

## Coolidge Draws 300 at Physical Society Lecture

States New Inventions Are Not Suppressed Because They Are Too Good

### SEES RESEARCH FIELD

"There is a large and rapidly growing field for the physicist in university, industrial, commercial, government, and private laboratories," declared Dr. William D. Coolidge, nationally and internationally known physical chemist, as more than 300 faculty and students thronged the Eastman lecture hall at a meeting of the Physical Society last Wednesday.

In supporting his statement, Dr. Coolidge cited instances from his own experience in the General Electric research laboratories in Schenectady. In the infancy of that institution he started his career as an assistant. He is now director of research in the employ of that company.

### Physicist Must Be Investigator

He warned prospective physicists not to get the impression that research in physics merely means taking accurate measurements, declaring that: "The man who merely makes the measurements will never be anything but an assistant. The research physicist must be an investigator and must be capable of taking the problem and getting the answer." He added that 15% of the money given to research at General Electric is for fundamental research.

### Efficient Inventions Never Shelved

In depicting the life of a physicist in an industrial laboratory, Dr. Coolidge said: "There may be many reasons for not marketing a new device, but it won't be because it's too efficient, or has too long a life, or is too good in any other way."

In closing, the former Technology professor detailed the things that he considered make the field of the physicist a wide one. Among them he named: Biology, physiological effect of X-rays, production of mutations in plants and animals by radiation, electronics, mechanical vibrations and the reduction of noise.

## DORM COMMUTERS DANCE TO HAVE "JAIL" NOVELTY

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between dancers. The maximum time of confinement will be two minutes, with the girls being released first. All "ex-convicts" will have the privilege of cutting in on anyone. Those resisting cutting in will be jailed. The plan will cause a continual shifting of partners.

Music for the occasion will be furnished by Ken Reeves and his Cavaliers. Reeves played at the Simmons News dance at the Statler on Feb. 24 and the Radcliffe Junior Prom on Feb. 23.

## Are You Prepared for That Dance?

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## Bankers, Brokers Ball to Be March Thirtieth

In the world of science, every effort must have its cause. Proceeding on this theory, the TECH reporter has finally been able to find the cause of the draping of the Institute bulletin boards with streamers of red ticker tape. To wit, it is being used to call attention to Corporation XV, the society that prefers stocks and business cycles to ergs and angstroms, in anticipation of their Bankers and Brokers Ball, scheduled for March 30 in Walker.

The Corporation is using this formal dance as a means of initiating the unwary scientists into the intricacies of stock market operations; for, if the stock named by the customer at sign-up time increases in value, the lucky purchaser will be given a sizeable refund from the original purchase price of \$1.50. If, however, quotations on the stock fall off, no additional payment will be required; this, according to the seers of Courses XVII, VII, or even II, is a one-sided policy, and tends to conform our belief that, as business men, the Course XV boys are not so hot.

## MORRIS CONTINUES C. E. SYMPOSIUMS ON WORLD AFFAIRS

Reviews History of Europe; Hits Treaty of Versailles Boundaries

"The Scientist Looks at Europe Today" was the subject of a symposium conducted by Professor Frederick K. Morris of the Geology Department under the auspices of the Modern Scientific Trends division of the Civil Engineering Society. Professor Morris reviewed the history of Europe and outlined the distribution of its natural resources.

He asserted that the Versailles treaty settled the entire matter of boundary lines incorrectly, since it took from Germany every means she had of reorganization according to a natural order. The policy led only to the re-creation of the fundamental cause of the last war—over-population.

Next Tuesday at 4 o'clock in Room 2-278 the Geology professor will again speak, and will tell something of the nature of the various races and the reason for their geographical situation.

## JEWETT SELECTED LIFE MEMBER OF CORPORATION

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neering. After completing his studies at Technology, Dr. Jewett entered the American Telephone and Telegraph Company as a transmission engineer. He was promoted to various positions of executive responsibility, and in 1925 assumed his present duties.

Since his graduation from Technology in 1901, Mr. du Pont has been closely identified with the development of the du Pont de Nemours Company. He began his career as a draftsman in Philadelphia, and joined the company of which he is now president in 1902. He is a member of numerous clubs and is a life member of the Technology Alumni Association.

### DESPAIR

(Continued from Page 2) lost, and who have no faith. These

## Sophomore Dance Suffers Deficit

Losses Roughly Estimated as Equal to Cost of Chorus and Floor Show

Because of the comparatively small attendance, the Sophomore Hop suffered a loss roughly estimated by committee members as equal to the price of the floor show. About two hundred couples attended the dance which was held in Walker last Friday. Chairman Phillip Briggs, President of the Sophomore class, had nothing to say regarding the deficit.

Two floor shows were presented during the evening. At eleven o'clock, the Prom Girl, Miss Marjorie Peterson, arrived. She was presented to attendants and members of the committee. Later, she and members of the chorus and floor show participated in the general dancing. Refreshments were served throughout the evening.

The committee is planning another and informal dance to be held some time in the future.

## League Discussed at Open Meeting

National Student League May Start First Chapter at Institute

The program of the National Student League, a student organization with chapters in about 180 colleges throughout the country, will be discussed in an open meeting this afternoon at 4 o'clock in Room 4-231. The possibility of starting a chapter of the N. S. L. at Technology will also be discussed.

This organization is one of the largest student organizations in the country. It is guided in its policies by a program formulated at its annual convention, which is made up of representatives of the local chapters. The program states the attitude of the National Student League toward retrenchment in education, militarism in education, racial discrimination, abrogation of the rights of free speech, and other student problems. The last convention was held in Washington, D.C., during the last Christmas vacation.

All those interested in the National Student League and its program are invited to attend the meeting.

individuals are really the lost souls of our generation, they are the living tragedies of our time. They are the sheep without a fold.

It is no use to advocate a blind and boundless faith—this is too much to expect. Intelligent people can no longer look for any immediate solution of the world problems. Possible there will eventually evolve some sort of stability—the prospect is certainly not in view. What, then, can be offered to those weighed down by despair? Only this—the lesson of the Stoic, with an important modification.

## SERVO-MECHANISM SHOWN BY PROFESSOR H. L. HAZEN

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sists of an open slit in an otherwise dead black sheet of metal through which the paper on which the curve is drawn can be seen by a photo-electric cell or "electric eye." This slit, and the paper under it, is brightly illuminated by a small electric flash-light lamp. If the slit is entirely over the blacked portion of the paper, the photo-cell gets very little light. If the slit is entirely over the white paper, the photo-cell delivers to the amplifier a current which depends upon the amount of light that enters it, and the amplifier in turn delivers to the motor a current depending upon the current delivered by the photo-cell.

Motor Regulated by Photo-Cell The electric circuit is so adjusted that if the photo-cell receives too much light the motor runs in one direction, while if it receives too little light the motor runs in the opposite direction. This motor, through the torque amplifier, drives the slit by means of a screw and nut, the torque

## Heavy Love Scene From "What Again"



Robert E. Lindenmeyr, '35 and M. Scott Dickson, '34

## GLEE CLUBS SING OVER NATION-WIDE BROADCAST CHAIN

Ninety Simmons and Technology Students Present Dual Concert Tonight

Surmounting difficulties connected with obtaining a coast-to-coast broadcast network, the management of the M. I. T.-Simmons Glee Clubs Concert has arranged to broadcast its program nationally, originating at Station WBZ.

Miss Marjorie Nash, young Simmons graduate, will be featured as lyric soprano soloist. She is making the trip here from New York especially for this concert.

The concert, at which the voices of forty Simmons students and fifty Technology men will blend, will be held at Jordan Hall this evening. Admission prices range from 25 cents to \$1.50.

### PROGRAM

- COMBINED GLEE CLUBS
- Missa Brevis (In four parts) Palestrina
- MARJORIE NASH, Soloist
- M. I. T. GLEE CLUB
- Jerusalem
- The Old Woman
- Down Among the Dead Men
- INTERMISSION
- SIMMONS GLEE CLUB
- Rejoice Ye Pure in Heart
- Flower of Dreams
- Spring
- Morgen
- My Johnnie Was a Shoemaker
- Cherubim
- COMBINED GLEE CLUBS
- Tchaikowsky

amplifier serving merely to increase the horsepower effect of the motor.

The direction of the drive is such that if the photo-cell sees too much white paper through the slit, the motor will drive the slit toward the black part of the paper, while if it sees too much black, the slit is driven toward the white part of the paper. When the paper seen by the photo-cell is half black and half white the motor has no current through it and does not turn. Thus the center of the slit is always kept on the boundary between the black and white portions of the paper. If now the board on which the paper is mounted is moved in a direction at right angles to the direction in which the slit is moved by the motor, the servo-mechanism will operate so as to keep the center of the slit always over the line dividing the black and the white. At the same time that the motor moves the slit, it turns another shaft which it is desired to move in accordance with the curve on the paper.

### Brake Is Necessary

To prevent the slit traveling too far, suitable "damping" or braking is provided which stops the motor just as the slit has reached the correct position. It is very important to design a servo-mechanism with just the correct amount of this "damping."

In the motor lies the secret of the rapid action. The moving parts of

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## Lindenmeyr and Dickson Lead in 1934 Tech Show

Dress Rehearsals Will Begin Next Sunday Evening in Walker

### TO SATIRE CONDITIONS

Hero and heroine of "What, Again!", the 1934 edition of Tech Show, will be played by M. Scott Dickson, '34, and Robert E. Lindenmeyr, '35. Dickson, who plays the part of Roger, the hero, is a graduate of West Point, where he wrote what was the most successful and popular Hundredth Night Show, in which he took the leading part and coached the dancing. Lindenmeyr, who plays the part of the fair "Gladys," has never acted before.

"What, Again!" was written by Robert M. Becker, '34, and Arthur B. Ellenwood, '34. It is a full-length musical comedy satirizing present day conditions and governmental action. Rehearsals are under the direction of Professor William C. Greene of the English Department, and Langdon Matthews, professional dance coach of Boston and veteran of Tech Show choruses.

Music for the show was written by Eugene S. Clerk, '34, and George E. Weustefeld, '34.

Fancy dances this year will be a "mechanization ballet" and a penguin dance with its setting at the South Pole. It is unofficially hinted that a live penguin will be imported to the Main Lobby for demonstration on Monday.

Completion of the erection of the stage, which will be in Walker Memorial, takes place today. Although this involves more work for the stage crew, it is felt that the use of the gymnasium in preference to a Boston theatre has a greater appeal to Technology men. Dress rehearsals take place Sunday, Monday and Tuesday; the show will be presented Wednesday, Thursday and Friday evenings.

this motor have very little weight, the iron which usually rotates having been made stationary. As a result, this motor can start and stop with great rapidity and takes but little current.

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