

20,000 EXPECTED TODAY FOR TENTH OPEN HOUSE

DIRECTORY

Technique Rush, Tech Field.
Track Meet—Maine vs. Technology, Tech Field.
Crew Races, Charles River Basin.
Tea Dance, Walker Memorial, afternoon.
Musical Clubs Recital, Walker Memorial, evening.
Activities in Walker Memorial.
THE TECH Exhibit, Rm. 2-132, Rm. 3, Walker Memorial.
Institute Libraries Open.
Military Equipment, Hangar.
Lacrosse Game, Coop Field.
Minor Sports, Walker Gymnasium.
COURSE I: Rm. 1-345, Model electric trains; Rm. 1-238, accelerometer and seismograph; Building 1, 2nd floor, surveying instruments, drawings, and models of structures and bridges.
COURSE II: Rm. 1-010, 1-110, 1-210, 1-310, testing materials laboratory, tests of timbers, hardness, concrete, ropes and wire; Rm. 3-050, 3-150, 3-250, steam and hydraulics laboratory, turbines, steam engines, steam tests, hydraulics tests; Rm. 3-350, machine tool laboratory, square drill, millers, punches, drillers; Rm. 3-313, 3-311, 3-329, textile laboratory, fabric testing, color testing, textile machinery; Building 44, refrigeration laboratory, air conditioning, household refrigerators; Building 35, Rms. 35-150, 35-175, 35-250, forge shop, foundry, and pattern making shop; Rm. 3-440, drafting and design.
COURSE III: Building 8, basement, blast furnace; 1st floor, stamp crushing mill; 3rd floor, fire assaying of gold ore; 4th floor, heat treating and metallography.
COURSE IV: Rm. 1-250, architectural work of students.
COURSE V: Rm. 10-275, chemiluminescence; Rm. 4-151, 4-161, 4-251, 4-261, freshman chemistry laboratories; Rm. 3-310, depression plants; Rm. 4-440, vacuum distillation; Rm. 4-465, Mercury purification; Rm. 4-047, gasoline distillation; Rm. 4-009, molten steel pouring.
COURSE VI: Rm. 10-338, "mechanical brain"; Rm. 10-395, network analyzer, high voltage research; Rm. 4-317, electro-gardiograph; Rm. 10-303, 10-322, 10-385, communications laboratory, telegraph instruments, amplifier; Rm. 10-023, 10-271, illumination laboratory, spectro-photometer, photo-electric alarm, photo-electric cells, thyatron dimmer; Rm. 10-046, sound research; Rm. 10-050, 10-150, dynamo laboratories, DC and AC generators, household appliances, induction furnace, high-tension line, telephone exchange; Rm. 10-160, cosmic-ray telescope, electron measurement, high-voltage exhibit; Rm. 10-250, stroboscope, high speed motion pictures and cameras; Rm. 3-003, manufacture of vacuum tubes.
COURSE VI-A: Rm. 10-267, teletype-writers, railway safety devices, model hydro-electric station.
COURSE VII: Rm. 10-470, trout pond; Rm. 10-475, bacteria pattern; Rm. 10-411, microscopic film; Rm. 10-480, human anatomy; Rm. 10-460, freezing foods.
COURSE VIII: Building 6, Eastman lecture hall, glass blowing; 1st floor, 100,000 volt generator; 2nd floor, atomic light; 4th floor, x-rays, electron diffraction; basement, metal evaporation, spectroscopy, spectrograph, interferometer; Building 8, basement, photo-
(Continued on page six)

DR. E. H. HUNTRESS TO DEMONSTRATE HIS 'COLD LIGHT'

"Luminol" Gives Enough Light,
When Oxidized, To Take
Picture

SUBSTANCE KEPT SECRET

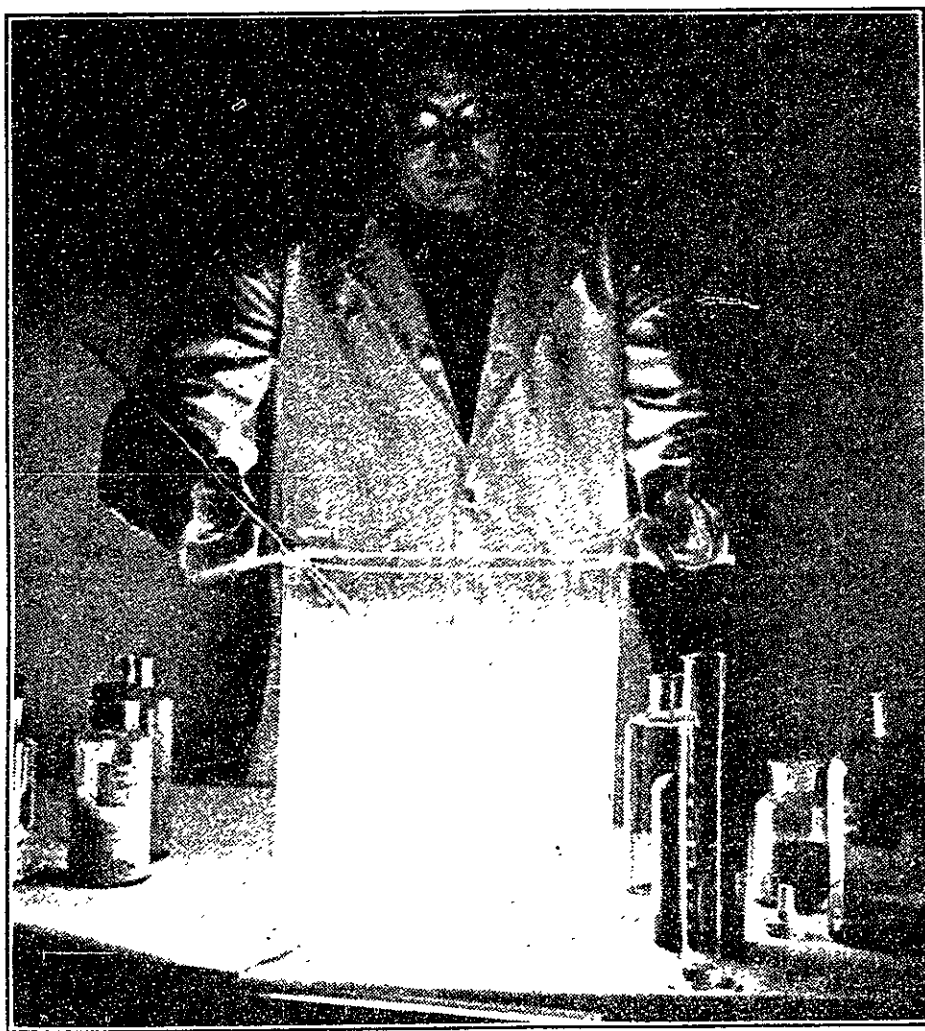
Chemiluminescence, or the production of "cold" light by means of chemical reaction at relatively low temperatures, will feature the Course V exhibit today. Recent discoveries of Dr. Ernest H. Huntress make possible this startling and remarkable demonstration.

An organic substance which Professor Huntress has kept secret under the name 'luminol', is oxidized in a mildly alkaline solution. Although the reaction occurs at a temperature so low that a piece of ice in the solution will not melt, enough light to take a picture is produced.

In the accompanying picture Dr. Huntress is shown preparing the solution.
(Continued on page six)

Progress in Scientific Research Depicted by Varied Exhibits Given by Professional Courses

Dr. Huntress Preparing Chemiluminescence



Picture Taken by Illumination of "Cold Light"

CHINESE ABACUSES WILL BE DISPLAYED

Abacus Was Used By Ancients 3000 Years Ago

How the Chinese have added, subtracted, and multiplied for the past three thousand years will be shown by the Mathematics Department in its Open House Day exhibit of abacuses and more modern versions of the calculating machine in room 4-138.

Throughout the day members of the department will present demonstrations designed to amuse and inform the visitors.

HIGH SPEED FILMS SHOWN IN 10-250

Unsuspected Facts Revealed By Camera Developed Last Fall At Institute

Motion pictures, taken at a speed of 500 frames a second, will be shown today in Room 10-250 at 4:00, 5:00, 7:00, 8:00 and 9:00 o'clock.

These pictures are made possible by research done last fall at the Institute by Professor Harold E. Edgerton and Kenneth J. Germeshausen, '31 of the Electrical Engineering Department. These men have invented a method of synchronizing the intense light source coming from a stroboscope with film passing the lens of the camera at the rate of 200 miles per hour.

Milk Drop Shown in Spatter
Among the motions which will be slowed down to normal projection speed are photographs of a drop of milk dropping into a container of milk, an electric light bulb being smashed by a hammer, a snake's tongue darting, water flowing from a jet in apparent steady state, and a ribbon fluttering in the breeze. Many startling observations are made through the aid of these pictures, and many facts are revealed which could never have been predicted with the aid of the human eye alone.

EXHIBITS SHOWN IN BUILDING 35

Display Going On, Isolated From Central Group Of Buildings

While the great bulk of the exhibits are being held in the main group of buildings, far removed from this group, in Building 35 situated on Vassar street, separate exhibits are being given by students in the courses of Foundry, Forging and Pattern Making of the Mechanical Engineering Department.

In the Foundry, Room 35-250, machine moulding and Aluminum casting are exhibited under the direction of Jeremiah F. O'Neill and Claude H. Clark, instructors. Visitors will be able to follow the progress of cast metal from pig to finished product.

Novelties Distributed in Pattern Shop

In the pattern making shop, Room 35-175, under the direction of the above men, students continue making souvenirs, which they began several weeks ago. These souvenirs, which include table lamps, curtain rods, loving cups, candlesticks, rolling pins, and other unusual miniature wooden articles, will also be distributed to visitors.

SPORTS, STUDENT ACTIVITIES OFFER VARIED PROGRAM

Track Meet, Technique Rush To Feature Afternoon's Athletic Events

TEA DANCE IN WALKER

Miniature Railroad, Model Of Cape Cod Canal Among Displays

Twenty thousand visitors from all parts of the eastern United States are expected to attend the magnificent pageant of science and engineering which will be presented this afternoon when Technology throws open its doors to the public in its tenth annual Open House.

Hundreds of experiments and exhibits demonstrating the very latest achievements in all fields of applied and theoretical science will be offered while practically all of the Institute's regular laboratories will be in full operation throughout the day.

Many Exhibits Spectacular
Open House will present a panorama of recent progress in technical fields, the various departments of the Institute having prepared their most spectacular and interesting demonstrations for the diversion of their guests.

Student Activities Busy
Visitors will also be accorded an opportunity of viewing student activities and athletics during the afternoon and evening. At two o'clock Technology and the University of Maine will hold a track meet on Tech Field, after which will come the traditional Technique Rush for free yearbooks.

A lacrosse game on the Coop field, and a review of minor sports in the Walker Memorial Gymnasium will complete the athletic program. There will be a Tea Dance in the gymnasium between the halves of the sports exhibition.

Freshman R. O. T. C. Men Guide Wandering Visitors

Plain and fancy coal-shoveling will feature one part of the special exhibit being staged today by freshmen in the Institute's R. O. T. C. Unit. Only a few first-year men, however, will show their skill in this phase of the work, most of the group having been assigned to guide duty about the buildings. The liveried youngsters will be posted at strategic positions around the Institute and will direct visitors to points of interest during the day.

Glassblower Displays Handicraft By Making Intricate Ship Models

J. E. Ryan To Blow Glass Ships And Shape Scientific Apparatus

Blowing intricate glass ship models and laboratory apparatus will be shown as a part of the Open House demonstration today from 2 to 10 o'clock in the new Eastman lecture hall. J. E. Ryan, Institute glassblower who will display his handiwork, has worked at this occupation for twenty-five years.

Besides making a ship-model in the afternoon and another in the evening, Mr. Ryan will do work covering scientific apparatus, neon glassware, and fancy blowing including birds, dogs, and deer.

Worked With Famous Scientists

While working at his ancient trade, Mr. Ryan has met some of the most famous scientists of today. Among them may be named Langmuir, Steinmetz, Rutherford, Marconi, and Millikan. Mr. Ryan constructed much of the special apparatus that Langmuir used in his experiments. Among other things he was the first to make a high vacuum condensation pump.

Although he was stationed in Washington as a member of the Chemical Warfare Service during the World



James E. Ryan At Work On An
Intricate Piece of Apparatus

War, Mr. Ryan was gassed as a result of someone's negligence. One day he was given a tube to work with which had not been washed out after being used in an experiment. Small traces of highly poisonous gases sent him on sick leave for six weeks.

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In this corner, ladies and gentlemen, is a special exhibit of what brains can't do, or what no brains can do. This department is run solely for the amusement of its author's poor beknighted brethren.

Despite the fact that our marble facades give to something which has been aptly compared to a factory, and despite the fact that these same floors which you should now be treading, have been fiendishly designed to make the human feet ache the faster, in spite of these handicaps, there are occasions which make all worth while, and it is the likes of this I now relate.

There was a certain professor in a certain department who was noted for the strictness with which he kept class. It was not at all unusual to find the door locked at twenty after the hour, and several lates on the record were a matter of grave import, insofar as the marks were concerned.

Now it so happened that in one of the classes of this professor there was enrolled a student, notorious for his agile mind and daring remarks. He was also known for his indifference to the formality of class hours. And every time that he appeared late for this professor's class, the class was interrupted while the lad was questioned and publicly embarrassed.

One morning he appeared on the scene later than ever. Eye witnesses say that there were only fifteen minutes left of the hour. However he strolled nonchalantly in, and seated himself diffidently right under the professor's glaring eye.

"Harrumph," he intoned, "Now what has kept you this morning, Mr. —?" And proceeded to look as nasty as a professor looking nasty.

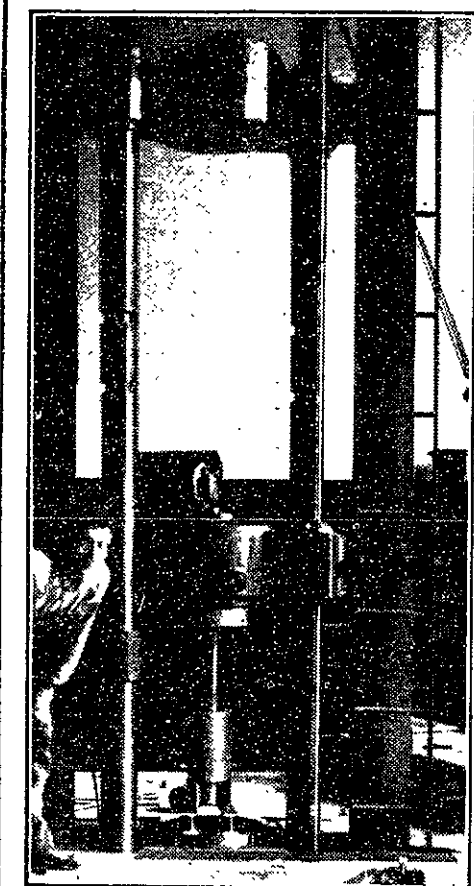
"Well, Professor Schnitz," began the boy, "It's really quite a long story, but you see— I went to bed early last night, professor, after studying your lesson hard, and arose early this morning, just so I could be here on time and fresh as a daisy. After a brisk walk I had an invigorating shower, professor, and thence to a piping hot breakfast, with everything coming just according to schedule.

"And everything went along just right, professor. I even had all the stop lights with me on the way to school. That is, all the lights save one. Just as I drew to the other side of the bridge, traffic was halted, and as I stopped with it, an enormous truck drew alongside of my car and the driver leaned down and said to me, 'Say, do you go to M. I. T.?' And I said, 'Yes.' And he said, 'Do you know Professor Schnitz?' And I said, 'Yes, what of it?' And he said, 'Well, he's a son of a—' And do you know professor, it took me just one hour to catch that man."

Sometimes, however, the backlash comes the other way. Consider the case of our friend who was involved in a language class, and had just had something pointed out to him as wrong, by the instructor.

"Well," he said, impressively, "In every other language I ever studied,

Breaking Tests On Construction Material Shown In New Research



Giant Material-testing Machine

Visitors May Examine Sections Of Tested Bricks Under Microscope

Building materials of brick and mortar will be submitted to a series of examinations and breaking tests in a demonstration to be given today in Room 4-033 by the Building Construction Department.

The Mechanical Engineering department occupies building three and part of building one, and each department will have one or more exhibits today.

On the third floor is the Machine Tool lab, with 190 modern machine tools. At least one of each kind will be in operation, and students will be glad to explain their functions.

The Testing Materials lab takes up all four floors of the adjoining ell of building one. On the first floor are timber and rope testing experiments. The second floor tests miscellaneous things, including the hardness of various substances.

T. E. N. Contains Varied Articles On Open House

President Karl Taylor Compton Writes On "The Institute Of Tomorrow"

Right to the point is the May issue of The Tech Engineering News. A special Open House offering, its pages are as diverse in content and as interesting to read as the exhibits about the Institute are to see.

President Compton's article, entitled "The Institute of Tomorrow", is stamped with the character of the scientific man. In a very definite and lucid style he presents to the public a description of where the Institute is going, and shows that it has kept

its that way." The instructor stopped and considered. It was obvious that he was thinking of the analogous case in at least ten other tongues, which included Hindustani and Sanskrit, one might suppose.

The instructor, looking puzzled, then addressed himself to our friend. "Well," said he, "I don't recall any others as you say." Then an afterthought struck him. "Oh, how many other languages have you studied?"

Our friend's face took on a crimson hue. "Why, er-er," he hesitated, "Only French so far."

SYMPHONY HALL

TONIGHT—8:30

POPS

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ENGINEERING

WHAT do you expect to gain from an engineering education? A group of graduates from engineering schools, members of Tau Beta Pi, has expressed the opinion that the habits and viewpoints formed in college were the most important part of their education.

On reading other reports by engineering graduates we find further demands for improvements in teaching. To benefit the student, the teacher must be both interested and enthusiastic. If his main interest takes him away from the classroom he is bound to be ineffective.

Engineering training offers many advantages which are peculiar to itself. The student learns to work hard and efficiently. He is brought into contact with others who are engaged in serious study. He learns to think in a logical manner. These are advantages which he may not be able to have at another college.

The training given by an engineering education has many advantages over one of a strictly "liberal" nature but the administration of this training in our engineering schools minimizes them to a serious extent.

THEY'RE NOT PLAYTHINGS

SOME twenty-five thousand people today will crowd into exhibition rooms and watch queer little gadgets go round, or gaze open mouthed at spectacular demonstrations in chemistry and physics. Each will find a good many things that will puzzle him. Some of the phenomena will not have the slightest meaning to the untrained mind.

To illustrate the above statements let us look into the development of our modern radio systems. They are the result of Marconi's playing with the wave theory of Hertz and thus conceiving the idea of transmission without the aid of wires. When he first developed the idea, the scientific world was skeptical about his little toy. In fact, he was termed a "presumptuous boy."

These demonstrations which are now in progress should be viewed with the understanding that they have some recognized or unrecognized practical application, and that they are not the result of one man's investigation.

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SPORTS COMMENT

The track meet with Maine today should be very close and will undoubtedly give the Open House visitors plenty to watch. Dick Bell will be entered in the dashes and should be able to win both the 100 and 220-yard events. However, the Maine team is strong in the weight events and the longer runs. Walt Wrigley looks pretty good in the broad jump after nearly winning the Greater Bostons last week, while Ed Pierce and Charley Hill should also score some points.

Crew enthusiasts have enough to amuse them this afternoon, with three races scheduled on the Charles. The second 150-pound varsity, the 150-pound freshmen, and the second freshman heavies will each race rival boats from Harvard. Meanwhile, the first freshman boat, which has been improving steadily of late, will tackle Groton on the latter's home course.

A glance at the times turned in by the three heavy Engineer crews in the Compton races last Saturday gave us a real surprise. Over the mile and three quarters, the freshmen made the best time, next came the junior varsity, while the varsity boat was the slowest. This apparent paradox becomes clearer when weather conditions are remembered, however, for the wind was much worse later in the afternoon.

We contribute a belated notice on Charley Hall, former cross-country star, who left school in February. Running against a strong field, Hall captured the fourteenth annual 10-mile run of the O'Connell Post American Legion in Jamaica Plain on April 19. The former Technology flash, who holds the freshman mile record, won by one yard after a great struggle with Linden Dempster of the Norfolk Y. M. A. The Newton boy's triumph is just another of the many feather's in Oscar Hedlund's cap.

Another alumnus Joseph Levis, '26, recently captured the national foil fencing championship for the third year in succession. Levis, has ranked as one of the country's leading swordsmen for some years, and has twice represented the United States in the Olympics.

Geology Department Gives Story of Past

Illustrating the story of the elephant, the horse, and the dinosaur, together with that of many sea-creatures, a display of animals of the past and present is exhibited on the third floor of Building 4 by the department of Geology.

One of the largest crystals of platinum ore ever found is among the exhibitions of ores of diamonds, gold,

silver, and other gems and precious metals.

In the Geology Laboratory there is a complete range of geophysical prospecting instruments employed in finding ore bodies and oil fields, and for indicating depth of soil above bedrock in civil engineering foundation problems. This apparatus includes a modern magnetometer used to measure slight differences in the magnetism of rocks; a portable power plant for inductive electrical prospecting; and apparatus of the latest type resistivity electrical prospecting.

DURALUMIN FOR 'PLANES TESTED

Testing to destruction of a twelve foot duralumin cylinder constructed along the lines of an airplane fuselage in a 100,000 pound testing machine is one of the features being presented today in the Testing Materials Laboratory, Room 1-210. The test is being carried out by the Aeronautical Engineering Department under the direction of Professor Joseph S. Newell.

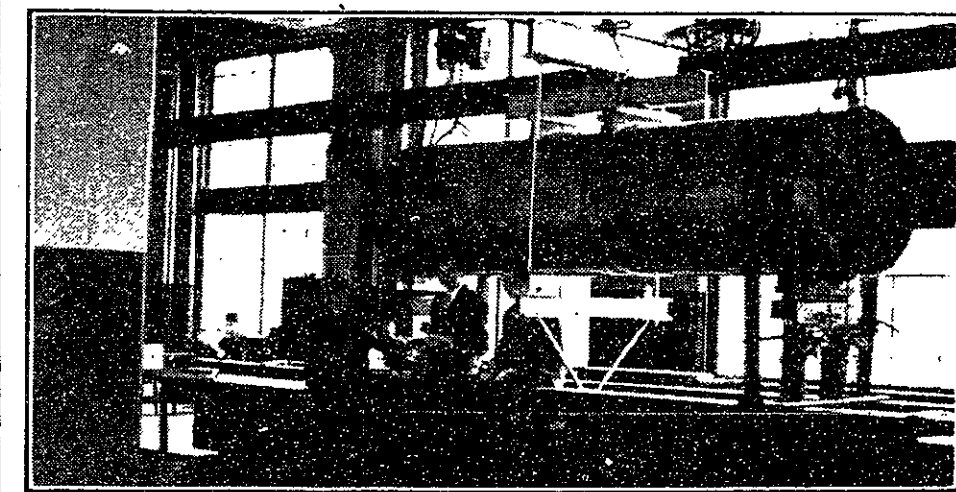
The cylinder, weighing four hundred and ten pounds and measuring three and one-half feet in diameter, is supported at the ends. Pressure from the testing machine is applied at two points near the center so as to obtain pure flexure with no shearing forces. A study of the properties of all metal airships is made possible by the airplane fuselage construction of the specimen.

Gives Demonstration of Venturi Meter

For its Open House exhibition in Room 2-110 today the Department of Chemical Engineering is featuring a demonstration of the Venturi Meter. In this demonstration water will flow through a tube narrowed in the middle to about one-fourth of its original size.

At frequent intervals along the

Duraluminum Cylinder To Be Tested



Will Be Destroyed Under High Pressure Today

length of the tube protrude glass tubes in which colored water is placed. The pressure of the water flowing in the tube keeps the colored water in the glass indicators at a certain level. According to the well known principle of Bernoulli the pressure will decrease as the bore of the pipe decreases and consequently a lower level of colored water will be found in the indicators near the narrowed part.

There is also an experiment in counter-current absorption of iodine from water by carbon tetrachloride.

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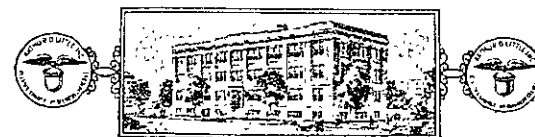
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Walker Memorial Building

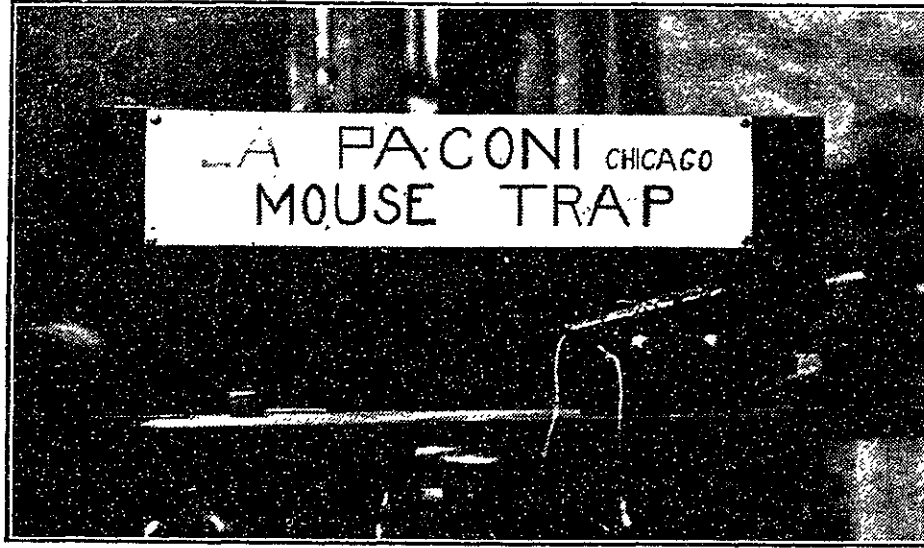
MICE PUT ON SPOT BY BEAM OF LIGHT

Sound Transmitted By Means Of Electric Arc Beam Also In 4-010

Along the same lines as the famous Rube Goldberg inventions is the "La Paconi" mouse-trap which is being demonstrated today in the Radiation Measurements Laboratory. According to the inventor a mouse runs from a hole to a place marked by a cross and called appropriately the "spot". As he arrives at the fatal position he interrupts a beam of light from a photo-electric cell. This action trips a relay which in turn causes an electro-magnet to set off a small cannon.

A small pellet flies from the cannon to the spot marked "X" and the mouse is accordingly disposed of. It is not expected that this invention will have any commercial use even though it never fails to hit the mouse, as its cost is one hundred times that of the ordinary twenty-five cent trap.

Device Exterminates Mice Instantaneously



Rube Goldberg Mouse Trap Costs 100 Times as Much as Spring Trap

CHEMILUMINESCENCE

(Continued from page one)

Huntress is shown performing the experiment. An idea of the light evolved may be gained from the fact that in this particular demonstration the concentration of the "luminol" was

0.006%. Mr. Charles M. Wareham of the Department of Chemistry made the picture.

Considerable curiosity has been aroused in speculating as to the identity of the substance that is used.

Dr. Huntress will perform his che-

DIRECTORY

(Continued from page one)

electric mouse trap, invisible light, talking arc; 2nd floor, color analyzer; Building 4, 3rd floor, optical instruments.

COURSE X: Rm. 2-110, Venturi meter, Godini absorption; Rm. 2-010, wind tunnel, vacuum pump, cracking of methane.

COURSE XI: Rm. 1-345, model sewage disposal system.

COURSE XII: Building 4, 3rd floor, fossils, ores, strata, other geologic display.

COURSE XIII: Building 5, 1st floor, Nautical Museum, Naval library, yachts; 2nd floor, model cutting, 4th floor, drafting, design, pictures.

COURSE XV: Rm. 2-145, Castype, type-setting machine.

COURSE XVI: Building 33, basement, wind tunnel plane tests, airplane control tests, instruments, streamline modelling; 3rd floor, soaring gliders; Rm. 1-210, duralumin destruction test.

COURSE XVII: Rm. 4-033, brick and mortar testing; Rm. 1-010, concrete making; Rm. 1-230 building frames.

COURSE XVIII: Rm. 4-138, Chinese calculators, computers.

ENGLISH DRAMA COURSE: Rm. 2-190, presentation of plays; Walker gymnasium, 3rd floor Walker Memorial, evening presentation of plays.

Waiters Attention

A novel training course is being conducted by the Syracuse university cafeteria. The purpose is to train students who wish employment, in the fine points of banquet service.

Chemiluminescence demonstration three times today, at 3, 5 and 8 o'clock in Room 10-275.

Patriotic Bacteria Make American Flag

Colored bacteria will form the American flag in Room 10-475. The flag was made by arranging the various micro-organisms in the required pattern on gelatine plates upon which they multiply. In the same room will be shown a few of the animals upon which vitamin and other tests are being conducted at the Institute. One thousand white rats are used for experimental purposes.

Conducted by the same department, movies will be shown continuously in Room 10-411.

Creamed Chicken
a la King
Sweet Potatoes
Roll and Butter

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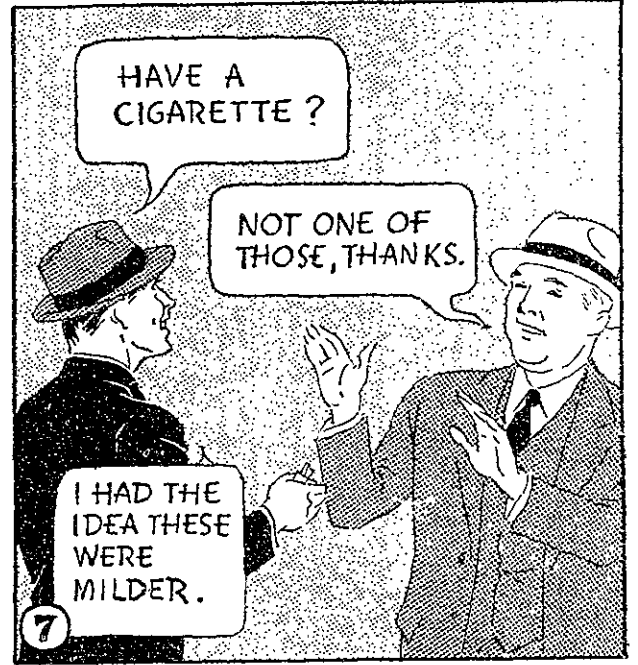
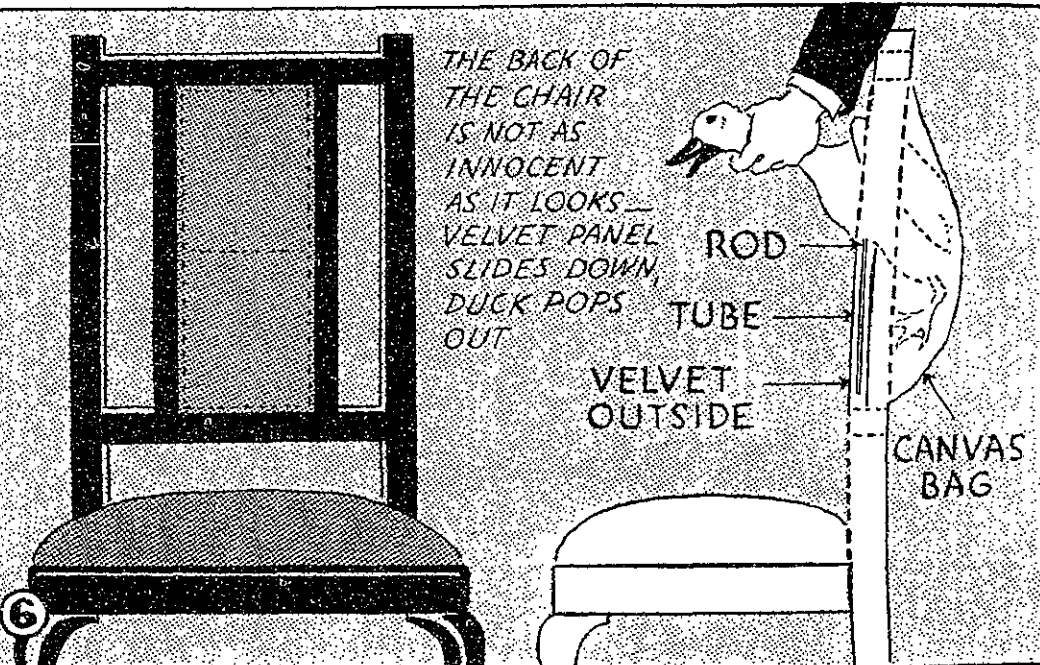
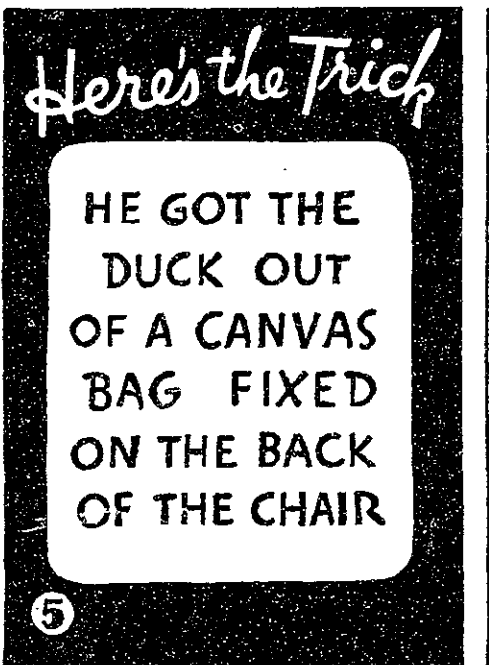
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