Saint John, N. B., March 13, 1936

THE MARITIME BROADCASTER

IT IS CALLED THE NEW AUTO-AIRPLANE AND DIFFERS VERY

RADICALLY FROM OTHER MACHINES

NINETEEN

Dyed Mosquitos To Aid Scientists New Autogyro Fits Into Garage In Their Control

Pests To Be Sprayed Green, Red. Yellow in Test of Range.

mosquitoes will be indelibly roadable autogiro, the new auto-"dyed" red, green, yellow, blue aeroplane. and brown in the Chicago area may study their flight range and announced here at the twenty-third annual convention of the Kitty Hawk, N.C. Abatement District.

and five miles wide, lying west of Chicago and including part of Cook County, Ill.

Mr. Clarke explained that men with portable sprayers would plod through the marshes where mosquito beds were abundant. The scientists expects clouds of the insects will be stirred up by the men at the rate of ten to 30 mosquitoes from each square foot of victim later in the season.

severe winter, except in the house tirely. variety, culex pipens.

tomologist of the New Jersey Ex- flight tested for more than a year. periment Station at Rutgers Uni- It has a side-by-side seating arquito pest was curbed.

made in the Maritime

By ERIC GEORGE Central Press Canadian Correspondent Washington.-When you see a

huge "June Bug" lazying down the highways, don't blame it to Atlantic City. - Fifty million your imagination. It's the new

This amazing aeroplane is benext summer so entomologists ing hailed as the flivver of aviation which has been sought ever plan the elimination and control since the Wright brothers of Dayof the pest accordingly. This was ton first soared into the air at

This machine does away ention Association by J. Lyell tirely with wings. The rotor Clarke, sanitary engineer for the blades can be folded and the craft Des Plaines Valley Mosquito is driven along the highway with drive mechanism which is The district is ten miles long switched from the propeller to one wheel of the undercarriage. Because of the folding rotor blades, this autogiro can be housed in a garage of ordinary size. So little space is needed for the takeoff and the landing that no airport, as we know it now, is necessary, its designers assert.

Direct Control

This strikingly unorthodox flygrass. The men will spray aniline ing machine is also a "direct condyes into the swarms, a different trol" autogiro. In all previous color being used in each locality, types control was obtained by the so the insects can be readily methods used in conventional identified when caught biting a aeroplanes, by rapidly moving air acting upon movable control sur-Mr. Clarke predicted there faces. In this type there are no would be no shortage of mos- ailerons or elevators and the fixed quitoes this season, despite the wings have been eliminated en-

The new autogiro, which is go- off within a distance of 50 feet, Dr. Thomas J. Headlee, en- ing into production, has been

versity, was another speaker. He rangement in cabin style. The warned promotional advertising gross weight is 1,350 pounds, would be largely wasted on the overall length is 24 feet, overall 18.000.000 persons who live within height 8 feet and the overall 150 miles of the Jersey shore and mountain resorts unless the mos-is 7 feet. The maximum speed on land is 20 to 25 miles an hour and Thomas D. Mulhern of the same the maximum air speed is 115 station also warned that visitors would be driven away from At-lantic County unless greater ap-propriations could be obtained for mosquito control work. mosquito control work. miles an hour. The engine is a geared seven-cylinder radial, de-veloping 90 horsepower at 3,500 minute. The diameter of the rotor blades is might be zero. While the ordin-might be zero. While the ordin-of cranford, New Jersey, is the possessor of a challenge trophy of repulsion between electric station also warned that visitors miles an hour. The engine is a effectiveness of control diminish-

NEGLECT MEANS SHORT LIFE





Among the unique features of this autogyro are its rotor blades which can be folded so that the craft can be driven along a highway.

its designers claim.

Slow Flight Difficulties

The full advantage of slow flight, an outstanding characteristic of the autogiro, could not be realized so long as control was dependent upon forward speed. In machines employing conventional aeroplane controls-ailer- Allen Everett, Cranford, N. J., ons, elevators and rudders-the



Receives Award at Big

Help yourself by buying goods The autogiro lands with no for- factory for a machine which can- which makes him the envy of charges, but when the velocity of ward roll in still air. It will take not fly slowly, they are obviously most of the sportsmen of the the proton beam reached 750,000

Experts Measure An Atomic Force Of The Universe

Hydrogen Nuclei Tested By Scientists in Washington.

Washington.-Scientists of the Carnegie Institution have succeeded in measuring one of the atomic forces that hold the universe together, they announced recently. They have measured what is scientifically known as the "proton-proton interaction," or the forces between the nuclei of two hydrogen atoms when they are separted by less than twoten-thousand billionths of an

The experiments were carried out in the Department of Terrestrial Magnetism of the institution here by Drs. M. A. Tuve, N. F. Seydenburg and L. R. Hafstad, and were announced by Dr. J. A. Fleming, director of the departhent.

The scientists observed the deflections of high-speed hydrogen particles after collision with hydrogen nuclei in a gas-filled chamber. They were able, they say, to measure the attracting forces which hold together the nuclei of atoms heavier than hydrogen. Without this force, scientists assert, the entire universe might consist of nothing but, hydrogen.

"The successful measurements," Dr. Fleming reported, "were made by passing a beam of hydrogennuclei, called protons, from the million-volt Carnegie vacuumtube through a series of slits into a chamber filled with pure hydrogen at a pressure one sixty-fifth as great as atmospheric pressure. Protons of the beam which come sufficiently close to a hydrogen nucleus in the gas are deflected from the original beam through angles up to 45 degrees. and these intimate collisions are recorded by a special radioamplifier which measures the deflection to an accuracy of two de-

volts a marked increase occurred

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inadequate for one which can de- Metropolitan District. scend vertically and fly at ex- The trophy is one awarded an- in the number of particles de-

tremely slow forward speed. the lift of the rotor, not from sur- tral Palace. speed and is fully effective while 20 pounds, length 39 inches and an inch." the machine is hovering in the air girth 20 inches. Raymond Cur- More than five years was spent or coming to a land.

Other Advantages Claimed

While adequate control is the fundamental and important purpose of this new development, there are other resulting advant- the angler be a non-resident, that ages claimed.

for lateral stability. Also, their affidavit attesting to the size of try industry in Western Ontario as a result of the tariff reducpilot's visibility and added much An angler winning three times, tions made effective under the to the appearance of the machine. not necessarily in succession, will recent Canada-United States Cost of production is materially be accorded permanent possession Trade Treaty. During January, reduced by elimination of movable of the trophy. The award to Mr. 1936, shipments of live poultry to

wings. It is a definite advantage, hands. Former holders were Cap- according to unofficial figures, to moreover, that the new craft is tain Charles Campbell, New York 11,233 head. In January, 1985, noticeably smooth riding, even in City; and Charles D. L. Harrison, shipments totalled only 566 head. comparatively rough air, because of Green's Farms, Conn.

the entire lift of the machine is rotor.

SERVICE

Absence of fixed wings simpli- for traffic policemen in Moscow, eight cents per pound. fies the housing of the machine. There special coats will have a Folding rotor blades permit the thin wire mesh between layers of of fowl. Prices on live fowl at nachine to be stored in a shelter asbestos; this wire will catch the Montreal and Toronto at the presittle larger than an automobile beat waves from a special radio ent time are approximately five station. garage.

universal joint, and is connected ing with a member of the associa- the ordinary forces. to a normal control stick, oper- tion. Presentation was made re- "This excess in the observed ated by the pilot in the usual cently at the New Brunswick ex-manner. The controlling force, hibit apearing at the National the fact that the higher-energy therefore, is derived directly from Sportsmen's show in Grand Cen- protons approach closer to the

The prize fish was taken on the provides an accurate measure of

when the fish was caught.

wick waters last season but was this experiment. the largest entered in the contest. Regulations demand that he be accompanied by a licensed

tail surfaces, ailerons and fixed Everett marks the third occasion nearby United States points,

nually by the New Brunswick flected through angles exceeding Control of the autogiro is ob- Guides Association to the non- 30 degrees, and at 980,000 volts tained entirely by tilting the resident catching the largest At- the number observed at 45 degrees rotor. The rotor is attached to lantic silver salmon on New was seven and one-half times as the top of a pylon by means of a Brunswick open waters while fish- many as would be expected from

stationary protons of the gas.

faces which depend upon the machine Southwest Miramichi River on the provides an accurate measure of the machine through the air. Control is en-tirely independent of forward 20 pounds leverth 20 inches was of one ten-thousand-billionth of

> rie of Fredericton was guiding by the Carnegie investigators in developing their high-voltage The specimen was by no means technique to the degree of prethe largest caught on New Bruns- cision and control necessary for

POULTRY SHIPMENTS

The trade in live poultry from The fixed wings of earlier auto- and registered guide who is a Canada to the United States has giros are no longer necessary as member of the New Brunswick again become a factor of cona support of ailerons, for lift, or Guides Association, and that an siderable importance to the poul-

on which the trophy has changed chiefly Buffalo, N.Y., amounted, By the terms of the treaty the United States duty on live poulborne by the hinged blades of the Heat transmitted by wireless try was fixed at four cents per will soon be making life pleasant pound. It previously had been

Shipments are made up largely cents higher than last year.