the "Avro Arrow" at Malton autogyro, belongs to a Spanish The tricycle undercarriage some time ago, 16 aeronautical engineer, Senor Juan de la Cle-sists of two main solid steel legs' engineers bent on staying in vra, who started experimental and an oleopneumatic, fully Canada convinced themselves of work in the year 1920. Three steerable nose wheel. the potential of a vertical take- years later, his endeavor was re-

off and landing plane. . The engineers staked their ca- nor A: G. Spencer, on January 9, reers on the 2/180 concept and 1923, flew the world's first suc- borne are possible - the constarted a new venture called "Av- cessful autogyro. ian Industries".

the official flight. .. First formed in February, rotation produces lift. 1959, for the purpose of designing and subsequently producing a VTOL gyroplane for personal sighted Georgetown business rotor. The rotor disk is inclined men. A private Dominion Char- back, relative to the aircraft dater was granted and the complum, presenting a positive angle any began operations with a of attack to the oncoming air.

was informed of the project and produces lift. was most generous in providing. The helicopter rotor disk lies during the spin up. assistance and giving advice.

Prototype Bullt been designed and built. Taxi being driven by the engine. The and the throttle trimmed to suit tests continued throughout the fact that the rotor is driven flight conditions. . winter and in the light of the by the engine gives the helicopter experience gained, improvements the ability to hover. were made to components on the basic design. The program confirst prototype.

Immediately and this is the air- esome dampers. craft that is now performing in It has been found, that the the current program. A third blades never go out of track, evprototype plane is now being de- en under the most arduous opersigned and is approximately 50 ating conditions. To summarize,

Test Flights

Following the disastrous test aircraft from their inception. when the first prototype crashed. injuring the pilot, officials have feature of the Avian 2/180 design been careful to make certain is the cleanness of aerodynamic take-off controls are locked to form, due in part to the rear prevent the plane leaving the mounted engine configuration. ground.

When the official test, under the supervision of Robert Gillies, an experienced helicopter serves a variety of purposes pilot. is made, the take-off reduces cabin noise, reduces pascontrols will be released in order to allow the plane to soar ing flight, and improved forward into the air.

Market Price

price of a helicopter (approxi- placed neards the fuselage datmately \$45,000-\$50,000), the new um, thus improving the flying craft will be more in reason for stability and-reducing the overall r the average person as officials height of the gyroplane. foresee a market price of \$15,000. according to production required its static efficiency, producing

ders have been placed with the for forward flight, replacing the company but none will be accept- normal function of a tail unit. ed until the final okay has been The rudder is mounted in the given-approving the gyroplane. rear section of the duct, taking Palm Sunday included 17 by Pro-

officials, they have taken an opt- flow. A Lyconging O-360A. 180 tession of Patth, David Beerman, ion on an additional piece of land h.p. engine is installed, attached Geraldine Calder, Ruth J. Coles, and by the end of this year ex- by a four point dynafocal cradle. Sandra J. Davidson, Roger Ladpect their staff will be increased mounted to the airframe. to at least 40 workers.

of a helicopter. -First Flight

ments in the science of rotary

Mrs. H. R. Force Hostess to W.M.S.

The United Church Women's Missionary Society met at the home of Mrs. H. R. Force Tuesday afternoon, March 14. The president, Mrs. Force, opened the meeting with the singing of 'a hymn and reading psalm 147 in

unison as a prayer. After the reports were dealt with, the Easter Thank offering was planned.

Mrs. Lidkea and her group took the worship service and study This part of the service opened with a hymn, Break, Thou the Bread of Life, Mrs. J. Moore and Mrs. C. Poole read the scripture taken from St. Matthew. Mrs. Carlaw led in prayer.

History of Gospels The Study was based on the history of the four gospels with Mrs. Lidken as the commentator. Mrs. Poole as Matthew, Mrs. Moore as St. Mark, Mrs. McGeachie as Luke and Mrs. Carlaw as John, each telling when the book was written and to whom it was especially written. The miracle of the loaves and tishes is the only one of the miracles included by all four Gospel writers. This

was a most informative study. . . The meeting was closed by singing O Word of God Incarnate and prayer. Mrs A. Shoemaker thanked the hostess. While tea was being served there was a tal ent table set up with various articles for sale. Their lively business went on until all way soldbaking, marmalade, plants and

All enjoyed a social half hour before wending their way home.

During tests Monday, the gyro- translated, means self rotation, procedure is as follows. With plane taxled above the runway. The syllable "gyro" does not im- brakes on, the throttle is one the Cross, Mr. McGown said God Officials are quite pleased, with ply gyroscopic phenomenon, but third opened. At this point, the the performance and hope to gyration, which means to move clutch can be engaged by de of fellowship with Himself but time, next week. It is believed "Self rotation" when applied to its lowest point of travel, giving enmity with God. The purpose of Army and Department of Trans- causes the blades to rotate, is thruttle opening is increased, whereby the repemant soul is report may be on hand to witness called autorotation. Thus, air giving a predetermined rotor stored to God's love and grace. passing through the rotor disk in r.p.m.

Hellcopter Different An autogyro and helicopter The Department of Transport through the windmilling disk

in plane with the aircraft datum,

Major Stride

Avian engineers reasoned that tinued into the spring and was if a blade could be made with a progressing satisfactorily until a high degree of stiffness, combintaxing accident damaged the ed with a strap system to permit flapping and torsional movements Certain components were re- of the blade, a major stride usable, but the airframe was would have been accomplished beyond repair, thus entailing a towards a dynamically safe rotrevision of the program. Work or, This system eliminates drag on the second prototype began hinges and the associated troubl-

per cent complete in detail form, it was felt and has now been proved that with the system as During the test flights at Kit- outlined, the problem of ground chener-Waterloo airport. Harold resonance has been, completely Koehler, an experienced pilot eliminated in the Avian 2/180. and staff member, handles the Ground resonance is a problem that has plagued rotary winged Perhaps the most noticeable

coupled with a ducted propeller. Special Layout This carefully conceived layout senger hazard in case of fire durvisibility for the pilot. The use of a small diameter ducted pro-Compared with the present peller permitted the rotor to be

Ducting a propeller increases New Members high thrust, and also provides the Already quite a number of or- aircraft with a stabilizing unit So confident are the company advantage of the increased air

Alt of the cabin bulkhead is a Manes, Mary McEachern, Ken-One of the features of the new section accommodating the fuel neth McIsaac, Margaret R. Morplane is the fact that it can be cells, containing on the proto- rison, Barbara L. Norton, Linda operated by a conventional pilot type, 26 imperial gallons (32 U.S. S. Parker, Cheryl G. Price, Gail and operating and maintenance gallons), giving a range of 480 Roszell, Brian Sheridan, Murray costs are much lower than that air miles. The tanks mounted ab- G. Smith, Jr. and Susan Walters, ove the engine thrust line give a and by certificate from other gravity feed to the carburetor, churches, Mrs. David Manes, Credit or early accomplish. The area under the fuel tanks is from Ballinatad United Church, tree space for utilization as a Robert R. Parker, Jr. from St. storage area or for extra fuel Andrew's Presbyterian Church,

> A spacious cabin is provided and generous entry and exit is given by a side-hinged plexiglass Church stands at 550.

R.R. 3, Milton

Following the cancellation of wing flight, as applied to the canopy and wide opening door.

Flight Procedure -

Two methods of becoming air ventional run or a direct jump The word "autogyro", literally takeoff. In the latter case, the

two-fold effect - the drive meare different. The autogyro, com- chanism to the rotor is compand business purposes, the men paratively well developed before letely disengaged from the engine were backed by a group of far- the war, utilizes a free wheeling and a positive angle of incidence is applied to the rotor blades. In other words, the pitch is changed as in a variable pitch propel ler. This action causes the rotor \$100,000 authorized share capital. The passage of this air passing blades to "bite" the air, thus lifting the aircraft vertically, using the kinetic energy stored

HALTON MANOR

Feast of Beautiful Music Presented by Church Choir

sermon topic. The Purpose of the Cross. Remarking that Lent was the season leading up to Easter, when all eyes are fastened upon created man as a being capable purpose of the Cross.

ent of the choir, Mrs. G. Kidney ing, and Miss Sandra Sproute was among those who came. The and Bill Brush sang I Heard those and is deflected in various modes tained, the rotor pitch lever is Harrison directed the choir in all were sung by Tom Darcy whose Within a year, a prototype had by the cyclic mechanism while lowered to a cruise lock position its musical numbers and played solo was It is No Secret, Tom

THE PERSON OF TH

AVIAN INDUSTRIES, exclusive manufacturers of a "Gyroplane", carried out checks this week at

type plane pictured above was seen Tuesday as it was transported through Acton en route to

the airport. Officials of the company have received several orders already but have declined

for

Easter

them until final approval has been given.

For Knox Church

· New members received at

Knox Presbyterian Church, on

· The membership of Knox

the Kitchener-Waterloo Airport prior to the final test for Department of Transport. The proto-

I · ACTULOMASS THE COMME

A sermon very appropriate to all the accompaniments. The the season of Lent was delivered choir wore their very attractive by Rev. J. K. L. McGown when wine colored choir gowns. Gra-The conflucted the church service ham, Farnell, the capable chair in the Chapel on Sunday after- man for the evening, extended noun, March 12. Mr. McGown greetings to the residents from read as the Scripture lesson ver the choir and then announced ses 9-22 of the first chapter of each selection on the program in Colossians and then chose as his very appropriate and interesting

whether vocal or instrumental; had its own special appeal for the audience and each selection was sung or played in fauntless fashion. The choir opened the prehave the final checkout some in a spiral, to rotate or revolve. Pressing the rotor pitch lever to that through sin nam became at gram with two anthems, Great and Marvellous, and Hast Thou sus Way. that representatives from the aerodynamic phenomenon, which zero incidence to the blades. The the Cross is Reconciliation, Not Known, and closed the program with two others, O Savior of the World, and The King of The Cross is the bridge between Love My Shepherd Is. At inter- Trouten whose solo wsa Be Thou The rotor pitch lever is now God, Who is sinless and sinful vals in the program the choir Night, and Mrs. Francis Thomppulled upward. This action has a creation, and this is the great sang four familiar hymns also, son whose solo was In The Garamong them Guide Me, O Thou den. A veritable feast of beautiful Great Jehovah, and Pass Me Not, music, both sacred and secular, O Gentle Savior. A male choir of was enjoyed by the residents of nine members sang two selecthe Manor on Thursday night, tions, A Little While, and Brigh-March 16, when about 30 ladies ten the Corner. Several vocal and gentlemen, who are members duets were sung. Mr. and Mrs. Melody of Love and Minuet. Robof the Senior Choir of St. John's Michael Peleschak sang The Love United Church in Georgetown, of Christ, Mrs. Howard Wrigglespresented a program. The presid-1 worth and Val Stein song Drift-

Explorers Plan Parents' Night

The Acton Baptist Explorers opened their meeting with the purpose and singing of This i My Father's World. Mrs. Dunk memory verse (John 1, 29).

Secretary Linda Raiston read the minutes of the last meeting and gave the roll call.

-Paul Dunk collected the offer ing. Mrs. Dunk read a story about. The Twin's Vacation. Each number on the program. Then they worked for their stars and played some games.

They made plans to hold an open night and to invite their parents and friends. They closed with the Explorer prayer and 'sang Children Who Walk in Je-

In addition to the very fine numbers just mentioned, instru- ily of Toronto visited his parents mental music also delighted the on Sunday. audience. Mr. Harrison and Peter Forgrave played two piano duets, ert Wrigglesworth played a trumpet solo, Nearer My God to Thee. A social hour at the close of the program was greatly enjoyed. since it gave the audience : When sufficient height is at gifted leader, of the choir, Ken Voice of Jesus Say. Vocal solos chance to renew old friendships and to establish new friendship with these talented ladies and gentlemen from Georgetown. Tea and cookies were served to all present. The residents are indepted to Bernard Shrubsole of the maintenance staff at the Manor for arranging this wonderful ev ening and hope he will bring the choir back to the Manor as soon

as possible. There was a touch of Old Ireland in the dining rooms of the Manor on St. Patrick's Day, for when the residents assembled there for dinner on that day, they found pretty St. Patrick's Day favors at their places. The favors were made of little white paper cups tilled with mints; with each cup resting on a green paper shamrock. These festive and suitable little favors had been sent by the November Group of St. Christopher's Anglican Church in Burlington.

NOTICE CHANGE OF **ADDRESS**

36 CORK STREET EAST (Near Bell Telephone Office)

OPTOMETRIST TA 2-7150

H. S. HOLDEN

The Acton Free Press, Thursday, March 30th, 196 LIMEHOUSE

Wedding, Visits Catering in News Mrs. Lawson, Mrs. Osborne, Mr.

The W.I. ladies catered at the

annual turkey dinner for the Georgetown district Milk Producers in Limehouse Memorial Hall on Thursday evening: Mr. and Mrs. Jack Wood of Campbellville on Saturday even-

ing, and Miss Rulh Hummend of Thornbury and Mr. Lewis Boyd of Meaford on Sunday were visitors with Mr. and Mrs. Beft Ben-Mrs., McQuillan of Willowdale and Mr. and Mrs. Roy McQuillan

visitors with the Mitchell's. Mr. and Mrs. Bill Mills and fam-

and son, Thornhill, and Mrs. San-

ford of Stewarttown were Sunday

Rummage Sells Well Y's Menettes Gain

There was a lineup Friday afternoon waiting for the opening of the Y's Menettes rummage led in prayer. All repeated the and Mrs. Jack Lawson and Carol sale in the Y.M.C.A., and almost were guests at the Ross-Wright everything was sold within an wedding in Port Credit United hour and a half. The club, with Church and the reception fol- only eight members, has held. lowing in the Dixie Plaza on several very successful rummage

> Mrs. Stuart Smith and grandson, Jimmie Hutchinson of West ton were with the Patrerson's on

Pollock and Campbell

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