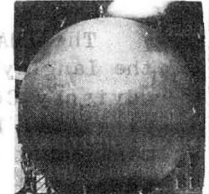
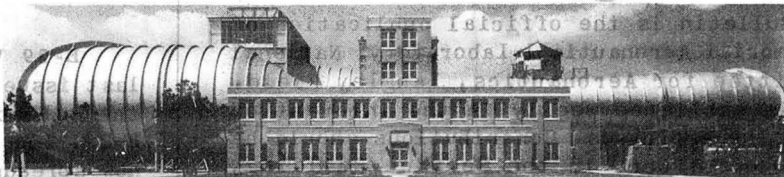
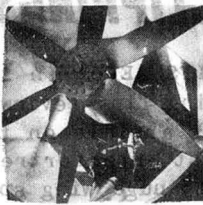


LMAL BULLETIN



LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 31, Vol. 3

Langley Field, Virginia, July 22-28, 1944

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PATTERSON, GATES FOR POST-WAR RESEARCH

Post-war plans for research in aeronautics are already being formulated and were stated very generally at a recent Senate committee meeting. According to the New York Times, on July 12 Under-Secretary of War Robert P. Patterson supported by Assistant Secretary of the Navy for Air Artemus L. Gates submitted the ideas of the War Department on the kind of air forces and aviation industry the country will need after the war to the Murray War Contracts Subcommittee of the Senate Military Affairs Committee.

The suggested plan not only calls for large Government appropriations for military air services but also for huge stand-by facilities and a movement of the aviation industry from its pre-war locations on the East and West Coasts to the center of the country. It also advocates the disposal of surplus aircraft so as not to delay or hinder the development of new designs, even at the cost of scrapping the old, and provides for Government aid and encouragement to all phases of civil aviation.

In his statement, Mr. Gates said: "Encouragement of civilian air transportation by all proper means should be pursued. Research in aerodynamics and related sciences which will be continued by the industry should also be liberally financed and conducted under Government

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MILITARY TRAINING FOR MEN

A group of men interested in participating in a training program have met recently and discussed the possibilities of such a program. As a result a series of courses on military subjects is being planned for male Laboratory employees. The subjects being considered are those required for Basic Military Training of AAF enlisted personnel. These subjects include Articles of War, Army Organization, Military Discipline, Sanitation, First Aid, Safeguarding Military Information, Marksmanship, Camouflage, Defense Against Air Attack, and Employment of Aviation in the Army. At present no physical training or drill is being considered.

As indicated in the report circulated to reservists on June 17, the administration of any training program at the Laboratory will be entirely in the hands of LMAL personnel. Such training will not receive official recognition from the Army, but indications are that completion of any or all of the above courses will have a favorable effect on the rate of a man's advancement, if he is called to active duty.

GREEN COW TO CROWN QUEEN

The coronation of Miss LMAL will highlight the Green Cow's summer dance at the Grand View Pavilion Friday night.

The parade of the contestants is scheduled for 10:30, and the announcement of the winners will take place immediately following.

The dance is open to all members of the Noble Order of the Green Cow. Any Laboratory employee who is not a member may join by paying the yearly membership fee of \$3.50. There will be no tickets sold for this dance alone. Membership tickets may be obtained from Bill Craig, Employment; Charlie Kelly, Full-Scale Tunnel; Tiny Hutton, Bulletin; or Sid Batterson, Impact Basin.

The dance will start at 9 p.m. Directions to Grand View are printed elsewhere in the Bulletin.

Although the army will give no official recognition to the training, responsible officers have promised that a limited amount of equipment will be made available for such training; competent Army instructors will lead periodic seminars; and all texts, questionnaires, and correction sheets may be obtained from the Army.

Temporary officers have been elected to complete the organization of this training program. They are C. A. Rossman, Structures, Chairman; H. O. Levitt, E. Engineering, Secretary, and D. U. Ullman, Reproduction, Library Custodian. Ullman has texts for some of the previously mentioned courses. Anyone interested in examining the texts may contact him at 352.

Since the degree of Army cooperation will probably depend to some extent upon the number of participants, it is desired that all men interested in the training telephone

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The LMAI Bulletin is the official publication of the Langley Memorial Aeronautical Laboratory, National Advisory Committee for Aeronautics, Langley Field, Virginia. It is published weekly in the interest of management and the employees. Contributions should be addressed to the Editor, in the Service Building, telephone 376.

Editor Tiny Hutton
 Managing Editor Ruth E. Angel
 Associate Editor Audrey C. Lange
 Sports Si Diskin
 Reporters LMAI Employees

They do it, why don't you?

The June 15-30 bond allotment report shows improvement in employee subscription with the percentage of employee participation being increased from 88.6 to 90.74 and of gross payroll from 12.41 to 12.43. The highest percentages reached thus far were attained in November when the total participation was 97.5 percent and the payroll allotment was 13.7 percent. It is hoped that during and after the Fifth War Loan Drive, the figures can even surpass those of November, the payroll allotment reaching the goal of 15 percent.

Listed below are statements and photographs of 5 representatives who are among the many subscribing 15 percent and over.



Glenda Ellison, Clerk, Stenographic Section

I invest 15 percent of my salary in bonds because it is the least I can do to help the boys who are fighting for our country, and it is also an excellent way to save money for that Buick convertible after the war.

Gene Guryansky, Aero. Engr., Full-Scale Tunnel

Since my flight time in this war is measured by the number of hours I push a slide rule, I like to think that the bonds I purchase regularly help pay the salary of some pilot with whom I can take a mental "piggy-back" ride whenever the slip-stick gets a little sticky.



Betty Toll, Editorial Clerk, Editorial Office

I invest in War Bonds because I feel that I should lend the Government money that I do not actually need at this time; besides, I like the idea of saving the money for the "sunny" days when the Government no longer needs it to carry on the war.



Virginia Benson, Clerk Typist, Bond Office

I buy bonds because I think that's the best way a person in one of the lower brackets of salary can save money. It's not only a benefit to me, but helps a lot in the war effort and will bring our boys back sooner; and that's what we want. Isn't it, girls?



Hank Fedziuk, Aero. Engr., Research Records

This war is being fought on two fronts, the home front and the battle front. It is the duty of every U. S. citizen not in uniform to support the home front, and one of the best ways to show his support is by the purchase of war bonds. Every LMAI employee should do his part by buying as many war bonds as he can possibly afford.



CLEVELAND CLIPPINGS

B-29 VISITS AERL: In its last issue, Wing Tips reviewed the Bulletin's article on the B-29. The giant Superfortress now spreads its huge wing span on the AERL hangar apron while laboratory research engineers work on further tests on this queen of the skies.

NACA GUEST OF WHK: On a program presented on the NACA under the auspices of the United States Civil Service Commission over station WHK in Cleveland, Mr. Sharp and the AERL Girls Glee Club represented the Committee. Mr. Sharp, when interviewed by Marianne Wulff, said "Right now, all the work of the Laboratory is concerned with winning the war. The Laboratory is working night and day to improve our planes, to make them safer and faster. We're doing everything we can to safeguard the lives of our Army and Navy men who are flying those planes."

LOBBY LINES: Lawrence Meem, Virginia Brigitwell, and Pearl Young bring back news of their recent visit with LMAI cronies.

FORMER SERVICEMAN: William Martz, former serviceman now employee at AERL, feels that his present role in the war effort at the Laboratory is equal in importance to his service in the armed forces. He says, "If these fellows here could only realize how much depends on them, now our fellows in the planes over there are praying for a little more speed or greater maneuverability - for any development at all that will give them an advantage over the enemy."

CAP INVITES LMAI WORKERS

A special meeting of the Civil Air Patrol will be held at the Hampton Armory on Wednesday, July 26, at 7:30 p.m. to acquaint LMAI employees with the purposes and the military training offered by the C.A.P.

8-FOOT DEFEATS FULL SCALE 4-3

Girls' Softball

Rain forced a postponement of several ball games last week, and consequently, only three games were played.

In a very close contest, 8-Foot High Speed nosed out Full Scale 4-3. Full Scale outnitted 8-Foot twelve nits to ten, but lacked the batting punch necessary to drive in the winning runs. Ralph Bielat and Cletus Vincke each collected a double off Jerry Brewer, who went all the way for Full Scale and who was charged with the defeat. Don Baals hurled for 8-Foot. Both teams played tight defensive ball with the only error of the game charged to Full Scale.

AWT edged out a 7-5 victory over Engineering last Sunday. Jim Scriven tossed a six-nitter in chalking up his sixth win on the season. Two of the nits were collected by Ilando Capolino. Jim Dawson was the losing pitcher.

In a game played last Friday, Flight Research overwhelmed Instrument Research by the score of 10-1. Fred Daum and John Bradley divided the pitching honors for FRD and together gave up six nits. Ray Hansen, pitcher for IRD, gave up ten hits during his stay on the mound. Bill Alexander, catcher for FRD, collected a single and a triple in three trips to the plate.

The game between West Area Shops and PRT was called in the fifth inning after rain enveloped the playing field. The game ended with the score tied 5-5. The game will be replayed at a later date as will the game between Stability and Tank.

The most crucial game of the season thus far will be played on Tuesday, July 25 at Darling Stadium when 19-Foot Pressure Tunnel meets East Area Shops. At present, both teams along with Structures are in a three-way tie for first place. A large crowd is expected to be on hand to witness this contest. Anshel Neinouse will umpire from behind the plate.

The schedule for the remainder of the week is as follows: Monday, FRD versus ALD; Wednesday, Engineering versus PRT; Thursday, Stability versus IRD; Friday, Full-Scale versus Structures.

Standings:

Pos.	Team	Won	Lost	Pct.	G.B.
1	Structures (8)	8	2	.800	-
1	East Area Shops (12)	8	2	.800	-
1	19' Pressure (14)	8	2	.800	-
4	AWT (6)	6	3	.667	1-1/2
5	Flight Research (13)	7	4	.636	1-1/2
6	Full-Scale (3)	5	4	.555	2-1/2
6	8' High Speed (4)	5	4	.555	2-1/2
6	PRT (10)	5	4	.555	2-1/2
9	Tank (5)	4	5	.444	3-1/2
10	Low Turbulence (7)	4	6	.400	4
11	Instrument Research (9)	3	8	.273	5-1/2
12	Engineering (1)	2	8	.200	6
13	Stability (2)	1	7	.125	6
14	Aircraft Loads (11)	1	8	.111	6-1/2

Post-War Research

Continued from page 1
auspices and the results made available to private industry to the extent compatible with security."

Of technological development, Mr. Patterson added: "This country enters the present war with some good airplanes but they could have been better and our tactical

advantages greater had we not been handicapped in pre-war years by the inadequacy of funds available for research and development. That must not happen again."

Inscription on the grave of an Army mule: "In memory of Maggie, who, in her time, kicked 2 colonels, 4 majors, 10 captains, 24 lieutenants, 42 sergeants, 486 privates, and 1 bomb."

H. J. E. Reid was on hand to witness the contest between Personnel and FGDA on Thursday, July 13. The final score was 9-7 in favor of Personnel. Frances Leigh pitched for the winners, and Virginia Tucker for the losers. Both were in good form, allowing only one walk each.

The game scheduled for Friday, July 14, between FRD-Tank-E. Machine and AWT was postponed but will be played off on Wednesday, August 2.

Monday, July 17, was contest day for 16-Foot and PRT with 16-Foot winning 14-4. Doris Topping, usual pitcher for PRT, was injured rather seriously before the game and rushed to the base hospital; she seems to be quickly getting back into shape, much to the relief and gladness of the League. Ann Cocke ably replaced Doris as pitcher for the game, and Ferne Driver hurled for 16-Foot.

16-Foot met FRD-Tank-E. Machine on Tuesday, July 18, and completely annihilated them by a score of 50-9. Ferne Driver was the winning pitcher, and Cynthia Lowe the losing. Adding to the excitement of the game was Maxine Horne's home run for 16-Foot.

AWT defeated Personnel with a high score of 21-1 on Wednesday, July 19. The highlight of the game came when, with bases loaded, Ann Timberlake slugged a nomer deep into right field. Margaret Farmer pitched for the winners and Frances Leigh for the losers.

P.S. Nancy Shelton, Personnel, will receive the Purple Heart for wounds incurred during the battle.

BUY MORE BONDS

INVEST 15 PER CENT EVERY PAY DAY IN BONDS

More do it, why don't you?

ALLOTMENT SCALE		
Annual Base Pay	Gross Semi-Monthly	15% Bond Allotment
8,000	359.51	60.00
7,500	338.68	52.50
7,250	328.26	50.00
7,000	317.84	50.00
6,750	307.43	50.00
6,500	297.01	45.00
6,400	292.84	45.00
6,200	284.51	45.00
6,000	276.18	45.00
5,800	267.84	45.00
5,600	259.51	45.00
5,400	251.18	45.00
5,200	242.84	37.50
5,000	234.51	37.50
4,800	226.18	37.50
4,600	217.84	37.50
4,400	209.51	37.50
4,200	201.18	37.50
4,100	197.01	30.00
4,000	192.84	30.00
3,900	188.68	30.00
3,800	184.51	30.00
3,700	180.34	30.00
3,600	176.18	30.00
3,500	172.01	30.00
3,400	167.84	30.00
3,300	163.68	25.00
3,200	159.51	25.00
3,100	155.34	25.00
3,000	151.18	25.00
2,900	147.01	22.50
2,800	141.94	22.50
2,700	136.87	22.50
2,600	131.80	20.00
2,500	126.73	20.00
2,400	121.66	18.75
2,300	116.59	18.75
2,200	111.52	18.75
2,160	109.50	18.75
2,100	106.45	18.75
2,040	103.41	18.75
2,000	101.38	18.75
1,980	100.37	15.00
1,920	97.33	15.00
1,860	94.29	15.00
1,800	91.25	15.00
1,740	88.20	15.00
1,680	85.16	15.00
1,620	82.12	12.50
1,560	79.08	12.50
1,500	76.04	12.50
1,440	73.00	12.50
1,380	70.00	12.50
1,320	67.50	12.50
1,260	65.00	10.00
1,200	62.50	9.38
720	37.50	6.25

Here are four more employees who are investing at least 15 percent of their pay in bonds. Here also are their reasons.

Helen Flanagan, Mathematician,
Aircraft Loads



C'est la guerre!
Hugh Watson, Purchasing Clerk,
General Purchase



I buy bonds because Uncle Sam needs the money now; I'll need it later. They're the only thing on the market that are worth what they cost.

Alvin Brittingham, Machinist, West Machine Shop



I don't know; it just seems the logical thing to do with money I don't need now. It's the best investment I know of, and since I'm working for the government, I don't mind lending it money.

Marilyn Lawlor, Payroll Clerk, Payroll Office



It's the best way I know of to save money. My husband is in the Navy and we're putting aside all we can for our post-war security. I'm no "flag waver" but if the government wants to borrow money, it's welcome to ours.

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Amount of semi-monthly allotment	Denominations of bonds purchased at various semi-monthly salary deductions.			
	Number of pay periods required to purchase a bond	Bond denominations purchasable under allotments indicated		
		\$25.00	\$50.00	\$100.00
\$ 3.75	5	1		
5.00	15			1
6.25	3	1		
7.50	5		1	
8.75	15	*7		
9.38	2	1		
10.00	15			**2
12.50	3		1	
15.00	5			1
18.75	1		1	
20.00	15			**4
22.50	5		**3	
25.00	3			1
30.00	5			**2
37.50	1		1	
45.00	5			**3
50.00	3			**2
52.50	5		7	
60.00	5			*4
70.00	15			**14
75.00	1			1
82.50	15		1	**16
100.00	3			*4

*Bonds may be issued and delivered as paid for.

**Bonds may be issued and delivered as paid for or dated back to the first of the month in which the average pay period falls.

Life At The Laboratory

PARTIES: The personnel of Construction Purchase had a beach party Sunday, July 16, at Grand View. The spread of picnic sustenance really looked like pre-war equipment, what with fried chicken, nam, hamburgers, and not dogs. Softball, swimming, and horseshoe pitching added to the fun day... The Aircraft Loads Division had an all day picnic at Virginia Beach last Sunday, so many going that it took two chartered yellow school buses to haul the load (no pun intended)... Stability Tunnel also joined the beach brigade, partying in a secluded spot at Grand View... Construction had a picnic on Sunday, July 9, at Yorktown... Girls of the Impact Basin gave a farewell party at the apartment of Mary Frances Mikell on Thursday evening, July 20, to honor Joyce Miller who is leaving the Lab soon to teach in Wisconsin. "Punk" Stewart, by virtue of her birthday, was also honored at the party... Flight Research Division picnic, which was scheduled for Saturday, July 15, but was rained out, will take place today, fate and the weather willing.

ILL WINDS: Allie Faye Ellis, Tank, is suffering from a severe cut on her arm received Sunday, July 16... Annette Coope, East Engineering, is back at the Lab after undergoing an appendectomy... Alfred Tankersley, Tank, is in the hospital being treated for an injured back... John Bradford, Tank, is convalescing in a hospital in Richmond... Lois Leftwich, West Machine Shop, is at her home in Bedford, Va. recovering from a Streptococcus throat infection.

ROMANCE: Clinton E. Brown, Supersonic Tunnel, and Jean Poytress, East Engineering, were married on July 12 in New York. The newly-weds returned to the Lab Monday, July 17. Bill Poytress, West Machine Shop, who is a brother of the bride was present at the ceremony.

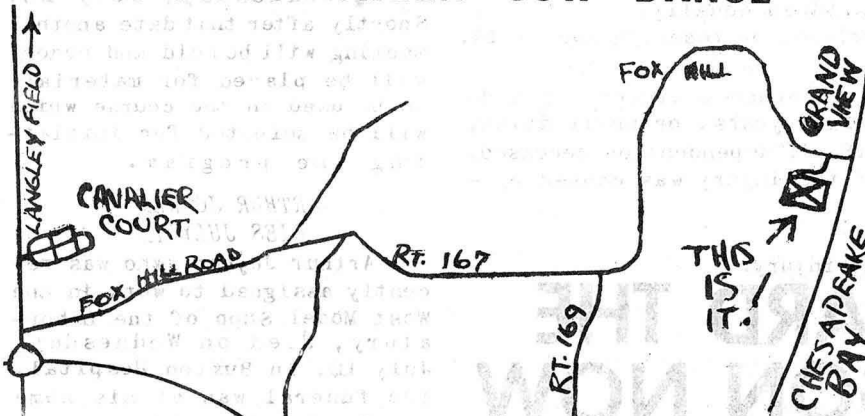
MISCELLANEOUS: West Sheetmetal Shop had a letter from a former employee, Sydney Powell, who is now taking up training at Bainbridge, Maryland... West Model Shop is rejoicing at the beginning of the construction of a new addition to the shop.

EASLEY COMMENDS LMAL ON DRIVE

James S. Easley, Executive Manager for the State War Finance Committee for Virginia, wrote the Laboratory on July 17 congratulating LMAL on the success of the Fifth War Loan Drive conducted here, which he considers "a most remarkable record of which I am sure you are proud."

To date, cash sales have totalled \$112,204.75 and allotments for June 1-30 and July 1-15 have added up to \$112,833.77. So far \$225,098.52 of bonds have been sold, which is well beyond our quota of \$219,106.39. The sale of bonds during this Fifth Drive will continue through July 31.

MAP TO GREEN COW DANCE



USO GYM CLUB HOLDS MEETING

A large attendance was on hand for the first regular meeting of the USO Gym Club. A temporary operating committee with sub-committees was appointed to take care of the immediate business of the club and to plan future activities. The club is preparing to provide facilities for athletic activities for all.

On Monday, July 24, at 7:30 p.m. there will be another exhibition on the high bar and also weight lifting before the meeting. The following men can be contacted for further information; Ray Murphy, E. Engineering; Bob Jeffries, IRD; Joe Mascio, E. Model Shop; Andrew Hayes, Research Records; Leonard Arnow, Aircraft Loads; Gene Allen, W. Electrical Office. All interested are invited to attend the exhibition and meeting, and it is hoped that every department and section on the field will be represented.

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APPLICANTS FOR CAPC AND ACER TO RECEIVE A FREE PLANE RIDE

Enlistment in the Air Corps Enlisted Reserve is once more open to qualified young Americans who want to win their wings on the "greatest team in the world", an AAF air combat crew.

If you are between the ages of 15 and 18, you can now begin to prepare yourself to qualify for the Air Corps Enlisted Reserve by enlisting in the Civil Air Patrol Cadets and receiving pre-aviation training.

Young men applying within the next two weeks will be given a flight in an Army L-3 liaison airplane flown by CAP pilots at Scott Field, Williamsburg.

Applicants may be interviewed at 211 Deal building, Newport News, or during the evening hours at the HRPE commissary building at 2506 Washington Ave., Newport News.

For additional information contact Fred Chalfont, East Model Shop, 254.

RIGHT TO COMPENSATION FOR PERSONAL INJURIES OF CIVIL EMPLOYEES

BENEFITS PROVIDED BY LAW

If a civil employee of the United States sustains an injury "while in the performance of his duty", he is entitled to

1. Medical, Surgical, and Hospital Service and Supplies, and Transportation if Necessary to Secure them.

Treatment must be obtained from United States medical officers and hospitals if practicable; if these are not available, then by physicians and hospitals designated by the Compensation Commission, a list of which will be found in the hands of the official superior or head of the establishment. Where there is no designated physician or hospital, or United States medical officer or hospital, any reputable physician licensed to practice medicine, or any hospital, may be employed.

2. Money Benefits While Disabled for Work.

Beginning on the fourth day of disability, or if leave with pay is taken, then on the fourth day after pay stops, and continuing throughout the entire period of disability.

If totally disabled, benefits to be at rate of two-thirds of the monthly pay (including value of subsistence and quarters if furnished), but not more than \$116.66 nor less than \$58.33 per month, except when the monthly pay is less than \$58.33, in which case the monthly compensation shall be the full amount of the monthly pay. If partially disabled, benefits to be at rate of two-thirds of the loss of wage-earning capacity caused by the injury. If loss of wage-earning capacity is permanent, compensation is payable till death.

3. Burial Expenses in Case of Death.

Burial expenses not exceeding \$200, and transportation of body of resident of United States dying away from home station, if relatives desire it.

4. Money Benefits in Case of Death.

Total compensation can not exceed two-thirds of monthly pay of deceased, which monthly pay for computing compensation shall be considered to be not more than \$175 nor less than \$87.50, but the monthly compensation can not exceed the the monthly pay.

To widow or wholly dependent widower, 35 percent of monthly pay of deceased employee until death or remarriage; and, in addition, for each child under 18, 10 per cent of monthly pay until death, marriage, or reaching the age of 18.

To one child under 18, if there is no widow or dependent widower, 25 per cent of monthly pay.

To each additional child under 18, 10 per cent

To be divided among the children equally.

To be paid until death, marriage, or reaching age of 18, to child's guardian.

Also compensation to parents, brothers, sisters, grandparents, and grandchildren, for eight years, or until death, marriage, or reaching the age of 18, if dependent on deceased.

No compensation is payable if the injury was caused by -

- (a) Willful misconduct.
- (b) Intoxication.
- (c) Intention to bring about injury.

GET ABOARD THE BONDWAGON NOW

BRAIN BUSTERS

The glider contest held Sunday, July 16, was marked by excellent weather and close competition. Jesse Shepard, West Sheetmetal Shop, emerged the winner in the catapult event with 1:46 for three flights to nose out Frank "the challenger" Cisco, Project Engineers, who garnered 1:38.

Dick "has been" Everett, Dynamic Tunnels Operation Shop, topped the hand-launched contestants with 5:53, followed by Fritz Breisch, West Machine Shop, with 4:50. Caldwell Johnson and Reid Hull, East Engineering, were third and fourth with 4:15 and 3:51, respectively. Fifth place went to Frank Cisco with 3:38. Cisco, by the way, finally broke even on his side bets and naturally is elated by such unexpected good fortune.

Further plans will be laid Sunday evening at 8:30 p.m. at the Industrial USO for the proposed meet to be sponsored by the Brainbusters early this fall. Full cooperation of all model builders will be required to plan this contest, and all are urged to attend this important meeting.

A number of club members are planning to attend the contest in Baltimore Sunday, July 30, but several have no rides as yet. Anyone planning to go to Baltimore on July 30 who wants riders, please contact Frank Parmenter at 340 or Paul Marchal at 251.

Military Training

From page 1

577 and leave their names before Wednesday, July 26. Shortly after that date another meeting will be held and orders will be placed for materials to be used in the course which will be selected for initiating the program.

ARTHUR JOYNER

DIES JULY 12

Arthur Joyner, who was recently assigned to work in the West Model Shop of the Laboratory, died on Wednesday, July 12, in Buxton Hospital. The funeral was at his home in North Carolina.