

Spring Concert Pleases Large Group in Union

Smiles and sighs were drawn from the capacity audience by the Musical Clubs, last Thursday evening, in the fifth annual Spring Concert and Inter-Fraternity Sing. Each of the seven social fraternities drew enthusiastic applause in response to their excellent vocal renditions of the songs near to their hearts, but the judges unanimously agreed that for the third consecutive year Phi Kappa Sigma led the other fraternities in this event.

Dressed in White

Dressed all in white, Armour's handsome Junior Marshalls courteously and efficiently served as ushers and had seated the audience in most of the available space, by eight-ten. The visitors for the evening's entertainment were predominantly the mothers and lady-friends of the boys, rather than the fathers and boy-friends. Dancing in the lounge after the Concert may have been the reason for so many beautiful young women, here at Armour.

Wearing dark suits, black bow ties, and white shirts and trousers, the men in the Orchestra and Glee Club took their places at eight-twenty; the Glee Club on the stage side, the Orchestra arranged in front set off by potted palms on either of the Auditorium stage. For a few minutes instruments were tuned, then amid thunderous applause Mr. O. Gordon Erickson, Armour's Musical Director, mounted the podium, paused with raised baton while the Glee Club stood up; then upon his cue, the Music Clubs burst forth into the Armour fight song. Though this was a surprise opening, the audience immediately rose in a body and joined with the glee club, making an impressive sight.

William Tell Overture

The "Overture to William Tell" by Rossini demonstrated the abilities of each section of the orchestra. Soon, smiles appeared on the faces of the audience;—a tribute to modern radio advertising, as well as the excellent performance. "We're all jolly fellows," next began the glee club, rising to render in a skillful blend of voices the composition by Rhye-Herbert. The familiar "Bird Songs at Eventide" brought out on the faces of the audience thoughtful glances, and memories to the minds of the men who associate many happy occasions with this piece. Stepping down to the center of the stage Robert Hemmen, a basso with notable spirit in his voice, led the glee club in the singing of the "Song of the Vagabond."

In answer to many requests, the musical clubs next performed "Roll Cruiser Roll." This was written by Mr. Gordon Erickson especially for the Research Foundation's most famous problem. Next a French Horn quartet entertained the audience with their beautiful rendering of a quite difficult piece.

Playing the perhaps less well known, but ever so beautiful, compositions of Edward German, the Shepherd's Dance and the Morris Dance from the "Henry VIII Dances," the Orchestra seemed to respond instantly, but gently to the former, with lively enthusiasm in the latter, to every subtle motion of Mr. Erickson. These two numbers were exceedingly well done and received tremendous applause.

Marshals Take Over

Mr. Frank Pfeffer, chief Junior Marshall, then took over the next portion of the program, the Inter-Fraternity Sing. During Mr. Pfeffer's explanation of the Sing to the visi-

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Student Union Lobby, 9-2

Johnny Gilbert Casts Spell at Westward Ho

As fitting a finale to any Junior Week was the class of 1941 Junior Informal, held last Friday evening at the Westward Ho Country Club. The informal provided a perfect evening of relaxation from the arduous labors of Open House as Johnny Gilbert and his natty outfitted band supplied the music.

300 Couples Attend

Although high onto 300 couples were present at the gala affair, there was sufficient room in the club's combined floor space of verandas and room to make dancing enjoyable. Difficulties were experienced at first with the public address system, but matters were soon taken in customary stride. The presence of the portable bar served as a welcomed oasis to all.

Fresh, Sophie Bury Hatchet

Every class, department, and branch of the administration were well represented at the dance. The rapid transition of the freshmen and sophomores, many of whom were bespattered with various sundry articles such as 20 day old eggs, molasses, mud, and straw a few hours before the informal was astounding as they appeared with beaming faces and well combed hair.

Senior Mechs Do It Again

As usual, the senior mechs brought innovation into the party as various M.E. students brought forth engineer's caps. Not satisfied with this display, the mechs gathered around the mike and led by Weissman of "My Heart Belongs to Daddy" fame, rendered the popular Tennessee ditty "The Martins and the Coys."

Electrical Depts. Astonish Visitors With New Devices

Sending sound across a light beam—cooking meat from the inside out between cold plates—putting your voice on a steel wire—making radio tubes sing like violins, banjos, trumpets, or pianos—these were a few of the exhibits in the electrical department's display at Open House last Tuesday and Wednesday.

Upon entering the dynamo lab in the main building, the first thing seen was a long flashlight with a bulb whose light seemed to vary with the volume of music that originated a few yards away. Inspection showed it to be an eight-cell flashlight, whose bulb was lit by six cells plus a current diverted from a radio loud-speaker. A photo-electric cell and an amplifier then played the music as the light dictated.

Show Doctors' Methods

A few steps farther revealed a high frequency current oscillator similar to the type doctors use. The things it did, besides cooking the meat, included lighting some mercury vapor tubes and an incandescent lamp by induction, when placed properly, and generating a fever in a hand laid upon a bakelite enclosed coil. The bakelite casing was cool, but heat seemed to develop within the hand, and remain as a fever for several minutes afterwards.

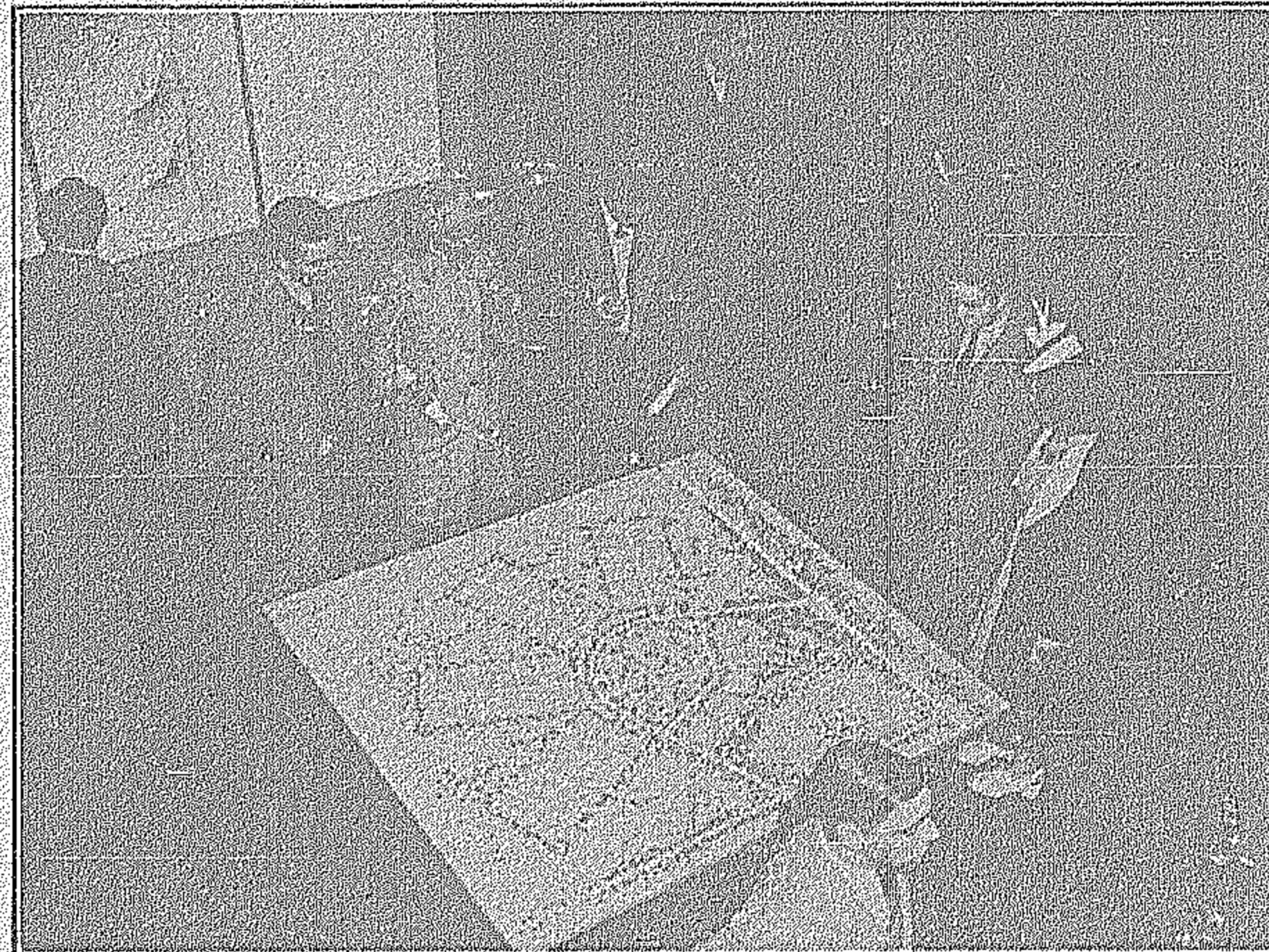
Persons who pedaled the stationary bicycle in the center of the room generated a current by means of the small generator attached to its back wheel. The power, even from the most vigorous fellows, rose little above 180 watts, while it lit a bulb or two.

Operators Perform

A coffee can, pivoted in the center of its base, whirled dizzily within a doughnut shaped coil when three-phase current was applied to the coil. A radio amateur operator here, another in the lounge, and a third up in Chapin Hall, talked among themselves and sent souvenir messages back and forth for the visitors. Some of the messages are on their way to outside locations.

In the second floor lab were a pair of teletypewriters which wired mes-

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Open House visitors view architects' model of Kenosha, Wisconsin replanned to obviate all unpleasantnesses.

Town Modeled In Arx Exhibit Music Lads Go To Milwaukee

One of the most outstanding displays of the entire open house program was that given by the architects in their "design art of construction" exhibit. Occupying two rows and the lobby of the second floor of the student union, the display, with the use of the latest and most expensive professional models was intended to emphasize the modern trend in functional representation of housing and city planning.

Kenosha Designed

The lobby was devoted primarily to the outlay of Kenosha, as it should be under supervised modern city planning with provisions made for the situation of residential industrial and commercial phases. Especially unique was the detail given the physical position of the individual homes as determined by a necessity of providing for smoke elimination from factories.

In the east room of the second floor, the juniors presented plates indicating the value of and the process of the fundamental types of building construction—log, half timber and modern wood structure. In addition, drawings of rooms indicated the functional qualities inherent in the design, showing the minimum requirements of the various elements of a room.

Construction Shown

In the west room the seniors and graduates worked together to assemble a number of model houses, illustrating the design resulting from the application of pure construction principles. A modern clubhouse and school seemed to attract the most attention, particularly the latter because of the clear arrangement of walls and window panelling which permitted the admission of the proper amount of sunlight at the proper time of day.

Two Seniors and One Faculty Member Are Guests of G.M. at New York Fair

By Peter Woods

New York, N. Y.—Special to the Armour Tech News—(News note: Two seniors, Jack Clark and Peter Woods, and one member of the faculty, Mr. John Larkin, journeyed to New York last week as representatives from Armour Institute of Technology to the General Motors 'Highways and Horizons' program at the Worlds Fair.)

Tour Conducted

Our first contact with this metropolis was our arrival last Monday morning at the monstrous Grand Central Terminal just a few minutes subsequent to a terrific welcome accorded potential President Thomas E. Dewey, a passenger on another section of our train.

Our program for the rest of the day consisted of a special tour, as guests of G. M., of the buildings of Rockefeller Center, a tour by bus of the Worlds Fair grounds, inspection of the research exhibits in the General Motors building and a technical show in the theater, a trip on the

This Tuesday, May 14, the orchestra and glee club under the direction of O. Gordon Erickson will journey to Milwaukee where they will entertain the fun-loving, beer-drinking, citizens of that town by giving a few concerts at several planned social functions. Every year the musical clubs make an out of town trip, and this year they will visit the "most progressive city in the United States." Their first stop on the program is Kenosha, Wis., where both clubs will give a concert for the High School of that city, and later honored with a luncheon. Immediately following, the clubs will motor to Milwaukee where they will perform before the "mikes" of station WISN and the Armour Alumni Association. Although their main purpose is to provide music for the residents of that fair Wisconsin city, the boys will also relax, and will visit, (that is we hope they will but tarry there), one of Milwaukee's far famed breweries. (Please, boys, come back sober). Featured soloists will be "Biff" Doolittle, Don Charleton, Carl Pederson, Ted Gromak, Herb Hansen, and Robert Hemmen.

Seniors to Be Missed

This being the last concert of the season, both clubs will sincerely miss the seniors whose spirit, loyalty, and cooperation has proven to be a great asset. It now looms as a great possibility that the seniors will try to sing their way into the "singing Mayor's" city council. (You might try it fellows, it has been done.)

Last Sat., May 11, the glee club gave its final local broadcast of the season; the station honored was WMAQ, located in the Merchandise Mart.

Theory and Practice Theme of Open House Exhibits Last Week

Delta Tau Deltas and Junior Chems Stars in Pageant

Helping to climax Junior Week, the Inter-Fraternity and Interdepartmental Pageant presented last week set a new standard for the pageants of the future. Top honors were taken by Delta Tau Delta Fraternity with its exciting review of the origination and construction of the snow cruiser. Judging the artistic efforts set forth were: Dean Tibbals, President Heald, Vice-President Gunter and assistant athletic Director "Sonny" Weissman. Represented in the event were seven fraternities and one department and choosing the winner was no mean task.

Starting things off with a bang was Phi Kappa Sigma, who presented a picture of the Armour Tech Snow Cruiser by means of a small model. The Snow Cruiser proved to be a very popular theme and the next two presentations concerned themselves with the trials and tribulations that go with a Snow Cruiser.

The next skit, presented by the eventual winner, Delta Tau Delta, showed the audience how the Cruiser was built in a moment of inspiration and presented an inside picture of its building.

Following this melodrama (?) came another burlesque on the Research Foundation's famous project. Alpha Sigma Phi's presentation showed the audience the actual christening and starting of the Snow Cruiser.

From here the audience moved to the Triangle pageant which etherized the Lewis-Armour liquidation via the B.A.D. network. A two-way conversation was held with the Antarctic when "Big America" talked to Little America.

Models Tested For Stresses

"Friction in Buildings, Its Magnitude and Its Importance in Limiting Earthquake Stresses," was the title of a lecture delivered at Armour on April 13, 1940, by Dr. Merit P. White, Assistant Professor of Civil Engineering, before a gathering of members of the Seismological Society of America. According to Dr. White, the present-day approach to the problem of earthquake stresses in buildings is mainly a standard procedure used in the design of practically all modern buildings. This procedure consists of allowing a factor of ten percent of the total weight of the building in designing its main supporting members.

New Attack Shown

In recent years, however, the efforts of seismological research men have been directed toward an analysis of the problem through the application of experimental data. Various tests have been performed on models and also on actual buildings, the results being used to verify theoretical assumptions. In general, a building is classified as being either damped or undamped, the latter being an ideal theoretical case in which there is no friction between the component structural members. Every actual building therefore falls into the first group, although the models tested are constructed as near to the ideal condition as possible. In spite of the fact that it is common practice to allow a ten percent excess during design, the results obtained by Dr. White and others in his field indicate that a more correct analysis will probably require a factor ranging from five percent for small structures, to 15 percent for large structures. Recent measurements of the actual waveform of earthquake tremors in large buildings in California show promise of further progress.

Thousands of Visitors Are Attracted

It can be truthfully said that this year's Open House was definitely a milestone in the school's attempt to exhibit its work and the results of its training. The theme of the different departments varied, but on the whole the general scheme was to combine in each departmental exhibit theory and the resultant practical applications. This method of presentation was used in the electrical, chemical and physics departments.

Juicer's Exhibit Tesla Coil

The theory of operation of the electrical department's Tesla coil was explained in an easily understood talk. The coil was then operated under various conditions and the reasons for the various types of performance were given. The presentation was ended with a simple explanation of the equipment used.

The organic lab exhibit consisted of a series of actual laboratory preparations of various plastics and synthetic products on one side of the lab; and, on the other side of the room, a display of the final products of such preparations gave the practical side of organic chemistry work. The plastic products were exhibited through courtesy of Chicago Molded Products Co. and The Catalin Corp.

Chem Exhibits Practical

The students of chemical engineering this year were able to develop their more practical problems which had possibilities of actual industrial application to the point where it was possible to present many of the problems as department exhibits. Among the problems presented were the petroleum reclamation process, the acetone vapor absorption process, the effect of wetting agents on pigment particle size in paints, and a new type flowmeter.

The physical chemistry exhibit consisted of a series of actual experiments dressed up to make them easily understandable for the average man. A short, concise explanation of the practical application of each experiment was given by each group. Chertow's explanation of the Boar-

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"Overhaul" Is Awarded First Prize in Salon

Close competition was the keynote of the 4th annual Armour Eye Open House Salon. This was attributed to the general increase in interest in photography in the past few years.

As has been the custom in past years, the winners were chosen by the general public who cast ballots for their favorite picture.

The unusual quality of the prints both from the technical and pictorial viewpoints gave the visitors more than a trying time in selecting the winning point.

The final count gave Bob Zelin first prize for his fine photograph "Overhaul."

This same photograph won an honorable mention in the recent A.S. M.E. salon at the Stevens Hotel. Second award went to Harry Tun for his "Stairway to Success."

The balloting for the next four awards was very close with "Black and White" by H. Hammond winning third prize and honorable mentions going to Al Barry for "Spring," Jack Wagner for "Sentry," and Al Wong for "Metropolitan Night."

The first three winners will be awarded photographic materials for prizes.

LENS STOLEN

On Tues., April 23 a B. & L. Tessar 1c, f/4.5 lens was taken from 210 Physics Bldg.

The lens No. 3242411 and the "Compound Shutter No. 725071 identify the unit.

Any information will be appreciated, by Prof. W. W. Colvert from whom the lens was taken.