

'Pigskin Prophets' Ends Season; Venture Drew Great Response

By Jim Wangersheim

"All good things must come to an end"...and like most every successful venture, you gotta sit around and have one last "bull session" about it. Leave us not be different.

Hardly an original idea, though new to a college newspaper, 'Pigskin Prophets' made its initial bow in *Technology News* in the October 8th edition. Totally unprepared for the tremendous surge of interest of the student body we had not planned to offer many valuable prizes at that time. However, much to our surprise, when more than 200 entries came pouring into the boxes, we had no alternative, but to 'up the ante'.

With the cooperation of the makers of Chesterfield cigarettes, we were able to secure tickets for all the remaining Chicago Bear and Cardinal home football games.

No Tickets For Deciding Game

Since the western division of the National football league has been such a red hot race all season, each of these grid battles was a "do or die" affair for all concerned. As it looks from here, the deciding game will be the tilt between these intercity rivals. Tragically enough, the college football season will have ended by that time, and we will be unable to present a suitable contest card. With the announcement of the winners of the November 22nd contest, in which the entries numbered over 600, 'Pigskin Prophets' brings to an official end a highly successful inaugural season.

This is also a perfect time to thank all of those who showed consistent interest throughout. We certainly will be looking forward to next year's gridiron season.

Whether it will be advisable to continue during the basketball schedules has not been decided yet.

Rules Changed

The winner of the October 11th contest was senior IE Herb Zaltzman, who not only picked winners, but had to be accurate with all 12 of the scores. Such colorful games as Illinois-Army, and Purdue-Notre Dame were on this card. The rules were changed for the October 18th battles, when Marshall Stein, a sophomore ME found it necessary to pick two scores out of the 12 in order to win on a perfect entry. He was the only entrant out of what now numbered 400 who picked the unexpected win of SMU over the Rice Owls.

The contest of October 25th was marked by two stunning upsets, as the Lions of Columbia tripped mighty Army for their first loss in 34 starts, and the surprising Purdue Boilermakers outlasted Illinois. Despite these losses, Bill Riley, a senior ME, walked off with the tickets for the Los Angeles Ram-Chicago Cardinal game, our first ticket prizes. With

this the number of entries passed the 500 mark. J. H. Rohlf, a junior CE, saw the thrilling Bear-Green Bay battle, by winning the November 1st card.

The same Packers returned to Chicago to play the Cards, and this game was witnessed by senior ME Osmund Orland, who headed a list of 36 perfect cards for the week of November 8th.

"Monk" Molitor, a junior Met. E. major, turned in a near perfect card in the November 16th contest, as he missed only the Iowa-Minnesota score. Tickets for the Chicago Bear-Pittsburgh Steeler tilt were his "spoils." T. L. Smok, W. Mitchell, W. Greenberg, D. Felsenthal, B. Zimmerman, M. Stein, Sid Doppelt, M. Zaretsky, H. Himmelblau, R. Kravis, C. Kalenian, and J. Armstrong followed in that order, each receiving Chesterfield cigarettes.

Pi Tau Sigma Expands

The Delta chapter of Pi Tau Sigma held a formal initiation of the largest pledge class in its history. The new members, 22 in number, including Dr. Ralph Owens were initiated in the Chicago Room of the La Salle Hotel on November 21.

Radio Fraternity Has Fourteen Men In Pledge Group

Rho Epsilon, honorary radio fraternity, has pledged fourteen men.

Chosen from the student body on the basis of their scholastic ability, interest in radio, and campus activities, these men were guests at a smoker held last week in Rho Epsilon's quarters.

The new pledges are Charles Allen, Robert Amstutz, Sam Balai, Sherwood Benson, Wilbur Elias, Fred Faulkner, Arnold Harrison, Raymond Preston, Robert Roderick, Charles Schram, Isaac Steinhoff, Robert Swartwout, Emil Tanana, and Roger Wolff.

During their pledge period, the men must complete radio projects that will later be used by the fraternity on the school.

Soon under way will be construction of meters and indicators, erection of a new television antenna, and installation of a public address system to provide FM music and ITSA announcements in the South Union.

Getting Married?

If you are getting married during the Christmas Holidays, see the story on page 1, col. 3.

Reorganized Dramatech To Present Play Dec. 16; "Dust Of The Road" First Production On Roster

"Dust of the Road" by Kenneth Sawyer Goodman will be the first play to be given on December 16 by the reorganized Dramatech. The play has been completely cast and rehearsals are taking place regularly.

There is still a demand for technicians in stage lighting, stage design, and set construction. Prommen and costume experts are also needed.

Anyone interested in these positions should contact one of the committee members so that they may attend the tours of amateur acting companies and professional stage

plays that are being arranged. Dramatech meetings are held on Thursday at 11 a.m. in 102C.

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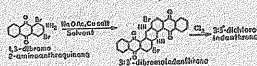
Development of dyes requires both physical and organic chemistry

The synthesis of a new dye in the laboratory or even the development of a manufacturing process from that synthesis may still be a long way from the realization of the full potentialities of the new compound as a coloring material. This is illustrated by the commercial history of the exceedingly fast bright blue dye indanthrone and its halogen derivatives.

Indanthrone was the first known anthraquinone vat dye and has led to tonnage sales of vat dyes in the U.S. since its introduction, despite the commercial use of well over 200 types. In 1901, Bohn first synthesized indanthrone by KOH fusion of 2-aminoanthraquinone, but the yields obtained were in the range of only 25-30 per cent. Because of the industrial importance of indanthrone, and the low commercial yields obtained by the original fusion procedure, a great deal of research time has been spent in its study.

Several U.S. patents record the fact that Du Pont organic chemists have made outstanding contributions in this

field, particularly by developing the intercondensation of 2 moles of 1,3-dibromo-2-aminoanthraquinone and replacing the bromine by chlorination to give 3:3'-dichloroindanthrone ("Ponsol" Blue).

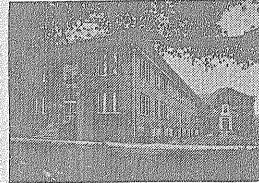


This fixes the chlorine in the desired positions to give a product with greater bleach-fastness than indanthrone and minimizes extraneous substitution that always accompanies direct chlorination of indanthrone. The commercial yields of 3:3'-dichloroindanthrone now being obtained by Du Pont are markedly greater than those obtained by Bohn and his workers.

It is just as important, however, that a water-soluble dye be made in a physical form that gives optimum shade and working qualities, such as perfect dispersion, freedom from specks, rapid re-

ducibility and storage stability. A significant Du Pont contribution to the production of vat dyes in optimum physical form is called "turbulent flow dyeing." In this procedure, the color is dissolved in strong H₂SO₄ and then diluted by a large volume of water in a constricted tube. High turbulence is maintained during dilution and produces uniform dye particles.

In this development the work of physical chemists and physicists, aided by electron microscopy, ultra-centrifuging, infrared and ultra-violet spectrometry and other modern techniques, was of major importance.



One of the three wings of the Jackson Laboratory, where a large portion of the basic research on dyes is carried on. The new \$1,000,000 addition on the right is nearing completion.

The conversion of laboratory findings to a plant operation often presents unique and difficult problems that require unusual ingenuity on the part of chemists, chemical, mechanical and electrical engineers. The work on the indanthrones was no exception. The outstanding commercial success of "Ponsol" vat colors, typified by "Ponsol" Blue is one example of the results achieved through cooperation of Du Pont scientists.

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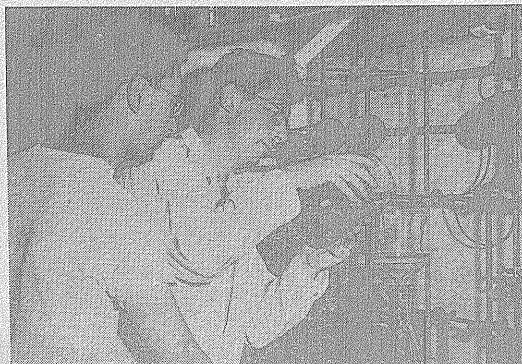
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W. R. Romington, Ph.D., University of Chicago, 1944, and S. N. Boyd, Ph.D., University of Illinois, 1945, working on a dye research problem.