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Friday, January 12, 1923

SHOULD TECHNIQUE BE SENIOR ACTIVITY

THE Electoral Committee has been abolished and Technique becomes a competitive activity, but the problem of its reorganization will not be definitely solved until Technique is taken out of the hands of the Junior Class and made a Senior activity.

The action of the Institute Committee marks an epoch in the history of Technique; it is bound to stand as a tribute to the power and farsightedness of the Committee. The problem of immediate interest is the transformation of Technique into an activity upon a competitive basis—one difficult of adequate solution at best, and doubly so in view of the haste required in this case.

The publication of Technique 1924 is well under way under the direction of the present Technique Board, so that the matter of most pressing importance becomes the insurance of the publication of a good volume next year. This involves the building up of an entirely new organization on the basis of the competitions to be held during the next few weeks. The matter rests entirely in the hands of the Sophomores. They are assured of election to the positions of Technique, which will carry added honor when awarded the basis of just competition.

MISAPPLIED COUEISM

WITH the arrival of Monsieur Coue in this country, the direct contact with him is expected to draw many new adherents to his cult and to have the consequence of a more general acceptance of his ideas. But when this occurs the time will be ripe to subject them to a searching exami-

nation and a critical analysis.

There is no doubt but that the simplicity and the power to exercise a hold over the imagination are his cult's outstanding characteristics. His ideas have their own sphere of usefulness, for scientists are practically unanimous in the belief that the introduction of a certain state of mind and certain habit of thought into a person will affect the body in its resistance to illness. Many illnesses have been caused through despondency and mental worries which have weakened the body, while it is generally agreed by physicians that a healthy optimistic state of mind is a protection to the body.

But the area of usefulness of Monsieur Coue's proposals are extremely limited and it is the fear of thoughtful persons that a danger may arise from a lack of realization of this. People were stirred several years ago by the attempt of parents to cure the disease of their children solely by a treatment which like Coueism had only mental application and preventive powers. The children died through the lack of medical attention and the "criminal negligence" of the parents. The same danger is present in a misapplication of Coueism. So long as intelligent persons use it with a lively realization of its limitations, it may serve to supplement medicine and be one of the valuable humanitarian contributions of psychology to the world. But when it is used by the ignorant, the credulous and the unintelligent, it becomes a menace to the community and opens a danger to the helpless and the sick.

Coueism, like any cult or even medicine, cannot be made "fool proof," but the usefulness together with the limitation can be given the widest publicity and examination so that all may be aware of its advantages and disadvantages and so help to counteract the bad results that a lack of knowledge inevitably brings.

MATH CLUB SCHEDULED FOR MEETING TUESDAY

Everybody is to be welcome at the Technology Math Club meeting in the Faculty and Alumni room of Walker Memorial next Tuesday at 8 o'clock, according to information which has just reached THE TECH.

Professor F. S. Woods of the Mathematics Department will discuss the theory of Non-Euclidian Geometry. This type of subject takes an additional interest in the Einstein Theory.

Mt. Holyoke Plays Hockey
Hockey is the preferred winter sport at Mount Holyoke this year, while basketball takes second place.

NOTICES FOR UNDERGRADUATES

OFFICIAL

The repeat section in EH21 for the second term will meet as follows: Mondays and Wednesdays at 1 o'clock in 2-274. Mr. Crosby, instructor. Wednesdays and Fridays at 4 o'clock in 2-274. Mr. Fuller, instructor.

The tenth meeting of Course 5.94, Recent Developments in Science, will be held today at 4 o'clock in room 10-250. Professor S. C. Prescott of the Department of Biology will speak on Recent Developments in Fermentation.

UNDERGRADUATE

The night editor in charge of the next issue of THE TECH is P. K. Bates. Telephone, University 7077. All matters concerning the issue should be referred to him.

Married students are asked to send their names and addresses to Miss Comstock, Publication Office, Room 3-115, so that a committee of the Technology matrons may invite the wives to an organization meeting and tea, on Tuesday, January 16, in the Emma Roger's room.

A photograph of the news staff of THE TECH, for Technique, will be taken tomorrow at 1:00 o'clock on the third floor of Walker. All staff members are urged to be there.

The picture of the Institute Committee for Technique will be taken tomorrow morning at 8:30 o'clock in room 307 Walker.

Varsity and freshman basketball squad pictures will be taken today in room 305, Walker, at 12 and 12:15 o'clock respectively.

Varsity cross country picture will be taken today at 12:30 o'clock in room 305, Walker. Freshman cross country at 1 o'clock.

T. C. A. Cabinet will meet today in the back office at 5 o'clock for the regular monthly meeting.

The Young Mining Engineer By Prof. C. E. Locke

Mining may be looked upon as one of the oldest professions if we consider that our ancestor, in the stone age, dug from the ground the raw material from which he later fashioned his crude implements which served to capture his cave mate, and for various domestic uses, as well as for weapons in warfare. Here at Technology it dates from the beginning of the Institute, being one of the original courses. From 1868 down to the present it has turned out annually a group of young men who have won honors in their profession for themselves and for their Alma Mater. This, at first glance, seems strange when one considers that Technology, unlike many mining schools, is far removed from any large mining district, but this point may be held to be an advantage in that the student's training here is not affected by the environment and special practices of any one mining district, but he secures a broad viewpoint on all the districts.

Start on Engineering Staff

The professional work of a mining engineer includes broadly: geology, which deals with the formation and occurrence of ores; mining, which covers the extraction of the ore from the ground; ore dressing, which is the art of mechanical preparation to separate the valuable ore from waste; and metallurgy, which is a chemical operation to produce a metal or metallic compound from the raw ore or concentrated material.

While lack of space prevents an enumeration of all the doors which young graduates have found of service in opening on their profession, it may be said that they have been many and varied. The logical start in the mine is on the engineering staff; in the mill it is the job of sampling or assaying; in the smelter it is frequently work in the chemical laboratory; and along geological lines it is as a junior member of a field party. Many men have elected to start in the operating end of a mine, mill or smelter to learn the practice from the bottom up.

Except for a very few lean years in the industry, men have had no trouble in securing work almost immediately after graduation unless a man was very finicky as to the line of work that he desired to follow. Before the war, the average starting salary was around \$75.00 per month. Lack of supply and increased demand during the war jumped this to \$150.00, but the readjustment since the war has lowered the figure to around \$125.00.

Goal is Mine Manager

The ultimate development of the embryo mining engineer along strictly professional lines leads to the goal of mine manager, or of consulting expert, or of mine capitalist of the operating type, but owing to the very broad training given in the mining option of Course III, it is difficult to find a field which has not been satisfactorily penetrated by one or more Technology mining graduates during the past half century, including even banking, farming and the ministry.

To take a specific illustration of a class that has been out about a decade we find four mine managers, two government engineers and experts, four men holding positions of responsibility with big mining companies, two men holding similar positions in iron and steel plants, one geological engineer, one chemical engineer, one advertising manager, one commercial salesman, one sales representative for mining machinery, one in railway engineering, three in commercial business, one consulting mining engineer, one in aviation, who, incidentally, has gone just opposite to his training for digging into the earth, and one electrical engineer. A similar analysis of other classes would disclose many other lines of endeavor. More recently oil production has attracted a number of graduates each year. Men will be found scattered all over the globe and to one who delights to roam far from his native heath this may be an added attraction to the study of mining, but a man who by temperament or family ties is held close to his old home should carefully consider whether it is wise for him to study a profession which may take him far afield and may necessitate roughing it in out of the way places.

Description of Course

The mining option of Course III has always been considered as a general option to give broad training to a man who could not foretell the job that he would occupy after graduation and who should, therefore, be prepared to take whatever job presented itself. In a recent change of course scheme this option has been narrowed somewhat to emphasize especially straight mining. The course is based, like all engineering, on the fundamentals of mathematics, physics, and chemistry, which are followed by the strictly professional work of mining, ore dressing and metallurgy, but since the mining engineer has many and varied problems involving civil, mechanical and electrical engineering and geology, it is necessary to include instruction along these lines as well, and at the same time introduce sufficient cul-

tural studies to overcome the frequent criticism that an engineer is inclined to become a narrow individual. Obviously in the brief space of four years a man cannot become a fully trained engineer along civil, mechanical, electrical, and geological lines, but it is possible to give him a good look in on all four in addition to his straight mining work. The following table has been prepared to show the division of work, including total hours of exercise and preparation, during the four years and the required summer school.

Table with 3 columns: Subject, Hours, Percent. Rows include Mathematics (540, 8.7), Physics (540, 8.7), Chemistry (790, 12.7), Mechanical Engineering (850, 13.7), Civil Engineering (520, 8.4), Electrical Engineering (220, 3.6), Geology (530, 8.5), Mining (450, 7.2), Ore Dressing (180, 2.9), Metallurgy (360, 5.8), Thesis (170, 2.7), Cultural Studies (840, 13.5), Military Science and Physical Training (220, 3.6), Total (6210, 100.0)

Finally the student who plans to follow mining engineering should be in good physical condition, although not in the sense of being an athlete or a strong man, should possess a mental attitude which insists upon personal honesty and accuracy in dealing with facts and figures, and should have some inclination toward mathematics, which does not mean an extreme mathematical mind that finds little attraction in other branches of science.

"MOLLY DARLING" AT THE TREMONT THEATRE

"Molly Darling" is classed as a musical comedy but the emphasis should be rightly placed on the comedy for Jack Donahue as the leading man does nothing but fool through the whole performance.

The plot is one of a young lawyer and musician falling in love with a girl whom he hears sing and then he is sent to oust her father from his shop for not paying the rent with the result that there is considerable that has to be straightened out.

There is one musical number that stands out from the rest and is the theme piece for the play. It is called "Syncopate" and when first sung is presented as a ballad but does not take, so they jazz it up a bit and write it in fox trot time and the thing turns out to be a success.

The list of actors is headed by Jack Donahue and rightly so, for he is far ahead of the rest. His dancing is wonderful to watch for its variety and ease while his jokes and patter are earning for him a name as comedian as well as dancer. The rest of the cast are almost all good and sing and dance in a pleasing manner.

AT THE THEATRES

COLONIAL: "Good Morning Dearie." A good musical show but the songs seem a bit old.

ST. JAMES: "Enter Madame." Adelyn Bushnell in a good comedy of too much matrimony.

SHUBERT: "In Springtime." Musical show. Last week.

WILBUR: "The Bat." Still the best mystery show we have seen.

SELWYN: "The Rear Car." Mystery show. Last week.

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