

OFFICIAL BULLETINS OF GENERAL INTEREST

Rock Drills and Drill Steel Mr. George H. Gilman Monday, January 12, 4 P.M., Room 8-319

Mr. Gilman, formerly with the Sullivan Machinery Company and later President of the Gilman Manufacturing Company, will give an illustrated lecture on "Rock Drills and Drill Steel." Open to students and members of the instructing staff.

Transportation in New York City Mr. Robert A. Leshner Tuesday, January 13, 3 P.M., Room 1-190

Mr. Leshner, formerly Traffic Engineer with the New York Port Authority, will give an illustrated lecture under the auspices of the Civil Engineering Department on "Transportation in New York City." Open to students and members of the instructing staff.

Projective Constructions In The Theory of Connection Prof. E. Bompiani

Tuesday, January 13, 4 P.M., Room 4-270

Professor Enrico Bompiani, of the University of Rome, Italy, will deliver a lecture on "Projective Constructions In The Theory of Connection." Open to students and members of the instructing staff.

Popular Science Lecture Prof. Edward L. Bowles, S.M. Sunday, January 18, 4 P.M., Room 10-250

Professor Bowles, Associate Professor of Electrical Communication, will be the speaker at the Popular Science Lecture, which is under the auspices of the Society of Arts. The subject of his lecture will be "Recent Developments In Communication By Radio."

CALENDAR

Monday, January 12

7:00-9:00 P.M.—Instrumental Club rehearsal, East Lounge, Walker Memorial. 7:30-10:00 P.M.—Tech Show cast rehearsal, Walker Gym.

Tuesday, January 13

12:00-1:00 P.M.—Mortar and Ball Dinner, Grill Room, Walker Memorial. 5:00-6:30 P.M.—Pi Delta Epsilon Meeting, West Lounge, Walker Memorial. 5:30-7:30 P.M.—T. C. A. Cabinet Dinner Meeting, Grill Room, Walker Memorial. 5:00-6:00 P.M.—Banjo Club rehearsal, East Lounge, Walker Memorial. 6:30-10:00 P.M.—Boston Section, A. I. E. E., Dinner Meeting, Faculty Dining Room. 7:00-10:00 P.M.—Tech Show rehearsal, West Lounge, Walker Memorial.

Wednesday, January 14th

5:00-6:00 P.M.—Banjo Club rehearsal, East Lounge, Walker Memorial. 6:30-10:00 P.M.—Civil Engineering Society Dinner Meeting, North Hall, Walker Memorial. 7:00-9:00 P.M.—Instrumental Club rehearsal, East Lounge, Walker Memorial. 7:30-10:00 P.M.—Chemical Society Meeting, Faculty Dining Room. 7:30-10:00 P.M.—Catholic Club Smoker, Grill Room, Walker Memorial. 7:30-10:00 P.M.—Tech Show rehearsal, Walker Gym.

Select Chase As General Manager For Coming Year

Dietz, Berghell, and Anderson Receive Positions on Senior Board

(Continued from Page One) Junior Board are as follows: Edward R. Atkinson '33, Managing Editor; Donald G. Pink '33, Associate Editor; Wilber B. Huston '33, Associate Editor; Charles E. Buchanan '33, Treasurer; Gene Cary '33, Circulation Manager, and Edmund H. Lloyd '33, Advertising Manager

Following are the members of the Editorial Board: J. Robert McCaa '32, Assistant Editor; George P. Bentley '33, Assistant Editor; Herman G. Protze '32, Art Editor; Edward L. Jones '33, Features Editor; Raymond L. Brown '33, Assistant Managing Editor. The staff is now composed of Ernest R. Carr, Jr., '34, John D. Fales '34, Charles E. Fulkerson '33, Charles G. Gamble '34, William R. Haseltine '34, Frank H. Moore, Jr., '34, Charles T. Stewart '34, John G. Borger '34, Robert M. Elliot '34, Frank M. Hartz '34, George E. Merryweather '34, Walter F. Read '34, and James B. Wadhams '34.

HENRY W. TROELSCH TO ADDRESS C. E. S.

Mr. Henry W. Troelsch, Designing Engineer of the American Bridge Company, will address the M. I. T. student branch of the American Society of Civil Engineers at its next dinner meeting on Wednesday, January 14, at 6:30 o'clock in North Hall of Walker Memorial.

His talk on the subject "The Erection of the Kill Van Kull Arch" will be illustrated by lantern slides and moving pictures, and will be followed by a general discussion. All members planning to attend are requested to sign up on the bulletin board located on the first floor of Building 1.

SECOND ART LECTURE GIVEN NEXT SUNDAY

"Recent Developments in Communications by Radio" will be the subject of the second Popular Science Lecture on Sunday afternoon, January 18, in Room 10-250. Edward L. Bowles, Professor of Electrical Communication, will be the speaker.

Use of Two Bands Originally Made By Class Of 1905

Committee Will Divulge Name Of Other Orchestra In Next Issue

(Continued from Page One) by everyone may be seated in the one room.

Tables will be placed both in the balconies, overlooking the floor and underneath the balconies, opening on the terraces if the weather permits. This will make it easily possible to present any form of entertainment on the floor during the intermission, but at the same time will necessitate the limiting of the number of tickets to 250 couples.

Jack Crawford and his Victor Recording Orchestra, which is classified as one of the highest ranking company of music-makers in the country, is now playing under a contract with the Public Theatres, having just completed an engagement of eight weeks in Chicago and a four weeks' stay at the Paramount in New York City. At the present time he is here in Boston playing on the stage at the Metropolitan Theatre.

Jack Crawford leaves Boston again very shortly, for an engagement at Buffalo, from whence he will return to the Paramount in New York City. He will remain there until the middle of next March at which time he and his band will come directly to Boston for the Junior Prom.

Crawford completed his fourth consecutive season last summer at the Steel Pier in Atlantic City, and has recently signed a contract to play there for another summer. Among his more recent college engagements are the Military Ball at Colgate, the Yale formal, together with Ben Bernie, the Junior Prom at the University of Michigan for three consecutive years, and the Military Ball, the Junior and Senior Prom at the University of Illinois.

Mr. Crawford himself stoutly denies that any orchestra can stand against his in a battle of music, but the prom committee has made great effort to obtain a second orchestra of even greater renown. The name of this orchestra will be announced in Wednesday's issue of THE TECH.

A student in the Latin quarter can live on \$230 for two semesters, and his tuition, unless he takes technical training, is \$5.00 for the year.

Capacity Audience Hears Dr. Mead Speak on Boulder Canyon Project

Lecturer Outlines Advantages To Be Derived From This Construction

(Continued from Page Three)

on the summit of the Divide, five miles from the dam. Here there is fertile soil; here winds have an unimpeded sweep from every direction; here there is also an inspiring view of deserts and lonely gorges and lofty mountain peaks. When the dam is completed and a marvelous lake fills the foreground, the view from Boulder City will be so inspiring and wonderful as to be worth travelling around the world to see. The water supply for the city has to be brought from the river by a vertical pumping lift of 2000 feet. The ten mile railroad from the city to the dam is a marvel of skilful location, as is the paved highway which connects Boulder City and the dam. It is expected that another highway will soon be built on the south side of the river to connect the dam with Kingman, Arizona.

Power Supply and Current Disposal "Power for construction is to be furnished by the Southern Sierras Power Company, which will carry it 225 miles. This power equipment will be built for permanent service. When the power wheels have been installed at the dam, current from them at a much higher voltage will be carried on this line in the opposite direction. "The town planner of Boulder City is S. R. DeBoer, who has a high reputation as a city planner in the Midwest. The houses and offices of the Bureau staff have been designed by a southern California architect and will follow the general lines of these in the Panama Canal Zone. Generous provision has been made for lawns and trees for shade and windbreaks, but planting of these will have to wait for the spring of 1932. Water for irrigation cannot be provided early enough in 1931. In all, the Bureau will spend \$2,000,000 creating comfortable living conditions for workers. None of the money will be wasted. It means health and vigor of workers. The specifications require contractors to house 80 per cent of their workers in the town. It will be administered much like the national parks; it will be entirely a Federal city with three commissioners, one of whom will be the contractor of the dam. Lots for residences and business purposes will be leased with rigid restrictions as to use. It will be a temperance town. The number of stores, shops, and moving picture theatres will be restricted, otherwise every business would be overdone. The money received from leases will help pay operating expenses.

Concrete Pouring "The heat under which concrete will be mixed and put in place, added to its chemical heat in setting, has led to provisions for inserting small pipes in the concrete as it is placed which will be filled with a freezing mixture. Later on these pipes will be filled with concrete.

"Let us now consider how the money that is to go into this enterprise is to be repaid. This had careful attention from Congress. The law requires the Secretary of the Interior to enter into contracts which in the Secretary's opinion will return all the money spent on the dam with four per cent interest within 50 years, and all the money spent on the All American Canal in 40 years without interest. Contracts approved by the Attorney General have been made for repayment of the money spent on the dam. It will come from the water supplied cities and towns and from power already contracted.

Power Generation "The power plant will generate 660,000 firm horsepower with an uncertain but large amount of seasonal power to be sold during the period of high water in the river. The price of firm power is 1.63 mills a kilowatt hour, and .05 of a mill for each kilowatt hour of seasonal power. The power and water income from the contracts already signed will in 40 years bring an income of \$373,500,000. Of this the United States will receive \$228,260,000 to repay money advanced, with interest. Arizona and Nevada will each receive \$31,235,000. Operation and maintenance will absorb \$16,120,000, and there will be a surplus of \$66,650,000 which will be the net profit of the Government for going into this enterprise, to be disposed of as Congress may hereafter direct.

Value of Dam Project "In the Southwest water is gold. These great sums of money have caused the arid States to recognize the value of flowing water. It is giving rise to a political and economic struggle over its control. States, communities, and individuals have a changing conception of the nature of property rights in water. The first reaction of the Upper States to this enterprise was to oppose it. They said that the Government dam and

WALKER IS SCENE OF SENIOR DANCE

350 Couples Enjoy Music of Lamson's "Harvardians" Saturday Night

Three hundred and fifty couples enjoyed the music furnished by Roy Lamson and his "Harvardians" at the Senior Dance held Friday evening in the Main Hall of Walker Memorial. The dance which was well attended by the members of the graduating class began at nine o'clock and continued until two o'clock in the morning.

President and Mrs. Karl T. Compton, Mr. and Mrs. Horace Ford, and Mr. and Mrs. Wallace M. Ross were the chaperons for the dance. The ushers were the officers of the Junior Class. The committee of Seniors in charge of the affair were Horace S. Ford, Jr., chairman, O. Glenn Goodhand, Robert S. Backus, William H. Otis, Richard V. Bennett, and Lincoln S. Gifford.

Gavin, the florist, gave a very unique appearance to Walker Memorial by a generous distribution of flowers. Class flags were also used to lend attractiveness to the scene. During intermission refreshments were served to the guests.

reservoir would create vested rights that would enable users of this water to interfere with later development of irrigation on the upper part of the river. To overcome that objection representatives of each of the seven States and of the United States met and under the guidance of President Hoover, then Secretary of Commerce, formed a compact which created a new water law for the arid region. The compact divides the stream into two sections, and allots 7,500,000 acre feet a year to each section; 1,000,000 acre feet is left for subsequent distribution. That deals with 16,000,000 acre feet which is the average annual flow of the river. Later on the 7,500,000 acre feet allocated to the lower section was divided between Nevada, California and Arizona, and representatives of the four Upper States are working on a division of their 7,500,000 acre feet share. These rights so allocated are perpetual. They set aside the doctrine of prior appropriation which had hitherto governed the division and use of streams. Six of the seven States and the United States ratified the compact. Arizona has not done so, but has brought suit in the United States Supreme Court, claiming an ownership in the river which if recognized would make it a dictator over all future development. It is not believed that this claim will be recognized.

Federal Support "Notwithstanding the suit in the United States Supreme Court, work is going steadily forward. Congress in 1930 appropriated \$10,660,000 and the present appropriation bill carries an additional \$15,000,000. The contract for the dam and tunnels will involve close to \$50,000,000 and will be one of the largest ever let in this country. The tunnels are to be finished in two years, and the dam in 6 1/2 years. Considering its magnitude it has very few elements of uncertainty for the contractor. The Government is to buy and furnish concrete and structural steel; the contractor therefore assumes no risk from fluctuations of prices. The four tunnels which will carry the river past the dam during its construction have been so thoroughly prospected by means of diamond drill cores that contractors know the kind of material to be removed. The cofferdam is the one hazardous feature of the project. It is to be built according to plans provided by the Reclamation Bureau, and when so built all subsequent hazards of its failure or being overtopped by floods are assumed by the Government. The power machinery is to be provided by the contractors for power. Owing to its size, it will be something of a problem to install it, but some of the contractors have for a year been studying the situation and have already designed their equipment. It will have the highest towers of any work ever undertaken, and the overhead cables will lift 30 to 40 tons."

Yearling Cagers Bow To Andover In Third Contest

Beaver Freshmen Play Best Game of Season To Lose By Narrow Margin

Technology freshmen met with their third close defeat of the season Saturday evening when the Andover quintet downed them by the narrow margin of 28-23.

With a 6-4 lead at the end of the first period, the Beaver cagers seemed to have fair chances for a victory but Coach Hardt quickly sent in his regular lineup which proceeded to outscore the yearling engineers for the next two quarters.

By the end of the third period the Andover team led by 9 points. During the last quarter the Beavers staged a whirlwind rally and although they outscored their opponents they were unable to overcome the Andover lead which had been reduced to 5 points when the final whistle was blown.

The Lounger

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thank God for that, says the Lounger.

The ultimate joy in the life of the devilish old sinner (the Lounger) is to see the couples parade sedately down the marble stairs with all the serene and cold dignity of royalty—forgetting the tousled hair and non-stick lip stick has spoiled the picture.

The women, (as Towner says) "God bless 'em; Goddam 'em," were as tasty a collection of conglomerate femininity as the Lounger has seen in many a long and barren year. It is a supreme wonder to him how such a gloomy looking gang of soupy engineers can rate such charm and beauty in their femmes . . . not only his wonder but his pleasure.

To add the prophets of woe and disaster, along came Bill Greene. "In ten years," says Bill, "There won't be no activities and THE TECH will be the first to go. In five years there won't be no TECH, neither." "Well well," says the Lounger, "in three years there won't be no Bill."

As all our fellow college journalists will understand, the Lounger has answered the demand for copy and still more copy to fill space for so many years that an obsession has filled what goes for his mind. It is to run a long white blank space marked "memorandum space." Well here it is.

M E M O R A N D U M

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