

MUNDELEIN  
LIBERTYVILLE  
DIAMOND LAKE  
HALF DAY  
RONDOUT  
IVANHOE

### PROPER BUILDING OF FURNACE FIRE

#### Directions Issued by Washington Bureau for Stoking Ordinary Heater

Building a furnace fire properly and making it deliver heat at highest efficiency are accomplishments few home owners have been able to achieve. It is imperative that they should, because on the correct building of fires depends the size of their coal bills.

Government officials at Washington, D. C., state that 25 per cent of a home owner's fuel bills can be saved "by burning coal instead of cooking it." To burn coal, several steps are necessary, according to an N.E.A. report.

First, the right size fuel should be selected for a furnace. The size of coal is regulated by the draft—a high draft uses smaller fuel and a low draft uses larger. The size of the firepot also regulates the size of the coal.

Assuming that the furnace has been cleaned, chimney freed of soot, and the basement made airtight, the first fire is made in the following manner:

First spread a layer of excelsior or paper on the grates. Next a layer of light kindling and then one of heavier wood. On this spread a thin layer of fine coal. Ignite the paper, open the drafts and damper wide, close the check and wait for the layer of kindling and coal to ignite.

When this happens, throw in more coal and continue until the firepot is nearly level full. Then reduce the draft and open the check.

#### Have Space Open

In adding coal to a fire, here is the recommended practice of the U. S. Bureau of Mines:

"Too many persons make the mistake of covering the entire firebed each time they add coal. When this happens, most of the gases are cooked out and escape up the chimney without being burned.

The best method is to apply a heap of fuel on one side of the furnace and then, when this has burned down, throw the next heap on the opposite side. This alternating method always exposes a bed of live coals to ignite the gases.

"A big fire burning slowly is cheaper in the long run than a little fire burning fast. Fast burning means incomplete combustion, and hence more waste in the ashes."

Keeping a furnace clean saves coal consumption. Keep out the clinkers and ashes. See to it that at all times live coals, not dust or ashes or soot or unburned fuel, are in contact with the heating surfaces.

#### Ashes Prevent Heat

Ashes act the same on the heating surfaces of a furnace as insulating material acts on the outside and on the pipes. They prevent maximum efficiency of coal and should only be found on the bottom of the fire. Shake down the ashes regularly, but not too often to prevent them keeping cold air from striking the fire direct.

When live coals begin to appear with the ashes, stop shaking. These coals, if the glow does not die down immediately, still have combustible

materials left. The ashes should be removed in the morning, when they are cold and less likely to fly around. Don't pile coal on the fire twice a day and leave it for the rest of the day. Unburned fuel on top of the fire keeps heat away from the heating surfaces of the furnace.

Frank G. Behringer, 47, well known Waukegan resident and employe of the Bell Telephone company there, died suddenly of heart failure at his home, 702 Grove street, last week.

### Masked Bandits Hold Up and Rob Women in Own Garage, Waukegan

Two masked bandits held up and robbed Mrs. Dora Eisenberg and her daughter, Rose, of 836 N. Sheridan road, Waukegan, Wednesday night, Dec. 16, as they drove into their garage on Gillett avenue after returning from the Eisenberg's store on Tenth street, in that city, with

the receipts of the day. A total of \$441 in cash and checks was taken from the two women.

The two bandits, evidently familiar with the fact that Mrs. Eisenberg brought the store receipts home each night, appeared as the two women drove into the garage and demanded that they throw up their hands. One of the bandits met Mrs. Eisenberg as she alighted from the car and the other guarded her daughter on the other side.

# Your Fuel Bill will go *DOWN* if You Burn COKE

## IT...

- (1) Gives More Heat
- (2) Leaves Few Ashes
- (3) Makes No Grime
- (4) Burns Longer
- (5) Is Easy to Control

Try **WAUKEGAN KOPPERS COKE!** It is made in sizes for every heating plant. The correct size **WAUKEGAN KOPPERS COKE** will increase the efficiency of your heating plant. This modern home heating fuel is light in weight and easy to handle. Ask your fuel dealer to send a Waukegan Koppers service man to inspect your heating plant and recommend the proper size **WAUKEGAN KOPPERS COKE**. Or you will receive full information, without obligation, if you return the coupon below.

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NORTH SHORE COKE & CHEMICAL COMPANY, Waukegan, Illinois (B)

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