

## STILL AIR BEST FOR CHECKING GLIDING ANGLE

Correspondent Cites Zaic's Yearbook That Average Is About 7 to 1.

A well-known local model-building champ, who asks that his name be withheld, writes this department commenting on several columns published recently.

He has won several outstanding trophies and established many records, so his comments are held in high respect. One of the columns he referred to concerned the advantages of retractable landing-gear on model planes.

In discussing the merits of retractable gear, we pointed to the performance of Ralph Baker's rubber-powered model, which is so equipped. Mr. Baker, a California model builder, reported in a national magazine that his ship had a gliding angle of 17 to 1.

### Quotes Yearbook

About this piece, our correspondent writes:

"I agree with what you said concerning the advantages gained from retractable landing-gear. However, Baker's is one case where you should not believe all that you read."

"Model builders are apt to get overenthusiastic about their model's performance. Some beginners may read this and then be disappointed when their best effort does not even approach the ratio given as the gliding angle of Baker's plane."

"Quoting from Frank Zaic's 1938 Yearbook, page 18, 'Those 15 to 1 glides some boys report must be optical illusions as it is only necessary to do a bit of calculating . . . the average gliding angle is about 7 to 1. Last year a series of gliding tests were made in the stillness of an armory. The best gliding angle obtained was a ratio of 6.5 to 1.'"

### Still Air Tests Best

Perhaps Mr. Baker measured the gliding angle of his plane when it was making a record flight. In such a case, thermal-rising air currents would hold it up and naturally cause it to glide a great distance. But as our correspondent points out, the gliding angle tests should be made in still air.

For the benefit of beginners the gliding ratio is measured like this: The plane is held above the floor a certain number of feet (for example, six). With the nose pointed slightly downward, it is released for the glide. Then the distance it travels forward is measured. If it traveled forward (30 feet) it is found by dividing the distance it traveled forward (30 feet) by the height from which it was started (six feet). In this case the gliding angle would be five to one. This means that for every foot it descended it glided five feet forward.

The advantage of a long gliding angle is that it increases the duration of the model's flight.

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### Cahill Forms New Club

Jim Cahill, who formerly lived here and several years ago won the Wakefield Trophy, writes that the club he formed in his new home town—Connersville—held its first indoor meet Sunday, Dec. 22. Francis Heeb won first with a time of 3:58, just nosing out Francis Allison, who had a total of 3:46. This is not record time by any means, but the contest was held in the Connersville High School gym, which has a flying area of only 24 feet from the floor to the girders. Both the Heeb and Allison trips were original deer Class B indoor sticks, the second unbroken sticks built by either pilot.

The Connersville fliers are going to try to improve those flight times, and to show they mean business have issued challenges to several clubs.

They also have scheduled a flying scale contest and another indoor meet to get in shape for the Purdue Aeromodellers big indoor event in the Fieldhouse at Lafayette late in March or early in April.

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SHIRLEY TEMPLE'S 2 BROTHERS TO MARRY

HOLLYWOOD, Jan. 2 (U. P.)—Two brothers of Shirley Temple made a joint announcement of their engagements today.

Jack, 25, revealed his engagement to Miss Miriam Ellsworth, daughter of Mr. and Mrs. E. K. Ellsworth of Los Angeles. They met at Stanford University, where Jack took post-graduate work in speech and dramatics.

George Jr., who is attached to the Marine Corps aviation unit at San Diego, announced his engagement to Miss Jacqueline Miesse, sophomore at the University of Arizona, and daughter of Mr. and Mrs. R. S. Miesse of Santa Monica, Calif.

### SEEKS APPLICANTS FOR TRAINING CLASS

A call for more applicants in the national defense training courses was issued today by George J. Smith, State Employment Service Indianapolis office manager. He said there were still openings in the course which will start at the city high schools Monday.

Classes will be held for 12 weeks, Monday through Friday from 4:30 p. m. to 10:30 p. m. Enrollees must be under 35, high school graduates, and in good physical condition. Classes include instruction in forge shop, carpentry, radio, foundry, drafting and electrical maintenance, and in machine shop and auto mechanics for Negroes.

### ENGLISH PAINTER DEAD

LONDON, Jan. 2 (U. P.)—Joseph Mordecai, 89, portrait painter, died Tuesday, it was announced yesterday. He painted portraits of King Edward VII, King George V and the Duke of Windsor.

### FOR JEWELRY

"Tavel's" 4 WEST MARKET ST.

## Circling The City

Club to Hear McMurray—Floyd I. McMurray, state superintendent of public instruction, will speak on "Democracy at the Cross Roads" at the weekly meeting of the Optimist Club at 12:15 p. m. tomorrow at the Columbia Club.

Local Students Named—Three Indianapolis students at Miami University, Oxford, O., have been named as student representatives of the university to consult with high school seniors here on plans to attend the school. They are Mary Schenck, 994 E. Drive, Woodruff Place; Leland Scholl, 314 N. Drexel Ave., and Florence Simpson, 1839 N. Meridian St.

Rebekah Installation Set—Mrs. Blanche Pierce, president of District No. 6 of Chappell Rebekah Lodge, No. 702, and officials will preside at installation services of the lodge at 7:30 p. m. Friday at 1120 W. 30th St.

## JAPAN ADDS TO ENVOY SERVICE

### Australian Minister Named; Denies Aiding Nazi Raiders in Pacific.

TOKYO, Jan. 2 (U. P.)—Japan, seeking to expand its interests and influence throughout the Far East and the South Seas, named its first Minister to Australia today, following the lead of the United States in establishing direct relations.

Tatsuo Kawai, former Foreign Office spokesman, who has had diplomatic experience in the United States, was selected.

He recently returned to Japan from a world tour as Minister at Large.

A Navy spokesman, discussing the actions of German raiding ships in the Far East, denied today that Japan was aiding the Germans.

"In no circumstances has the Government sanctioned the use by German raiders of the Japanese flag or of Japanese names," he said.

The spokesman added that he was without information that German raiders were sailing in the Japanese controlled islands.

(There has been speculation in the Far East whether German raiders were operating from Japanese mandated islands.)

The newspaper *Yomiuri* charged editorially that the United States was trying to isolate Japan in the Pacific.

It said the United States had been supplying Russia with high grade oil and machinery, had established a consulate at Vladivostok and had inaugurated a steamship line between Seattle and Vladivostok "in order to block Russian-Japanese rapprochement."

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## INCREASE SHOWN IN HIGHWAY ACCIDENTS

An average of 40 accidents occurred daily during November on the state highway system outside cities which have a population of 3500, T. A. Dicus, Highway Commission chairman, reported today.

This was an average increase of three accidents per day over the number reported in October by the Highway Traffic Bureau. A total of 1212 accidents were reported last month, 758 involving property damage, 419 involving personal injuries and 35 involving fatalities.

This represented an average of approximately one accident to each 250,000 miles of vehicular traffic on the state highway system outside cities of over 3500 population.

### 500-A-DAY PLANE PLAN STILL DEBATED

WASHINGTON, Jan. 2 (U. P.)—Defense commission experts today expressed doubt whether the Reuter plan for producing 500 warplanes a day would be practical but said the plan to utilize automobile plants for mass production of planes was "still under serious consideration."

Officials said that the plan of Walter Reuter, organization director of the United Automobile Workers, G. I. O., at the General Motors plants, conflicted with the program already laid out for the automobile industry to manufacture engines and parts for big bombers.

### PERUVIANS COMING TO U. S.

LIMA, Peru, Jan. 2 (U. P.)—Twenty-four Peruvian professors, college graduates, and professional men are en route to the United States to enroll at the University of North Carolina.

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TO GET A "VapoRub Massage" with all its benefits—massage with VapoRub, more thorough treatment with VapoRub, more power action of Vicks VapoRub, more effectively PENETRATES irritated air passages with soothing medicinal vapors . . . STIMULATES chest and lungs . . . SOOTHES sore nose or throat . . . STRENGTHENS memory right away! Results delight even old friends of VapoRub.

### FOR JEWELRY

"Tavel's" 4 WEST MARKET ST.

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NOW  
2 1/2 to 2 1/2 Yards Long!

PANELS 45 to 51 Inches Wide  
PAIRS 72 Inches Wide the Pair

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NOW  
2 1/2 to 2 1/2 Yards Long!

PANELS 45 to 52 Inches Wide  
PAIRS 72 Inches Wide the Pair

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NOW  
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PANELS 45 to 52 Inches Wide  
PAIRS 72 Inches Wide the Pair

Values that should make you be here when the store opens tomorrow! Lovely lace curtains and panels—all with adjustable tops! In the newest of 1941 colors! Just think! You can save 33 1/3% on every pair you buy.



**70x84 Inch! Sateen Bound Double Cotton Plaid BLANKETS**

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Pair



**Colorful! Warm! 50% Wool! Sateen Covered COMFORTS**

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Each



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Regular \$10.95**

**Plaid Back  
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**Just Imagine! New  
\$3.98, '4.98, '5.98**

**Advance Spring  
DRESSES  
Sizes for Everyone!**

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**New! For the  
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**Fur-Trimmed  
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Were \$28 to \$38!**

**\$23.88**

Important money-savings and authentic new fashions in women's sizes in lovely fur-trimmed dress coats. Smartly trimmed with Kit Fox, Wolf and American Grey Fox! Individual styles . . . Mostly one and two of a kind! Black only! Sizes 38 to 46.

Wasson's Basement Store

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