

UNC Battles Tough Deacs On Thursday

by Bill Peacock

The Carolina basketball team, which is currently sharing first place in the conference race with State and South Carolina, has only one game this week, but it is with dangerous Wake Forest and is played on the Deacons' home floor.

The Tar Heels, whose 65-59 victory over Clemson here Saturday gave them a perfect conference record of five wins and no losses, will have to be at their best to defeat Wake Forest. A Carolina loss would leave State (5-0) and South Carolina (2-0) as the only undefeated teams in the conference.

Tonight Carolina will become the co-holder of the conference lead because State and South Carolina play in Charlotte. The Wolfpack, present conference champions, will be a heavy favorite to win.

Deacs Are Inexperienced

The Deacons have an inexperienced team dependent largely on freshmen and sophomores, but they are very tough in the cramped confines of Gore Gymnasium. They have not done well on the road (their last game was an 80-61 pasting by Georgetown in Washington, D. C.) but they have given State and Duke close shaves at home.

West Virginia, led by All-America center Mark Workman, is looming larger each day as the team that State must win to keep the title. In their last two starts, the Mountaineers have blasted undefeated NYU, 100-75, and highly-rated Niagara, 74-71. Against Niagara Workman scored 36 points.

Conference fans will get a line on William and Mary (1-2) Saturday when the Indians play State in Raleigh. Ex-coach Barney Wilson said before the season that he expected to have one of the finest teams in the school's history. This week's conference games:

The Schedule

Tonight: South Carolina vs State at Charlotte, Richmond vs George Washington, and Furman vs Clemson. Thursday: Carolina at Wake Forest. Friday: South Carolina at Furman, The Citadel at Davidson, George Washington at Washington and Lee.

Saturday: George Washington at VMI, VPI at Washington and Lee, William and Mary at State, The Citadel at Clemson.

SC Race

Team	W	L	Pct.	PF	OP
State	5	0	1.000	386	290
Carolina	5	0	1.000	365	288
S. Carolina	2	0	1.000	152	117
W. Virginia	5	1	.833	463	384
Maryland	4	2	.667	316	276
Furman	5	2	.600	330	390
Duke	3	3	.500	504	410
G. W.	2	2	.500	306	328
W. & M.	1	2	.333	199	194
Wake Forest	1	2	.333	200	211
Davidson	1	4	.200	293	384
Clemson	0	1	.000	59	65
Virginia Tech	0	1	.000	53	78
The Citadel	0	2	.000	125	163
Richmond	0	2	.000	128	145
W. & L.	0	4	.000	221	256
VMI	0	4	.000	193	314

(correct through Saturday's games)

MURALS

The table tennis deadline has been extended to Thursday, January 10.

There will be a manager's meeting Thursday, Jan. 10 at 7 p.m. in Room 304 of Woollen Gym.

Basketball

4:00 p.m.—Court No. 1—Sig Chi-1 vs SAE-2; 2—Kap Psi-1 vs Phi Kap Sig-1; 3—DKE-1 vs SPE-2; 4—PIKA-2 vs Zeta Psi-1.
5:00 p.m.—Court No. 1—Beta-1 vs Chi Psi-2; 2—Phi Gam-3 vs Phi Delt Chi-2; 3—TEP-2 vs Phi Delt Theta-2; 4—Theta

Freshman Forward Al Lifson Chosen DTH Athlete Of Week

Carolina's freshman athletes, who have been hogging the headlines this year, added another one of their numbers to the growing list of stars when Al Lifson won the Daily Tar Heel Athlete of the Week Award with a near unanimous vote.

A 6 foot 2 inch, 185 pounder from Elizabeth, N. J., Lifson has been one of the big men in Carolina's steady climb to the top of the conference race.

The Man To Watch

Lifson was branded as a boy to watch when he went on his scoring spree in the Dixie Classic, leading the Tar Heels to a surprise third place finish. He scored 46 points in three games.

In his last two outings he was high scorer against Maryland with 14 points, and tied



AL LIFSON

for high against Clemson with 17.

A real scrapper, Lifson gave Coach Scott the needed fifth man for his fast moving attack, something the Tar Heels have been missing since Hugo

Kappler was injured early last season.

Second In Scoring

At present the youthful Lifson is second in the Carolina scoring with 147 points in 12 games for a 12.3 average. His 17 point output last Saturday night moved him ahead of Jack Wallace who used to hold the number two spot.

Wallace took second place in the voting, beating out Howard Deasy by a single point.

Wallace led the Tar Heels last season as a sophomore, and is near the top this year. He has 145 points in the twelve games thus far.

His real value to the team is shown in the fact that he leads the squad in assists with 39 and is second in rebounds with 77.

Wallace Improves

The tall forward seems to have finally found his form of old as he scored 17 points against the Tigers. He played the entire game against Clemson.

(See LIFSON, page 5)



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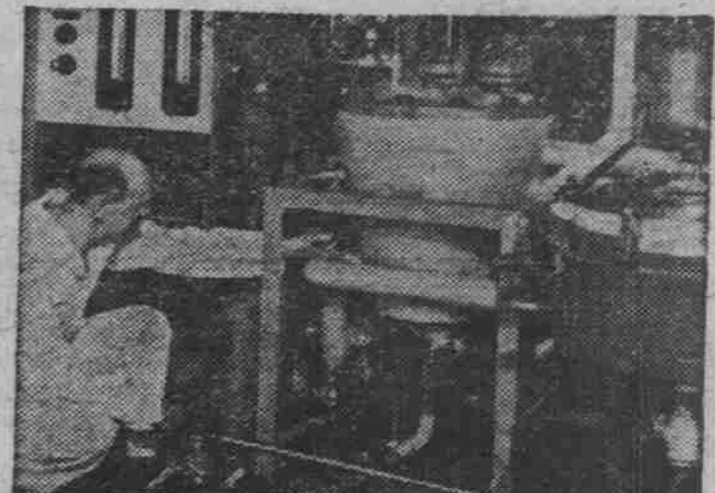
New products mean new opportunities for chemical engineers



STUDYING "Teflon" tetrafluoroethylene resin insulating material with special apparatus: K. F. Richards, B.S.Ch.E., Cornell '48; and E. K. Holden, M.S.Ch.E., Delaware '48.



CHECKING a multi-stage carbon-monoxide compressor used in semi-works operations: R. L. Stearns, B.S.Ch.E., Yale '49; and H. Peterson, B.S.Ch.E., Northeastern University '42.



CHEMICAL engineers supervise preparation of larger-than-laboratory batches of chemicals in Du Pont's Special Service Laboratory.

[FIRST OF A SERIES]



CHARGING experimental polymers to spinning machine: O. C. Wetmore, Ph.D.Phys.Ch., New York U. '44; D. A. Smith, B.S.M.E., Purdue '40; and C. O. King, Sc.D.Ch.E., Michigan '43.

To you as a student chemical engineer, what does this statement bring to mind:

Nearly two-thirds of Du Pont's current sales are in products entirely or virtually unknown in 1930.

Likely it suggests years of solving intriguing engineering problems, the designing of unique equipment, the carrying out of reactions under extraordinary conditions.

But it should also suggest the opportunities that will come to chemical engineers in the future. For at Du Pont, new and better products are continually being developed. From today's extended program of fundamental research you can expect more neoprenes, more nylons, more plastics like "Teflon" tetrafluoroethylene resin.

As these products come out of the laboratory, they will bring with them a succession of interesting and challenging problems for the chemical engineer. Problems that will arise out of their very newness.

For instance, take nylon, the first

wholly synthetic organic fiber. In working out techniques for its commercial manufacture, there was practically nothing to go on. The compounds of which it was made, hexamethylenediamine and adipic acid, were essentially laboratory chemicals. Processes had to be devised to make them from cheap raw materials—benzene, hydrogen, air and ammonia. Large-scale preparation of nylon salt from amine and acid required going beyond the classical unit operations.

Here for the first time it was proposed to extrude a fiber with extreme accuracy from a melted polymer at 290°C. At this temperature the polymer decomposes slowly. It had to be melted, pumped at 5000 p.s.i. pressure through microscopic holes and cooled in a hurry. Otherwise the fiber would emerge discolored.

The Du Pont chemical and mechanical engineers and other men and women who worked with them ran into one difficulty after another. More than once they thought that the

project would have to be abandoned.

However, it is basic in Du Pont people's philosophy not only to take on difficult pioneering problems, but to see them through. With nylon, this persistence paid off handsomely.

Is this the kind of problem you'd like to attack, the kind of people you'd like to work with?

NEXT MONTH — Opportunities for chemical engineers in research and development will be discussed in the second article in this series. Watch for it!

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