

# AIR SCOOP

LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 26, Vol. 5

Langley Field, Va., June 28, 1946

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## ANNOUNCE EXAM FOR MACHINIST

The Board of U. S. Civil Service Examiners of LMAL has announced an un-assembled examination for probational appointment for Machinist, grade UN-7. A memorandum has been issued to machinists of that grade employed at the Laboratory, copies of the announcement have been posted on bulletin boards, and forms to be submitted are available at the machine shops or the Employment Office. If any other Laboratory employees are interested in applying for this examination, they may obtain the necessary forms by calling the Employment Office, phone 2272.

The secretary of the local board of examiners states that examinations for other positions and for other grades of machinist will be opened as soon as possible.

## SEND OUT NEW SALARY TABLES

The new salary tables, showing what classified workers will be drawing after July 1, are being distributed with this issue of Air Scoop.

These new tables list the annual, bi-weekly, daily, and hourly pay rates along with overtime rates. They also show the bi-weekly retirement deductions and the net without the withholding tax. Tax deductions are given in each pay step for all numbers of dependents and below those figures are the bi-weekly net figures, sometimes referred to as "take home pay."

Slightly confusing to some is the first column on the sheet, headed "Former Annual Salary Rates." In this column, two figures are shown in each box. The top figure is the old annual rate in effect before July 1, 1945. The bottom one is the rate which went into effect on July 1, 1945, and is now being used. For example, for the beginning CAF-2 employee, the former rates are \$1440 on top and \$1704 on the bottom. The new annual rate will be \$1954. Along the same line, the starting P-1 rates are \$2000 on top and \$2320 in the former rates and \$2644.80 in the new column.

Employees are reminded that while the new pay rates take effect on July 1, the first increased pay check will be the one received on July 25 which covers the pay period of June 30 - July 13.

## FIRST ENTRANT



Harold Crane, of Flight Research, was the first Laboratory golfer to enter the First Annual NACA Golf Tourney. Crane's entry was made on Tuesday afternoon and his entry blank showed his scores in the 80's. Contestants have until July 12 to turn in their qualifying scores for the tournament which will be held on the Hampton Country Club Course July 20 and 21. Trophies will be awarded in both low gross and low net brackets. The entry blank is printed on page 3.

## AERL MAN PHOTOS ENGINE KNOCK AT NEW SPEED RECORD

After several years of extensive work on an ultra-high-speed camera, George C. Miller, Mechanical Engineer in AERL's Combustion Fundamentals Section of the Fuels and Thermodynamic Research Division, and his associates have succeeded in photographing an engine knock at 200,000 frames per second. This is the highest speed at which this phenomenon has ever been photographed.

At the Aircraft Power Plant Session of the SAE Summer Meeting, Miller presented a paper entitled, "The Roles of Detonation Waves and Auto-Ignition

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## FORMER EMPLOYEES ARE BACK FROM SERVICE

Former employees are beginning to drift back to the Laboratory in ever increasing numbers following their discharge from military service. Latest count revealed that there are 133 former employees, who entered the armed forces, who are now back on the job at Langley. A partial list of these men was published a few months ago. The more recent returnees are as follows:

James A. Morris, Jr., East Machine; Joseph S. Cross, Jr., Construction and Repair; George E. Wyatt, Construction and Repair; Donald B. Nelson, PAR; William A. Randall, Maintenance; John R. White, Generating Plant; Robert L. Johnson, PRD; Edmond R. Kay, 16-Foot; Joseph Parker, Transportation; Donald Borchers, Operations Section; Kenwood F. Stark, Reproduction; Samuel A. McAdams, East Sheetmetal; Russell A. Reader, West Model; Williard J. Youse, 8-Foot; John W. Perry, Jr., Fire Protection and Watch; Walter J. Klinar, Stability Tunnel; Elmer W. Bigg, Maintenance; William R. Taylor, Tank #1; Roland Tully, Inst. Construction; Grover C. Bell, Inst. Construction; Herbert B. Mills, Jr., East Engineering; Wilton L. Pollard, West Machine; and Robert C. Minnis, Jr., West Machine.

Dino Antonelli, PRD; William E. Morris, PRD; Charles L. Lee, Fire Protection; Francis J. Scott, Jr., West Sheetmetal; Charles E. Gerrity, Maintenance; Lloyd M. Westcott, Jr., Electrical Shop; Phillip W. Lovett, Transportation; Charles B. Rumsey, PAR; Ray A. Van DeWalker, Generating Plant; Daniel P. Hutton, Jr., Inst. Construction; H. Lee Dickinson, Employee Relations; Percy E. Garrington, 19-Foot Tunnel; Raymond J. Felker, PRD; Peter E. A. Tabb, Jr., Transportation; Benton Cleveland, West Machine; Frank K. Gough, Jr., Inst. Construction; Sidney L. Powell, West Sheetmetal; Kenneth E. Traut, Operations Section; and James C. Sinclair, West Model.

George H. Perry, Transportation; William T. Washington, West Machine; John B. Gerloff, East Engineering; Francis C. Holloway,

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# NEXT GREEN COW ON FRIDAY, JULY 19

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# LIFE at the LABORATORY

If the old saying. . . . .



"It's love that makes the world go round" is true then 19-Foot Pressure Tunnel is in a whirl these days with practically every eligible person becoming ineligible. Rachel McAlister and Ray Salmi, both of 19-Foot, will tie the final knot on Saturday, June 29, at Lowell, N. C. Jean Venckunas will journey South with the wedding party to serve the bride-elect as maid-of-honor and Sarah Johnston will lend her vocal talents to the big occasion.

Den Cupid really seems. . . . .

to be putting on the pressure these days. Monday morning 19-Footers discovered another big sparkler in their midst. This time it was Sarah Johnston and the prospective bride-groom is Roger "Prof" Peters of Structures Research. Wedding bells will ring sometime this fall.



One of the Peninsula's proudest. . . . .

mamas is Indie Atkins, formerly of Files. She became the mother of a son on Sunday, June 23.

Jim Kelly a frequent visitor. . . . .



to Langley from the Washington Office, is planning a quick trip down this way soon to pass out cigars to all his friends. He recently became the proud papa of a 7 pound, 10 ounce son, James III.

Now back to 19-Foot and the future. . . . .

brides. Lois Hardin is planning an August wedding and the second party concerned is Johnny Ebels of Maplewood, New Jersey.

"Droopy Sharp" is getting hitched. . . . .

on June 29 to Marjorie Jane Critzer of Berea, Ohio. "Droopy", who is employed at the Cleveland Lab under the alias of Edward Gordon Sharp, formerly worked at Langley. His father is Edward R. Sharp, Manager of AERL.

Last Thursday was a rather. . . . .



nerve-wrecking day for Charlie Barnett of Classification. He received a telephone call shortly after lunch and was informed that he had just become the father of an 8 pound, 12½ ounce raddhaired daughter.

8-Foot High Speed Tunnel is. . . . .

in the process of losing one of its most eligible bachelors. Walter Bastado has announced that he is now an engaged man and that the future Mrs. is Barbara C. Manning of Washington, D. C. No definite wedding plans have been made as yet.

Another birth announcement. . . . .

that barely got under the wires was the new arrival to the Doug King household. It was a 9 pound, 9½ ounce son, Steven Douglas, born Sunday, June 23. The proud mama is Daisy Mae King, formerly of Tank.

Saturday has been selected. . . . .

as the big day for Patricia Dodl of Tank, when she walks down the aisle and says "I do" to Thomas Link. The wedding will be solemnized at the Hampton Presbyterian Church. Beth Hay, also another Tank bride-elect, recently entertained Patricia at a bridal party.



### A FRIEND IN NEED

The Laboratory is faced with a critical shortage of available rental housing for its employees. In many ways, the situation appears more desperate than during the height of the war, and the prospect for an immediate improvement is exceedingly slight.

The Housing Office, in an effort to enlarge its listing of available housing property, both for sale and for rent, is enlisting the aid of Laboratory employees in the present housing crisis.

Any employee who knows of a vacancy or an impending vacancy in Peninsula housing is requested to notify the Housing office, telephone 2377. You not only will be doing the Laboratory a service, but likely will be helping a fellow employee in locating adequate housing accommodations. Your help will be appreciated.

### ABOUT THE DEADLINE

Each week the Air Scoop office is practically besieged with telephone callers wanting to know, "When is the latest I can get something in this week's issue?" The practice of holding up news until the last minute is a bad one, especially if it could get in an hour or sometimes even a day or two before. We don't fancy ourselves as being on the same level as a metropolitan daily but we do have our problems of composition, makeup, and publication every time.

Our deadline for news is set at noon on Tuesday preceding publication. Whenever we do not adhere to it we run into difficulties that spell trouble for someone connected with the publication. So we ask the cooperation of everyone concerned in getting news to us on time.

Due to the holiday next week, we will endeavor to get the next issue to the readers on Wednesday. The deadline for this week alone will be noon on Monday.

### UNCLE SAM STILL SELLING

Every time you run into a little extra cash, whether your rich uncle dies, you win a sweepstakes, or just get a raise in salary, the world beats a path to your door to tell you just what you should do with these extra dollars.

With the raise that becomes effective for some employees July 1, comes a reminder that the United States Government has a few little items for sale that come under the heading of gilt edged securities--gilt edged, that is. They have run the gamut of names. When the rest of the world got embroiled in the last war they were called defense bonds; when we got into the scrap they were known as war bonds; after V-J they became victory bonds.

They were peddled in post offices, banks, movie theaters, and countless other places by the Secretary of the Treasury, Mr. and Mrs. Big Time Movie Star, and Mr. and Mrs. John Q. Public. Little and big they sold--and bought.

The government still offers these bonds as a convenient and safe way of saving money, and we are still entitled to purchase them piecemeal by the payroll allotment plan. Bi-weekly payments can be made to suit the individual. Call the payroll office and buy the bonds.

## NACA TENNIS TEAM STARTS PLAYOFFS

Two challenge matches have been played in the NACA Tennis Team with Bill Jordon, East Engineering, defeating Gordon Griffith, Construction Engineering, 6-2, 6-4, and Leo Rogin, Loads Calibration, defeating Griffith 6-0, 6-4. Several new players have been added to the ladder since the last meeting and each player may challenge any of the five players above him. Matches with Langley Field, Hilton Villiage, Portsmouth, and Norfolk teams are being arranged.

No.	Player	Section	Phone
1	Bates	7 X 10	4479
2	Erwin	FGDA	2248
3	Cannon	S.E.P. (East)	2352
4	Campbell	FPT	2282
5	Edwards	Inst. Appli.	4409
6	Kelly	PRD, Math Sec.	4597
7	Heimerel	Structures	4413
9	Sperry	Const. Eng'g.	2336
8	Jordan	East Eng'g.	2251
10	Phillips	Flight Res.	2264
11	Dunlap	ICL	2216
12	Rogin	Loads Cal.	4439
13	Griffith	Const. Eng'g.	2336
14	Webber	West Eng'g.	4452
15	Haines	PAR	4537
16	Mertz	PAR	4537
17	Frost	DTOS	2246
18	Ferguson	Classification	2381
19	Greenberg	8'HST	2292

WANTED: Three or four horsepower outboard motor. F. P. Long, Pass office, Main Gate.

FOR SALE: Man's pre-war bicycle in good condition. Ray Goodman, West Machine Shop.

WANTED: One man in Southampton to drive one day a week in ride sharing combination. Call Hampton - 7778.

FOUND: A set of keys on chain. Owner may call the Air Scoop Office.

## LAB ATHLETES ARE TRYING PRO BALL

Five Laboratory employees, with college football experience behind them, are getting tryouts with the Newport News Builders, Peninsula entry in the Dixie Professional Football League, it was learned this week from Bobby Spangler, Builder coach.

Spangler, who works in the Special Engineering Projects (East) Office, said that Pat Cancro, Nelson Catlett, Ned Bowen, Luke Liccini, and Charlie Forsyth were the men he was counting on. Catlett has already been signed to a contract and the others are expected to sign this week.

Catlett, who works in Construction Engineering, is a former Hampton High school footballer, who later played at VMI where he was captain and All State one year. He plays in the backfield and is an expert passer, kicker, and runner.

Cancro, 19-Foot Pressure Tunnel, is likewise a triple threat back, gaining his college experience at Clarkson College in New York state. Forsyth, of Flight, is a blocking back, all 205 pounds of him, with two years at Princeton behind him.

Bowen and Liccini are lineman, Bowen a 235 pound tackle and Liccini a 190 pound end. Bowen works in PRD and played at Rutgers; Liccini, formerly of Catholic University, works in the 8-Foot High Speed Tunnel.

Spangler stated that the team still has some vacant spots and that any other interested men were welcome to contact him.

The Builders will use the Darling Stadium at Hampton High school for their home field, playing games on Sunday afternoons. The season opens on September 22 and the first home game is carded for a week later. Other teams in the league are Richmond, Norfolk, Portsmouth, Greensboro, and Charlotte.

## DYNAMIC TUNNELS WIN TWO GAMES

Although they were outit in both encounters, the Dynamic Tunnels' team from the Stability Division came through last week with a 12-7 win over West Shops and a 3-2 ditto from IRD.

Pitcher Ray Bugg of IRD limited the Dynamics to two hits, both singles by Campbell and Maggin. Meanwhile the IRDs got to Red Neihouse for seven hits, all singles.

The game with the Shop Eagles turned out to be another field day with the winners getting eight hits, nine walks, stealing 12 bases and making six errors. The losers collected twelve hits and six walks, stole 11 bases, and committed 8 errors. Neihouse and Maggin hurled for the winners and Hilsdon and Stewart for the losers.

Pilotless Aircraft split during the week with AWT and 7 X 10 to keep in third place a half-game ahead of the idle Low Turbs. Sam Vollo yielded eight hits to AWT and his mates committed six costly errors that spelled a 9-4 defeat. Lockwood and Rossi each got two of the winners' hits and Hagginbotham collected two of the losers' seven off Tommy Andrews.

Outit 9-7, PAR came back to take the long end of a 6-4 count against 7 X 10. Pitcher Vollo led the attack with two hits while for the losers, Silvers got three and Lowery two. Moss pitched for 7 X 10.

Full Scale remained idle to take a forfeit from PRT.

### SOFTBALL STANDINGS

Team	W	L	G. B.
8'HST	5	0	----
FST	6	1	----
PAR	5	2	1
Low Turb	3	1	1 1/2
Structures	4	2	1 1/2
19' PT	5	3	1 1/2
16' Tunnel	3	2	2
Dynamic Tunnels	3	3	2 1/2
Loads	2	2	2 1/2
AWT	2	2	2 1/2
7 X 10	2	5	4
PRT	1	6	5
West Shops	1	6	5
IRD	0	7	6

FOR SALE: One Stewart-Warner Firestone automobile radio, complete with dial, telescopic antenna, etc., exceptionally fine tone. One new Tre Jur split image range finder. Two new Weston Master exposure meters, one with carrying case. F. W. Schmidt, Metallurgical Lab.

WANTED: Young couple desires ride within or near radius of 75 miles of Cleveland, Ohio, leaving July 3, 4, or 5. Ellen DeBolt, Planning Office, or call Hampton - 7305.

LOST: Lady's striped wallet containing driver's license, small change, and social security card. Beth Walton, Report Typing.

### OFFICIAL ENTRY BLANK

### FIRST ANNUAL NACA GOLF CHAMPIONSHIP

HAMPTON COUNTRY CLUB  
July 20 and 21, 1946

Name \_\_\_\_\_

Section \_\_\_\_\_ Phone \_\_\_\_\_

Last five scores:

Score \_\_\_\_\_ Where Played \_\_\_\_\_ Par \_\_\_\_\_

Score \_\_\_\_\_ Where Played \_\_\_\_\_ Par \_\_\_\_\_

Score \_\_\_\_\_ Where Played \_\_\_\_\_ Par \_\_\_\_\_

Score \_\_\_\_\_ Where Played \_\_\_\_\_ Par \_\_\_\_\_

Score \_\_\_\_\_ Where Played \_\_\_\_\_ Par \_\_\_\_\_

Entries must be accompanied by three dollars and turned in to the Air Scoop Office on or before July 12, 1946.



## ENGINE KNOCK

(Continued from page 1)

in Spark Ignition Engine Knock as Shown by Photographs taken at 40,000 and 200,000 Frames per Second." Prior to the exhibition, it was believed by most authorities that knock is caused by auto-ignition of the last part of the fuel-air charge to burn, which was thought to be the result of heating of the end gas by compression caused by the earlier parts of the burning. Miller's film revealed several different types of auto-ignition but showed that the most disturbing type of knock is caused not by simple auto-ignition but by a detonation wave or an intense shock wave travelling through the burning gases.

## BACK FROM SERVICE

(Continued from page 1)

Maintenance; Paul W. Jones, Maintenance; John O. Ormand, Jr., Training Office; Robert J. Keller, West Machine; Richard T. Byrd, East Sheetmetal; Viggo G. Derang, West Machine; Charles C. Wilson, West Model; W. Dorton Leonard, West Machine; William T. Veatch, Jr., DTOS; Leon C. Kincaid, Jr., West Machine; William B. Dunn, West Machine; Harold K. Long, Electrical Shop; G. Fay Byrne, Operation Section; Mark W. Cole, Jr., Electrical Engineering; Charles W. Wilson, East Machine; E. Terry Dews; Tank #2; Burley F. Waters, East Sheetmetal; Charles B. Edwards, Jr., West Sheetmetal; John M. Ferguson, PRD; Bernard R. Smoot, West Machine; Thomas L. Bentzel, Electrical Shop; Robert B. Harrison, Jr., Stook Control; Jack G. Barbour, East Sheetmetal; Francis J. Kubeck, PAR; Joseph L. Wallace, Warehousing; James C. Brankley, West Machine; Kenneth W. Brown, Purchase; James A. Cottrill, 24-Inch Tunnel; William M. Strouse, Inst. Development; Arthur W. Carter, Tank #1; and Edward C. Lenz, Jr., West Engineering.

## ANNOUNCE WINNERS IN BRIDGE MATCH

The teams of Joe Martin and John Crigler and Mrs. Carl Rossman and Joy Allen took top honors in the LMAL Bridge Club's duplicate tournament played Tuesday night at the USO.

Martin and Crigler did not seem to have too much trouble in the North-South division, posting 70 percent to 60 by their nearest rivals, Bert Eisenstadt and Sol Rubinow. Third position was held by Ned Bowen and Bernard Klunker with 50.

Things were a bit closer in the East-West side where only four points separated the first four teams. Mrs. Rossman and Miss Allen took top honors with 58, followed by Manny Stein and Ed Kruszewski with 56, Annie and Ida Young with 55, and Al Lowy and Ben Sundheim with 54.

## ANNOUNCE WINNERS IN PHOTO CONTEST

The Hampton Camera Club held its first salon contest on Monday, June 17. A total of 19 prints, representing all types of subject matter, were exhibited. Following a discussion of each print, members voted by secret ballot allowing a point distribution of 40, 30, 30 for human interest, composition, and technique respectively.

Winners were as follows: first, "Pat" by Kurt Strass; second, "Sunshine" by Seymour Deitchman; third, "Seagulls" by Paul A. Hunter; fourth, "Alert" by Deitchman and "Formal Balance" by Strass; fifth, "Pitcher Puss" by Strass; and sixth, "Boy At Fountain" by Everett Dunlap.

The member with the most accumulated points after six contests will receive an award.

The next contest will be held on Monday, July 29 and the dominant theme of the pictures will be water.

The next meeting of the club will be held on Monday, July 1, at 7:30 p.m. at the Syms-Eaton Community Center.

## COMPLETE SCHEDULE FOR SOFTBALL LEAGUE

No games were played last week in the Girls' Community Softball League due to rainy weather. However, a schedule for the remaining part of the season has been made up and is as follows:

June 28	July 12	July 19
1-3	1-2	2-3
2-4	3-4	1-4
July 26		Aug. 2
1-3		1-2

Team symbols are: 1. 16-Foot; 2. Stability; 3. \*Presbyterian; and 4. Computers-19-Foot.

All games will be played at Armstrong school unless it becomes necessary to make up postponed games on the West Area diamonds. Game time will be 5:45 and any team not having at least seven members ready to play by 6 o'clock will have to forfeit to the other team. For further information call Fern Driver at 4590.

Team	LEAGUE STANDINGS		
	W	L	Pctg.
Presby	1	0	1.000
Computers-19'	1	1	.500
Stability	0	1	.000
16-Foot	0	0	.000

RIDE WANTED: To vicinity of Fort Smith, Arkansas during first two weeks of July. Will share expenses. References exchanged. Telephone Newport News 2-2623.

GOING FISHING: W. G. Winfree, Jr., has a 32 footer that accommodates parties by the hour or day. 115 South 4th Street, Buckroe Beach, Box 294.

## What's My Name?



My life began in Asheville, North Carolina, and since that time I have been like a Methodist minister's daughter - I've lived most everywhere. My education started with undergraduate work at the Asheville School for Girls. Upon completion of my studies there I left the mountains of North Carolina and went to Greensboro where I did Home Economics specialization work at the Woman's College of the University of North Carolina. Again the old travelling fever got the better of me and I journeyed to New York City to see how the other half lived; there I did graduate work at Columbia University.

Being a Tar Heel born and bred, I went back to the old North State and settled down to teaching Home Economics in Winston-Salem. From there I took a position as dietitian at Greensboro College. The women there got the better of me so I went back to Columbia University for more graduate work.

It was at Vanderbilt University in Nashville, Tennessee, that I had my first experience in feeding men, the meteorology cadets of the Army Air Force. I had worked with girls up until this time and the change proved to be quite a pleasant one, in fact, I had a change of heart, from women to men. When the meteorology school was discontinued, girls were put back into the dormitories so I packed my bags and answered the call of the American Dietetic Association which put me in contact with the NACA. After a flying trip down for an interview, I accepted the position as Manager of the NACA Exchange and have been here ever since. What with food shortages and everything else, it hasn't been easy but I'm enjoying it.

Sarah B. Blokman