

## Buick To Receive Inspectors From Summer School

### June H. S. Graduates To Receive Training

An elaborate full-time engineering training program is being planned for the coming summer. Approximately 600 full-time students are expected to be on hand, enrolled in five different programs of instruction. In most cases, the training is being directed towards the purpose of producing technicians for the great Buick Aircraft factory which is now being erected in Melrose park.

A group of about 180 students will be trained to qualify as engine testers, under the direction of Professor Roesch. Every airplane engine must be subjected to a preliminary test, after which it has to be torn down and completely inspected. If the parts are all in good shape, it is then re-assembled, subjected to a final test, and it is then ready to take its place in a bombing or pursuit ship.

The testing will be done in special test cells, equipped with noise reducing baffles so that the deafening roar of the engines will not disturb the entire neighborhood. There will be at least twenty-four of these test stands at the Buick plant in continuous operation. The power produced by the engines will be absorbed by alternating current generators, and pumped back into the Edison Company's lines.

#### June's Grad To Be Chosen

The test men will be recruited from the June graduating class of the technical high schools, and will be given an intensive program of instruction, directed specifically towards their particular duties. The course will consist of four hours per day of classroom instruction, and three hours per day of laboratory and drafting work, for ten weeks during the summer. Upon the completion of the course, these students will have the opportunity of going to work in the Buick company in the capacity of engine testers.

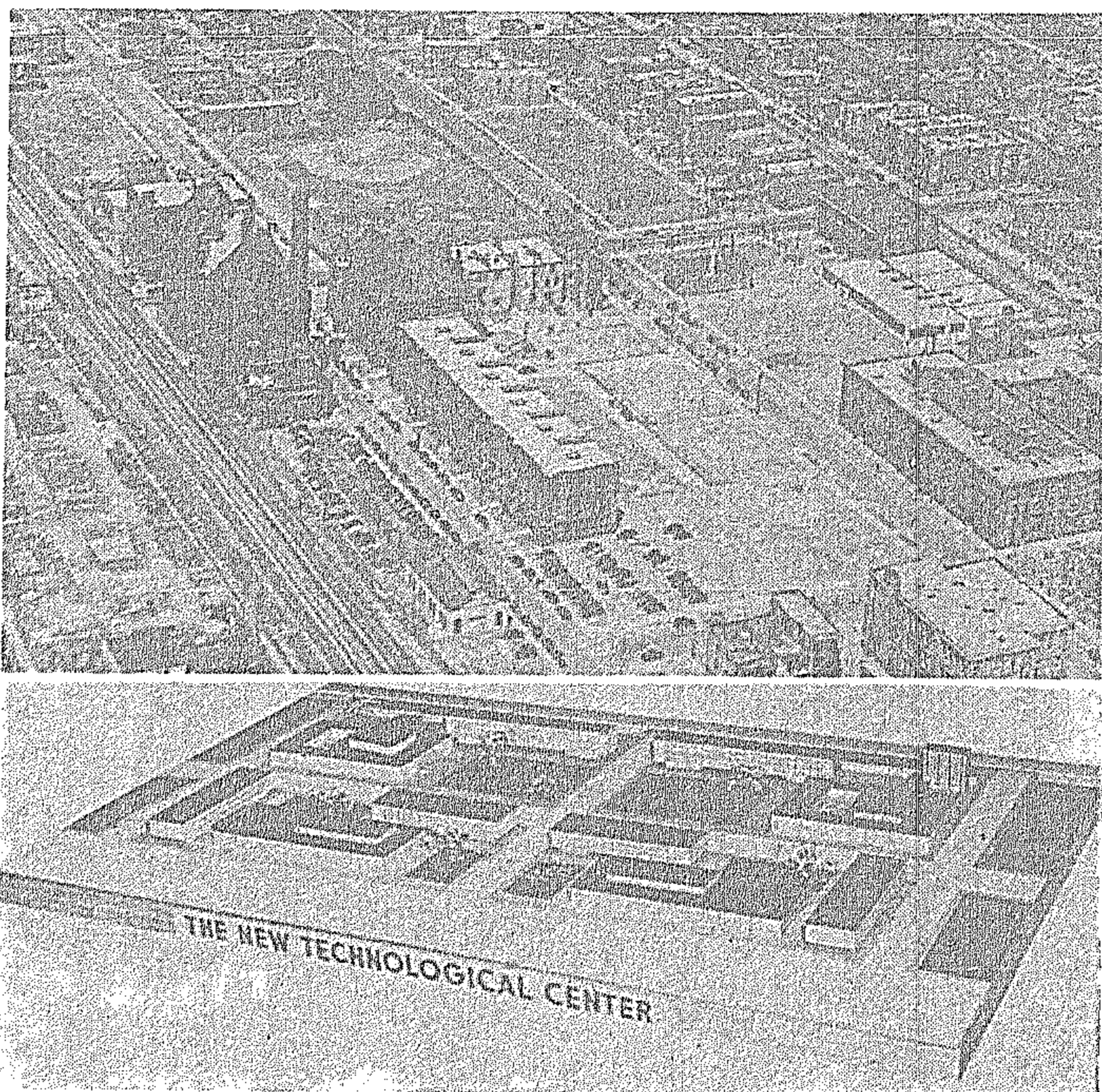
Two groups of inspection will be trained, one in Metallurgical Inspection and the other in Production Inspection. The metallurgical inspectors will take a general course in physics, mathematics, and inspection methods, as well as specialized work in metallurgy under Professor Carpenter. The factory inspectors will take work in production methods and advanced inspection methods under Professor Kozacka.

The fourth group will consist of mechanical designers, who will take a somewhat fundamental course in physics, mathematics, but who will specialize in engineering drawing, and elementary machine design. Professors Winston and Seegrast will be in charge of this course.

The fifth group, much smaller than the others, will consist of students who will study heat-treating equipment, and temperature control apparatus. Heat-treating is of tremendous importance in the production of airplane engines, and these men will find employment as experts in the care of heat-treating equipment. Prof. Carpenter will be in charge.

Requirements for entrance into these courses will be simple but specific. The students must be native-born American citizens, high school graduates, above eighteen years of age, and in good health. They must not be planning to enter college. This latter restriction is necessary because it is not desired that this opportunity interfere with the enrollment in the regular engineering schools.

## ILLINOIS TECH BEFORE AND AFTER



Aerial photo by Bob Anderson shows Armour College as it appears today. Photograph of model shows how new Technological Center will look. The new campus will occupy four blocks bounded by the railroad tracks on the West, State street on North and South, respectively, and divided by 33rd and Dearborn streets. The field house and athletic field (not shown on model) will be off to the right between 32nd and 31st streets. See story on page one.

## All Phases Of Science And Art Covered At Lewis Open House

Open House at Lewis Institute of Arts and Sciences on Monday is outstanding for the diversity of the exhibits illustrating the scope of the various departments. Because of the work of Mr. Lee F. Supple, who heads the faculty committee in charge, the cooperation of both faculty members and students this open house has been made possible.

Work of students in design, interior decorating, and costume design will be displayed by the applied art department in room 616 on the sixth floor. At the east end of the fifth floor, home economics girls will welcome all visitors to their department. Students of the dietetics, nutrition, meal preparation for family groups, and tea-room management classes will explain the work now going on. In room 408, summer dresses will be modeled by their makers at two, four, seven, eight, and nine o'clock.

Chemistry exhibits may be found in rooms 510, 514, 516, 530, 536 and 538. A connected story of the work of the chemist, with a series of demonstrations illustrating his tools and techniques, will be shown. Exhibits include the role of energy in chemical reactions, the synthesis of useful compounds, modern analytical procedures, textile fibres, plastics, biochemical developments, and physical chemistry in the study of gaseous, liquid and solid states. Electroplating and glass blowing will also be demonstrated. In the research laboratories of the chemistry department, room 240, the work of the research chemist will be illustrated. Mathematical figures and demonstrations will be exhibited in 537.

Rooms 401 and 402 will house the psychology department's exhibits. Apparatus bearing upon experimentation with sensory processes, emotions, learning and the testing of individual differences will be displayed and explained. Equipment used in the study of industrial efficiency, music, lie detection, reaction time and motor skill will be demonstrated.

The physics demonstrations and exhibits on light, rotational dynamics, various models of geysers,

and the application of physics to other fields will be found in rooms 431, 432 and 435.

Biology displays in room 412 and 416 include plants and animals from the unicellular to types with many cells and complex organs. Students of embryology will exhibit the embryos of vertebrates, such as man, pig or chick. Physiological properties of living cells will be shown in the inter-relations between animals, and plants will be demonstrated by examples of parasitism and symbiosis. Students will demonstrate the methods of preparing plant and animal tissue for microscopic study.

The department of education's exhibit will be found in room 407 where questions concerning the work will be answered. At the east end of the third floor, in rooms 301 and 302, the business and industrial management co-operative classes will display exhibits which present the firms co-operating with the course.

First editions, published literary work of students and faculty members, and books and manuscripts of alumni will be exhibited by the English department in the library on the third floor. Spot maps, sociological and historical works will be displayed by the history and social science department in room 336, while work typical of the business and economics department will be displayed in room 337.

Engineering students will demonstrate their work in the machine shop, room 545; the electrical laboratory, room 348; the metallurgy laboratory, room 143; and the welding laboratory, room 645.

Alumni are invited to visit room 313, the publications and activity office, where all the *Lewis Annals* from 1903 to the present, as well as a complete file of the *Technology News* will be displayed.

To enable the visitors to view the exhibits to the best advantage, usherettes in white uniforms will direct them throughout the building. All students wearing white uniforms will be glad to be of service to visitors, and members of the faculty will answer any questions.

## Instructions Left For Substitute By Clock-Checker Bill Laube

(The following is a list of instructions left by the clockroom attendant to be carried out in his absence.)

8:00—Sweep the floor. Then open up.

You all know about hanging coats — just remember: no hats can go on numbers divisible by 5. Rather take it easy with a crowd, and be sure every hat and coat is correctly placed (i.e., don't mix 253 and 254 up), and you save yourself trouble later.

The sheets (one for each day) for ping-pong, baseball, and horse-shoe reservations are placed under the telephone. The ping-pong paddles are marked A, B, C and D (B is in Jesse's hands tonight and one of his is here — correct that tomorrow morning) B is not marked so legibly, and the "D" might wear off. Just so you know them.) Today's sheet has been left for you to study—I notated it in red.

Ping-pong balls: 10c deposit a piece—no donations. They're 40c worth of balls there—40c worth must still be there (in balls, dimes, or both) Sat. morning.

Allison's & Sonny's orders, both: Someone must be inside or, in sight of all entrances of the clockroom every minute of the day.

Baseball: The bats can go to anyone, upon his signature with his dept. and yr. (i.e., John Jones, ME 3) But the balls in the boxes must not be given out except for tournament games. Each new ball is good for two games, at least. Let them practice with it when it gets too soft. Use your head on other details, and don't let anyone fluster you.

(Will pay you all Mon.)

(Signed) WM. C. LAUBE JR.

## HELM OF A.I.C.E. TAKEN OVER BY ART MINWEGAN

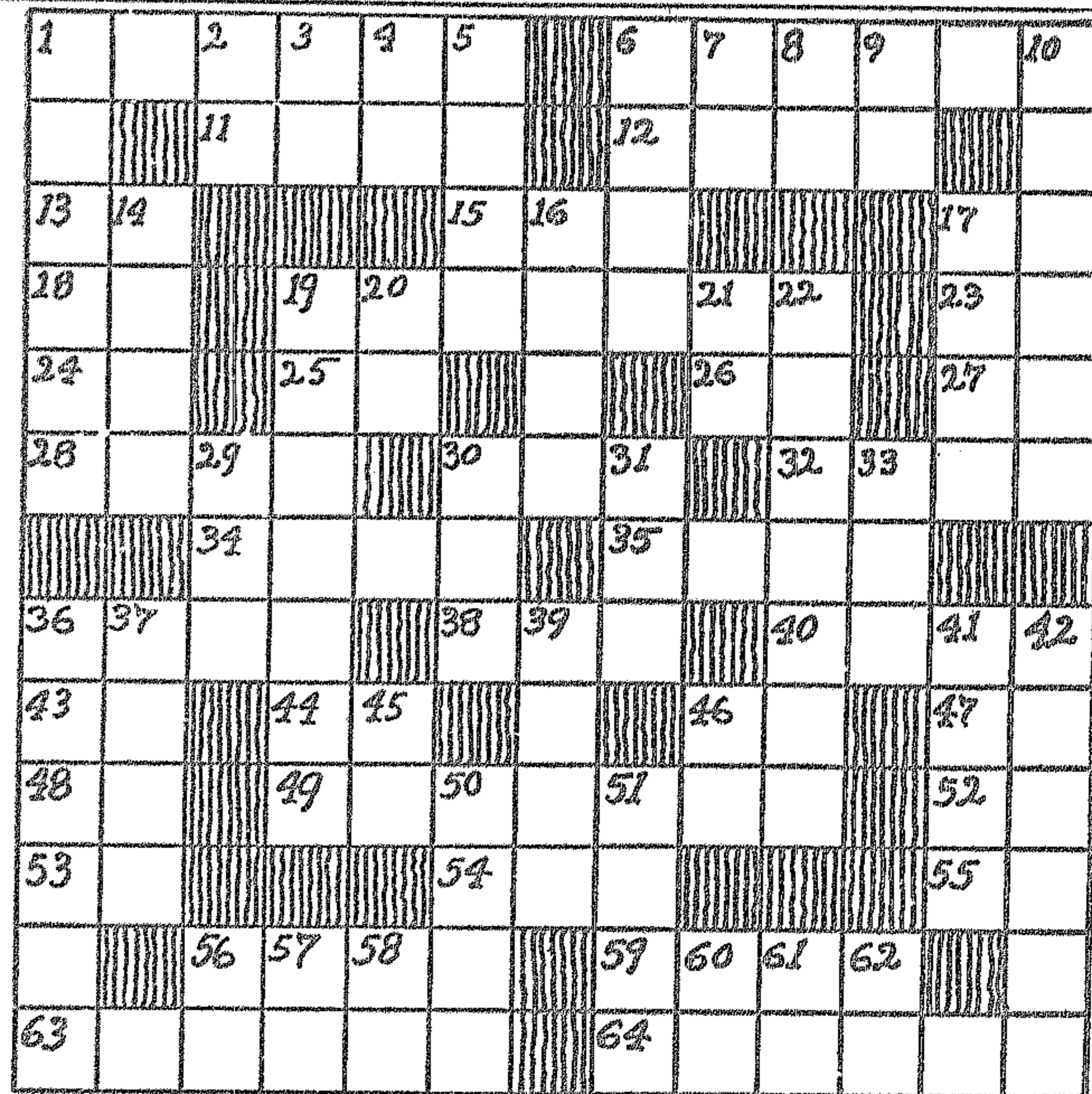
Arthur Minwegan was elected president of the AICE at a meeting of the society Monday, May 27. At the meeting, held in 220, Chapin Hall at 10, Chi Epsilon also pledged five men. Chi Epsilon is the honorary civil engineering society at IIT.

LeRoy Goetz, past president of the AICE, opened the meeting. The pledging of the five initiates followed. Each received the official pin of Chi Epsilon. The senior pledges are Irving Joseph and Harry Role, the juniors are Earle Huxhold, Milton Pleva and Herman Tachau. John Martin, president of Chi Epsilon, gave the official address to the five new members. Over fifty members of the society were present. Seven new officers were elected. Arthur Minwegan was selected as president; Ray Leibbrandt as vice-president; Melvin Johnson as treasurer; John Jackiniec, secretary; Mario Silla, assistant treasurer. Charles Ball and Milton Pleva were selected as WSE representatives.

The Musical Clubs will offer many new numbers at their annual spring concert Thursday night.

#### PROGRAM

Overture "Il Guarany" .....	Gomez
Men of Harlech .....	Welch
My Thoughts of You .....	Miller
To a Wild Rose .....	MacDowell
Grecs .....	Rachbach
Sweet Little Woman O' Mine .....	Bartlett
Absent .....	Motcraft
To Spring .....	Grigor
Russian Dance .....	Gilbre
Armour Song .....	DeKoven
Selection "Student Prince" .....	Romberg
Alma Mater .....	



#### Horizontal.

- 1—Container for boiling water
- 2—To search out
- 11—Eyes (poet.)
- 12—Old
- 13—That thing
- 15—Help
- 17—Initials of a President
- 18—Proceed
- 19—Sagacious or wise
- 23—Land measure
- 24—That man
- 25—You (arch.)
- 26—Conjunction
- 27—Note of scale
- 28—Former Russian ruler
- 30—Stick for (contracting balls)
- 32—Is not (hit) (abbr.)
- 34—Tardy
- 35—White cereal used by Chinese for principal food
- 36—Unruffled
- 38—Period of time
- 40—To grow together, as bones after a break
- 42—Part of "to be"
- 44—Same as 13 horizontal
- 46—Boy's name
- 47—Company (abbr.)
- 48—Exist
- 49—Varied
- 52—Work (abbr.)
- 53—Preposition
- 54—Greek letter
- 55—Notary public (abbr.)
- 56—At another time
- 59—To bridge a gap
- 63—Soundless

#### Vertical.

- 1—Medieval warrior
- 2—Preposition
- 3—Same as 17 horizontal
- 4—Pound (abbr.)
- 5—Biblical character who sold his birthright
- 6—To lose color
- 7—For example (abbr.)
- 8—Note of scale
- 9—Highway (abbr.)
- 10—Tower of a fortress or castle
- 14—Pedal digits
- 15—Concept
- 17—Small mountain pool
- 19—Ancient Egyptian monument with triangular faces
- 20—Note of scale
- 21—Negative
- 22—To fall in a thin stream
- 29—Everything
- 30—Couch
- 31—To attempt
- 33—Japanese coin
- 36—Rude houses made of logs
- 37—So be it!
- 39—To encourage
- 41—Image
- 42—Silk hat (slang)
- 45—Note of scale
- 46—Like
- 50—Opening
- 51—A file
- 56—Boy's name
- 57—Point of compass
- 58—Preposition
- 60—Father
- 61—Land measure
- 62—New Latin (abbr.)