Miss Fannie Black at Rice Making Liquid Air

...inventing something about it.

10,000 people see science marvels at Rice exhibit.

A type was operated at a speed of 20,000 revolutions per minute, its peripheral speed being just a trifle under 12 miles a minute. It was coupled to a generator operating the lighting system of the laboratory.

Not the least interesting portion was the chemical show, where everything from soap to anaesthetics were made. The laboratories were run full blast during the exhibition and many industrial processes were demonstrated.
25,000-30,000

10,000 PEOPLE SEE
SCIENCE MARVELS
AT RICE EXHIBIT

Engineering Department to
Make Show Annual
Event

The first annual engineering show of
the Rice Institute came to an end at
midnight, Friday when the doors of the
engineering buildings were closed be-
hind the crowds that had swarmed
through their halls and laboratories all
afternoon and evening. It was estimated
that 10,000 persons visited the institute
and the exhibitions during the day. The
students of the engineering department
who staged the exhibit were especially
pleased with the great success of the
show and it was announced by H. A.
Tillett, student chairman of the com-
mittee in charge, that it would be made an
annual event.

The displays were numerous and un-
usual. The physics department displayed
the Ohio rectifiers and Tesla coils pro-
ducing millions of volts, throwing a
spark 18 inches long, and of sufficient
intensity to light an electric light held
in the hands of spectators. Dr. Harold
Albert Wilson, displayed instruments
used in the investigation of the nature
of light and demonstrated the action of
the cathode ray discharge in vacuum
tubes.

The engineering department operated
every piece of apparatus in the school
that would move a wheel, from the tor-
sion and tension machines in the base-
ment to the wireless on the roof. The
"electrics" staged a welding exhibition in
which they spot-welded steel wire "B's"
for the visitors. Engines and air com-
pressors were run, generators and mo-
tors buzzed and the public saw miniature
railway systems and power plants in op-
eration, as well as life size machines.

One small turbine of the DeLaval
type was operated at a speed of 30,000
revolutions per minute, its peripheral
speed being just a trifle under 12 miles
a minute. It was coupled to a generator
operating the lighting system of the lab-
oratory.

Not the least interesting portion was
the chemical show, where everything
from soap to anesthetics were made.
The laboratories were run full blast dur-
ing the exhibition, and many industrial
processes were demonstrated.

Some unusual features of the show were
staged by the physics department. The
students and instructors of this depart-
ment arranged a vacuum tube amplifier
so the walking of a fly in a glass tube
could be heard as though it was a thun-
der storm outside. Their discharge tubes
pawed weird "teeth" on the darkened
rooms, and many were the frightened
maidens who gazed at the bones of their
hands in the X-ray, or witnessed the
freezing of mercury by liquid air at a
temperature nearly 300 degrees below
zero.

The show was a tremendous success,
according to the visitors, and all who
had a part in it. The industrial plants
around Houston sent their forces to in-
vestigate the marvels.

The performances were financed by
the advertising sold to the industries of
Houston, and the program in which it
appeared demonstrated the academic
training the engineers have received.
Saturday

My dearest Sweetheart,

Now we can take off another week dear and there is only one thing I had rather do than that and that is to take off your more. In four weeks you will be here dear, just think. It certainly seems fine especially when I think that it wasn't so long ago when it was 8 weeks and I thought they never would go by. Honey I am getting just a little more excited every day, so don't be surprised at what
happens when I see you
the morning of the 11th.
I wish that you could
have been here for the show
yesterday afternoon. Honey
it was simply fine. It was
a continuous performance
from 2 to 10 P.M. and
there were fully 3000 people
who came best to see it.
I am going to send you
a program, get honey
and if you want me
to write tell you see I
can when I come home.
In the physics building,
they had all sorts of
display, even an arrangement
whereby you could hear a fly
well, you may think that they don't make any noise but you certainly are mistaken. Then they had one spray and you could see the bones in your hand. Just all sorts of things that you ordinarily read about and very seldom see. Liquid air, where you could put a piece of rubber tubing and then break it into bits with a hammer. And could even freeze mercury now you know that must be some cold (190 below. C)(300° F.) Then a demonstration showing how much a
steel bar could stand
by twisting and how
much by actual pulling.
I couldn't begin to tell
you all of the things,
especially in the E.E. and
M.E. labs. In the chemistry
lab they were making and
exploding nitroglycerin, E.N.T.
guncotton, making picric
acid, all sorts of dyes, various
oils used in perfumes, then
such things as aspirin, etc.
also thermit used in welding
which only goes up to a
temperature of 3000°. The
explosive of hydrogen
and Oxygen to make water
The making of sulfuric acid by the "West Chamber" process. Do you remember that from High School? New storage batteries are made and just oodles of other things. Absolutely I didn't know that there were so many things out here as I saw yesterday. Why they have equipment I never dreamed of. I think it opened their eyes. Lots of these Houston people they need some kind of an eye opener. I started them at 5:30 and got them
it all set 5:30 and I
knew where everything
was and stayed a very
while only in chemistry
because I knew most of
that. I beg your pardon I
mean that I knew if I
couldn't get it in the past
6 months there wasn't any
best trying in one afternoon.
Then last night I
got to the dance and
had a pretty good time,
we danced from 9 to 12.
I was so tired to begin
with I could hardly
dance but I managed to
stay awake. I thought I
was certainly going to get wet, because right after I got down town, it started to lightning and thunder and before we got back down to the university club it was raining. I went with Yssner.

Sweetheart I sent you a few sweet pies last night and hope that they got there all right, they grew out here also but over in the hot recess. I didn't get them until so late I didn't have a chance to fix them up as nice as
I wanted to. I wanted to send you some
pancakes along with them
but it was so late when
I came out of the show
I couldn't.

Well sweetheart did you
have your date?

I certainly am glad that
my little girl didn't get blown
away in the storm the other
night. You are my all
dear and I wouldn't
have any aim in life
without you. Honeybunch
I sure do love you.

Peble came out to see
me this morning and left
just a little while ago. He
is working at Goose Neck
and only gets in once a week, but since he didn't have to work to
day he came in last night.

There are several "women only" affairs going on today.
The sophomore girls are giving the senior girls a bazaar
and the Y.W.C.A. is giving a
luncheon for its visiting
members. I can't even
get a sandwich out of any
of them.
Next Wednesday night
the sophomores are going to
have an "oversell" program - I am not
going to any more.
soccer affairs or otherwise until I go to the Denver American with you my sweetheart.

I am going to take this to town this afternoon and there are coming back out to work, and there won't be any change of plans this time, it's got to be done. Honey you go to church for me tomorrow because I don't think I will be able to. I may go tomorrow night. I'll try to dear, you'll get two more letters this Sunday dear and then we will be together again, thank goodness.

I love you sweetheart

with all my love. urs.