



ORENDA

NEWS

ORENDA LIMITED

MALTON, ONTARIO.

VOL. 5, No. 2 MARCH - APRIL 1972

END of an ERA . . . Sopwith Building Vacated



THIS CORNERSTONE WAS LAID BY
SIR T.O.M. SOPWITH C.B.E., HON. F.R.Ae.S.
CHAIRMAN OF THE BOARD
HAWKER SIDDELEY GROUP LIMITED
OCTOBER 1954

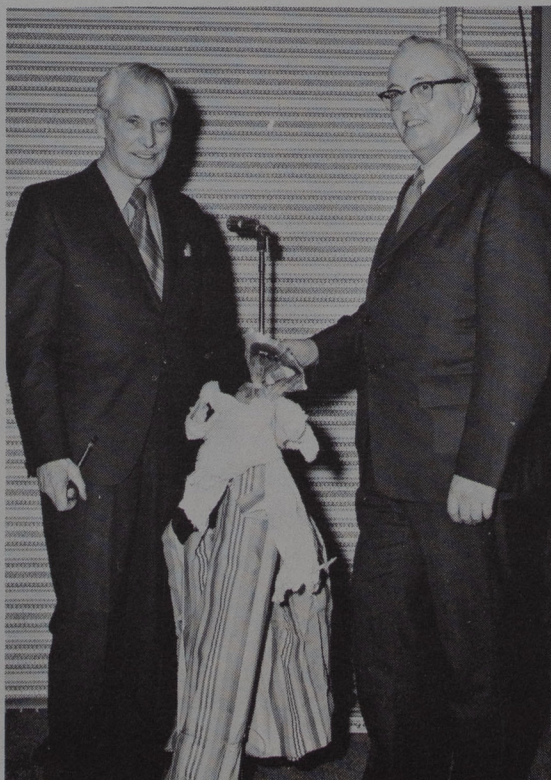
At the end of March, after seventeen and one half years, the Sopwith Building ceased to be 'home' to Orenda's laboratory services. All staff and facilities have now been re-located: see story page 2.

PRESENTATIONS MARK RETIREMENTS

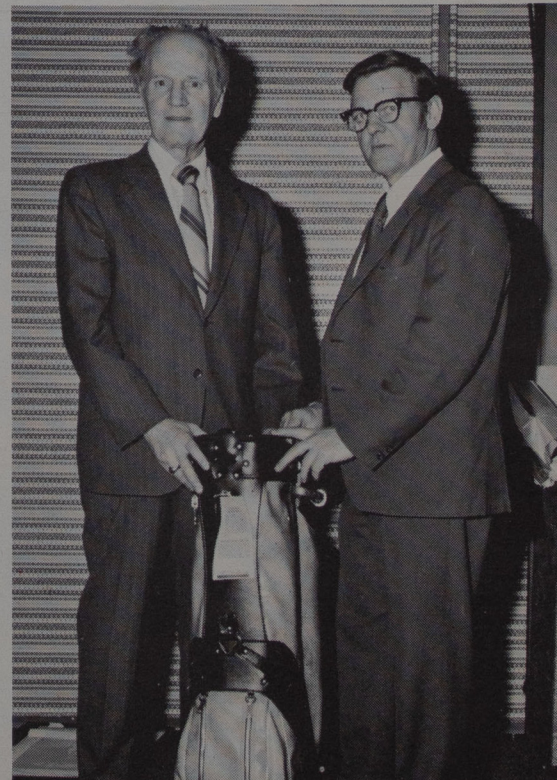
. . . . good golfing Earl and Cy



Past and present members of Orenda's Production Engineering departments, including ex-Company President Earle K. Brownridge, gathered at the Cara Inn April 7 to honour further the retiring Earl Busby. Our picture shows the two Earl(e)s flanked by Jim DeSylva (left) and Cy Little.



The evening of March 29 saw some 130 friends of Earl Busby and Cy Marsden gather at the Cambridge Motor Hotel to give them a fitting retirement send-off. Fine oral tributes were paid and presentations made by Director of Operations Roy Tanner to Earl and by Manufacturing Manager Jim Halliwell to Cy. Our retiring members responded in good measure. It was an evening that brought back many memories, mainly humorous, of events at Malton over the past thirty years. See 'Retirements' page 6.



FAREWELL TO THE SOPWITH BUILDING

March, 1972, was, for some Orenda people, the end of an era. The Sopwith Building had been sold and, as part of the Company's general consolidation program, personnel and equipment were being transferred to new quarters in the main plant. There was a note of sadness to it all, and many a backward glance as the old quarters were vacated. Many of the lab staff had spent their entire service with the Company in 'happy isolation' in that building, half a mile away from our main facilities. Your correspondent, taking a farewell look around the empty and silent laboratories, was assailed by memories of a host of projects, large and small, that had taken shape within those walls. Perhaps the strongest impression that remained was of the comradeship and esprit de corps that had developed there in a way that is not often possible in the noise and bustle of a larger plant.

The Sopwith Building had its official start in October, 1954, when the foundation stone was laid by Sir T.O.M. Sopwith, Chairman of the Board of the Hawker-Siddeley Group. It was designed to provide support services for the development of the Orenda series of engines, particularly in the fields of metallurgy, chemistry, aerodynamics and fuel systems. In addition, specialized test facilities were included for the newly designed Iroquois engine.

Following the cancellation of the Arrow and Iroquois programs in 1959, Orenda's in-house requirements for laboratory services dropped drastically. In order to retain the Sopwith Laboratory's capability, work had to be found to utilize the excess skills and equipment.

It was decided to pursue actively the sale of laboratory services to outside agencies and to the general commercial market. A marked increase in the Company's efforts in the nuclear engineering field resulted in numerous assignments being received from Atomic Energy of Canada. These included metallurgical research on Zircaloy components and the development and manufacture of complete instrumentation and control systems. This work is still continuing. Other important fields of activity included environmental testing of equipment and components in simulated conditions of altitude, temperature and humidity, and the manufacture of instrumentation - particularly thermocouples and pitot-static probes - for our own and other companies.

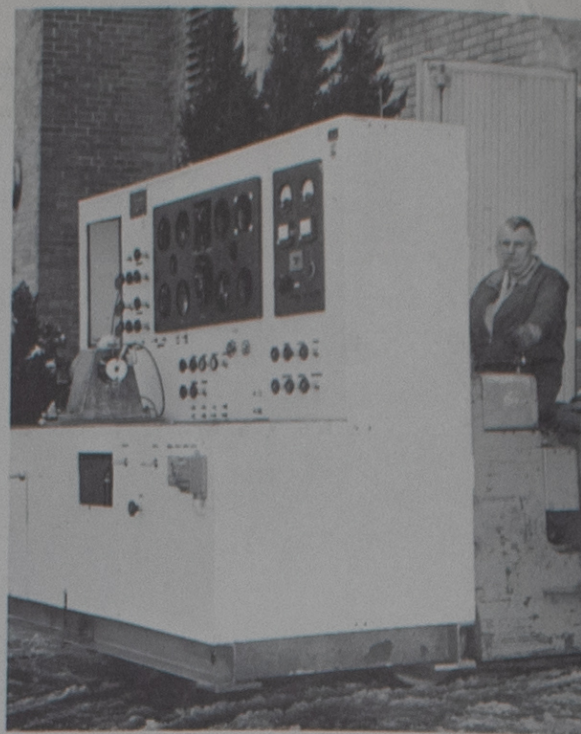
During the '60's many 'far out' projects were undertaken without much fanfare or publicity. These included the severe weather testing of external trim panels for the new City Hall in Toronto and of the passenger concourse windows for the International Airport at Malton. Among others were the investigation of problems associated with underground gas pipelines, the strain gauging of tension cables in pre-stressed concrete highway bridges, the investigation of wheel spalling on railway cars and a survey aimed at possible noise reduction in Canadian naval vessels.

Variety was, in fact, the order of the day. It has continued to be so and is now accepted as the prevailing rather than the exceptional work mode. This has called for considerable versatility and adaptability on the part of the staff who can look back with considerable satisfaction and pride at their many accomplishments.

Physical relocation of laboratories' equipment is now virtually complete and the staff are settling into new quarters in the Production Test Cells and Heat Treat areas. However, it will take a little while to finish all installation work, to check out all the rigs, and generally to get things really ship-shape again. Welcome back to the fold, fellows, it's been a long time!

Thanks to Roy Thomson for the story idea and to Gene Carlton and other staff members for their general assistance.

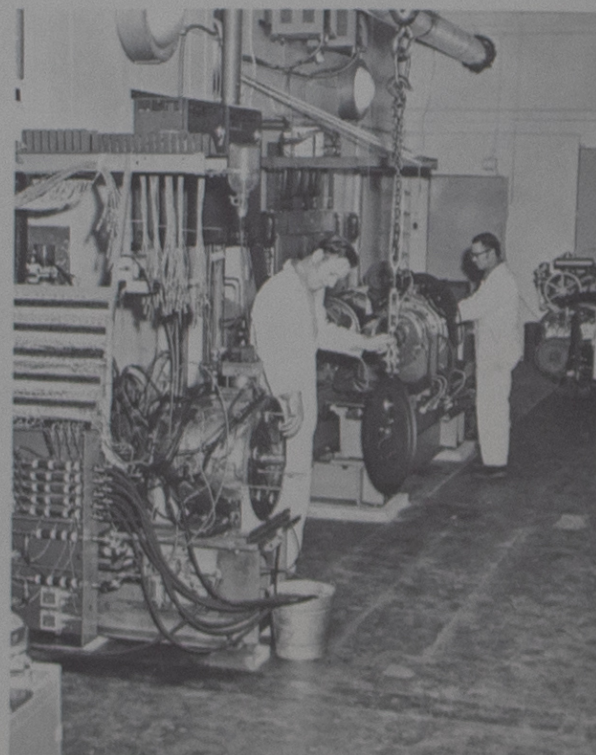
Dave Roberts



Fuel test rig console on the move.



Instrument laboratory - new location.



Mechanical laboratory - bearing and seal test rigs - new location.

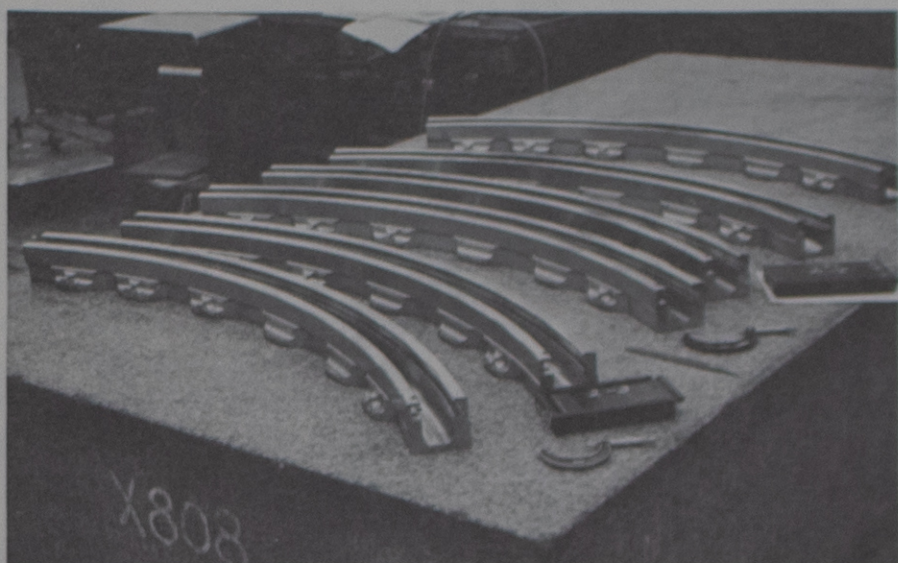
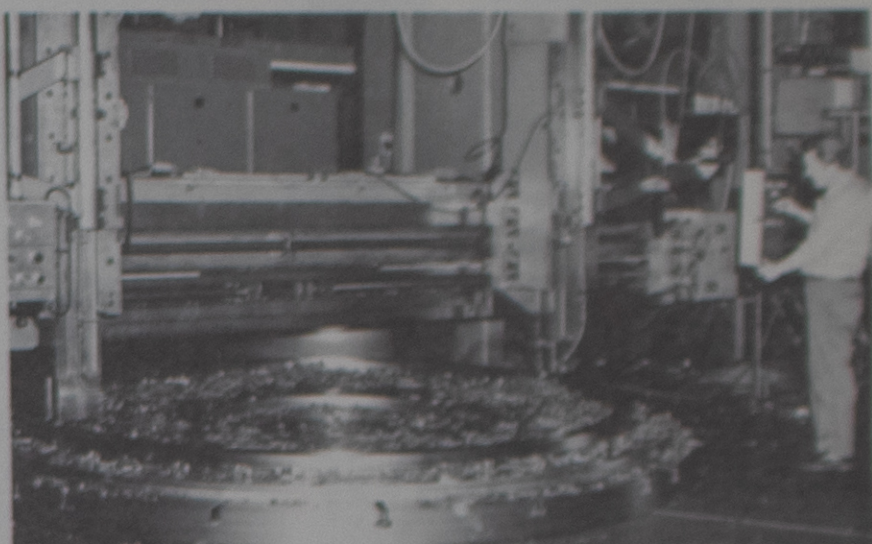
FLAP TRACKS FOR THE DC-10

Although our operations are primarily devoted to the gas turbine industry, we occasionally produce parts in unrelated fields. A recent program of interest has been the machining of components identified as 'Flap Tracks'. Few people who have seen these massive channel segments, approximately five feet long, in work in the shop, have appreciated their function. The final destination of the Flap Tracks, in left-hand and right-hand versions, is in the wings of the DC-10 tri-jet airliner, now being manufactured by our Malton neighbours, Douglas Aircraft of Canada Ltd. To the best of our knowledge this is the first aircraft component produced in the Orenda plant and we are proud to contribute a vital structural part to, what is without doubt, the largest aircraft wing ever made in Canada.

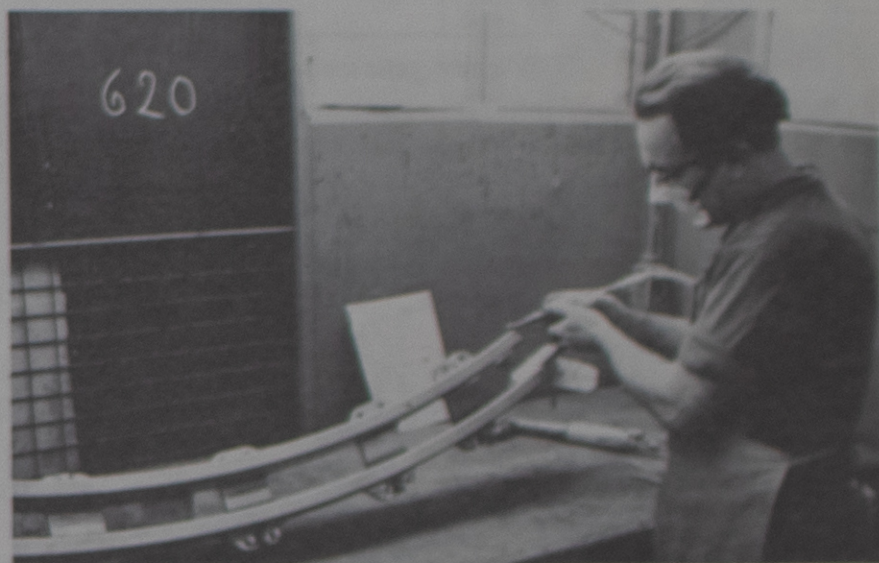


A shipment of titanium forgings (produced by ALCOA) on arrival in Receiving Inspection. In their unfinished state the forgings weigh approximately 140 pounds.

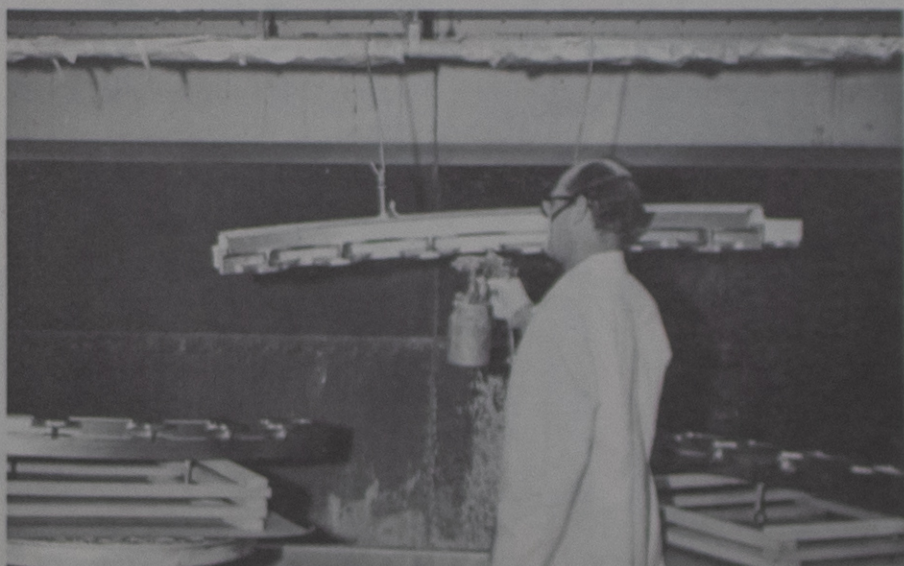
George Heyes machining the tracks on a Craven-Swift vertical boring mill. Six tracks at a time are laid out on the 12-foot diameter turntable of the mill to speed the machining operation.



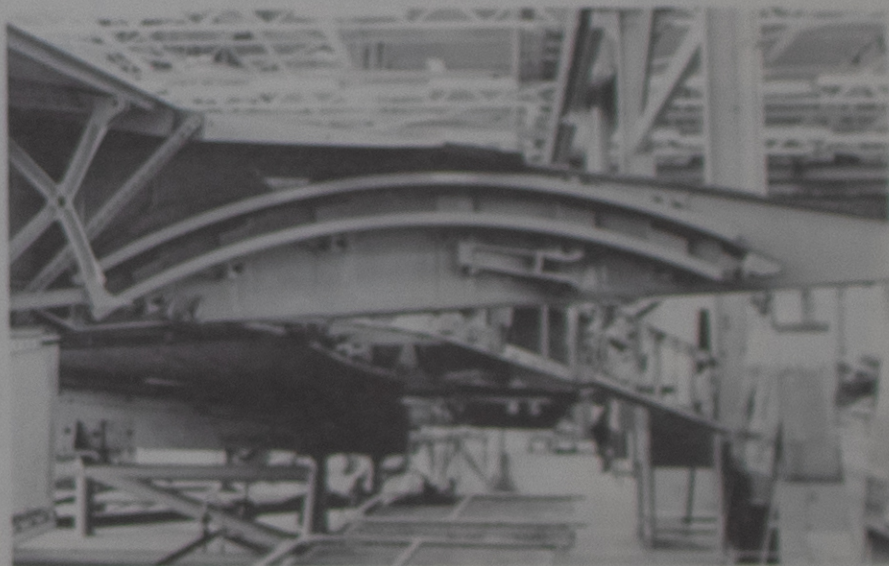
Six of the tracks are laid out for inspection.



Tom Gaughan hand-finishes a track to remove small burrs and sharp corners.



Doug Vickers is spray-painting the track with two coats of primer and a final coat of grey epoxy paint.



A track installed in a DC-10 wing before assembly of the flaps. (Photo courtesy of Douglas Aircraft of Canada)

HOW WE ADVERTISE OUR INDUSTRIAL GAS TURBINES

by Walter Bellian - Industrial Sales & Service Manager

A sampling of Orenda advertisements.

Where you are
we are

Orenda Gas Turbines - where you need them - when you need them.


Orenda Mobile Gas Turbines can take you where you need them. Orenda Mobile Gas Turbines are available in 100% packaged form. Package you can drive right to your site.

Orenda Gas Turbine Packages have an impressive record of service from New Zealand to the Canadian Arctic.

Orenda Mobile Gas Turbines can take you where you need them. Orenda Mobile Gas Turbines are available in 100% packaged form. Package you can drive right to your site.

Orenda Gas Turbine Packages have an impressive record of service from New Zealand to the Canadian Arctic.

ORENDA LIMITED
100% Canadian
We're right with you.



Where you are
we are

Orenda is a Canadian Gas Turbine manufacturer, serving the international gas and oil industry.

Orenda starts with design and manufacture, adds service and performance, and is available.

Orenda Gas Turbines have a continuous worldwide operating record - an accumulation of nearly 20 million hours of operation.

Orenda Gas Turbines, mobile, 100% packaged, are available in 100% packaged form. Package you can drive right to your site.

Orenda Gas Turbine Packages have an impressive record of service from New Zealand to the Canadian Arctic.

ORENDA LIMITED
100% Canadian
We're right with you.



Where you are
we are

Canada is more than Steam, Mobile, Liquid and Marine. Canada is also one of the world's leading manufacturers of Gas Turbines.

The company is Orenda, Orenda Gas Turbine Engineers and Manufacturers of Canada. Orenda Gas Turbines are available in 100% packaged form. Package you can drive right to your site.

Orenda Gas Turbine Packages have an impressive record of service from New Zealand to the Canadian Arctic.

ORENDA LIMITED
100% Canadian
We're right with you.



In the plant - in the office - Orenda people have asked "Do we advertise?" Yes we do! Orenda customers and prospective customers are in the petroleum and gas industry, power generating fields and general industry. Orenda is not selling consumer goods to the general public, so, rather than use the popular advertising mediums such as newspapers and television, we must use specialized forms of advertising directed at specific markets.

Orenda employs the services of Erik Trinier Advertising of Canada Ltd., a Canadian agency in Don Mills, Ontario, with international affiliations to develop effective advertising campaigns.

Some of our advertising literature and photos of displays are reproduced with this article. Look closely and you will recognize the faces of some Orenda people in the advertisements. This was done to show some of the Orenda people who stand behind Orenda products.

To reach the Power Generating market we advertise in such periodicals as the Electrical News and Engineering; Modern Power and Power Public.

To attract the attention of the Petroleum and Gas Transmission Market, Orenda ads appear in Canadian Petroleum; the Financial Post (Oil and Gas Report); Gas Processing/Canada; Oil Week; Pipe Line News and World Petroleum.

For the General Industry Market, Orenda advertises in the Diesel and Gas Turbine Progress; Diesel

and Gas Turbine Catalogue; Sawyer's Gas Turbine Catalogue and Gas Turbine International.

We have a direct mailing program constantly informing consulting engineers and senior management people in oil and gas companies and electrical utilities throughout the world of Orenda technical advances and achievements. Copies of the Orenda News are distributed to Orenda customers and subcontractors to keep them informed about Orenda people and products. We have received many compliments on our 'News'.

We send representatives, displays and brochures, etc., to many trade shows. We were represented at the International Petroleum Exposition held in Tulsa, Oklahoma, last summer and at a special show in the United Kingdom last December - courtesy of the Ontario government. We will be attending the American Society of Mechanical Engineers Gas Turbine Show to be held in San Francisco this March and the National Petroleum Show in Calgary in May. We will also be participating, as part of the Hawker Siddeley Canada Limited team, in the Canadian government-sponsored show in Peking, China, during August and September of this year.

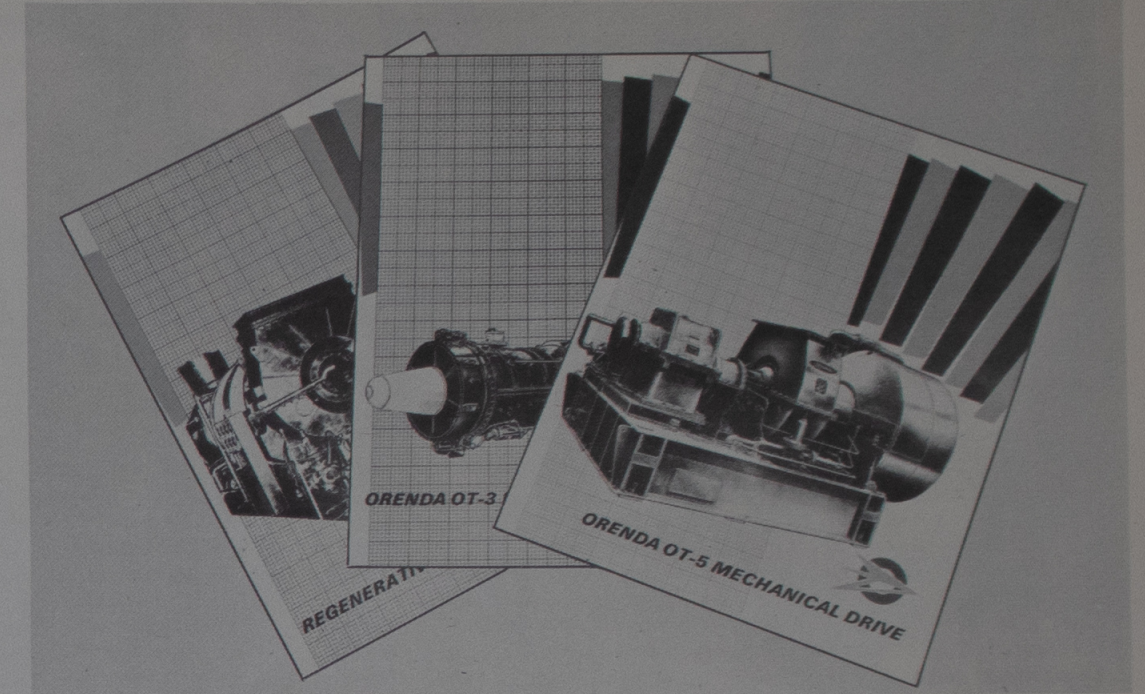
The Orenda Sales and Marketing staff are constantly preparing presentations and quotations and keeping in touch with developments in the market.

We have sales agents in thirteen countries and are negotiating with potential agents in a number of

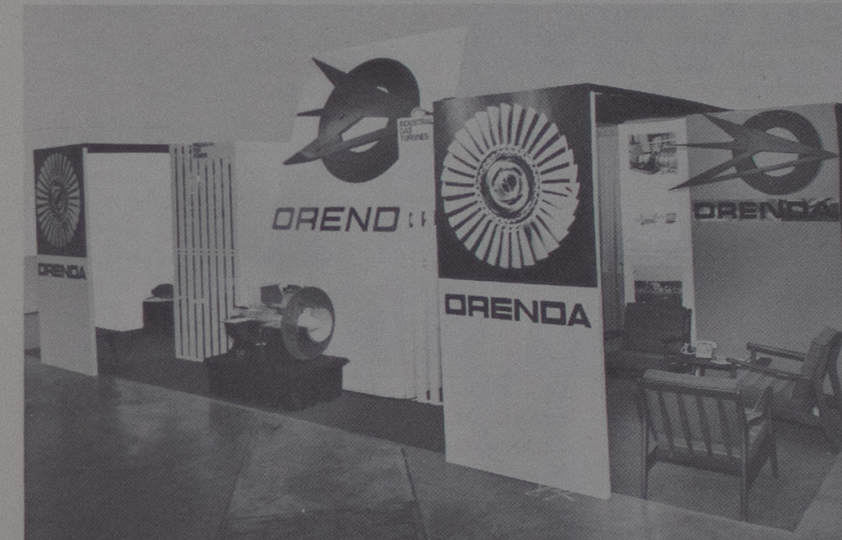
other countries. A recent sale of three OT-3 turbines to the Dubai Petroleum Company on the Arabian Gulf, when added to earlier sales to such distant places as the United Kingdom, Venezuela, India and New Zealand, emphasizes the increasing international flavour of our business.

We encourage potential customers to talk to users of Orenda turbines. A satisfied customer is the best advertisement a company can have. We invite customers to visit Orenda to meet our people and see our facilities.

Summing up - our advertising is selling ORENDABILITY - the capability of Orenda people to design, manufacture and service high quality products that are competitive in the world marketplace.



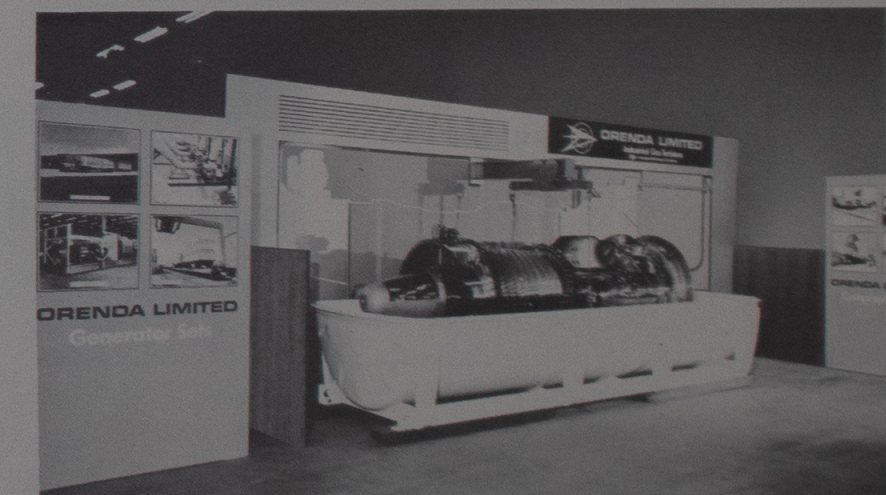
(Below) Here are some examples of displays we have used at recent exhibitions. Designed by Orenda Graphics in conjunction with Marketing Services staff, our exhibits attract much favourable comment.



Designed to emphasize the role Orenda products play in Canada's export trade, and how they are helping to open up some of the underdeveloped areas of the world, this display was originally used as a 'Customer-on-display' exhibit by the Mercantile Bank in Toronto in 1969. In modified form it was used in later exhibitions.

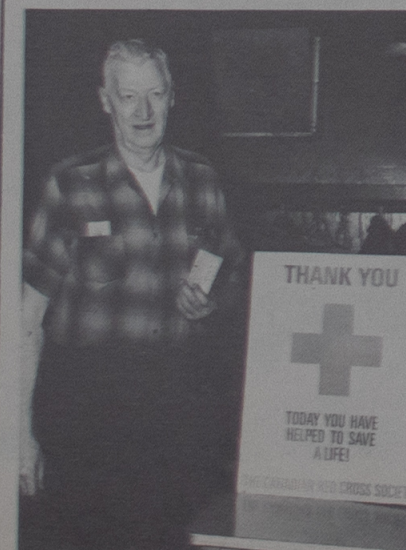


An exhibit with a distinctly Canadian flavour: featured at the ASME International Gas Turbine and Products Show at Houston - Spring 1971.



This display features a sectioned OT-3 gas generator in its shipping container against a backdrop of an Orenda packaged generating set. Used at the Gas Turbine and Products Show at San Francisco in March this year it will be seen also at the National Petroleum Show in Calgary during May.

⊕ BLOOD DONOR CLINIC MARCH 24 ⊕



Over 120 employees attended the Canadian Red Cross Blood Donor Clinic held at Orenda on March 24. Fred Johnson (pictured at left) of the Machine Shop - who, we think, holds the Orenda 'record' for donations - made his 75th on this occasion. Good going indeed Fred!



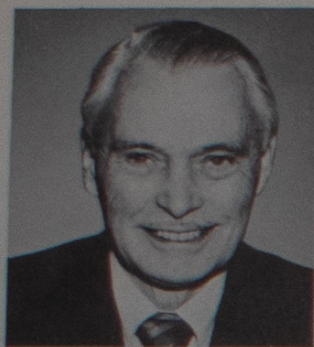
PERSONNEL CHANGES

1 April 1972 - A. Henderson becomes Superintendent, Manufacturing Engineering reporting to J. Halliwell.

1 April 1972 - J. Michin becomes Superintendent, Machine Shop reporting to J. Halliwell.

15 April 1972 - G.C. Larner becomes Personnel & Industrial Relations Manager reporting to J. Turner.

Retirements



EARL BUSBY

Earl Busby started work with National Steel Car in 1942 about the same time as the Canadian-built Lancaster program came into being. This, however, was not his first experience in the aircraft industry since prior to NSC he spent two years at Fleet Aircraft in Fort Erie familiarizing himself with the idiosyncrasies of aero work relative to tool design.

NSC gave way to Victory Aircraft in January 1943 and 1944 saw Earl take his first step up the promotional ladder when he became a Group Leader. This was followed a year later with his appointment as Chief Tool Designer. And Earl wryly recalls that one of his first acts in the new position was to notify many of his men of layoff action when VJ-Day arrived.

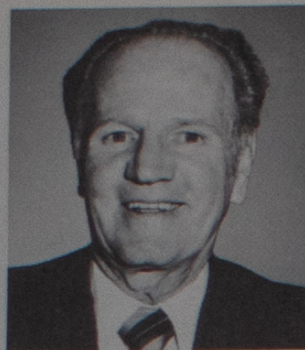
Following the end of the war there was a lull in activity which, fortunately, did not last too long. By the end of 1945 A.V. Roe Canada had arrived followed a few months later by the Turbo Research Team from Leaside. At this point Earl had to make a decision — aircraft or engines. He chose the latter. This started his long association with gas turbines beginning with the 'Chinook' and passing to the 'Orenda' development and production; thence to the 'Iroquois', the J79-OEL-7, the J85 CAN-40 and CAN-15, the Industrial OT Series and on to the present day's sub-contract programs.

As Manufacturing Engineering Manager, Earl has provided a guiding hand and strong influence in many matters pertaining to Production Engineering. His knowledge of sheet metal, machine shop and foundry practice have contributed a great deal to many of our production techniques. His talents will certainly be missed.

As to retirement, Earl has no definite plans other than for a good holiday during which he hopes to catch up on his neglected golf game. Later he may find his yearning for creative work will lead him back, on a part-time basis, to some form of engineering.

Meantime, we at Orenda would like Earl's wife Edna and family to know how proud and happy we are to have been associated with Earl. We extend sincere wishes for many pleasant, well earned retirement years.

Jim De Sylva



CY MARSDEN

Cy Marsden, whose help and advice on various matters many of us have sought during the past years, retires at the end of April.

Cy was raised and educated in B.C. having arrived in that province with his family from England at the tender age of four. He spent his early working years in the Vancouver area then came east to Toronto in 1949. He joined A.V. Roe Canada the following year and worked in various classifications until 1954 when he was granted leave of absence to conduct Union business.

When the Gas Turbine Division of A.V. Roe Canada officially became Orenda in January 1955, Cy was performing job evaluation duties in the Personnel Department and, in those days, was a familiar figure in the Engineering Office area of the old Plant I. Cy held various other positions in Personnel & Industrial Relations before being appointed manager of the department in 1971.

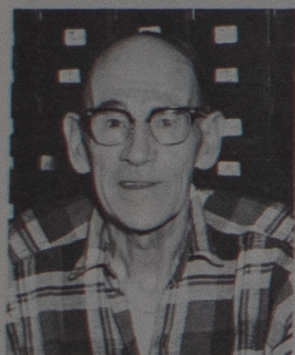
In addition to his regular Company duties Cy has always managed to find time for many other activities. He was Treasurer for the Orenda Employees' Recreation Club for a number of years and has a long-time active association with Jet Power Credit Union to whose Scholarship Committee he was appointed last year.

Cy's main summertime activity recently has been golf. But both summer and winter 'spare time' for some while has been taken up with steady planning for retirement. Cy and his wife Bea both believe in careful preparation for this phase of life. They have acquired a retirement home in Fort Lauderdale, Florida, where they have fishing off the back-yard, a swimming pool and a golf course within easy walking distance and a variety of other leisure-time activities close at hand.

Cy says that he hopes to see a familiar face or two from Malton at Lauderdale from time to time maybe we should start getting in line now, while winter is still a recent memory.

Anyhow Cy, when you head south early in May, take along our best wishes for a long and happy retirement and a sincere 'thank-you' for the many services you have performed so well for us here at Orenda.

Hank Artt



W.G. Puncheon,
Tool Crib
Attendant 'A'

Bill has been with us since Avro Aircraft days, 1949. He transferred to Orenda in 1959. He says he is not yet ready for full retirement and hopes to find himself a part-time job. Meantime, he has planned a trip to Florida and a ship cruise to the islands and hopes to be back in time for spring planting. Bill wishes to thank the boys in the Plant for their kindness during the time he was off work because of illness; their thoughtful actions and good wishes were greatly appreciated.

Stay Safe on Ladders

With the coming of better weather (we hope!) here are a few timely tips from the Industrial Accident Prevention Association.

Before using any ladder, check it carefully for cracked or damaged



Melville Shaw,
Tool Crib

Mel has been with us since 1949. He retired at the end of February. He does not have any immediate plans for his retirement; he says, though, that he is hoping something will show up to keep him occupied. We hope so too Mel. - and wish you well.

rungs or sides. Never use a metal ladder near exposed electrical apparatus. When you prop a ladder up against a wall, remember there's a four-to-one rule on how it should be done. Set the bottom of the ladder one foot out from the wall for every four feet of height to its top resting point. For example, a ladder twenty feet high should be set about five feet from the wall. You can judge the height by counting rungs, which are usually about one foot apart. Set the top of an extension ladder against a flat, firm surface. Check the strength of any eave you intend to set a ladder against. If you're going to step from a ladder onto a roof, the ladder should extend at least three feet above the eaves.

Always face the ladder when going up or down, and go one rung at a time, holding the side rails. If you place a ladder in front of a door, be sure the door is locked or blocked so that it cannot be opened striking the ladder.

The ladder must have good footing. Don't place it on muddy or wet surfaces unless it is especially equipped with safety feet and/or blocked with a bag of sand.

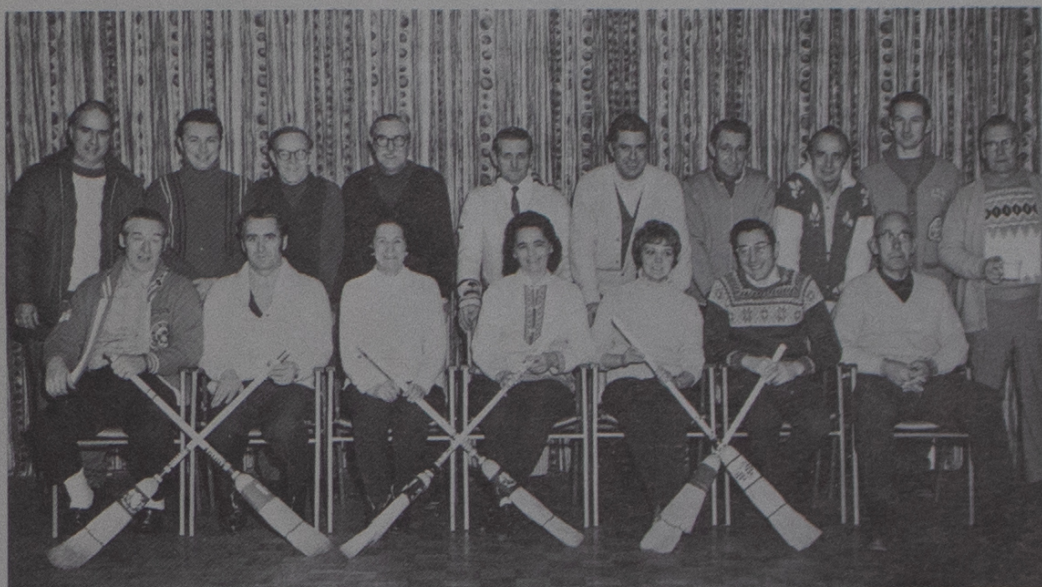
Ladders, like all tools around the home, must be used with care.

To Each His Own



Arthur Murray may not agree, but — as our montage shows — there are many ways of getting around the floor.

The occasion the OERC Dance, March 11, at the '27' Restaurant.



Ted Davidson Victorious in Avery Curling

WINNERS OF THE AVERY TROPHY:
Ted Davidson (skip), Chris Kilgour (lead),
Tom Menzies (vice) and Gord Libby (second).



Under the auspices of the Orenda Employees' Recreation Club, eight enthusiastic rinks battled at Humber Highland Curling Club during three Sunday afternoons in March for the Burton A. Avery trophy. As usual, this annual event produced some keen and exciting curling. A rink skipped by Ted Davidson came through a closely contested final game to emerge as winners of the Avery award while John Kennedy's rink had runner-up spot and the Labatt trophy.

Burt Avery was not able to attend on the final day and, in his absence, the trophies and prizes were presented by Gord Larner of Employee Services. Participants all agreed that this was a well organized bonspiel. A vote of thanks goes to curling convener Dave Hart and his assistants Ted Carr and Dan Richmond.

Norm Glover



RUNNERS-UP — WINNERS OF LABATT TROPHY:
John Kennedy (skip), Mary Price (second),
Alex Thomson (vice) and Fraser Wilson (lead).





STAMP CORNER

\$1 and \$2 DEFINITIVES

On March 17 two definitive stamps were issued, the \$1 stamp depicting the Vancouver skyline replaces the one which has been in use since 1967, the \$2 stamp has been produced in response to a need in postal operations.

Both stamps, which have a continuous printing, are the same size, 48 mm. x 30 mm., and were designed by Reinhard Derrith of Vancouver.

Ed Hands

RECREATION CLUB NEWS

Executive 1972

Joint Vice-Presidents have been appointed: they are - Edith Chambers and Frank Lavin.

Dance

A most successful evening at the '27' Restaurant on March 11. We had good dancing to Ron Davidson's Band (picture page 7) a superb buffet and around 140 very happy people. There were not many office staff members in evidence though. Perhaps we shall see more of you at the MACHINISTS' HALL, APRIL 28, when we shall be dancing to Chris Mellon's music. Tickets are \$6.00 per couple: bar and buffet.

Social Evening

Planned for some time in May. We have in mind a 'share-the-cost' party: ladies provide box lunch, gentlemen share cost of band and hall. Watch the bulletin boards for this one.

It is with regret that we report the recent death of one of our former associates Albert Veale. Albert was for many years supervisor in the Order Issue Section of the Engineering Department. He retired from the Company in 1965.

We extend our sympathy to members of the family.

Industrial Tours

Approximately 70 members toured the Ontario Hydro's Nuclear Power Station at Pickering during the evening of March 20. This was a most enjoyable and informative tour and appeared to be thoroughly enjoyed by all. Details of forthcoming trips will be posted as soon as arrangements have been made.

Travel

Plans are almost finalized for our trip to Frankenmuth Bavarian festival week-end June 9-11. Go via Charterways bus, stay two nights Ramada Inn, Saginaw, Michigan: cost from \$42.50 (3 in room) to \$57.50 (single). Call Edith Chambers, Local 267.

Fishing Derby

This popular children's event is planned for Saturday June 3 at Glen Haffy. Why not make this a family outing?

Picnic

Date this year June 17: the place Poplar Park, Caledon East. Plans are already in hand. Your Committee is working to make this another successful day. Mark it in your diary!

ORENDA NEWS COMMITTEE

CHAIRMAN ... D.J. CAPLE
EDITOR E.F. CROUCHER
MEMBERS B. ADAMS (MRS.); H.O. ARTT;
J. DESYLVA; N.E. GLOVER;
D. RICHMOND; W.D. ROBERTS.

WE HEAR THAT!

Sydney L. Britton whose positions at Orenda included those of Chief Engineer and Director of Operations and who is now with the Ontario Department of Trade and Development, has been elected Chairman of the Board of Governors of Humber College of Applied Arts and Technology.

Clare F. Wall long-time member of the Engineering Administration Department who left the Company in 1963 to join the staff of the Ontario Command Service Bureau of the Royal Canadian Legion in Toronto has now been appointed Service Officer with the Dominion Command of that organization.

Geof Palk one-time Patents Co-ordinator for the Company and Orenda News Committee Member is still with the Polymer Corporation in Sarnia from which location he sent along several recent issues of that Company's interesting house organ 'Poly-sphere'.

CLASSIFIED ADS

FOR RENT

Rooms - 36 Sledman Street - Call 677-2675 - Evenings.

FOR SALE

20 Ft. Fibreglass Day Cruiser with 80 H.P. Volvo Penta I/O - 16 Gal. Bow Gas Tank and 10 Gal. Aux. Tank - Camper Top and Side Curtains. Also Wiscott Tandem Axle Trailer. All Equipment Well Maintained. Asking \$3000.00. Phone: 742-3858.

Western Saddle and English Jumping Saddle - Both Never Used. Also 4 Saddle Horses - Quiet to Ride - Reasonable. Phone: 694-0755 after 5 p.m. (Ask for Garry.)

Gibson Refrigerator - Automatic Defrost - 2-Door White - Upper Half Deep Freeze - 4 Yrs. Old - \$150.00. Also Tappan Gurney Electric Stove - White, Full Size, 4-Burner - Window in Oven - Clock and Timer - 4 Yrs. Old - \$100.00. Phone: 749-7661 (W. Hanna)

WANTED

Back copies of Avro News or Orenda News from the 1950's or any similar historical material. Phone: 247-3333 (Dave Roberts)

STREETSVILLE



LIONS CLUB

presents

Minstrel Memories 1972

STREETSVILLE HIGH SCHOOL AUDITORIUM

THURSDAY, FRIDAY, SATURDAY
MAY 4, 5, 6, 1972
8.15 p.m. sharp

ADMISSION
\$1.00