States to employ the power of the atom for peaceful, productive purposes.

From its inception, it has been acknowledged that the Savannah will not attain economically competitive operation; nor is she intended as a prototype. Rather, it has been planned to utilize this "first generation" nuclear-powered merchant vessel to develop practical construction and operating technology and to employ this information in evaluating and designing "second and third generation" nuclear-powered ships which can attain competitive performance in free enterprise.

QUICK QUIZ

1. Do women in Canada ever serve on murder trial juries?
2. In 1941 43.5 per cent of Canada's population resided in rural districts. What was the proportion at the time of the 1956 census?
3. Family allowances and old age security pensions are paid to all Canadians in the 1-15 years and 70+ years - and - over age groups. Combined, what percentage are these two groups of the total population?
4. In the past 10 years how many Canadians have emigrated to the United States?
5. Why was Regina, Sask., originally known by the name Pile of Bones?

ANSWERS: 3. They constitute 38.3 per cent of the total population. 1. By unwritten rule women never serve on murder trial juries; in no province is jury duty compulsory for women. 5. Because there was a great pile of buffalo bones on the city's site, where Cree Indians for years had slaughtered buffalo to obtain meat. 2. In 1956 the rural population was 33.4 per cent of the total. 4. In 10 years emigration from Canada to the U.S. has totalled 345,000.



"Gardenias, anyone?"

Gardenias, anyone? That's the question Mrs. Bill Moses of Kennedy street in New Sudbury pops to her friends. A strong liking for this beautiful white flower induced her to buy a gardenia bush from a local florist about three years ago. The bush was then 15 years old and today, after much repotting and loving care, it has at least tripled its size, produces hundreds of bloom and has just about taken over the living room.

"It takes me nearly an hour every

day looking after it," Mrs. Moses said, "picking off old bloom and leaves, watering and spraying the leaves. I love the bush though, and so does Bill." Husband Bill works at the Frood Open Pit.

Mrs. Moses makes baby and bridal bouquets for her friends from the blooms which appear continuously on the bush. Every six or eight months it breaks out in almost solid mass of bloom, the above picture being taken just after the peak of one of these shows which last for about one week.

Joe Bomba

Joe Bomba has retired from the smelter at Copper Cliff on disability pension. With his heart giving out warnings he took the hint and agreed to slow down.

He had worked at Copper Cliff since 1935, first in the Orford building and later moving over to the separation department where he was a conveyorman.



Joe was born in Poland in 1901 and worked on a farm there until coming to Canada in 1930. Before joining Inco he worked around the Fort William area at bush camps, farming and laboring.

Before coming to Canada he married Kasda Zuba. That was in 1927 and his wife and their two sons have remained in the Old Country. Joe says he may take a trip back now that he has plenty of time, providing his heart settles down a bit.

In the meantime he is taking things easy, walking a good deal, and reminiscing with old pals from the plant about how things used to be done, and in general enjoying his pension.

MEOW!

At the afternoon bridge: "Yes, she plays a fair game — if you watch her."

Copper Cliff Entry Wins Two Titles



Winners of the annual Inco inter-plant bowling championship, held at the Inco Club in Sudbury, were the Copper Cliff entry of Karl Krakovsky, Chuck Cinotti, Roger Sabourin, Chuck Bronson and Norm Ceppetelli. They stormed right back the next night to take the inter-club title as well. Norm Ceppetelli came within a whisker of realizing the bowler's dream, throwing nine consecutive strikes only to pick the headpin in the 10th. In the previous game he wound up with six strikes, giving him a total of 15 in a row. The double champs are shown above. In the pictures on the right are the individual stars of the two



playoffs: Harry Narasnek, the Creighton veteran, had a 5-game total of 1335 for an average of 267 in the inter-plant, and Al Kyllonen of Frood rolled the best 5-game score in the inter-club, 1239 for an average of 248.

DOUBLE PURPOSE

Every person should make a habit of eating a good substantial breakfast, as it will not only give

him strength to cope with the problems of the day, but it will serve as an incentive for him to get up.

Were These Prizes for Good Curling or Good Looks?



They might just as well have been handing out prizes for good looks as for good curling, there was such a comely parade of winners when Leveck ladies wound up the besom an' stane season with their annual banquet. In the first picture above Marie Young (second from left) presents the Endleman trophy to skip Pearl Moir; on the left is Yvette Piskoski and on the right Barbara Lennie and Joan Dean. The second picture shows Helen Brown on the left, Bertha Palumbo presenting the Shelds trophy to skip Joan Rodd, and Jean Beaudry on the right; the other member of this team was Edna LaPlante.



Bertha Piccolo (centre) is seen presenting the Matilda trophy in the first of these two pictures; the winners, Bea Purvis, Bertha Palumbo, Joan Toppi, and Dora Jessop (skip). And in the second picture Lou Dolci (centre) presents the Dolci trophy to Bea Purvis, Alice Lejambe (skip), Betty Kauppinen, and Gertie Enright.

Mary O'Connell of Ladies' League Rolled Inco Club's Highest Single, 418



Sudbury's Legion Memorial Hall was the setting for the annual banquet and prize-giving of the Inco Club ladies' bowling league, which rang up another enjoyable season of keen competition and good fun. Some of the champions are shown above: 1. Winners of the C. H. Stewart trophy: seated are Helen Smith and Ruth Martin; standing, Winnie Thomson, Ingrid Dobson, Mary O'Connell; (not shown) Betty Croteau. 2. Florence Robinson holds the S. J. Sheehan trophy, and the other members of the team are Jean Mosienko, Clare Pothlers, May Funnell, and (not shown) Chris Gowan and Adelaide Campbell. 3. These were the individual scoring champs: seated is Lucy Demkiw, high single in league play, 390; standing are Jean Boal, high triple, 803; Mary O'Connell, highest single at the Inco Club during the season, including men, 418; Mayme Gorday, high average, 207.

Winners of the league's top award, the Inco rose bowl, are shown in the picture on the right with their trophy: Hattie McCrea, Rosemary Coagie, Carol Earl, Mary Price, Edith Earl, Bea Hanmer, and Marie Thomson. Presentation of the rose bowl was made by Vern Tupling. Others who took part in the presentations were Mrs. J. Perkovitch, S. J. Sheehan, and N. A. Creel.

Steve Bover

"I love fishing, especially trout or pickerel," enthused Steve Bover, a recent early retirement pensioner. "On opening day of the trout season I got so wet



I was sick in bed for a week."

Working with Jock Rennie's gang of fitters at Copper Cliff, Steve was the man who made all the wire and rope slings for heavy lifting. He learned to

splice while on light work many years back, by watching his predecessor manipulate the tough wire ropes.

Born in 1900 in Hungary, Steve decided in 1927 that Canada was the place for him. He came to Niagara Falls and worked for several years in the parks there. Later he tried tobacco farming, then in 1935 headed north on the advice of a friend. Starting with the carpenters at Copper Cliff he joined the fitters the following year.

Steve's wife, Mary Saravosi, whom he married in 1919, died in 1958. His son Steve is a farmer, another son Joe works in Windsor, and his daughter Mary is Mrs. M. Krizan of Sudbury. He has 10 grandchildren.

Steve lives with a friend and long-time Incoite George Svarckopf on Eyre Street, Sudbury, and enjoys working in his large garden. "I need to work," Steve said, "or



I find the days long." He is also helping a friend build his camp, and come fall hopes to do a lot of hunting.

Bob Grigor

Every year for more than a quarter of a century Bob Grigor has written his signature in beauty across the rugged face of the Nickel Belt.

Long since its imprint has been transferred to the minds and hearts of the people, so that autumn's chill or winter's snow cannot erase it.

Green-thumbed genius of Inco's agricultural department, Bob has transplanted hundreds of thousands of seedlings since he started with the Company in 1932. Each spring his lovely beds of flowers have wrought their transformation in the park at Copper Cliff, around the employees' clubs in the Inco communities, and beside the buildings at the mines and power plants.

Now he retires on service pension, leaving his work to be carried on by well-trained younger hands.

Born in Scotland he worked on the farm until he was 18, found that he had an uncommon knack for making things grow. He went to Aberdeen to join the city police, and soon became a district

sergeant, but it was at his hobby of raising flowers and vegetables that his fame spread, and for three years the young policeman was the champion gardener of all Scotland.

A brother Scot, chief constable Dave Loudon of Sudbury, enticed Bob to Canada in 1929, where he became a detective on the Sudbury force. Then he learned that Inco needed a landscape gardener, and his overwhelming qualifications easily won him the job. His first assignment was to beautify the grounds at Frood mine. Soon every one was talking of his handiwork.



Over the years he has been a strong factor in developing horticultural interest in the Nickel Belt. Many an amateur gardener, discouraged by growing conditions, has taken fresh heart from Bob's example and persevered to bring a bit of beauty to his yard. Countless times the old master was approached for a word of advice, freely and gladly given.

The deftness of his touch with an incredibly delicate seedling, his sure way with young trees and shrubs, the instinct with which he coaxed a cutting from the stalk of a rubber plant, these and a hundred other stories of his skill are legend among Sudbury district garden lovers.

His favorite flower? Sweet Peas. In Scotland when he was 19 Bob married Jannet Gillon Allan, whose death occurred in 1957. Following in his father's earlier steps their son Allan is now chief investigator with the federal government at Sudbury.

To keep busy, and close to the work he loves, Bob will operate a private landscaping service in Sudbury.

He who has no inclination to learn more will be very apt to think that he knows enough.

—Powell