

SUCH IS LIFE—Nature's Lesson



"Sun Boiler" Is Employed for Cooling and Heating

Scientist Sees Great Possibilities in Device.

Cleveland, Ohio.—Dr. Charles G. Abbot, secretary of the Smithsonian Institution in Washington and one of America's foremost "scholars of the sun," revealed here, in connection with a demonstration of his "sun boiler" that he believes the sun can be made to cool in summer and warm in winter.

Reversal of the sun's normal effect involves harnessing the heat given off by the sun on clear days, Dr. Abbot said. He believes the "sun boiler" can do the effect-reversing trick.

It is a simple apparatus, consisting of a concave mirror that catches the sun's rays and casts the heat onto a tube of water. Concentrated by the special metallic reflector, the heat raises the temperature of the water and turns it into steam.

At the demonstration, Dr. Abbot's "sun boiler" was able to develop a steam pressure of thirty-five pounds to the square inch by using the concentrated heat from eight electric lamps.

Many Adaptations. "There can be many adaptations from the boiler," Dr. Abbot said.

SMART FALL OUTFIT



Here's a very smart outfit for fall. The simple sports dress is of dark oxford gray wool with kick pleats front and back. Red bone buttons trim the bodice front. Over this is worn a sports jacket of gray, red, and black plaid, which features the latest novelty, a cowboy studded belt of black leather. Her sports hat is oxford gray; soft crushed crown banded with black gros-grain ribbon.—Posed by Tala Birell.

"It can be used to run a steam engine to develop electric power, to pump water for irrigation purposes, to distill water in places where it is brackish or to serve as a source of power on the farm. But it may be used directly to heat or cool a dwelling."

A current of air passing through the boiler tube may be sent into a sand silo where the heat may be collected and stored for periods of nearly a month, according to Dr. Abbot.

The sand silo, now a subject for serious research, is an insulated chamber shaped like an ordinary silo, but containing sand, stone and a glass wall. The heat from the silo may be released gradually into the home when it is needed, Dr. Abbot said.

"On the other hand," Dr. Abbot pointed out, "the principle of refrigeration such as applied in gas-burning refrigerators may be used for cooling. The heat from the sun's rays would take the place of the gas burner."

Simpler as a Cooler.

"Use of the 'sun boiler' for cooling during the summer would be more practical, of course, than its use for heating in the winter. You would naturally have more sunlight in the summer, or in the tropics, where refrigeration is most needed."

A "sun boiler" with a mirror fifteen feet long and twelve feet wide would develop two to three horsepower, Dr. Abbot said. A sun power plant spread over a square mile of barren and heat-baked land would generate 70,000 horsepower.

Dr. Abbot said his "sun boiler," with a few modifications of its present design, could be placed in production.

My Neighbor

Says:

Ivies grow well in water in the house. Keep in glass so that light may reach the roots.

An omelet in which six eggs are used will be much lighter if three-fourths teaspoon of cream of tartar is used in preparing it.

When cleaning your refrigerator use one tablespoon of sal soda to four quarts of cold water. This will keep the drain pipe clean and free.

When a cinderella plant shows signs of withering, stop watering it and let it go to seed. As flowers dry, gather seeds and save. Plant seeds next April.

A new and tempting way to serve gingerbread cakes is to cut the cakes in halves and put cream cheese mixture between the halves. This is a delicious accompaniment to tea or as a luncheon dessert.

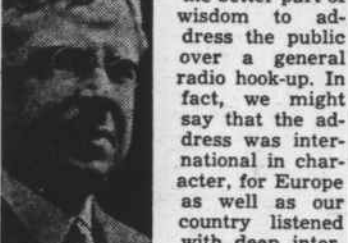
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PUBLIC OPINION

By LEONARD A. BARRETT

A recent radio address was with precedent. An associate justice of the Supreme court felt convinced that it was the better part of wisdom to address the public over a general radio hook-up. In fact, we might say that the address was international in character, for Europe as well as our country listened with deep interest to what Justice Hugo L. Black had to say.



It is not the purpose of this article to discuss the merits of the issue upon which the associate justice spoke, but rather to emphasize the power of public opinion. Never before in the history of the Supreme

SAFETY FOR CARVER



The fear of every carver of roast or fowl that the meat might land in someone's lap is overcome by this household item, the roast clamp, introduced at a recent home-furnishings show in the Merchandise Mart, Chicago. The shear-like clamp is adjustable to fit any size roast or fowl being held. Prongs, clamping into the meat, hold it firmly in place during the carving process.

court was it deemed advisable for one of its members to explain a personal relationship. Usually the members of the highest court of our country have remained eloquently silent in the face of criticism; not so, Justice Black. Public opinion, whether right or wrong, demanded a hearing. In this respect it demonstrated clearly and convincingly its inherent power. The most compelling power for good or evil is the voice of the public mind. This is necessarily true in a democracy. We could not have it otherwise and have a free country.

The most important instrument for the expression of public opinion is the public press. No agency is more influential in molding the public mind than is the press. With this vehicle for disseminating information, it is comparatively easy for this country to be simultaneously affected by mass psychology. When out of control, it is an exceedingly dangerous weapon. But the antithesis is true: it may become an instrument of incalculable good.

Public opinion elects presidents, members of congress, and the majority of the officers of our municipalities. Public opinion determines policies which control legislation. Its voice cannot be silenced when grave issues are at stake. It must and will be heard whenever our personal liberty has the right to speak.

Many problems, moral, economic, and spiritual, clamor for solution. The most serious seems our international unrest. The peace of the world is fundamentally a matter of the public mind. Do we honestly want peace? Do we desire it enough to demand it by the united voice of all the people? Our moral problems will be settled when public opinion demands it. The problems of the under-privileged child will be eliminated when public opinion demands the right of every child to be well born. The power of the mass mind knows no limitation. From it come revolutions and the rise and fall of governments.

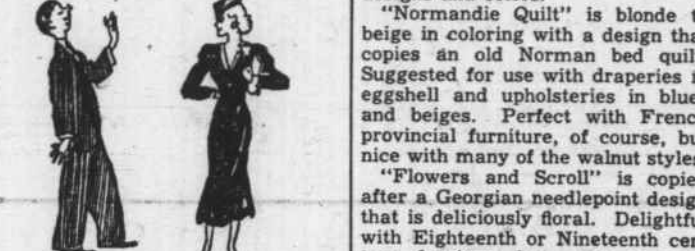
What is the public mind? It is the composite will of the mass in which every individual's attitude may be

Household Hints

By BETTY WELLS

WE SAW a high and mighty interior decorator put his nose up in the air over the desires of an engaged pair seeking his advice on their new home. With "only" \$3,000 to spend, said he, he just didn't see how they could expect to do anything very interesting.

Well, well, we replied, but that's quite a lot for a young couple to have in cash to put into their house of hope. And if knowledge and ex-



With His Nose in the Air.

perience do not enable a trained decorator to offer usable suggestions to people with a limit to their resources, we question the creativeness of that decorator. After all the art of it is ideas . . . it's not so clever to be able to make a room look like a million if a million has been spent on it. But it is clever to make it look like a million when it's cost a small penny.

Another interior decorator who's a friend of ours takes pride in the bright ideas she can think of that can be worked out with hard work, love, a needle and a tack hammer. Here are some of her suggestions of ways to get "decorator touches" with trimmings.

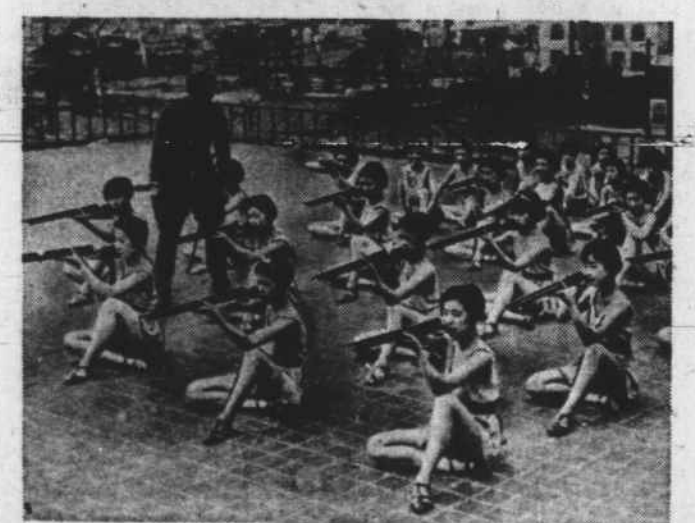
In the Living Room.—A sofa that isn't so much one way or the other becomes quite something by the addition of a pile welting in the seams and a deep rope fringe around the bottom. Or if you have a studio couch, finish seams with a heavy rope in contrasting color and finish the box pleated ruffle with a flat woven tape braid. Two not-very-important windows with a space between can be treated as one by hanging the glass curtains all across the two windows as well as the wall space, then sweeping draperies to the outside of each window and adding to the draperies a tassel fringe and bigger tassel-and-cord tie backs. A pair of upholstered chairs with slip covers of a plain fabric can be finished all around and up and down with an inch-and-a-half width embroidered braid or else a flower stripe cut from a striped cretonne. Cushions finished with wool or silk fringe or trimmed with a smart flat woven braid are nice touches. Lampshades with silk braid, glass beads or wood fringe dress up a room . . . often an old shade of no particular style can be high-lighted this way.

Hinting Subtly. It takes quite a lot to give us a real rug thrill. Especially in a rug that doesn't belong in a museum.

expressed. The responsibility for expressing one's conviction is one of the privileges of freedom. How faithful is the average citizen in discharging this responsibility? How many are willing to let the other fellow do their thinking? Individual responsibility is a trust to society, to conscience, and to Creator.

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As War Fever Rises in Japan



Toy guns, used in a stage revue in Osaka, are held by these chorines on the roof of the theater as they get instruction from a Japanese officer. Press agent stunt? Perhaps, but it indicates to what extent the war fever has premeated every avenue of Japanese life. Other women auxiliaries, with real guns, have their instructions on what to do, should enemy planes fly over the highly centralized industrial city.

IMPROVED UNIFORM INTERNATIONAL SUNDAY SCHOOL Lesson

By REV. HAROLD L. LUNDQUIST, Dean of the Moody Bible Institute of Chicago. © Western Newspaper Union.

Lesson for November 21

CHRISTIAN WORKERS

LESSON TEXT—I Corinthians 3:10-15; Galatians 6:6-10.

GOLDEN TEXT—And let us not be weary in well doing: for in due season we shall reap, if we faint not.—Galatians 6:9.

PRIMARY TOPIC—In Our Church. **INTERMEDIATE AND SENIOR TOPIC**—What Can I Do for Christ and the Church? **YOUNG PEOPLE AND ADULT TOPIC**—The Need for Christian Workers.

"Laborers together with God"—such is the glorious and distinctive title of true Christians, according to the verse just preceding our assigned text. Unfortunate is the all too common error of regarding only pastors and missionaries as the workers in God's vineyard. While we recognize that there is a special calling for some men to leave their vocations and devote their entire time to the Lord's work, let us be sure properly to stress the importance of every Christian's being a worker for God.

The portions assigned for our study present the privilege and responsibility of Christians as fellow-workers with Christ, under the figures of builders and of seed sowers.

I. Builders of the House (I Cor. 3:10-15).

The first requisite of a building is a foundation and it must be strong and true. Builders for Christ have a sure foundation stone in Him.

1. The Foundation—Jesus Christ.

There is only definite assurance in Paul's word concerning the foundation. It is perfectly clear to him that there can be no Christian faith without Jesus Christ. Such a statement sounds almost childish. One might well assume that no intelligent person would claim to be one of God's builders, and reject his foundation stone. But, alas, many are they who claim to be Christians, who profess to be raising a structure of Christian life and testimony, but who have set aside the only possible foundation on which to build.

2. The Master Builder—and his builders.

Paul was a pioneer. He declares his ambition and calling to be "to preach the gospel not where Christ was named, lest I should build on another man's foundation" (Rom. 10:25). Such a privilege does not come to all men, but let those who thus serve learn of this "wise master builder" that they may lay only one foundation—Jesus Christ.

"Let every man take heed how he buildeth thereupon." It is a serious matter to serve the Lord as a builder, for it is possible to go badly astray at this point as well as in laying the foundation.

3. The materials—good and bad.

Whether we apply Paul's words to the building of our personal spiritual life or to the work we do in the church they are equally serious and urgent. "The day"—when Christ returns, and we shall stand before him to give account of the deeds done in the flesh—will reveal by flaming fire whether we have been faithful, true and diligent in preaching God's Word, in prayer, in sacrificial service for Christ, or have sought to introduce into our lives and into the churches we serve the "wood, hay, and stubble" of unspiritual schemes, neglect of God's Word, prayerlessness.

Saved? Yes, but entering into God's presence as a man who has escaped from his burning house with nothing but his life.

II. Sowers of the Seed (Gal. 6:6-10).

The figure changes. No longer are we builders—but rather sowers of seed. Would that it were all good seed that were sown—but we see the sowing to the flesh as well as to the Spirit. This is true

1. In our own lives. The inexorable law of sowing and reaping prevails in the moral realm as truly as it does in the physical. Men who would never expect wheat to grow where they have planted thistles, seem to expect that they may sow in their own lives the seeds of selfish indulgence, of careless neglect of the things of God, and still somehow reap the fruit of good character and noble living.

2. In the lives of others. We may be tempted to take attractive by-paths and short-cuts to win the interest and allegiance of men to ourselves and the church, but they will prove to bring but corruption and destruction. Spiritual seed will always produce spiritual life.

3. Waiting for the harvest. Harvest must be patiently awaited. We know it to be so in natural things; the same is true in the spiritual realm.

A Message of Love

One of the last slowly murmured sayings of the American poet Whit-tier, as he lay a-dying, was this: "Give—my love—to—the-world."

Worth-While Living

Learn to do well; seek judgment, relieve the oppressed, judge the fatherless, plead for the widow.—Isaiah 1-17.

Haste

Unreasonable haste is the direct road to error.—Mollere.

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