

Coach Stenger's First Season Gives Cagers Eight Victories

Total of Season Is Eight Wins Against Seven Losses

Under the direction of their new coach, Grant Stenger, the Techawk five completed a heavy schedule of fifteen games, duplicating last year's record of eight victories against seven defeats. Although not a spectacular season, the showing was unusually good in the face of a change of coaching staffs, and the loss of Capt. Heike for the last four games. The team played steady and consistent ball, with scores ranging from 39 points against both Wheaton and Macomb, to a 21 point trouncing by their traditional jinx, North Central, to close the season. Other than the last mentioned whitewashing, the quintet suffered no appreciable defeats other than a 12 point upset by Beloit College. Of their seven defeats, five were less than nine point losses. Six of the eight wins were made on the home floor, showing an increased school spirit in following the team.

Techawks Conquer De Kalb

The team started well, nosing out a snappy DeKalb Teachers five, 29-25. Evidence of Grant Stenger's new coaching technique was apparent in the team's cooperative playing. Playing man to man defense, the Techmen put up a formidable blockade, destroying the set-up aspirations of their opponents. Unused to other than the second team's opposition, the Tech offensive was slow, but deliberate, the local boys having control of the situation throughout, in spite of the narrow winning margin.

Repeating last year's visit, Arkansas State again met defeat, to the score of 37-28. Capt. Heike took

scoring honors with six buckets and three free tosses, while Merz and O'Brien netted nine and eight points apiece. An unexpected Lake Forest triumph, on their first out of town game set the Techawk off to a string of three defeats. In spite of Heike's sixteen points, an early lead gave Lake Forest a large edge. Armour caught up to the North Shore quintet on a dizzy splurge of shooting by O'Brien and Merz, but failing to drop a free throw lost a chance to tie it at 32 all, in the last minute of play. The Beloit tilt was an unexpected setback, but the playing of the Golden, and the engineers' seeming lack of initiative found them at the short end of a 46-34 tally.

Chicago Rallies Over Armour

Things looked gloomy for the men in the Midway when Armour led the University of Chicago 19-17 at half time. However, superior height and a well staged comeback gave the Maroon quintet a 33-28 victory, after a stubborn defense by the Techawks, cheered on by a large crowd of students, alumnae and parents attending the first annual Dad's Night.

Armour opened the new year by reaping revenge on both Lake Forest and Beloit for their defeats met earlier in the season. They ran over Lake Forest 36-27, with O'Brien chalking up 13 points and Henrikson 11. Beloit took a decided whipping on their own floor, with every Armour man scoring one or more baskets. The visit to Macomb ended in a defeat only after a hectic and exciting battle. Armour was greatly disadvantaged with the elimina-

tion of four men on personal fouls, after they had caught the leaders and tied them up midway in the second half.

The opening minutes of the tilt with Wheaton promised a bang up basketball game, but the Tech five gradually pulled away, Merz dropping six buckets and O'Brien four. At no time did Wheaton even threaten the lead after the first half.

The Michigan State Normal quintet of Ypsilanti was continually on the losing end of a 31-22 score on the Armour floor, and bowed again to the black and yellow a week later on their own floor, 38-33 in a return engagement. Captain Heike came down with a case of flu midway in the eastern trip and was out for the remainder of the season. Detroit University piled up an early lead of seventeen points at half time. After O'Brien was eliminated on personals, a short but futile Tech rally left them trailing 40-30 at the whistle.

Cardinal Game Tops Card

The Techawks played their most brilliant game of the season against their traditional North Central foes. Both teams were exceptionally cautious on the defensive, and consequently had to rely on long shots for scoring. Merz dropped five long ones, and O'Brien hooped three. Armour led at the half, 17-15. Schifler's deadly long shots counted heavily in the Cardinals' scoring. With seconds to play and trailing by one point, Wagner made a final try at victory from mid-floor, but his shot caught the rim and rebounded as the whistle blew.

A rough scramble with Macomb, ending in 39-30 victory, squared up the defeat suffered earlier in the season at the hands of the Western State Teachers. The season's finale was a decided denouement, as North Central piled away a 30 point lead in an uneven 51-21 duel, surprising both themselves and their opponents with their expert shooting.

Hougen Describes Chemical Failures

"Early Failures in Chemical Engineering" was presented to the members of the A. I. Ch. E. last Friday in Science Hall by Dr. O. A. Hougen who recently joined the Armour faculty. Dr. Hougen is a member of the department of chemical engineering and will be connected with the Armour Research Foundation.

In his talk the speaker discussed the construction and operation of a nitrogen fixation plant that took place during the World War. Many of the mistakes in its construction and maintenance were revealed to the students who attended the lecture.

Following this, Professor Harry McCormack was called upon to present Sigmund J. Moleculeski with the award merited by the outstanding sophomore in the chemical engineering option. This award, which consists of a medal and a document of recognition was made for scholastic achievements. Moleculeski was recently selected as the outstanding sophomore in the organic chemistry laboratory for which achievement he was presented with a copy of the "Handbook of Chemistry and Physics."

Plant Eng.—

(Continued from page one)

These weekly conferences are the first of their type to be conducted in Chicago. The main idea of the meetings is to cooperate with the mature executive beyond the need of classroom rule. Included among the sixty to eighty-five men who attend each meeting are vice-presidents, factory managers, purchasing agents, comptrollers, plant engineers, and factory executives. Each represented company has a membership in the class which entitles it to send its rep-

Electric Controllers Subject of Lecture

"Electric Controllers in Industry," was the subject of a lecture delivered by Mr. A. A. Piper, district manager of the Electric Controller and Manufacturing Company, at the last meeting of the Armour branch of the A. I. E. E.

Following his introduction by Chairman Holmes, Mr. Piper explained the construction and operation of several different types of starters, and pointed out the manner in which starters differ from controllers. A starter merely acts to get the motor in operation, while a controller may vary the speed, stop, or reverse the unit.

representatives to each meeting.

All the discussion and speeches are printed in a weekly report which is sent to all the membership companies. The meetings are opened at 7:30 after the members have dined together at the hotel, and closes about 9 o'clock. Professor Dutton said that expressions of appreciation have been received by many of the participating concerns.

The following companies own memberships in the class: American Steel Foundries, Armour and Co., Bauer and Black, E. J. Brach, Central Steel and Wire Co., Chain Belt Co., Chicago Bridge and Iron Works, Chicago Extruded Metals Co., Chicago Flexible Shaft Co., Chicago Rapid Transit Co., Corn Products Refining Co.

Crane Co., Economy Fuse and Mfg. Co., Electric Household Utilities Corp., Felt and Tarrant Mfg. Co., Foote Bros. Gear and Machine Corp., Illinois Bell Telephone Co.

Inland Steel Co., International Harvester Co., W. A. Jones Foundry and Machine Co., Link Belt Co., Miehle Printing Press and Mfg. Co., Milcor Steel Co., Pullman Standard Car, Reliance Mfg. Co., Republic Flow Meter Co., Revere Copper and Brass, Inc.

A.I.Ch.E. Visits Inland Company

Tire-making in its various steps was investigated by the Senior Chemicals during an inspection trip to the Inland Tire Company Plant under the guidance of Prof. McCormack and Dr. Hougen last Thursday, February 25.

Beginning with the mixing operation, the plant routine was traced through the various steps of tire-making to the finished tires ready for shipping. In the first operation, that of mixing the waste sheets, raw rubber was mixed with sulphur, carbon black and other materials. The stock was then rolled into sheets on mills to final size.

View Rolling Operations

Following mixing and rolling operations tire production of parts was inspected. One department prepared sheets of rubber with cord between the sheets, another prepared fine wire covered with rubber for the backbone of the tire. The key process, that of tire building, was essentially a hand operation. Passenger tires were prepared on drums over which wires covered with square threaded cord was placed. Next the obliquely-threaded cord sheets were placed over the wires and successive sheets were placed with thread in opposite directions to give the "cord tire" its strength.

Vulcanization is Final Step

Over the cord sheets went a "cushion," this being a sheet of pure gum to absorb shocks. Finally the thick rubber piece on which treads are molded was put on, and for certain tires side walls were added.

The final operation was vulcanization or curing. Assembled tires were placed in molds and twenty molds placed in a single vulcanizer. The molds were held under a hydraulic pressure of 1800 pounds per square inch, and under steam at 40 pounds pressure for one hour to accomplish curing.

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