

Home Ecs Will Swirling Towers Placed On Wheels Entertain Tues To Make Electricity With Wind's Aid

Harvest Supper For Public Will Be Served in Home Economics Tea Room; Proceeds To Loan Fund

A Harvest supper to which the general public will be welcome will be sponsored by the Home Economics club Tuesday, November 28, from 6 to 7 o'clock in the tea room of the home economics building. Proceeds from the supper will go toward the loan fund maintained by the club for the benefit of Home Economics students. The money for this fund is earned every year by club members.

Reservations should be made by 5 o'clock, November 27, as seating capacity is limited. Tickets will be 25 cents and may be purchased from Misses Agnes Abernathy, Jessie Mae Roe, Mary Thomas, Ruby Lee Ater, or Pauline Hawthorne, or at Dean Margaret W. Weeks' office in the home economics building.

Miss Elvise Lancaster is chairman of the arrangements committee.

MANY STARS FEATURED

Paramount's 1933 special, "International House," film musical comedy featuring the foremost stars of stage, screen and radio, opens next Saturday at the midnight preview and runs thru Sunday, Monday and Tuesday at the Lyric Theater. In the huge cast are Peggy Hopkins Joyce, W. C. Fields, Rudy Vallee, Stuart Erwin, George Burns and Gracie Allen, Sam Minton, Col. Swoopagle and Budd, Cab Calloway and his Orchestra, Baby Rose Marie, The Girls in Cellophane and others.

Owners of southern Iowa farms which are being badly damaged by soil erosion are anchoring their soil with lespedeza, hardy oriental cover crop.

Approximately 8,500 families in the lower Rio Grande valley applied to the Red Cross for aid in repairing homes damaged by the hurricane which struck the section.

Australia now has 58 woolen mills producing about 16,000,000 square yards of woollens, worsteds, and hannels, a million blankets and 8,000,000 pounds of yarn yearly.

Only about 10,000 barberry plants were destroyed in Illinois the first six months of 1933 for prevention of black-stem rust, as contrasted with 2,500,000 in previous years.

BURLINGTON, N. J., Nov. 22.—Twenty juggernaut towers, each as tall as a six-story building, will chase each other round and round a half-mile-wide circular track of steel rails in the world's first rotor power plant as planned by Julius D. Madaras.

They will look like flat-headed robots, each crowned with a round metal brim. They will be driven apparently by the wind, but the unseen force pushing them onward will be mostly the tremendous weight of the earth's 300 miles of atmosphere piled directly over their heads.

To Build Battery Of 20
The first unit, a single tower, 90 feet tall and 22.2 feet in diameter, perfectly round, has been built and demonstrated to engineers. The next step, says Mr. Madaras, who has been backed by public utilities companies in this experiment, will be the construction of a battery of 20 to supply cheap electric power when the wind blows more than six or seven miles an hour.

There are three or four locations in the United States, he says, where wind and economic conditions offer a favorable outlook for using such a plant to supplement steam or water for producing electricity. One of the best of the locations, he says, is in California.

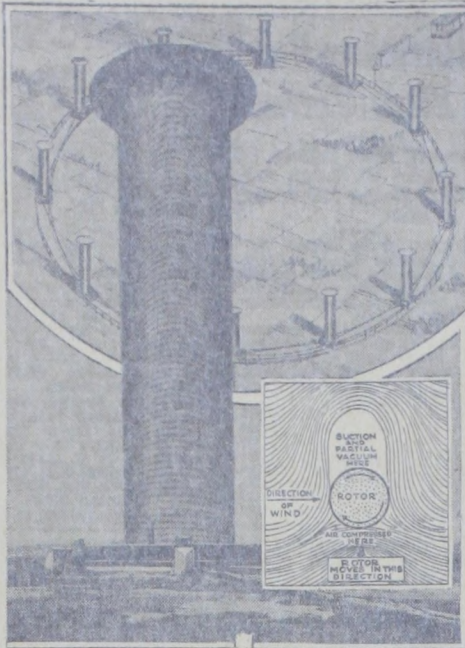
Spins At 60 MPH
The rotor built here spins at about 60 miles an hour. As it whirls the edge coming toward the wind compresses the atmosphere on that side. On the opposite side there is a suction. On this suction side a large area of partial vacuum forms. Into this vacuum-like area the weight of the atmosphere, 14.5 pounds to the square inch, tries to push the spinning tower.

So, as the smaller models have demonstrated in wind tunnels, the big towers if mounted on wheels will move, not in the direction the wind blows, but at right angles. This cross-push force, the engineers state, is 50 times the direct energy of wind striking the rounded tower surface.

Or it is 10 times the push of wind on a flat sail equal to the spinning surface of the 90-foot rotors. This would make each one equal to a sail 90 feet high and about 700 feet long.

More Efficient Than Model
Although the small wind-tunnel tests forecast all this, Mr. Madaras says the single big unit was necessary to learn whether there would be any losses in a full-size rotor. He finds that the big one is a little more efficient than the models.

The giant towers will move on 160-ton trucks, to the axle of which electric generators will be geared.



Using motive power created by wind and atmospheric pressure, 20 huge towers will swirl around a circular track and generate electricity if plans proposed by Julius D. Madaras bear fruit. A photograph of the first tower built, an artist's conception of the completed rotor power plant and a diagram illustrating the principle involved are shown here.

Baylor University at Waco, Texas, has in its freshman class this year the first set of quadruplets ever to enter college in this country, so far as is known. They are Mona, Mary, Leota and Roberta Keys, 18, of Hollis, Okla. All graduated together from high school last June.

Fifteen years ago March was considered an early date to hatch chickens, but now January 1 is not regarded as too early.

One and a half million acres of cleared land are idle in North Carolina, it is estimated.

JOE GEORGE
BARBER SHOP
"We Give Service"
1114 Ave. Q. Phone 1383

Save Money—
Bus Fares
Tickets
Average 6 2-3c
When Bought
In Dollar
CITY BUS
COMPANY

DON'T FORGET!

HAVE

YOUR PICTURE MADE

FOR

La Ventana

BEFORE

November 30th

Brown's Studio
1003-A - - 13th Street

CLEARANCE SALE

—OF—

STATIONERY

An opportunity that is offered you only once a year when we place all Stationery on sale where the stock has been broken. There are 216 boxes of good quality paper to select from if you come early.

| | | | |
|---|--|---|--|
| Group No. 1 18 Boxes—Picked at Random from our Stocks— Values to \$1.00 for 9c | Group No. 2 15 Boxes High Grade Fancy Papers at 19c | Group No. 3 28 Boxes Values up to 45c Now at 29c | Group No. 4 15 Boxes Values to 50c Now 39c |
| 59 Boxes "Tres Chic" Stationery priced at \$1.25 Now 69c | | 21 Boxes "Betty Co-Ed" Stationery priced at 60c Now 39c | |
| Group No. 5 10 Boxes Values to 75c Now at 49c | Group No. 6 10 Boxes Values to 85c Priced now at 59c | Group No. 7 8 Boxes Values up to \$1.00 Priced at 69c | Group No. 8 34 Boxes Values up to \$1.20 Now 89c |

TEXAS TECH COLLEGE BOOKSTORE

Women Protest Giving Up Jobs to Men



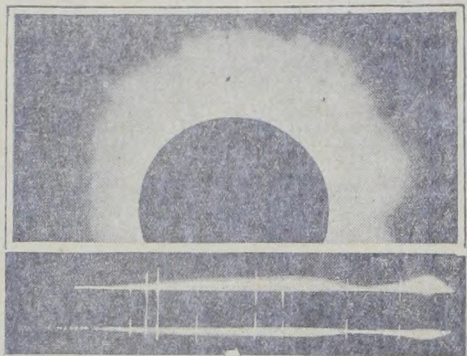
When Sir Herbert Austin, British automobile manufacturer, suggested in a speech that women be removed from the engineering industry so that there would be more jobs for men, members of 29 women's societies in England rose in protest to demand the "right to earn." Here a group of demonstrators is seen in London carrying placards reading, "Married women claim the right to earn" and "Why condemn compulsory celibacy to women wage earners."

Discovery Of Oxygen In Corona Of Sun Is Believed To Support Hypothesis Life Can Exist Outside Of Earth; Planets Studied

Vital Element Is Found In Sun Streamers By Harvard Scientists; Said To Exist For 10,000,000 Miles

CAMBRIDGE, Mass., Nov. 22.—Harvard's great discovery that the pearly light of the sun's corona is mostly from glowing oxygen vitalizes the speculations about life existing outside the earth. For it shows widespread existence of oxygen far out in regions of space once considered quite barren of appreciable amounts of this vital element. Although the presence of oxygen in the sun has been well known, the corona discovery proves its existence at distances of 10,000,000 miles outward from the solar surface.

Streamers From Sun
The 10,000,000 miles is the maximum length thus far measured of the streamers of white light forming the corona and shooting out into space during a total eclipse. At no other time is this light visible for ordinarily the sun's direct rays obscure the corona. Since all the planets are considered as born from the sun, they carry some oxygen and other chemical elements from that common parent. But to support "life as we know it," these planets must have oxygen as well as other elements in their atmospheres. Now it can be assumed that at least at some time in each planet's life it possessed an oxygen atmosphere comparable to the sun's. Oxygen already has been found by astronomers in the atmosphere of the earth's two nearest neighbors, Mars and Venus.



The discovery of oxygen in the streamers of light forming the sun's corona proves that this vital element exists, 10,000,000 miles from the sun's surface. Above is a photograph of the corona at the time of the sun's total eclipse. Below is the corona's spectrum, which is the light spread into a ribbon by being passed through a prism. The moon's shadow, likewise spread, is the black band between the two rows of light. By studying the vertical lines in the spectrum, scientists have identified the oxygen.

Harvard and Massachusetts Institute of Technology scientists identified the oxygen in the solar corona by studying the lines in the spectrograph rainbow of light taken on photographic plates. This corona spectrum showed five lines, each caused by action of a specific substance in the corona, but for many years astronomers were unable to identify these substances. The Harvard studies show that three of them are oxygen in a "peculiarly excited" state. This means that the oxygen atoms are vibrating at unusual rates. The vibration causes them to glow with the ghostly shade of light which makes the corona such a brilliant spectacle. The oxygen in the corona is described as "neutral." This means that each oxygen atom is complete, and not split apart, or ionized, by the sun's electrical forces. The glowing vibration is caused by the bombardment of energy pouring off from the sun. This energy is assumed to be partly electrical, partly heat and probably other forms of radiation.

NEWS THE WORLD OVER

Rural counties of Ohio spent \$100,000,000 in educating 200,000 boys and girls during the prosperous decade beginning with 1920; most of these later left the farms to go to the big cities and to other states.

Our domestic turkeys of today are not descendants of the wild turkeys which graced the tables of the Pilgrims. Sixteenth century Spanish explorers found the ancestors of our tame turkey in a zoological garden at Montezuma, Mexico, and took a few of the birds back to Spain, whence they spread to England and eventually back to America.

Rubber de-icers on the wings and control surfaces of mail and passenger airplanes made it possible for airlines in America to fly more than 45,000 miles farther than would otherwise have been possible.

A man falling from any altitude with a parachute pack attached never attains a velocity greater than 118 miles an hour and does not lose consciousness, according to reports of the U. S. army air corps.

A house in New Jersey has been built in the shape of an elephant and contains six rooms which are reached by spiral staircases in the "hindlegs." The howdah on the animal's back is 65 feet from the ground.

London business man recently traveled 20,000 miles by air through Palestine, Iraq, Egypt, Uganda, Kenya, Rhodesia and South Africa in one-third the time he would have needed by any other mode of travel and at one-third of the cost.

Beacon lights which have been operated on a part-time schedule since March of this year, are being put on full-time schedule on three transcontinental airways and the route between Seattle and Los Angeles.

Aversion to using their hands for carrying anything is so strong among the native women of Paramaribo, Dutch Guiana that, they even put letters on their heads weighing them down by a brick.

The oak apple is a gall or growth around the egg of a tiny insect. The egg hatches into a grub and, in due course, eats its way out of the gall; before it has done so, no hole is to be seen.

Hissing is not permitted in Parliament. The rule forbidding it—"Whoever hisseth shall answer for it at the bar as a breach of order and contempt"—dates back to 1604.

Nettles sting because on their leaves there are fine brittle hairs containing a poison which enters the skin when the hairs, or tubes, are broken.

WEEK-END SPECIALS on DRESSES

Three Groups

Group 1
Odds and Ends in Silk and Wool Dresses, grouped at—
\$5.95

Group 2
\$10.75 to \$16.75 Dresses in Silks and Wools, including bright colors suitable for spring wear, grouped at—
\$7.95

Group 3
Included in this selection are Blacks, Browns, and assorted popular colors of Crepes, Failles, Satins and very fine Woolens, that are former sellers of \$18.50 to \$22.50—grouped at—
\$12.95

Craig-Gholson Co.
"The Woman's Store"



ELEGANT EVENING DRESSES

That Will Add Glamor To Pre-Holiday Formal Affairs

You'll love the way all eyes follow you admiringly when you wear one of these new evening dresses. . . . You'll "slay the stag line" because you'll look too adorable to be left alone. . . . lovely formal frocks shown with many stunning new effects and in all the approved formal colors. . . .

Visit our ready-to-wear department before your next formal occasion. . . then you may expect romance to meet you more than half way. . . .

New Evening Dresses
\$14.50 to \$18.50
Evening Slippers
\$7.50 to \$10.00

Hemphill-Well's Co.

LYRIC THEATRE Saturday Nite Preview Sunday-Monday and Tuesday

INTERNATIONAL HOUSE
A Grandest Gaiety

PEGGY HOPKINS LOYCE
W. C. FIELDS
GEORGE SINGE & ORANGE ALLEN
COL. STODOLNAGLE & WIND
CAR CALLOWAY & ORCHESTRA
SAD MARIETTA - STOUT GUY
BILLY LINDSAY - BOY HOWDY
GIRLS IN CELLOPHANE

OUT They GO!

Clear-away of Handsome COATS \$8.69

Now's your chance! Get that coat you've been longing for—at a real clear-away price! They're still 'way up in value—though the prices are 'way down! Only Penney's slashes prices so drastically at the end of the season!

Act NOW—They'll soon be GONE!

J. C. PENNEY CO. INC.

NRA WE DO OUR PART

WE GUARANTEE OUR WORK

LOCATED FOR YOUR CONVENIENCE

COLLEGE TAILORS

1109 College Avenue
Phone 1696

Lindsey Saturday Night 11:30 Preview; Sunday, Monday, Tuesday, Wednesday

PREVIEW 11:30

1000 NEW THRILLS AND SURPRISES

in this new and different musical from "Gold Digger" producer including Jimmy Cagney singing and dancing for the first time on the screen!

FOOTLIGHT PARADE

209 Girls—30 Great Waivers From Broadway
JAMES CAGNEY
RUBY KEELER
DICK POWELL
JOAN BLONDELL

Heat With Gas For Convenience-Comfort-Economy

See A Dealer Who Displays This Symbol

Great American Gas

Symbol of Dealer

West Texas Gas Co.
GOOD GAS WITH DEPENDABLE SERVICE

SCRIMPING On Light?

Undersized lamps may save pennies but they make young eyes balk. Nature never intended eyes to focus on objects less than fifteen feet away. That is why good light is so important whenever close work must be done.

A 60-watt bulb costs no more than a 40, and uses less than 1-3c more electricity an evening. A small price to pay for helping to keep your eyes normal.

TEXAS UTILITIES COMPANY

Better Light Better Sight