

# AIR SCOOP

LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 47, Vol. 5

Langley Field, Va., November 22, 1946

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## DANCE TONIGHT IN ACTIVITIES BUILDING

Tonight the NACA Morale Activities Association will sponsor its second semi-formal dance since the opening of the new Activities Building in West Area. Music will be furnished by Eddie Travis and his orchestra featuring dynamic Jackie Burroughs. Dancing will be from 9 'til 1 and tickets may be purchased from district representatives for two bucks, stag or drag.

Social Chairman Axel Mattson pointed out that it will be an affair that no one will want to miss. "A big time was had by all at the pre-dedication dance and an even bigger and better time is anticipated this time so don't miss out the fun."

## MORE CONFUSIN' THAN AMUSIN'

REPRINTED FROM "TAILSPINNER"

The moral of this story is don't let a dope make a dope out of you, or how to cause gray hairs at NACA.

It would seem that there would be some way of telling a character with a banged-up chest and a brain concussion from a lad who is slightly "hopped-up", but the medics at Fort Eustis had a little trouble that way, and it took Mr. Gough of NACA at Langley to unscramble the mess.

If you are sufficiently confused, perhaps it would be a good idea to start at the beginning.

About 2300 last Monday night, Mr. Gough, working late at NACA received a phone call from a friend at the base hospital at Fort Eustis. He stated that a battered individual had been brought in, claiming to be a test pilot for Glenn L. Martin Co. who had just cracked up a DC-3.

Ed Martin, which was the decrepit gentleman's name at the time, claimed to know Mr. Gough as a fellow test pilot. Thus, the phone call to NACA and a denial by Mr. Gough of ever hearing of Martin. However, he offered to try to help.

(Continued on page 5)

## ACTIVITIES ASSOCIATION PRESENTS JOHN STACK IN INFORMAL CHAT



John Stack



## AIRCRAFT SHOW IN CLEVELAND

At the first National Aircraft Show, staged at Cleveland from November 15 to November 21, the aviation world brought to the American public for the first time the full story of its achievements, its significance as a force in war and peace, and its commercial and military potentialities.

The Cleveland show is the first one to have the official backing and participation of the entire aircraft manufacturing industry, the airlines, military services, and aviation organizations.

Every type of aircraft used during the war or now being produced for commercial, private, and military use is displayed, and several new models, such as the Navy's first turbo-jet carrier based fighter, the McDonnell FD "Phantom" made their first public appearance.

Shown on the back page of "Air Scoop" are the charts and material presented at this huge show by the Langley Laboratory.

The NACA Morale Activities Association will sponsor its first in a series of mixed-smokers (ladies included) next Tuesday night, November 26, when it presents John Stack, Chief of Compressibility Research and internationally known authority on high speed aeronautical research, in an informal chat highlighting his recent tour of Europe. Stack has just returned to the Langley Laboratory after delivering a lecture at the Sixth International Congress for Applied Mechanics at the Sorbonne in Paris. Before returning, he visited several aeronautical research centers in European countries.

The affair will get underway at 7:30 p.m. with Stack's address followed by an informal get-together. Guests will be treated to refreshments consisting of beer soft drinks, potato chips, etc. Those who feel like dancing will have the use of the gym floor with music furnished by the juke box. The informal chat, refreshments, and dancing are all included in the admission ticket which may be purchased for fifty cents from district representatives to the General Assembly of the NACA Morale Activities Association.



## REPORT CHANGES TO SELECTIVE SERVICE

Men in the Laboratory who are still subject to the Selective Service regulations are urged to report promptly to W. A. Aery, Room 115, Service Building, telephone 2368 (1) the current changes in their classification; (2) the birth date of newly acquired children; and (3) the dates of changes in their marital status.

In spite of the so-called "draft holiday," Langley men continue to be classified in Class 1-A. If appeals are to be filed, they must be filed within 10 days of the assignment to 1-A classification.

The Air Scoop, an official publication of the Langley Memorial Aeronautical Laboratory, National Advisory Committee for Aeronautics, Langley Field, Virginia, is published weekly in the interest of its employees. Address contributions to the Editor, Service Building, telephone 2376.

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The Air Scoop is printed by the Mechanical Reproduction Staff and distributed by the Office Service Section Staff.

## LIVE at the LABORATORY

For the past two weeks, . . . . . we've been quite fortunate with our scoops. Last week it was Paul Taylor's engagement to Dot Harmon and this week it's one just as surprising. Nick Mastrocola, PRD, and close runner with Taylor for the Number One bachelor position, will tie the final knot today with Phyllis Parker, Induction Aerodynamics.

Staff members of the . . . . . Reproduction Section seem to be taking their work rather seriously these days. This week two new papas strutted in with candy and cigars. John Brinkman is the proud father of a son and Ken Stark is the father of a 4 pound, 13½ ounce daughter, Geraldine Louise, born Saturday, November 16.

Another Laboratory maiden. . . . . Nora Harlow, Blueprint, changed her name when she took her final vows with James Albert Meade last Saturday at the Hampton Presbyterian Church.

One of the Laboratory's proudest. . . . . papas is Len Bartone, West Engineering. He became the father of a son on November 15.

## NOMADS DEFEAT STRUCTURES 18-0

The undefeated, untied, and un-scored upon Nomads came through with another win last Saturday when they defeated the Structures Research team 18-0. The Nomads' first score came in the first quarter on a pass from Pat Cancro to McConnell. The try for extra point failed. The second quarter was scoreless but in the third McConnell blocked a Structures pass and the pigskin fell in Ike Eichmeier's hands who ran for a touchdown. The last score came in the final quarter on a pass from Billy Bates to Ed Hoffman. All tries for extra points failed.

The Structures team played a good defensive game but never seemed to be able to get their offensive clicking.

WANTED: Ride to New York and back over Thanksgiving week end. B. Milwitzky, Impact Basin.

WANTED: 4 passengers to Danville, Va., over holiday week end. James LePrede, Mechanical Maintenance.

FOR SALE: Tennis racket. Newly restrung, frame excellent condition. \$5. Frank Read, East Eng.

WANTED: To buy "Advanced Math for Engineers" by Reddick and Miller. Seymour Deitchman, PRD.



Shown above are shots of the Hampton Little Theatre's production of "Junior Miss" which will be presented at Hampton High tonight and Saturday night. Upper left - one of the romantic scenes between Bob Seldon, FRD, as Willis Reynolds; and Betty Sloan as Ellen Curtis. Center (left to right) Bob Seldon; Beth Walton, Report Typist, as Judy; Jack Parkinson, Hydro Division, as Harry; Bob Ruggles, Tank, as Sterling Brown; Margaret Roberts, FGDA,

as Grace; Pat Wise as Lois; and Winifred Hughes as Hilda. Upper right - Jack Parkinson. Lower left - director Sally Rodriguez, Purchase. Center - the stage crew hard at work (left to right) Dave Feigenbaum, Charles Rodriguez, Al Goodman, and Doug King; lower right - Judy, Barlow played by Bill Sloan, Haskill Cummings played by Bobby Harrell; and Fuffy played by Nancy Workinger.

Photos by Bill Taub

**MESSAGE TO STAFF**

"As indicated by a progress report elsewhere on this page, a number of employees of the Laboratory already have generously given a portion of their income to the Community Chest. I am sure that there are many others who plan to contribute before the conclusion of the campaign on November 30.

"I am proud of the fact that the employees of this Laboratory have always shown an encouraging willingness to support worthwhile community projects. Realizing this, I feel confident that the \$8,000 goal set for us will be met.

"I want personally to make an assurance, as chairman of the board of trustees of the Elizabeth City County Community Chest, that the board will make every effort to see that your contributions are used to the best advantage possible in bettering the social welfare, health, and character of the community in which we live."



## LABORATORY'S COMMUNITY CHEST CONTRIBUTIONS TOTAL \$4,717.52

Community Chest campaign workers had realized a total of \$4,717.52 in contributions and pledges, representing 59 per cent of the \$8,000 goal as of the beginning of the work day November 20, it was reported by Elton W. Miller, chairman of the Laboratory drive.

Cash contributions amounted to \$4,680.70 and pledges totalled \$36.82. A total of 1,433 employees have contributed an average of \$3.29 each. The number of employees contacted totals 1,912, which is 71 per cent of the staff. Seventy-five per cent of those contacted have made contributions.

Sixteen units or sections have been reported as having 100 per cent participation in the drive. They include: Payroll, East Area Cafeteria, Personnel Division Office, Administrative-Technical Service Division Office, Stability Analysis, West Area Construction and Repair, Generating Plant, Personnel Services, Editorial Office, Executive Offices, East Computers, Aircraft Loads Division Office, Aircraft Loads Special Projects, Fiscal Division, and Full Scale Research Division Office.

Although the amount contributed was obtained as a result of solicitation conducted since November 12, only six work days, Mr. Miller expressed the opinion that 100 per cent of the Laboratory's employees must participate if the quota of \$8,000 is to be reached before the conclusion of the campaign on November 30.

The 60 solicitors, who have been canvassing the Laboratory by sections since the inauguration of the drive, will continue in their efforts to contact each employee and give them an opportunity to contribute to this Community endeavor. They are being directed by four area heads, including: Lenore D. Hulcher, Administrative Area; Virginia Tucker, Full Scale Tunnel Area; Vera Huckel, South Section of the West Area, and Janie Burroughs, North Section of the West Area.

Lucy Tucker is assisting Mr. Miller in the drive, receiving collections from the area heads and keeping records on the progress of the drive.



The Laboratory's Community Chest drive workers check results as the second week of the campaign nears a close. The workers and the areas they head are (from left); Lenore D. Hulcher, Administrative Area; Vera Huckel,

West Area (South Section); Elton W. Miller, Drive Chairman; Janie Burroughs, West Area (North Section); Virginia Tucker, Full Scale Tunnel; and Lucy Tucker, Assistant to the drive chairman. --Photo by Bill Taub

# COMMUNITY CHEST AGENCIES OFFER VARIED SERVICES

**BOY SCOUTS:** By encouraging young boys to know and enjoy the outdoors and by inculcating in them the delightful ideals of clean living and patriotic endeavor, develops men of character who are more likely to become better citizens of our community. Four hundred and ninety-six Boy Scouts participate in the programs of the organization in Elizabeth City County.

**GIRL SCOUTS:** A character-building program similar to that of the Boy Scouts is participated in by 400 Girl Scouts in the county. The program is administered by trained volunteer leaders and is aimed at girls from seven to eighteen years of age.

**VISITING NURSES ASSOCIATION:** Provides bedside nursing and health instructions free of charge to those unable to pay. The service is not confined to the indigent, however, being available to all who have a need for it. A small charge is made for those who are financially able to pay.



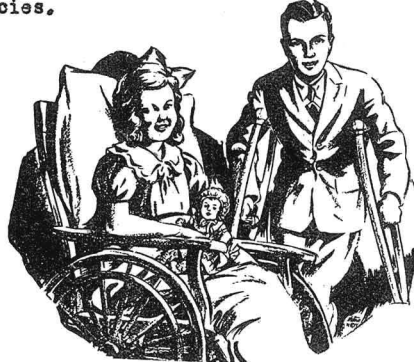
**CHILDREN'S HOME SOCIETY OF VIRGINIA:** Provides care for homeless, dependent or neglected children in Virginia. The organization specializes in adoptive placements. Several employees of the Laboratory have adopted children obtained through the efforts of this society.

**VIRGINIA CANCER FOUNDATION:** Although the foundation specializes in the care of indigent cancer patients, some of its funds go into the dissemination of vital information on cancer and the fact that it can be cured if discovered and treated early enough. All of the residents of the State profit by the foundation's educational program.

**PARENT-TEACHER ASSOCIATIONS:** The principal aim is to correct the physical life of needy children, both white and colored, and thereby to make them happier and more efficient students. One of its activities is the providing of free lunches, clothing, and car fare. Through the cooperation of physicians and dentists,

tonsilectomies and dental care have been provided.

**WELFARE COUNCIL OF ELIZABETH CITY COUNTY:** In an effort to prevent an overlapping of welfare functions and thereby to obtain the most service for the most number of persons, this organization coordinates the activities of public and private welfare agencies. It also seeks to cultivate constructive public opinion regarding welfare agencies.



**FAMILY COUNSELING SERVICE:** Through the untiring services of its caseworkers, this agency does its part in bettering the community by offering advice for the solution of social problems in the family. This is a service available to all who care to take advantage of it.

**NUTRITION COMMITTEE OF ELIZABETH CITY COUNTY:** The importance of a proper diet to the health of our community and the proper preservation of foods are two important items of information disseminated by this committee. Of especial interest are the demon-

strations concerning home canning and preserving.

**WEAVER ORPHAN HOME:** A well known institution for good in the county, this facility provides educational and vocational guidance for young Negro orphans. Located on New Market Road, it is operated under State regulations and is limited to 20 children.

**BOYS HONOR CLUB:** A new service to the Community Chest, it provides wholesome fun and improves the physical, social, and moral welfare of approximately 400 Negro children. The club has been cited as an important factor in keeping down juvenile delinquency among these youth.

**UNITED SERVICE ORGANIZATION:** Requested by the President, the Army and the Navy to continue its services through 1947, the USO is included in the Community Chest goal in preference to conducting an independent campaign.

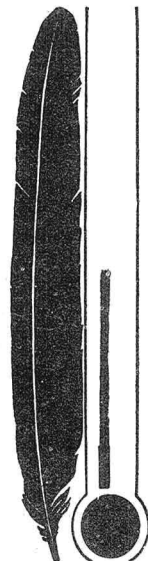


**RECREATION CENTERS:** The Syms-Eaton Recreation Center, Negro Community Center of Hampton, and the Negro Community Center of Phoebus are facilities for the use of groups interested in hobbies, recreation, education, and similar activities. A number of Laboratory employees use the Syms-Eaton Center.

**WELFARE HOSPITALIZATION:** This is a fund designed for use in the hospitalization of indigent persons approved by case workers of the local welfare boards. The total fund does not go directly to any hospital but is expended only as it is needed to defray the costs of necessary hospital service.

**PHILANTHROPIC COMMITTEE OF PHOEBUS WOMAN'S CLUB:** This committee has been in existence for the past 17 years, during which time many distressed families in need of such essentials as food, fuel, and shelter have been benefitted.

## Community Chest Thermometer



### GOAL

\$8,000.00

\$6,000.00

\$4,000.00

\$2,000.00

# CONFUSIN'

(Continued from page 1)

The mysterious pilot refused to divulge his home base, where he was headed or to surrender his wallet since it contained "secret papers". The plot was rapidly thickening.

Three doctors at Fort Eustis played safe and thrust Mr. Martin into an oxygen tent, treating him for brain concussion and chest injuries. Mr. Gough got on the wire to check the plane.

A call to the Langley Air-drome officer, Lt. Cameron, showed that no plane had been reported overdue, but contacts were made with Richmond, Washington, Baltimore, and New York to see if anything had been reported.

Shortly after, Mr. Gough called an official of the Glenn L. Martin Co. and asked him to check whether he had a pilot named Martin flying a DC-3. There was no such person, and all planes were present or accounted for. However, about a year ago, a drug addict had been picked-up in Washington telling the same sort of story. The whole situation began to reek of fish.

Another call to Fort Eustis clinched the tale. Our brain concussion was merely an overdose of a bit of dope. It was so inspiring that our "hoppy" even tried a little suicide when no one was looking--all to no avail.

To put it mildly it was a pretty hectic evening for all concerned. What some people won't do for a gag!

## BASKETBALL LEAGUE BEGINS DECEMBER 3

At the basketball meeting held last Tuesday night at the Activities Building it was decided that the league would begin its season of play on Tuesday, December 3. Twelve teams have been entered into the league and at the close of the season a tournament will be held.

At the next meeting, which will be held on Monday, November 25 at 7:30 p.m., all teams must turn in their complete roster and ten dollars of the required entrance fee. The election of officers will also be held and each team is urged to have two representatives present.

NOTICE: Jim Spaulding, East Engineering, wishes to point out that the announcement in last week's "Air Scoop" concerning his interest in forming a Model Railroad Club was an erroneous statement.

FOR SALE: Two violins in excellent condition, \$80 and \$130. R. E. Githens, 207 Armstrong Drive, Apt. 3.

# HAL JOHNSON WINS FIRST CONTEST

In the "Air Scoop's" first grid guessing contest, eleven persons selected 11 winners out of twelve but a final tabulation of the scores gave Harold Johnson, 7 X 10-Foot Wind Tunnels, the first place winning position with 20 1/4 points. Laurence Gale, Spin Tunnel, came in second with 18 1/4 points, Bernard Robinson, East Engineering, took a close third with 18 points, and Ray Goodman, West Machine Shop, came in fourth with 15 1/2 points. The 7-7 tie between Richmond and VPI kept anyone from getting a perfect score of 12 winners picked.

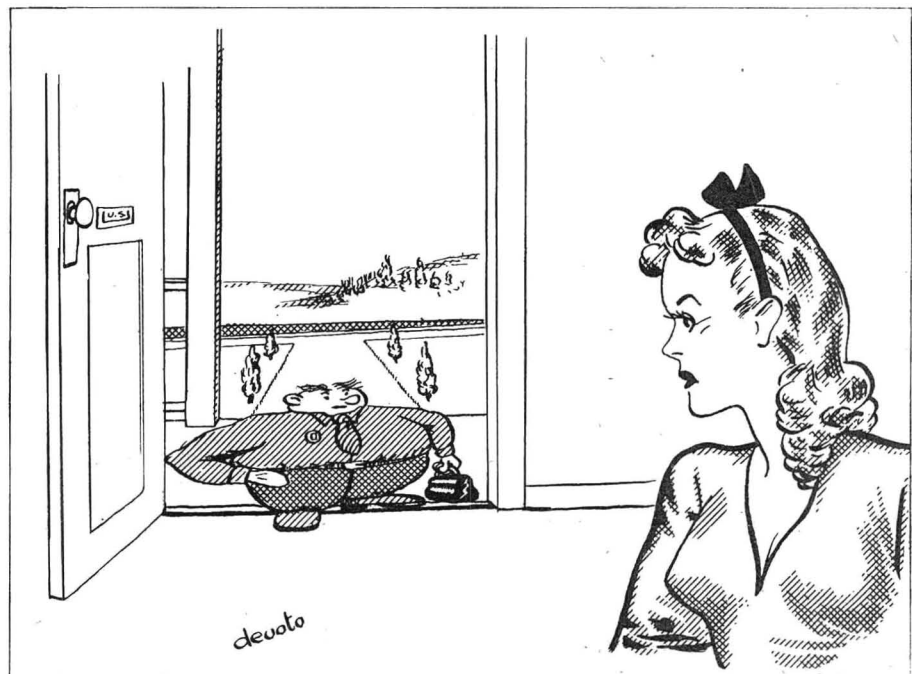
Listed below are the teams in the third and last grid guessing contest. Place at the right of each team your predicted score, include on the form your name and section, and send or bring the entry to the "Air Scoop" Office, Service Building, not later than 4:45 Wednesday, November 27. Each contestant is limited to one entry.

In case of a tie the score of each team will determine the outcome. In tabulating scores, 2 points will be given for a score picked on the head, 1 point for a score missed by 1 point, 1/2 point for a score missed by 7 or less, and 1/4 point for a score missed by 14 or less.

First prize will include a carton of cigarettes, one membership ticket to the Hampton Little Theatre, and two tickets good for a movie at the Langley Theater in Hampton. Second prize is two tickets to the Langley Theater and third and fourth prizes will be one ticket each to the Langley Theater.

### GAMES FOR NEXT WEEK END

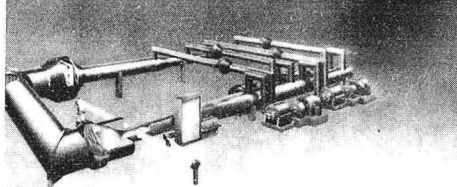
Navy _____	vs. Army _____
Notre Dame _____	vs. Southern California _____
Oklahoma A & M _____	vs. Oklahoma _____
Georgia _____	vs. Georgia Tech _____
VPI _____	vs. VMI _____
S.M.U. _____	vs. T.C.U. _____
Texas _____	vs. Texas A & M _____
Tulsa _____	vs. Arkansas _____
Alabama _____	vs. Miss. State _____
L.S.U. _____	vs. Tulane _____
Vanderbilt _____	vs. Tennessee _____
Rice _____	vs. Baylor _____



"....Oh Pat dear, you've been working under pressure again!"

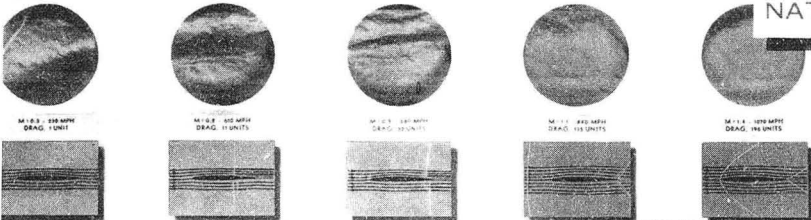
# HIGH-SPEED WIND TUNNEL RESEARCH

PERSONAL WIND TUNNEL HIGH-SPEED AIR FLOW



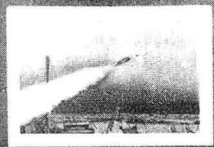
## DRAG WITH INCREASING SPEED

As the speed of the air flow increases, the drag force on the model increases. The drag force is directly proportional to the square of the velocity. The drag force is also directly proportional to the area of the model exposed to the flow. The drag force is also directly proportional to the density of the air. The drag force is also directly proportional to the coefficient of drag. The drag force is also directly proportional to the square of the velocity. The drag force is also directly proportional to the area of the model exposed to the flow. The drag force is also directly proportional to the density of the air. The drag force is also directly proportional to the coefficient of drag.



# HIGH-SPEED FLIGHT RESEARCH

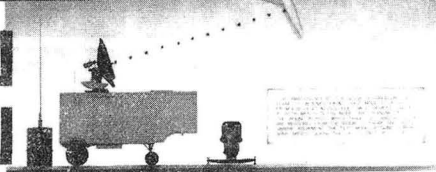
FREELY FALLING MODELS ROCKET POWERED MODELS



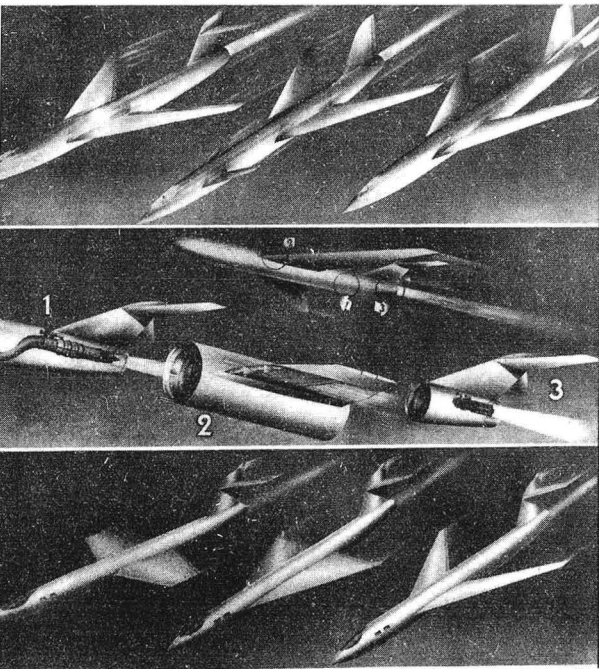
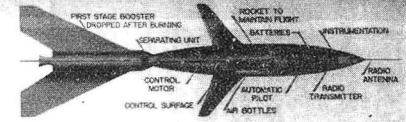
## NATIONAL AIRCRAFT SHOW

NOVEMBER 15-24

CLEVELAND, OHIO

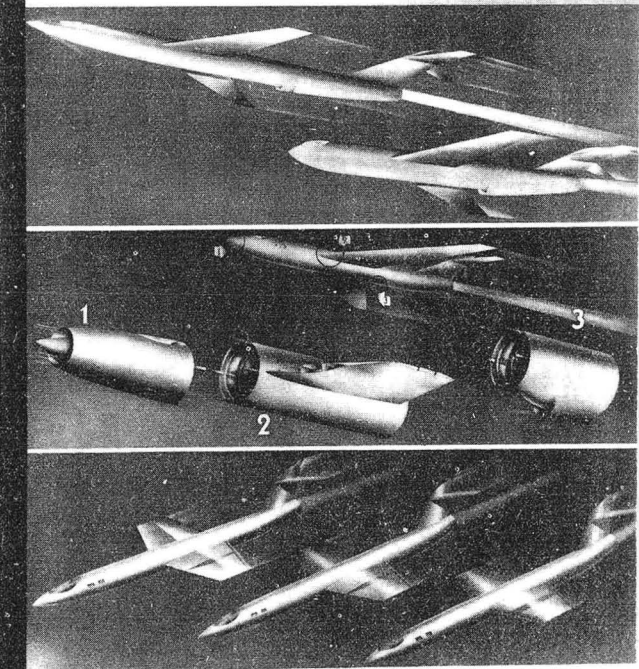


ROCKET POWERED RESEARCH MODELS BEAR CLOSE RESEMBLANCE TO THE FREELY FALLING MODELS. IDENTICAL TO THE SHAPES OF THE DESIGN OF DISBURSED MISSILES AND AIRPLANES.

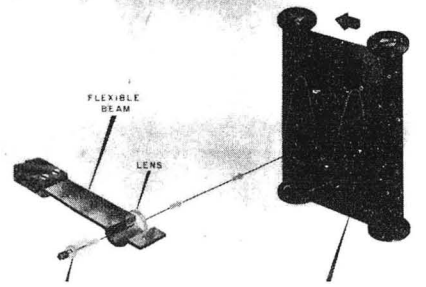


# LANGLEY REPORTS

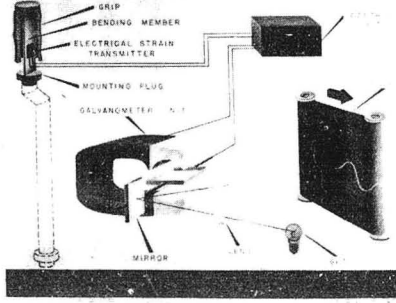
# TO THE NATION



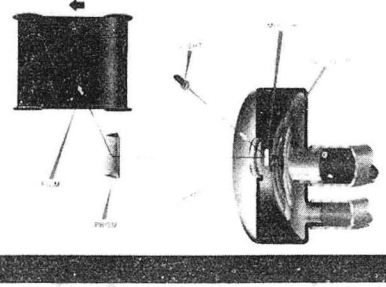
### NACA RECORDING ACCELEROMETER



### STICK FORCE RECORDER



### NACA AIRSPEED RECORDER



### NACA YAW ANGLE RECORDER

