



Theorist Explains Basis of Physics

Ten Fundamental Ideas Discussed by Dr. Haas

"Fundamental Ideas of Modern Physics," the first of a contemplated series of lectures sponsored by the Institute covering the field of modern science and engineering, was presented to an enthusiastic audience of faculty and students by the noted theoretical physicist, Dr. Arthur Haas, in Science Hall last Friday. Dr. Haas, formerly professor at the University of Vienna and now professor of theoretical physics at Notre Dame, is a world known authority on the quantum theory, relativity, and the philosophy of physics, his many books on these subjects being standard references.

Adjourn to Faculty Club

After his lecture, Dr. Haas offered to answer any questions, and a part of the group adjourned to the Faculty Club where a vigorous discussion ensued of causality, microns, quanta, and related subjects.

Dr. Haas, a short, rotund, grey-haired man, completely won over his audience with his concise summary of the philosophical basis behind physics. He took up ten ideas which he considered the most fundamental—three from the ancient philosophers, three from the seventeenth, eighteenth, and nineteenth centuries, and four from the modern physics developed in this twentieth century.

Mathematical Idea First

The first of the ancient ideas was Pythagoras' conception that the world of physical phenomena can be expressed in mathematical terms. Democritus was responsible for the second and third ideas, namely, the conception of a micron world and the atomistic principle. The idea that nature is essentially simple came from this school of philosophy.

The seventeenth century brought the concept that physics may be organized in the form of geometry starting with basic classical axioms. It was Descartes who developed this idea, and it was Newton's monumental work on mechanics

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Faculty Expects Victory in Junior Week Ball Game

In order to insure an outstandingly successful program for the thirty-second annual Junior Week, a number of new and novel features have been added to the schedule.

A greased pole with prizes at the top for successful climbers is the most outstanding addition to Junior Week activities. The marshals do not intend this event as a new type of rush, but rather hope to have one man at a time attempt to scale the pole. Several hours will be left open on Friday morning for repeated attempts. Only juniors and seniors will be eligible. It is rumored that bids to the junior dance may be among the prizes offered.

Pep Up Interclass Baseball

Interclass baseball is another of the events being pepped up this year. In order to make the games more interesting to both players and spectators, the use of a sixteen inch ball will be discontinued. A fourteen inch ball with fast pitching is the logical substitute. The same rules will apply to the faculty-senior game. This year's contest will not be a farce as it has been for years. The faculty believe that they can put a team on the field capable of giving serious opposition to the over-confident seniors.

Pie Eating Contest

Two other novel contests will require election of men from each department of the junior and senior classes. A unique pie-eating contest with one man from each department competing, and a strong man contest of unknown nature will be run off.

Junior Week will open on Monday, May 10, with entrance to a beaver contest and a hobo parade.

Senn Student Chosen Recipient of Armour Civic Assembly Award

Recipients of the Civic Assembly university scholarships were announced at a luncheon held last Friday at the Executives' Club, in the grand ballroom of the Hotel Sherman. Mark Keane, representing Senn High School, was chosen as the winner of the one-year scholarship at Armour, and Chester Belinski of Foreman High School was picked as alternate.

Highest in Scholarship

Keane is vice-president of the senior class at Senn and is the highest boy in scholarship of his class. He is also commanding officer of the R.O.T.C. band which is a first ranking band in the entire country. Civil engineering is his chosen department. Belinski ranks first at Foreman High School where he served as captain of the gymnastics team.

Forty-nine in Competition

Of the 49 boys representing 36 high schools, the three city junior colleges, and the Normal College, 11 applied for the Armour award, the majority of which were interviewed. All of the participants received medals. Each school was represented by one member of the January 1937 class and one member of the June 1937 class. His or her scholastic standing must place the student in the upper half of his class and his character rating shall be excellent on the basis of honesty, dependability, industry, personal neatness, good manners, and obedience to law. The student must also have displayed real qualities of leadership. The Civic Assembly is one of the highlights of Youth Week.

Juniors Select Keith Beecher's Orchestra

Only eighteen days remain until the Junior Informal of May 15, the last open dance of the year. Keith Beecher and his orchestra have been selected to play for this affair. This organization is characterized by a smooth melodious type of music, and with the choosing of the band, the social committee hopes to attract that part of the student body which prefers slow danceable rhythms.

The Junior Formal of last February featured swing music at its best. However, judging by comments following that dance, it was evident to the social committee that Techawks prefer the slower dance arrangements rather than the ultimate in swing.

Presenting this dance at the Medinah Country Club which features a large outdoor dancing veranda in addition to the beautiful indoor ballroom, the junior class feels that it will be a huge success. Coming at the end of Junior Week on Saturday evening, everything favors this dance. "Let yourself go, Techawks. Buy your bid early. Get your date early and assure yourself of a really great evening," is the byword of the junior social committee.

Plans Completed for Senior Dinner Dance

The senior class decided to have the graduation exercises in the afternoon after a vigorous discussion at its meeting last Wednesday morning. At the same time it was announced that bids to the closed senior dinner dance on June 11 would be priced at \$3.30.

Art Dreis, social chairman, is making arrangements for the affair. Emil Flindt and his orchestra, the popular band of O Henry Park, will furnish the music for the dance. The site will be the beautiful grand ballroom of the Medinah Michigan Avenue Club.

Frank Hackman, intra-mural manager, was elected to lead the senior softball team in the interclass competition of Junior Week. Sam Taradash will manage the team.

Chicago Beach Site For Honorary Dance

The interhonorary dance will be held on May 7 in the Beach Ballroom of the Chicago Beach Hotel. Although the orchestra has not been decided upon definitely Jack Chapman's orchestra will probably furnish the music.

The Chicago Beach Hotel was chosen for several reasons. The room itself is beautiful, furnishing sufficient floor space for the expected 125 couples to dance comfortably. Adjoining the ballroom are several spacious lounges, and the hotel itself is on the lakefront affording an unobstructed view of the lake. The dance will be held from 9 until 1 in the morning.

All members of the honoraries are invited to attend. These societies are Tau Beta Pi, Pi Tau Sigma, Eta Kappa Nu, Chi Epsilon, Phi Lambda Upsilon, Salamander, Pi Nu Epsilon, Sphinx, and the Honor "A." Arrangements for the dance are being made by W. A. Chapin, R. G. Liebmann, and P. R. Schultz.

A.T.S.A. Conducts Sticker Contest to Arouse More Student Interest

First Prize Ten Dollars, No Entry Limit

"Stick up for Armour! Publicize your school!" To accomplish this aim a sticker contest is being conducted by the A.T.S.A.; first prize is to be ten dollars, and second prize five dollars. It is intended that the new poster be striking, outstandingly noticeable, and original in design to establish the idea of "Armour Tech" immediately every time it is seen.

The following rules will govern the contest: 1. Actual size of finished sticker will not exceed 4x4 inches; 2. Drawings submitted must be double size; 3. Colors must be black, yellow, and red; 4. An entry

Players Feature Emotional Drama

Final rehearsals are now in progress by the Armour Players for their planned production of "Winterset" to be presented at the Chicago Woman's Club theater on Wednesday night, May 5. Tickets have been placed on sale and may be obtained in the main lobby at noon or from members of the Armour Players. Al N. Schrieber, business manager of the production said, "We have been pleasantly surprised at the rapid sale of tickets. Thirty-six hours after sales began over three hundred seats were taken."

Scenery Nears Completion

All the parts have been cast for some time and according to Prof. W. Fulghum, director of the show, this will be the outstanding play of those presented by the Players. A large technical staff headed by Joe Kubert is rapidly completing the unusual scenery designed by Richard Lischer, and the various production departments are correlating their work.

Several changes in the previously listed cast have been made. Sid Miner has been chosen to portray Esdras and N. Natichick will act as the policeman. The cast includes four girls in the feminine roles in addition to the sixteen masculine roles. Leads in the show are taken by Monte MacConnell as Mio and Katherine Urso as Miriamne.

Taken from Original Edition

The Armour Players are presenting "Winterset" in the original unexpurgated edition as written by the author, Maxwell Anderson. The script was considerably revised for the motion pictures and thus lost most of its effect. The author did not attempt to amuse, but rather to emotionally move the audience with a contemporary theme. The complete original play will be seen by the attending audience.

Electrical Grads Win Edison Co. Contest

Three Armour graduates were recently announced to have been among the twenty winners in a field of one hundred and forty-seven contestants who competed in a contest sponsored by the Commonwealth Edison Company of Chicago. The men are R. J. Grant, '21; E. L. Michaelson, '29 and A. B. Bronwell, '33. All three men were graduated as Electrical Engineers and have been in the employ of the Edison Company for some time.

The contest was one requiring the contestants to submit a paper on one of the many phases of the company's affairs. It has been the custom of the company to sponsor similar contests in order that their employees may show interest in the company's policies and affairs.

Mr. Michaelson was the winner of the first prize in a group of subjects under Engineering and Operation. The other two men won prizes in other divisions of the contest.

Pastor To Speak At Commencement

Dr. Ernest Fremont Tittle, D.D., LL.D., pastor of the First Methodist Episcopal Church of Evanston, Illinois will deliver the 1937 Commencement address according to a release from the President's office. Dr. Tittle is the author of numerous publications, in which the following titles are significant: "A Way to Life," 1935; "A World That Cannot Be Shaken," 1933; "Jesus After Nineteen Centuries," 1932; "The Foolishness of Preaching," 1930.

Dr. Tittle came to Evanston in December, 1918, from successive pastorates, including Delaware, Dayton, and Columbus, Ohio. During the World War, he was with the Army Y.M.C.A. in France, and participated in the St. Mihiel offensive. In 1932 he was a lecturer at Yale University on the Lyman Beecher Foundation. Since coming to Illinois, he has won high recognition as an eloquent and thoughtful speaker on both religious and secular subjects. He has been for several years a trustee of Northwestern University, is a member of the Federal Council of Churches of Christ in America, and of the Phi Kappa Psi and Phi Beta Kappa fraternities.

The subject of his address has not been definitely formulated, but will doubtless have to do with some of the social and ethical implications of scientific and engineering progress.

Outlook Good for Senior Placement

Following an unprecedented demand for engineering graduates, Mr. W. N. Setterberg announced that the outlook for the present graduating class was better than any in the history of Armour. Already, offers of employment have been reasonably assured to about 40 per cent of the class. The majority of these prospective jobs have been offered by companies who have come to the personnel advisor.

Firms Offer Training Courses

About twenty-five corporations have already inquired regarding prospective employees. Many of these companies have interviewed the seniors in an attempt to obtain the best while there is a choice from which to select.

In addition to regular positions a number of large companies have offered selected seniors an opportunity to enroll in a training course teaching the principles of the company, its organization and operation. These training courses include a salary of between \$100 and \$200 per month during the period of the course and have been part of the larger corporations' general plan for filling their needs for new trained men in industry.

Demand for Engineers Increases

An unusual demand for engineers engaged in the sales promotion departments of the various industries has been reported.

To aid the students in gaining interviews, the personnel supervisor has offered the seniors a number of pamphlets. "Do's and Don'ts for Job Seekers" and "Finding Work" are two of the titles available, and those interested are invited to secure copies from Mr. Setterberg.

Officers Elected To Lead Freshman Co-ops for Year

Dudley W. Hayes was elected president of Group B of the freshman co-ops at an election held last week. Aiding him will be Alex Zuk, vice-president and John J. Kelly, secretary-treasurer.

Prof. L. J. Lease, co-ordinator of the cooperative course conducted the election. The officers elected will assume their duties at once and will hold office for one year.

Chapin Hall Remodelling To Continue

Lawn, Trees, Shrubs, Will Replace Old Rear Driveway

Chapin Hall will take on a new front—literally—if plans of the Institute are carried through; the new front will be what is now the back of the old building. According to the plans for improvement of the buildings and grounds, the old wooden porches are to be removed and a new system of stairways pleasing in appearance will be provided, the brick of the east wall will be cut-pointed and painted, and the grounds east of the building are to be—being, in fact, landscaped. Last week a concrete breaker crumbled the driveway which runs along the tennis courts.

To Add "Physics Hall"

With a view toward simplification, Chapin Hall's six entrances will be reduced to four as that part of the building at the first and second entrances will be renamed "Physics Hall." The physics laboratories will be expanded so that they will extend over to the third entrance, and the third floor classrooms will be remodeled.

Seven new classrooms will be contained on the remodeled second floor of Chapin Hall along with offices of the civil engineering department, the science department, and the fire protection engineering department. Space is being set aside for student activity rooms on the third floor and part of the fourth floor, which are both to be remodeled.

An additional 4,000 square feet of the Research Foundation Building (the original Armour Flats on 33rd Street) are being remodeled to serve as an addition to the Research Foundation laboratories. Eventually the research department will occupy the entire building.

Plan Improving Student Union

Plans are being made for improving the Student Union and making more space available for the lunch room. The entire first floor of Mission is to be remodeled. As soon as possible the assembly hall will be decorated and its appearance and acoustics improved.

Prof. H. A. Vagtborg, assistant to the president and director of the work of improvements of the school buildings and campus, stated last week, "These improvements are being made according to the program outlined by President Hotchkiss last year to improve living conditions here without prejudice to a new location and plant for Armour Institute of Technology."

McCormack To Talk On Manganese Ores

Professor H. McCormack, head of the Chemical Engineering Department of Armour, will speak before the student branch of the A. I. Ch. E., at 10:30 next Friday. "The Benefaction of Manganese Ores" will be the topic of his talk.

The value of manganese ores in steel and new methods of increasing the efficiency of domestic ores will be high points of the talk. The domestic manganese ores, which are of a very low grade, contain from 8 to 10 percent manganese, while imported ores range well over 50 percent. For the past twenty years investigators have been trying to devise a method of increasing the percent of manganese in domestic ores. During the past decade there have been developed new methods of working these ores at the Bureau of Mines and at the Research Foundation at Armour.

There will be an important meeting of all Tech News reporters today at 12:20 in the news office. All reporters must be present.