Rice Institute Engineering Club to Show Public How It Is Done

A night scene at the institute, and executed by Rice engineers.

The engineering show to be conducted by the Rice Engineering Club May 7, beginning at 2 o'clock in the afternoon, will have factors of interest not only to the technically skilled but to the laymen as well. Various sorts of displays will be held, the equipment of the club's mechanical, electrical and chemical engineering departments and that of the physics department, being arranged so that it may be thoroughly inspected, and many of the mechanical devices being in actual operation during parts of the day.

Perhaps the most interesting single bit of machinery or equipment on display will be the gasoline motor which was made, piece by piece, by the Rice Institute students. The engine is in full running order. It was made at the institute in the thoroughly equipped machine shop which will also be open to visitors Friday.

The principles of the gyroscope will be demonstrated at the show by a miniature Brennan Mono-rail Company model train, probably the only one in the South.

Household Exhibit.

Of particular interest will be the display of household appliances of a mechanical nature. Included in this display will be a number of types of incandescent electric lights, showing the marked changes which have been made in the lights since the first ones were made.

Demonstrations of what is known as spot welding by electricity will be held. This system of welding was made commercially practical during the war when it was used extensively to weld together the plates of steel ships.

Thermite welding will also be demonstrated. Thermite is an alloy of recent discovery which, when ignited with manganese, continues to burn, liquefying and covering the surfaces to be welded. It is used most extensively only made in Germany. Drugs and explosives will also be shown in all stages of their manufacture. Certain explosives will be made and ignited during the demonstration.

Low-temperature alloys have been discovered which, though hard at their ordinary temperature, can be melted by putting them in water. Some of them melt at such low temperatures that they must be held in the hand in a moist state.

Various sorts of mechanical equipment of which the institute is justly proud will be on exhibition: the giant power plant which furnishes the institute with steam heat, electric light and ice water will for the first time be open to the public; machines for measuring the tensile strength of building materials; machines for determining the horse-power of engines, and machines to measure temperatures in the thousands of degrees.
A night scene at the Institute. This plan of illumination considered and executed by Rice engineers.

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Thermit welding will also be demonstrated. Thermit is an alloy of recent discovery which, ignited with manganese, continues to burn, liquifying and covering the surfaces to be welded. It is used most extensively in welding together large pieces of metal, such as large crank shafts.

Two wireless sets will be on display at the show, one being an amateur set of pre-war days and the other one of the latest types of amateur sets. The former is a crude instrument, compared to which the latter, capable of sending and receiving with a radius of 1000 miles, is a miracle of mechanical perfection.

The latter set was donated to the Institute by H. H. Hughes. The chemical laboratory will show an exhibition of American middle eats, which before the war were only made in Germany. Drugs and explosives will also be shown in all stages of their manufacture. Certain explosives will be made and ignited during the demonstrations.

Low temperature alloys, so-called because they melt at extremely low temperatures, will be shown. Certain alloys of common metals have been discovered which, though not at their ordinary temperature can be melted by putting them in warm water. Some of them melt at very low temperatures that they may be held in the hand in a molten state.

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Saturday night

my dearest sweetheart,

Today didn't turn out at all like I had planned it. You remember I told you I was going to town and then come back out and work, well I went to town alright and while there I went to a picture show which I thought was awfully good, it was "The Shadow of Rosalie Byrne" with Elaine Hammerstein and I like her anyway, well when I came out of there, I met Ethel and then we went walking around, and they wanted me to go out and eat with them but I said I had to come out and
work. So I came out and
found your dear letter waiting
for me, and then after supper
Nash and I took a walk
and I just kept getting worse
and worse and finally de-
cided that I was going back
to town. So I phoned Ethel
card and told her I was coming
out and she said come
ahead, and we went
riding dear, with the
whole back seat empty.
Malcolm and Arthur had gone
to La Porte, so we had
the car. Darling that back
seat surely isn't going to
be empty when you are
here. Honey mine I don't see
how I am going to wait that long. Anyway five weeks from tonight and I'll have you again, my but that seems good to say that.

Sweetheart I'll write some more tomorrow. I just feel like I have got to get some sleep now. I love you darling with all my love. Pleasant dreams.

Sunday afternoon.

I just got thru washing out a pair of overalls, so now I can be clean again for tomorrow. I hate to run around with them when they are all dirty. I have been grading papers all day.
That is ever sure about nine and as soon as I got thru I washed - my overalls - and now I am having the best time I can have as long as I am away from you. You know it sure is a rest to write a letter to someone that you really want to write to and I sure like to write to you.

No I never will forget Jan 1-1917 either. Doesn't that seem like a long time ago to you. And the next night you and I and Gil and Ethel went to the Majestic didn't we? I know I had just gotten home.
and in bed when papa got up and started lighting fires, and then not so very many hours later I was back up at your house. But it wouldn't make any difference now whether they knew that I stayed out all night or not, as long as I'm with you. Last New Year's they didn't even know that I didn't come home until in the morning. I am afraid you are going to have to run me off when I come up this summer because I know I am not going to want to leave.
Honey, I certainly do think it is fine for you to be getting such a big raise, and especially to be doing as well as you are. That is just another case of where it shows how good you are and yet you say you don't know anything. You can't ever make me believe that. I know better. I certainly do feel ashamed of myself whenever I think of you and then of what I am doing. Haven't even got a job for this summer, and when will I ever make as much as your are.
no sweetheart mine that 
just shows again how 
much better you are than 
I. I just wish that I could 
feel that I was really worthy 
of having someone like you. 
you're just simply a wonder 
dear, and there is no way 
out of it.

Tomorrow afternoon I 
am going to try to finish 
my chemistry lab. I think 
I can do it alright. I 
would have last Thursday 
if he hadn't given us an 
exam. Then we'll have to 
clean up my desk and 
have it checked, which 
means pay for what you
have broken - lost or had stolen. Then later on we will have to take a final over all our laboratory work. Gee I hate that. But I am almost certain that we only have three more weeks of class, that is Senior, because our exams are supposed to begin on the 25th. Honey I just get so excited when ever I think about it.

I am going to take this to town and mail it tonight but I'll have to come right back out and study for tomorrow.

I love you, sweetheart
With all my love, etc.