

REVIEWS

VOCATIONAL GUIDANCE IN EDUCATIONAL LINES

The Mack Printing Company, Easton, Pennsylvania

"Vocational Guidance in Engineering Lines" represents the most elaborate effort so far made to assemble comprehensive descriptions of all different branches of engineering in one text. This book, sponsored by the American Association of Engineers, and edited by a committee of which Dr. J. A. L. Waddell is chairman, fulfills a need long apparent to educators and engineers having occasion to advise young men in their choice of a profession. The avowed purpose of the book is to attract to the engineering profession those especially fitted for success in the field and to discourage from entering it, the indolent, unambitious, and otherwise incompetent or undesirable young men. Wide circulation of this book among prospective engineering students should go a long way toward carrying out this objective.

"Vocational Guidance in Engineering Lines," is a text of 506 pages profusely illustrated with photographs of outstanding examples of the engineer's work. Each of its sixty chapters is prepared by a well known specialist in the field covered. No single engineer could hope to be well informed on all the phases of engineering dealt with in this text. In addition to discussions on the major branches, good descriptions are given of many special fields. Some of these are wartime engineering, military engineering, aerial photographic surveying, aeronautical engineering, agricultural engineering, automotive engineering, foundation engineering, geological engineering, industrial engineering, telephone, telegraph and radio engineering, and valuation engineering. All discussions are written in straightforward non-technical terms and can be as readily understood by the beginner as by the professional engineer.

Although the book contains chapters on many specialized branches of the engineering profession the editors and the contributors have been careful to discourage the engineering student from excessive specialization at too early a stage. The importance of the fundamental scientific subjects is emphasized throughout. The whole book is a good example of the engineer's use of English.

Other interesting features of the book are the chapters on engineering ethics, engineering compensations and the appendix containing biographical sketches of some seventy contributors to the text.

"Vocational Guidance in Engineering Lines" is a book that should be read, at least in part, by every engineering student. It will prove especially valuable to the freshmen in making his choice of the major engineering option he expects to follow and to the senior or recent graduate in selecting a field of specialization.

Begin Measurements For Senior Jackets

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mittee is judging on designs which are simple but modernistic and good-looking.

R. Ekroth, chairman of the committee, hopes to have a design which will please the whole class. The committee has examined bids of several companies and will continue to do so until a completely satisfactory and original design is selected.

Other Committees Active

Although the work of the other committees is not pressing so early in the year, they are both in action. The committee on photography is rounding out its duties at the present time. Bids from several photographers have been received and considered. The committee, headed by T. C. Peavey, will meet in the very near future to decide upon the choice of photographers.

E. W. Gossweiler, chairman of the committee on caps and gowns, announces that although no actual choice must be made on the subject of the graduation ceremony apparel until next semester, the committee is on the alert for advantageous offers.

Baker Addresses F. P. E. S. Meeting

At the meeting of the Fire Protection Engineering Society held last Friday, Mr. Baker of the Fire Insurance Company of North America gave a talk on "Mutual and Reciprocal Competition."

Mr. Baker began by saying that competition between stock companies and mutual companies has always been very keen. The main cause for this competition is the non-governmental regulation of mutual and reciprocal companies. They are able to cut down their expenses in view of the fact that they do not aid the community in which they work in any manner, whereas the stock companies help to contribute to the fire protection of the town.

Four Types of Companies

The four types of insurance companies discussed by Mr. Baker are these: stock, mutual, reciprocal, and Lloyds insurance companies. He said that in the first type, the insured is completely protected by the company against possible loss due to fire, while in the others, the insured bears the burden of protection by himself. It is quite common to have several companies hold jointly the policy on a single risk. In the case of mutual companies, if one fails, the insured has to stand the loss, while in the case of stock companies, one out of several failing, the other companies in the contract take up the burden, so that the insured does not have any loss.

Mutual Companies Discussed

Although mutual companies use practically the same rates as stock companies, mutual companies return dividends at the end of the year.

This is providing the company makes money during that year. In the event that the mutual companies suffer heavy losses, they assess their insurers according to the necessity. Stock companies neither pay dividends nor do they make any assessments. Mr. Baker said, however, that, although this was the practice of mutual companies, some of them never have had the need to make any extra assessments, therefore their insurance is just as good as that of stock companies. As mutual companies must keep their expense ratio as low as possible, they do not have agents to help their insurers in case of need. Due to the lack of agents, mutual companies do not spend the time to service risks. In the case of a risk being improved many years after it was rated for insurance, a mutual company would not change the rate of insurance, while a stock company would do this.

Characteristics of Reciprocal Companies

In reciprocal companies, says Mr. Baker, your insurance cost is not stable. Also in this type, you have to pay assessments at the end of the year, although there is a possibility of being reimbursed in the form of dividends. All the expenses must be born by the subscriber and the subscriber must bear in mind that his premiums must cover all damages to risk other than fire loss. In this company the subscriber has a liability that cannot exceed much more than ten times the original premium.

Stock Companies Are Strong

Stock companies, according to Mr. Baker, deal directly with the insured and this is very important in the case of building changes. This close contact between the insured and insurer is an essential thing, although mutual and reciprocal companies lack this.

The following are the reasons Mr. Baker gave for taking out insurance in stock insurance companies: they are strong; they have agents to aid the public; they have a fixed and fair cost with no extra assessments; they are supported by capital investment; they support the locality in which they write insurance; and they have competent agents in all communities; whereas the mutuals maintain none of these qualities.



By Ray Fleissner

NEXT!

Now that the University of Chicago and George Williams College have fallen before the onslaught of the Tech cagers, the next opponent in line is none other than our old jinx, North Central of Naperville. The game is scheduled for tomorrow on the Naperville floor, and promises to be a real battle. Our sendoff—

—BEAT NORTH CENTRAL—

is a tough job for the engineers. The North Central team has the advantage of its home floor and in addition is playing practically the same team that beat us twice last year. It's about time this out of town aggregation was taken down. So—

—BEAT NORTH CENTRAL—

The Hawk team is beginning to click and if it continues the good work, our hopes will be fulfilled. In the high-scoring George Williams game, after an early scare, the boys began to mesh their plays and repeatedly came up until the opponents couldn't take it any more.

All Heroes!

It was impossible to pick out a star, because every Hawk did his share and then some. Beginning with acting-captain "Pop" Warner—his pep throughout the game kept his teammates on the run, and six free throws out of eight chances is a strong percentage. His running mate at the start of the game was Mickey Lukas, who showed much improvement and scored three pretty ringers and a gratis toss in the short time he played.

Passing Improves But Still Erratic

Al Lauchiskis proved his mettle at center. He played a consistent game and scored several of his famous shots under the loop. The rest of the starting line-up consisted of Christoph and Heike, and it sure is hard to land these boys. Christoph was the scrapper of the team, was all over the floor, and though he didn't play the full game either, scored five baskets for ten points and second high point honors.

—BEAT NORTH CENTRAL—

Pardon the interruption. A newcomer on the team by the name of Gene Heike, the former Parker High School star, took away high point honors with five ringers and three free throws. His consistent play and fast, shifty action, put him up as the find of the season. He is a dead eye on shots over his shoulder with either hand.

Dollenmaier Off Of Injured List

Hopes for a successful season were raised when Coach Krafft sent in Harry Dollenmaier, the Libertyville flash, in the second quarter of the game. He had not been out for practice until the night before the game and consequently much was not expected of him. But he sure put it over. His defensive game was perfect and besides, he put in two beautiful shots of his own graceful style. His return will do much to bolster up the team.

—BEAT NORTH CENTRAL—

It will take a lot more than height to beat the Tech team, as four of the Hawks range well over six feet. Al Lauchiskis is three inches over the six-foot mark, while his understudy, Bob Merz, a newcomer from Oak Park, tops him by an inch. Mickey Lukas and Gene Heike tip the rules at 6 feet 2 inches.

And when it comes to Warner, Christoph and Dollenmaier, they make up for height by some tall jumping. Christoph's feet have been seen above the shoulders of players around the basket. As a consequence very few shots have been made off the board by opposing teams.

—BEAT NORTH CENTRAL—

Boxing Tournament Shifted to December 18

Due to several difficulties, including the Musical Club's trip to Kanka-

ARMOUR CAGERS DEFEAT CHICAGO MAROONS AGAIN

(Continued from page 1)

when "Big Boy" Peterson made good his chance from the free throw line after being fouled by "Pop" Warner. Christoph a few moments later found himself confronted with the same opportunity and tied the score at one apiece. After several minutes of cautious and not especially brilliant play, Gene Heike, who was becoming by this time slightly peeved by the fact that he hadn't broken into the scoring column as yet, untied the score with the first of his eight points from the free throw route.

Pflum then made his only point of the game when the referee called a foul on Eldred for trying to play "horsey" with Ray. With the score three to one in Armour's favor, Christoph came up with two of his special brand of short baskets and ran the count to seven to one in favor of the Tech team.

Warner Out on Fouls

The Chicago team finally awoke to the fact that they were dropping behind in the scoring and led by Peterson and Flinn began to fight back. Peterson connected for two points with a pretty one-handed push shot from the side and then added two more points to the Chicago score when he was fouled by Warner and made good both chances. Flinn helped the Chicago cause by making good his gratis toss on "Pop" Warner's fourth foul.

Harry Dollenmaier was sent in by Coach Krafft to take Warner's place and promptly made the score board read 8-6, Armour, by converting another of the 22 Chicago fouls into a point. Kaplan, fast little guard of the Maroons, tied the score for the second and last time in the first half with a nice, effortless basket from about 25 feet out.

Techawks Lead at Half 16-11

After the Chicago flurry had subsided, Armour soon forged ahead on baskets by Dollenmaier and Heike. Gene ran the score to 14 to 9 when Kaplan committed his fourth personal offense and had to retire from

the game. Beeks replaced Kaplan. Christoph then made his third and last basket of the game by batting one through the hoop in a mad scramble under the Chicago goal. Peterson was responsible for the final score of the half by getting another one of his one-handed heaves to go through the hoop and bring the score to 16 to 11 in Armour's favor.

Second Half Starts Slowly

The first scoring of the second half was done by the Armour team, Heike converting one of two chances after being fouled by Wegner. Peterson contributed his final bit of scoring to the Maroon's total by making good on both free throw chances after being held by Christoph. Wegner then proceeded to get very warm and in the next few minutes of the game carried the brunt of the Maroon offense on his capable shoulders. He popped into the basket a short shot and very soon thereafter tossed in a nice one from about 30 feet out from the basket. His efforts changed the readings on the scoreboard to Armour—17, Chicago—16.

Heike, however, again repeated his stellar performance at the free throw line and Armour Tech had the lead by three points. Wegner was not through shooting, though and he finally dropped one in to again bring Chicago within one point of Armour. At this point in the game occurred the most exciting and also best playing of the forty minutes playing time.

Exciting Play in Second Half

A fighting Tech team was continually fighting off an equally hard fighting Chicago team which was determined to win. They realized that at this point, midway in the last half, was their chance to win or lose the game.

With the score 19-18, Armour, Lauchiskis got too rough with Peterson, who was given a chance at a free throw but missed. In the excitement of the moment Beeks of Chicago wrapped his arms around Dollenmaier's head in a rather unloving fashion (almost a la "Strangler" Lewis) and as a result Harry added two more points to the Armour reading on the big scoreboard at the east end of the field-house.

Chicago Ties Score

Chicago finally succeeded in tying the score at 21-21 on fine work by Flinn and Wegner but the fast pace of the game was beginning to tell and Armour called time out to organize that last minute drive.

Shortly after time had been called in Dollenmaier, going at full speed, one-handed a beautiful shot through the hoop, which took the heart out of the Chicago team. From then on, the game was all Armour. Wegner chalked up the Maroon's last point with a charity point toward the end of the game, while Al Lauchiskis, Heike, and "Dolly" made the Techawks' remaining points.

Pflum's Floor Game Outstanding

The most prominent part of the Tech drive in the last quarter was supplied by Ray Pflum, whose floor game sparkled brilliantly as ever. To heap praises upon an athletic team, it has been said, is not good for the morale of the team and for

BOX SCORE

CHICAGO—22	G.	F.	P.
Eldred, f.	0	0	4
T. Flinn, f.	0	0	1
Merrifield, f.	0	0	0
Dorsey, f.	1	4	4
Stapleton, f.	0	0	0
Peterson, c.	2	2	2
Wegner, g.	3	2	3
Kaplan, g.	2	1	4
Beeks, g.	0	0	3
Flinn, g.	1	0	1
Grandahl, g.	0	0	0
Totals	8	6	22

ARMOUR—27	G.	F.	P.
Heike, f.	1	8	1
Merz, f.	0	0	0
Christoph, f.	3	1	2
Lukas, f.	0	0	0
Lauchiskis, c.	0	1	2
Warner, g.	0	0	4
Dollenmaier, g.	2	4	2
Pflum, g.	0	1	0
Totals	6	15	11

Two hundred and twenty-seven of the University of Iowa professors, associate professors, and assistants have received in all 665 degrees, each of which, according to the professors' own valuation, is worth \$1,504.

Famous Last Words:

—BEAT NORTH CENTRAL—

Interfraternity Teams in Opening Cage Skirmishes

Phi Pi Phi, Defending Champ, Shows Strength

Preliminary skirmishes in "Interfrat" basketball resulted in several closely contested games and an overwhelming victory by the tournament favorites, the Phi Pi Phi five. The first contest was staged between the Delts and the Rho Delts and was won by Delta Tau Delta, due mainly to the shooting of Streb and Doane, who scored ten points each to account for all the scoring by Delta Tau Delta.

BOX SCORE

DELTA TAU DELTA—20	B. F. P.
Streb, f.	5 0 0
Davis, f.	0 0 0
Doane, f.	4 2 1
Gallagher, c.	0 0 0
Lowry, c.	0 0 0
McAuliffe, g.	0 0 0
Bacci, g.	0 0 0
Tomei, g.	0 0 0
Totals	9 2 1

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the future success of the team, but, nevertheless, Coach Krafft's men won and they deserve some credit.

The Chicago team last Saturday evening was an improved team when compared with the one which played North Central the week before, and yet, unless Armour's passing improves somewhat the Tech team is going to have a difficult task downing the strong Naperville outfit tomorrow. With Ray Pflum back in the lineup though, this will improve and then, watchout North Central.

After the basketball game, many of the spectators stayed in the field-house to watch George Lott, American Davis Cup tennis star, play an exhibition match.

Play North Central Wednesday

This Wednesday evening the Armour Tech cagers travel to Naperville and play their third game of the season with the strong North Central five. After losing two close and hard fought contests to the North Central team last year, the game this Wednesday should be of considerable interest. The Techawks will be out to avenge last year's defeats, which were lost in the closing minutes of play.

Armour Lost Two to North Central Last Season

As is the case this year, the first game of the North Central-Armour Tech two-game series last year was played at North Central. In that game the Armour Engineers built up a nice lead in the first half of about eleven points, only to see the red and white basketweavers of North Central put on a flashy spurt in the second half and eke out a victory amid the hysterical and joyful cheering of the hometown spectators.

The result of last year's second game was practically the same, although the manner in which the Naperville team achieved it was slightly different. If our memory doesn't fail us, this game was closely contested all the way, with North Central again pulling out on top. Incidentally, North Central was the only team which Armour played last year that won both games played.

From the facts just mentioned and because of the fact that the North Central team is composed of veterans from last year's squad, it seems especially desirable that Coach Krafft's men defeat the team out of the northwest suburbs.

Naperville is Strong

The strength of the North Central aggregation is shown by their defeat of the University of Chicago five by a 29 to 17 count. North Central led all the way, with the score at the halfway mark being 14 to 6.

Such veterans as Yuknis, sharp-shooting forward, who was high point man in the Maroon game with thirteen points, Berry, another forward, Dillon at center, and Young and Spiegler, guards, make the North Central team a powerful aggregation.

"BEAT NORTH CENTRAL"

It is hoped that Captain Ray Pflum will be ready for the game Wednesday evening and make Armour's chances for victory all the better, but no matter who is injured, or who plays, we say "Beat North Central."