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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. THE TECH assumes no responsibility, however, for the facts as stated nor for opinions expressed.

IN CHARGE THIS ISSUE

C. G. Ball '22 M. D. Perkins '22

TUESDAY, JANUARY 6, 1920

THE NEW PHYSICS

THE new theories in the domain of mathematical physics propounded by Dr. Einstein, which refute or at least enlarge upon all of Newton's fundamental laws will, perhaps be too hastily accepted by our freshmen who seem to be having some trouble with Newton's principles as originally stated by their discoverer. But the frosh should hesitate before taking such a rash step because Newton's laws are said to be the acme of simplicity in comparison with those of Einstein.

When Dr. Einstein first submitted his book on relativity to his publishers he informed them that there were only twelve men living who could understand it. And Sir Oliver Lodge, in attempting to explain the new theory before a group of prominent English physicists, told them that when it had gained general acceptance the mathematics teachers (not to mention the students) would have a "terrible time."

Einstein was inspired to work out his theory by an experience similar to Newton's apple adventure. While working in his study, the professor saw a man on a ladder become unsteady and fall off. The man's statement in regard to his sensations while falling furnished the basis for a fruitful discovery, which is, incidentally, another argument against prohibition.

TWENTY FIVE YEARS AGO AT TECHNOLOGY

The catalogue of the Institute for the year 1894-95 made its appearance. The requirements for admission had been somewhat changed as the entrance examination in arithmetic had been discontinued. The catalogue showed the number of students attending Technology to be 1,133.

The Alumni Association of the Institute held its annual meeting at Young's Hotel. Nearly two hundred members attended.

The opening session of the Tenth General Meeting of the American Chemical Society was held in room 22, Walker.

ARCHITECTURAL DEPT. TO SEE UNUSUAL EXHIBITION

Through the courtesy of the Fogg Art Museum of Harvard University, the Architectural Department of the Institute is enabled to offer to its students and to the public an unusual exhibition of architectural drawings and prints. It will include original drawings by Ruskin, Turner, Meryon and others, as well as etchings and engravings by such well-known art-

ists as Piranesi, Webster, Cavaletto, etc. Mr. Edward W. Forbes and Mr. Paul Sachs of the Fogg Museum have contributed drawings from their own private collections.

The exhibition will be held in the exhibition room of the Architectural Department on the main floor of Rogers Building, 491 Boylston street, Boston, and will be open without charge from Monday, Jan. 5, to the 12th inclusive, at the following hours: Week P. M.

COLLEGE NOTES

Cornell—Several fraternities having chapters at Cornell have announced plans to endow professorships, assistant professorships, or instructors in the name of the fraternity.

University of Minnesota—An airplane ride has been planned for the woman at the University of Minnesota who gets the greatest number of subscriptions for the "Gopher," the monthly publication of that University.

It has been estimated at the University of Minnesota that about half of the students contribute to their own support. Out of 6,030 students attending the University 3,000 are either partially or wholly earning their own way. Among the men there are 1,088 and among the women 265 who are wholly self-supporting. There are 1,775 men and 310 women who are helping make their expenses.

Indiana University—Students of Indiana University, who have been in military service over six months, will receive ten semester hours for it. The plan is to prorate credit for any person who has been in service less than six months.—Indiana Daily Student.

Yale—Yale University has inaugurated the taking of motion pictures of all the important events of each class and the happenings of interest to form a permanent class record.

Harvard—The Harvard varsity rowing race with Yale at New London next year will come on June 25. The second varsity and freshmen crews will compete on the same day.

The remainder of the rowing schedule, provides for races of all three crews against Annapolis at Annapolis, on April 24, and races of the Varsity and freshmen crews against Princeton on the Charles River on May 1, and against Cornell at Ithaca, May 22.

Washington University—In Washington University, the English department recently quizzed the freshmen on the "College Alma Mater." The twenty-five freshmen who did not know the song were suitably punished.

C. C. N. Y.—The City College Y. M. C. A. will send a delegation of sixteen men to the Des Moines Convention, including Mr. Bloodgood, the secretary. A number of preliminary meetings have already been held. Songs, cheers and a number of other innovations have been considered and rehearsed.

PROF. ADAMS LECTURES ON ELECTRIC WELDING TONIGHT

Professor C. A. Adams, formerly of the Technology faculty, will speak on the subject of electric welding before the Boston section of the American Institute of Electrical Engineers in Chipman Hall, Tremont Temple, Tuesday evening, January 6, at 7.45 o'clock. Professor Adams was connected with the Electrical Engineering Department at the Institute for several years before the break between Technology and Harvard, teaching classes in Dynamo design, and alternating current machinery.

This lecture is open to members of the student branch of the American Institute of Electrical Engineers and their friends and will be authoritative upon the subject of electric welding, as Professor Adams, now President of the American Welding Society and Dean of the Harvard Engineering School, is one of the foremost authorities on arc welding. During the war he was chairman of the Welding Committee of the Emergency Fleet Corporation and it was through his efforts that the arc welding done for the government was one of the great industrial accomplishments of the war.

Will Describe Processes

As the country is now practically on a peace basis, Professor Adams will be able to describe many of the details of the process. He will talk on the apparatus and the process of butt welding, spot welding, and arc welding. Under arc welding there are two sub-divisions, the carbon arc and the metallic arc welding which will be touched upon. Under the metallic arc welding there are still further sub-divisions, bare and flux-covered electrodes, which will be considered. Many details of operation will be described including current control, also the finished product including the strength and ductility of welds, locked-up stresses, etc., and what will be of much interest at the present time, the industrial application of welding. By way of comparison, a short comparison of gas welding and cutting and of thermite welding will be given. The talk will be illustrated with some very interesting lantern slides.

WORK ON PRATT MEMORIAL FOUNDATIONS NEARLY DONE

Despite the fact that the decision of the Supreme Court relative to the Pratt Memorial has not yet been handed down and is not expected until about January 10, construction on the building, provided for in the will, is going on rapidly, in order that, as much as possible may be done before the really cold weather sets in.

The pile driving is now practically finished, about one more week's work remains to be done, which means approximately one hundred piles are yet to be driven. The material used has been black oak cut partly from the Maryland and partly from the Connecticut forests.

The pile driving completed up to a point where the cement operation could begin, the first run of concrete was made Wednesday afternoon. The concrete is reinforced with steel grids and stubs, the stubs along the sides of the building being placed at intervals of twenty-two inches. The problem of freezing cement has been overcome by pumping boiling water over the setting material. A Smith concrete mixer has been installed and a gang of fifty men are now employed in the construction of the building.

The plans of the contractors, at the present time, provide that the foundations be laid at the end of three weeks, work then to be suspended until March, when the putting up of the superstructure will begin.

K. OF C. ARE SENDING 300 EX-SOLDIERS TO COLLEGE

In their official report of their educational movement for ex-service men the Knights of Columbus show that out of a total of 3,000 applications for the 100 scholarships they offered last August to veterans of the war 967 applicants qualified for preliminary examination. Applications were received from every State in the Union. Over one hundred came from men in France, and one from an American soldier in Germany. The Knights increased the number of scholarships from one hundred to a number sufficient to accommodate the men who passed the entrance examination set by the institution they desired to enter. Of the 967 over 300 qualified; 284 are now in school, and others will be placed. It is expected that the first roster of K. of C. ex-service scholars will contain between 350 and 450 names.

Not one of the men selected by the Knights had other prospects of receiving higher technical or academic education. The Knights provide them with tuition, board and lodging, and books. In cases where the men live off the campus they are allowed \$50 per month for living expenses.

The bulk of the applicants selected technical courses in engineering, mining, agriculture, etc. They have been placed in these numbers:

Technology, 44; U. of Pennsylvania, 26; U. of Illinois, 30; Georgetown Foreign Service School, 25; Sheffield Scientific School (Yale), 18; Stevens Institute, 15; Louisiana State University, 9; Worcester Polytechnic, 7; University of Minnesota, 6; Brooklyn Polytechnic, 5; U. of California, 5; Purdue, 5; Michigan Agricultural College, 4; Ohio State College, 4; West Virginia U., 2; Agricultural College 2, and Missouri University, 1. Montana State Agricultural College and Colorado School of Mines, one each.

Holy Cross College of Worcester leads in the receipt of academic scholars, having 22; the Catholic University has 19, Notre Dame University 18, Fordham 16, and the others are distributed according to the proportion of applicants successful in the academic examinations.

The scholars come from all States in the Union, New York leading with 51, Massachusetts having 49, Pennsylvania 22, Connecticut 18, New Jersey 15, Indiana 14, Louisiana 8, Missouri 7, Minnesota 6 and California 5. While the Knights asked no questions concerning religious affiliations of applicants, all denominations are represented among the scholars, Catholics being less than 50 per cent of the total.

It is estimated that the cost of giving these men a full course will be over \$1,000,000. These scholarships, with the K. of C. demobilized men's technical schools now operated by scores of K-C subordinate councils, will bring the expenditure for the Knights' educational branch of reconstruction work into multiple millions. The Knights have no strings on the students excepting that they must keep up with their studies. Many football and other athletic stars are numbered among them, including Captain Tim Callahan of Yale. President Hadley of Yale has described the plan as "an admirable work of reconstruction" and President Ira N. Hollis of Worcester Polytechnic congratulated the Knights for "going ahead without red tape and without imposing all kinds of restrictions."

NOTICES

For Undergraduates

Technique Board Meeting—There will be a very important meeting of all members of the Technique board and competitors Wednesday afternoon, January 7 at 5:00 o'clock in the Technique office.

Orchestra rehearsals will be held this afternoon at 4:30 o'clock in building 30. Plans for several concerts and other important matters will be discussed.

Candidates for the Rifle Team will meet in room 10-267 for a short meeting at 5:00 today.

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S. M. Biddell	E. B. Bigelow
D. F. Bixler	F. S. Blackall, Jr.
W. G. Blake	R. H. Elliott
L. P. Bliss	L. T. Block
M. C. Bloom	A. Bogrosian
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J. E. Brinkerhoff	C. E. Brokaw
E. C. Brown	E. C. Brown
L. N. Brown	A. J. Browne
R. D. Brown	H. H. Buck
G. Brun	F. T. Bunting
H. E. Bundy	C. H. Burnham
H. A. Burbank	G. Butler, Jr.
F. J. Burt	D. J. Carpentier
R. D. Carleton	W. Chadbourne
R. S. Carven	J. H. Chadbourne, Jr.
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B. L. Chafin	R. S. Chaffin
H. D. Chase	C. Chien
S. Chen	C. Y. Chittick
J. Christoph	J. W. Chu
E. C. Clark	W. E. Clarke
H. S. Clemens	A. A. Clough
H. E. Cobb	H. L. Cobb
S. Cohen	H. S. Colton
L. W. Coddling	L. H. Colton
E. M. Conley, Jr.	E. D. Coogan
P. A. Connors	L. S. Cooper
B. A. Cooper	R. S. Complain
J. M. Cosgrove	G. S. Crispien
A. C. Craig	C. K. Crofton
W. J. Croft	H. C. Crofton
P. W. Crosby	K. M. Cunningham
R. F. Cummings	J. R. Darsen
R. H. Damon	F. G. Davidson
H. Davenport	W. H. Dible
F. G. Davidson	F. N. Dillon
G. P. Dean	E. N. Dittenhofer
W. P. Dickerman	J. S. Doubleday
M. D. Disheim	J. M. Dubernet
M. S. Dimmock	C. P. Dyer
H. W. Doebler	W. S. Eadie
W. B. Driscoll	C. H. Edwards
H. J. Duge	S. E. Emerson
G. H. Dyer	J. F. Falls
P. E. Edie	H. L. Ferguson, Jr.
M. R. Edwards	J. H. Flatter
J. R. Elliott	H. D. Folmsbee
E. C. Fales	R. D. Foster
L. Ching-Fang	G. F. Fynn
A. Feldstein	E. F. Gallagher
W. T. Ferguson	H. C. Gayley
G. A. Fitzgerald	G. D. Goadard
D. J. Flish	W. L. Grady
J. V. Foster, Jr.	C. H. Grandgent, Jr.
A. J. Freiheit	R. C. Greckler
D. Gage	C. H. Greckler
W. A. Gardner	W. L. Gordon
B. Gasser	W. B. Gurney
R. E. Van Gieson	H. C. Ham
J. K. Godfrey	A. M. Hammond
S. L. Graham	E. R. Harman
J. F. Greaney	J. D. Harvey
J. Greenblatt	E. R. Hayles
J. M. Goodnow	J. A. Hayes
J. L. Guardo	J. T. Heffernan, Jr.
R. S. Fall	S. H. Hinchey
R. L. Hallack	E. F. Hodgkins
K. G. Hamilton	H. J. Horn, Jr.
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M. Havari	L. F. Jenness
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R. W. Hemenway	C. A. Johnson
B. Hinde	I. J. Kahansky
T. Ho	R. M. Kaseh
J. F. Houston	P. M. Kellogg
C. H. Hubbard	A. S. King
S. N. W. Huft	W. F. Kirley
R. O. Inalls	F. P. Knight, Jr.
C. T. Jackson	R. Knutsen
E. L. Johansen	K. C. Ku
A. L. Johnson, 2nd	F. Kurtz
F. E. Justice	W. H. Lavey
R. M. Kaseh	K. T. Lavelle
P. M. Kellogg	Y. K. Lei
A. S. King	S. D. Leland, Jr.
W. F. Kirley	W. D. Leshure
F. P. Knight, Jr.	E. Lieberg
R. Knutsen	D. R. Linsley
K. C. Ku	G. H. Ludlow
F. Kurtz	H. D. McDonald
W. H. Lavey	J. K. Macomber
K. T. Lavelle	A. W. Maddocks
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W. D. Leshure	F. deMartino, Jr.
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C. E. Myers, 2nd	
J. Nesmith	
A. Newman	
H. G. Olson	
M. J. Patisteas	
H. L. Pearson	
T. Penna	
R. Perine	
M. D. Perkins	

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