

Atomic Energy Seen As Boon To Aircraft

Engineer Predicts Non-Stop Flight Around the World

Atomic energy as a source of power for aircraft promises to achieve a result of unobtainable with standard fuels, Andrew Kalitinsky, chief engineer of Fairchild Engine & Airplane Corp. NEPA project, said here last night.

Addressing the Indiana Section of the Society of Automotive Engineers at the Antlers Hotel, Mr. Kalitinsky, attached to the Fairchild project at Oak Ridge, Tenn., said application of nuclear power may eventually make possible a supersonic bomber capable of flying around the world without a stop.

"We have not manufactured an atomic power plant for aircraft," Mr. Kalitinsky asserted, "but we can say now that the practical development of atomic energy as a source of power calls for active co-operation of both scientists and engineers if successful application of this power is to be made."

Cites Limitations

The engineer pointed out definite limitations on the possible performance of chemically fueled aircraft, since the required gross weight of the plane increases with both range and speed.

"The development of atomic power for aircraft is not a simple undertaking," Mr. Kalitinsky said, "but there are several basic types of power plants that can be adapted to utilize this power for propulsion of aircraft."

High temperatures present one of the problems lying in the path of practical atomic aircraft power plants, the speaker said. Unlike chemically fueled engines, high thermal efficiency is not the primary reason for wanting high temperatures in a nuclear engine, it was explained. Specific fuel consumption is of vital importance in a chemically fueled engine. However, for a fuel with a heating value of 40 billion BTU per pound (like uranium), specific fuel consumption if vanishingly small from a performance standpoint.

Weight Is Problem

Another problem is weight, the engineer said. He explained that in an atomic engine it is necessary to use large amounts of mass to stop radiation emitted during the fission process.

"Atomic aircraft will have to be designed to operate at very high speeds to take full advantage of the special characteristics of atomic power. It will have to be designed for an extremely high landing weight since practically no fuel will be consumed during flight. It certainly will have to be a large airplane. The crew will have to be placed as far as possible from the nuclear reactor to protect them from harmful radiations."

He concluded by saying the "problems are by no means easy and nobody should expect to see an atomic-powered rocket taking off for the moon this year or next."

AVC to Sponsor Veterans' Meeting

Housing Legislation Up for Discussion

Housing legislation, effective rent control and repeal of the Taft-Hartley Act will be among the more important issues to be discussed at a meeting of World War II veterans under the sponsorship of the American Veterans Committee here tomorrow.

Principal speaker at the 7:30 p. m. meeting at the Amalgamated Clothing Workers' Hall, 168 W. 9th St., will be Gilbert A. Harrison, national chairman of the AVC and founder of the organization.

The AVC designated itself as a pro-labor and pro-American organization with seven major objectives. These, in addition to housing for veterans and repeal of the Taft-Hartley Act, include a 75 cents an hour minimum wage for workers, right to strike in privately-owned industry, extension of Social Security benefits and rent controls.

R. G. Fritzmeier, recently transferred to District 30 from Pittsburgh, Pa., by Philip Murray, CIO president, will be in charge of the meeting tomorrow night. Refreshments and a social get-together are planned to follow tomorrow night's business session.

Gun Club to Honor New President

The Indiana Gun Club Midwestern Championship to be held tomorrow and Sunday on the club grounds, E. 38th St. and Post Rd., will pay honor to Herschel L. Cheek, Clinton, Ind., newly elected president of the American Trapshooting Association.

Saturday's shooting, starting at 12 noon, will feature singles and doubles competition. Entries in the Calcutta Auction at 10 a. m. Sunday will be sold starting at 8 p. m. Saturday.

Feature of the Calcutta Handicap will be the awarding of the club's midwestern championship perpetual trophy to the top marksman. American Trapshooting Association rules will govern the competition. Members are requested to bring their handicap cards.

Church Class Plans Fish Fry Tomorrow

The Lamplighters Class of Center Methodist Church will hold a fish fry at 5 p. m. tomorrow at the intersection of Bluff Rd. and Stop 7.

An added attraction will be a Variety Show given at 6 and again at 7 p. m. by the church Booster Class. Proceeds of both will go to the church fund.

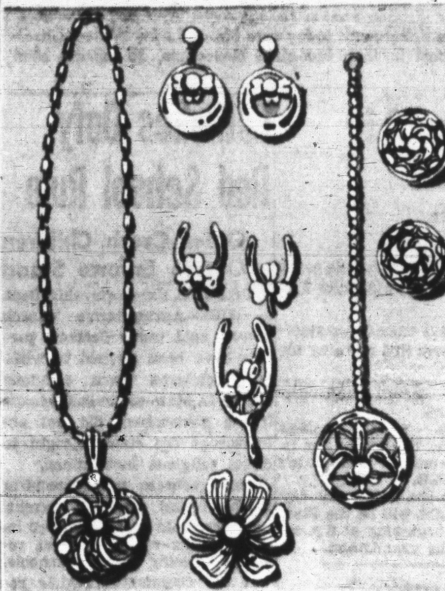


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Ruck, Davis, P
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Glenn, Martin
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Chason, William
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