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COURSE COMBINES STUDIES.

(Continued from page 1.)

interest in their explanation. The Institute holds that a knowledge of physical and natural science, though not the only essential element, is yet the chief factor in culture and in life.

"Thirdly, the Institute considers the acquirement of knowledge of any kind whatever, whether literary or scientific or professional, for less important than the training of the mind in scientific thinking and scientific method. It aims not only to impart a knowledge of principles, but also to develop the faculties so that its graduates may be fitted to cope with and solve the great engineering and scientific problems of the day. To this end much of its instruction consists in this very thing—the solving of problems in the class room, laboratory, and designing room. The theses, some of which have been presented in abstract to you today, are only larger examples of this side of our work, which in the form of minor problems extends throughout the whole four years. And correspondingly we determine the standing of a student very largely by his term work rather than his success in a final examination, which too often depends on his ability to get up the subject by cramming."

Dr. Noyes soon after turned to the graduating class and addressed them exclusively.

"I desire first of all to extend to you the hearty congratulations of the Corporation and Faculty on the accomplishment of the result for which you have successfully striven. You are to be congratulated not so much because the diploma which I shall soon have the pleasure of presenting to each of you certifies to the completion of a prescribed course of study and to the acquirement of much liberal and professional knowledge, as because it implies the possession and development of certain qualities of mind and character which are fundamentally essential to the highest success in life—a willingness to subordinate the pursuit of pleasure to the fulfillment of duties, a determination to accomplish in spite of difficulties whatever has been deliberately undertaken, an integrity of mind which will not contentedly accept as final imperfect or inexact results. The award to you of the degree implies, too, that you have formed sound habits of work that can not fail to be of prime importance to you in your subsequent careers; for while the Institute curriculum is not so exacting as to preclude a reasonable participation in the social and athletic affairs of student life, yet it demands that time and effort be economically expended. There is no time to be wasted in idleness, nor opportunity for that undue predominance of the physical and social activities over the intellectual which characterizes the student-life of many colleges. It is not now necessary for you to close a collegiate period of idleness, or frivolity, or dissipation with good resolutions of improvement for the future and with a determination now taken for the first time to pursue your work with seriousness of purpose and with the aim of high accomplishment. You already have taken these resolutions and developed the qualities necessary for their fulfillment; else you would not be here today. It is only necessary for you to continue in the way that you have thus far pursued."

Dr. Noyes outlined the idea of service that each man should go out into the world with. He concluded by saying:

"The question for each of you is, therefore, how can you render the greatest service? If you follow this as your guiding principle, you need have no fear of failure in our life-work, even if it be judged from such other stand-points as the attainment of happiness, or of public recognition, or of personal influence. The list of men who were awarded the degree of Bachelor of Science follows:

Civil Engineering—Laurence H. Allen, Maurice E. Allen, Monroe Ames, William E. Barton, George M. Belcher, Clifford H. Boylston, Arthur E. Bremer, Claude Osgood Brown, Mortimer P. Burroughs, Frederick A. Cole, Chester S. Colson, Hardy Cross, A. B., Henry H. Damon, A. B., Allston Dana, A. B., Stephen L. Davidson, Arnold T. Dean, Gregory M. Dexter, Gustav A. Dubois, Raymond W. Ferris, Herbert T. Gerrish, Wheaton I. Griffin, Harry W. Griswold, Philip J. Hale, Julian H. H. Harwood, Robert D. Hennen, Howard B. Luther, Stephen C. Lyon, Francis H. McGuigan, Jr., William D. Milne, Archer C. Nichols, Thomas W. Orr, Carlton D. Putnam, Read I. Ripley, Henry J. Ruggles, George Schoeninger, A. B., Charles H. Shapleigh, Edward R. Smith, Henry V. Spurr, John T. Tobin, Ernest J. H. Waters, Mason T. Whiting, A. B., George D. Whittle, B. S.

Mechanical Engineering—Horace E. Allen, Robert C. Angell, Robert A. Angus,

Carl H. Bangs, John S. Barnes, Frank K. Belcher, Henry W. Blackburn, Francis M. Bond, A. B., Kenneth C. Boush, John C. Brooks, Philip C. Brown, A. B., James M. Burch, Jr., Walter E. Caldwell, Hendley R. Calloway, Harold L. Carter, Burton W. Cary, Leslie P. Cassine, Dana W. Clark, Lawrence A. Clark, Clifford N. Cochran, Langdon Coffin, Abraham S. Cohen, Richard C. Collins, Samuel H. Daddow, A. B., James H. Denny, Herbert S. Eames, Charles A. Edmonds, Harold C. Faxon, Winthrop D. Ford, Ferdinand J. Friedland, James T. Gallagher, Basil L. Ginson, George T. Glover, Irving M. Guilford, James E. Hale, Carl A. Hall, Edwin E. Hall, Carl E. Hanson, A. B., B. S., Samuel F. Hatch, William R. Hellman, Clarence L. Hussey, Stiles F. Kedy, Karl R. Kennison, A. B., George C. Lees, Bernard S. Leslie, Lee Loeb, A. B., Arthur A. Longley, Harry C. Lord, William J. Peirce, Paul R. Powell, Harry A. Rapelye, John R. Reyburn, A. B., Miles Sampson, Joseph B. Sando, Albert T. Scannell, Clarence H. Spielher, Charles M. Steese, James M. Talbot, A. B., Joseph W. Wattles, 3d, Rudolph E. Welter, Masanae Yendo.

Mining Engineering—Walter J. E. Barcus, Ignacio Y. Bonilas, Alexander H. Bradford, Kenneth G. Chipman, Paul R. Fanning, Victor M. Frey, A. B., Charles A. Gibbons, Jr., Nelson N. Hammond, Paul Heimer, Bradford B. Holmes, Clarence R. Lamont, Jesse W. Maxwell, Desaix B. Myers, B. S., Alec N. Penny, Harry J. Sweeney, A. B., Tsok Kai Tse, Ching Yu Wen.

Architecture—Mabel K. Babcock, A. B., Ralph J. Batchelder, Harry H. Bentley, Chalmers S. Clapp, Russell G. Crane, William F. Dolke, Jr., Howard S. Hazen, Jr., B. S., Rinker Kibbey, Hugo F. Kuehne, C. E., Clifford H. Preston, A. B., Frank J. Robinson, Aram Terrosian, Kurt Vonnegut, Edgar I. Williams, Conrad Youngerman.

Chemistry—John S. Coye, B. S., Raymond E. Drake, Paul A. Esten, Ernest G. Genoud, Arthur T. Hinckley, Warren W. Karnan, John A. Kydd, Charles L. Luffkin, Emerson F. Lyford, James McGowan, Jr., Everett H. Newhall, William C. Taylor, Leland E. Wemple, Rufus W. G. Wint, A. B.

Electrical Engineering—Vigo E. Bird, Winfield E. Booth, Donald Bowman, Harry W. Brown, S. B., Benjamin Bullard, Harry L. Burgess, Rae W. Davis, A. B., Jacob A. Fottler, Floyd M. Fuller, S. B., John C. Gaylord, B. S., Lynn S. Goodman, Ph. B., Lee Hagood, B. S., Joseph W. L. Hale, Mathew C. Hayes, B. S., Lafayette B. Hedge, Oliver S. Jennings, A. B., Ernest E. Kilburn, Charles C. Kinsman, Frederick W. Lyle, Ralph E. Manning, Utar J. Nicholas, Harold S. Osborne, Harry C. Patten, Alfred G. Place, Edward A. Plummer, Walter E. Poor, Joseph G. Reid, A. B., Harry F. Richardson, Edgar P. Slack, Warren D. Spengler, George E. Tolman, A. B., Edmund L. Warren, A. B.

Biology—Scott MacNutt, A. B., Edward I. Tulley.

Physics—John H. Locke, Reno E. Schirmer.

Chemical Engineering—Alfred B. Babcock, Howard B. Batsford, Harry S. Chandler, Clarence W. Clark, Chesney H. Criswell, A. B., Rufus C. Folsom, A. B., Arthur L. Gardner, John Gianella, Jr., Harold P. Gurney, Maurice T. Jones, Jr., Gleazer Myers, Henry G. Nicholas, Francisco D. Reyes, Leavitt W. Thurlow, William H. Toppam.

Sanitary—William C. Folsom, Donald H. Maxwell.

Naval Architecture—Maurice E. Donny, Edmund F. Heard, Joseph Pope, Carol D. Steele, Loyd H. Sutton.

CONCERT BY MUSICAL CLUBS.

Saturday evening the combined Glee, Banjo and Mandolin Clubs gave a concert to the seniors in Huntington Hall. An excellent program was furnished, and the members performed exceptionally well, each number being encored several times. The "College Medley," by the Banjo Club, and the "Stein Song," by the Glee Club, were excellent.

INVITATION TO ALL GRADUATES.

Percy E. Tillson, secretary of the Technology Club of Philadelphia, has extended a cordial invitation to all undergraduates who may be in the vicinity of the Quaker city, to a Field Day and outing of the club. The celebration will be held on the twentieth of June at the Woodbury Country Club, Woodbury, N. J.

SCHOLARSHIP TO TECH MAN.

The University Council at Columbia University, New York, has just awarded a scholarship of the value of \$150 to Mr. Barton Warren Kendall 1906, a resident of Gardner, Mass. The selection of the Columbia University Scholarships, of which 32 are awarded each year, is made from among a large number of graduates of the best colleges and universities in the country.

PROFESSOR CLIFFORD HONORED.

At the recent annual meeting of the American Institute of Electrical Engineers it was announced that Prof. Harry E. Clifford had been elected a member of the Board of Managers for three years. The new president is Mr. L. A. Ferguson of Chicago, a graduate of Course VI in the class of 1888.



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