Tuesday, April 5, 1927

Mechanical Engineering School Laboratory Is Modernly Equipped Diesil of semi-Diesel gas engine. had slowed him up considerably.

great progress in the four years per minute. of its existence and the labped.

ing Department. The greater college laboratory, the first bepart of this space constitutes ing the one at the Massachuwhat is known as the steam and setts Institute of Technology. gas laboratory and is being paratus. Adjoining the main 175 pounds per square inch. Othlaboratory for light testing oiling system, special laborawork, such as the calibration of tory brake wheel and brake. instruments, flue gas analysis, Altogether, the engine is a beaufuel analysis, and fuel and oil tiful piece of machinery and a testing. Under a portion of the splendid example of the engine main laboratory there is a sub- builder's art. basement for condensers and water measuring apparatus.

Before the new space was Electric Company is now buildavailable, a twenty-five horse- ing for the University laborapower Chandler and Taylor slide tory a 25 kilowatt turbo-genervalve engine had been set up for ator set. The turbine will be a experimental work in the univer- two-stage machine of about 50 sity power plant. This engine horsepower capacity, running at has since been installed in the 3600 revolutions per minute new laboratory and provided The generator will be direct with a surface condenser and current, 250 volt machine. This other special features. The com- set, like the uniflow engine, is bination made possible a con-special unit for experimental siderable number of experimen- work and may be operated under tal studies of heat-power trans- a wide variety of conditions. formations. It provided, however, only for work of the most of a suitable surface condenser. for years in the future.

New Type of Engine The latest and most important addition is a uniflow steam

Organized in 1923-24 Term, It er than generally is desired com-

and began to offer degrees in the gine will deliver from 75 to 100 tion, air compression, heating in the event. 1923-24 school term, has made horsepower at 175 revolutions and ventilation. The steam and gas laboratory

This is the most modern type

When the new wing of Phillips an efficiency far superior to that cipal types of power plant ma-splendid time of 51 seconds, Hall was completed in 1925, lab- of any other type. Except in chinery that he will meet later, which tied the University recoratory space was made avail- the largest sizes, it is superior to either in the operating field or in ord for the event. Rhinehart able on the ground floor for the the steam turbine. It is the sec- the field of engineering design regularly runs the half mile, but use of the Mechanical Engineer- ond engine to be installed in any and manufacture.

ter the principles underlying the design and appropriate ap-The engine operates with or equipped for making experi- without steam cylinder jackets, plication of machinery. And so mental studies of power plant ap- and has steam pressure up to in the laboratory he is concerned mainly with those high scienlaboratory there is a smaller er features include an automatic tific studies that have to do with design, investigation, research and invention.

Carolina Licks V. P. I.;

(Continued from page one) In accordance with plans for future development, the General broad jump and javelin and a third in the low hurdles. Captain Montague of V. P. I. was second in scoring as a result of first in both dashes. Hoyt Pritchett's two-mile will go down in history as one of the

University. He was not pushed at all, finishing a good 200 yards in front of the second man, and

With the addition next year

elementary type and was but the laboratory will contain for the beginning of a laboratory studies on steam prime movers, development definitely planned a simple non-condensing steam engine of the most modern type, that is, the uniflow, and a condensing steam turbine.

Future Plans

The next step will be addiengine, built especially for laboratory work by the Titchburg tions in the gas engine field and Steam Engine Company of will include a high-powered auto-Fitchburg, Massachusetts. For mobile engine, complete with acthis type of engine, it is small- cessories and Sprague electric THE TAR HEEL

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made of the finest Turkish and do-

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dynamometer, a large stationary was bothered in the last two or PICKWICK THEATRE gasoline or oil engine and a three laps by a slight drizzle that Following the addition of gas Galen Elliott, holder of the "Almost a Part of Carolina" engine equipment, a complete conference mile and five mile Has Kept Pace With Rest of mercially. However, from the small steam power plant will be record, eased through the mile **TUESDAY, APRIL 5** SHOWS DAILY Florence Vidor, Clive Brooks and Mary Carr in "AFRAID TO LOVE" Pathe Comedy-"Do Your Duty" University-New Wing On laboratory standpoint it is any- installed. It will consist of a un allowing his teammates Russ 3:00, 4:45 Phillips Made Space Available thing but a toy, since the quan- vertical boiler and a steam en- and Tilley to take first and sec-6:45, 8:30 For a Commodious Work tity requiring measurement in gine, provided with accessories ond. He came back an hour and Room-New Machines Added, a test are as large as can be for complete power plant tests, a half later, entered the half WEDNESDAY, APRIL 6 handled, conveniently, in a lab- Looking still farther into the fu- mile for the first time this year, REGULAR Matinee Only Anna Q. Nilsson and Holbrook Blinn The School of Mechanical En- oratory. Depending upon the ture, it is planned to add appar- and breezed through in beautiful ADMISSION gineering, which was organized conditions of operation, the en- atus in the fields of refrigera- style, to set a new state record 10 and 25c "THE MASKED WOMAN" The 440-yard run was one of Candy, Popcorn, Cold Night Only Drinks, and Gum on Sale in Lobby. Harry Langdon in "HIS FIRST FLAME" the closest races of the meet. is being planned with a view to Hutchison of V. P. I. came up in oratories are being better equip- of reciprocating steam engine, giving the student some first the last few yards to take first the uniflow principle giving it hand experience with the prin- place from Rhinehart in the Peak, V. P. I., tied for first, Purser, 880-yard run, Elliott, Carolina, Carolina, third. Height, 5 feet 8 in. first; Hutchison, V. P. I., second; Cook, V. P. I., third. Time 2 minutes. Discus, Lund, V. P. I., first, Gray, (Betters state record.) V. P. I., second; Colburn, Carolina, Javelin, Sandlin, Carolina, first; third. Distance 141 feet 10 3-4 inches. (Betters Southern conference McEwan, V. P. I., second; Myers, was shifted to the quarter in the Carolina, third. Distance, 164 feet record.) 11 1-2 inches. Team score, Carolina The mechanical engineering Cadet meet to see what he could Broad jump, Sandlin, Carolina, first; 69, V. P. I. 57. student is endeavoring to mas- do. He came through brilliantly. Peake, V. P. I., second; Johnston, Carolina, third. Distance, 21 feet Summary by events: SENIORS TAKE NOTICE! 3 1-4 inches. 100-yard dash, Montague, V. P. I., All Seniors interested in en-440-yard dash, Hutchison, V. P. I., first; Shanklin, V. P. I., second; Gray, first; Rhinehart, Carolina, second; tering the try-outs of the Man-Carolina, third. Time, 10 seconds. Doughty, V. P. I., third. Time 51 sec. rum Medal Contest are requested One mile run, Russ, Carolina, first; Two mile run, Pritchett, Carolina, Tilley, Carolina, second; Elliott, Carto see the President of the Senior first: Daniels, Carolina, second: Penn, olina, third. Time, 4 minutes 39 sec. Class or Dr. McKie at once. V. P. I., third. Time 9 minutes 50 Pole vault, McFayden, Johnston and "RED" SMITH. seconds. (Betters Southern confer-Cowper (all of Carolina), tied for ence record.) first. Height, 10 feet 3 inches. Miss Kathleen Elmore spent 220 low hurdles, Giersch, Carolina, Shot put, Fussell, V. P. I., first; the week-end in Reidsville with first; Avera, V. P. I., second; Sandlin, Gray, V. P. I., second; Williams, Car-**Breaks Three Records** Mrs. C. W. Swan. Carolina, third. Time 26.2 seconds. olina, third. Distance, 41 feet 5 1-4 inches 220-yard dash, Montague, V. P. I. points collected from first in the first; Shanklin, V. P. I., second; Har-GEO. F. MESSNER WM. H. ROWN Everything on campus in past four years heated by us Carolina Heating & Engineering Co. rison, Carolina, third. Time, 22.6 sec 120 high hurdles, Pearson, Carolina, HEATING, VENTILATING AND POWER PIPING first; Purser, Carolina, second; Cald-Phone 1466 Durham, N. C. well, V. P. I., third. Time, 16 sec. High jump, Pearson, Carolina and SENIORS DR. R. R. CLARK DENTIST greatest races ever run at the Stop at Jack Lipman's and arrange your Office Over Bank of Chapel Hill order for Senior hat and cane. **Telephone 385** Clarence Whitehill, Celebrated Baritone A Star of the Metropolitan Opera Company

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Page Three



Chance whitelies

