

When Company Comes

You will be glad to have this recipe for a dessert that charms everyone who takes it

Grape Juice Charlotte Russe
 1/2 envelope Knox Gelatine
 1/4 cup cold water
 1 cup boiling water
 1 cup grape juice
 Lady fingers.

1 tablespoonful lemon juice
 1 1/2 cups heavy cream, beaten until stiff
 1/2 cup sugar

Soak Gelatine in cold water five minutes and dissolve in boiling water. Add grape juice, lemon juice and sugar. Stir until mixture begins to thicken; then fold in cream. Turn into mold lined with Lady Fingers. Remove from mold and garnish with whipped cream, sweetened and flavored with vanilla and candied violets.

Note.—Knox Acidulated Gelatine, which comes in a blue package, contains an envelope of lemon flavor, which takes the place of lemon juice—saving time, labor and expense.

Get a box of Knox Gelatine at your grocer's to-day and try the above recipe.

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MRS. CHARLES B. KNOX

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For further information apply to THOMAS B. CLIFT, Manager Knox Co., Commercial Chambers, Water St. Rooms 9 and 10. Sample Room 14.

WHAT IS AN ELECTRIC CURRENT?

A Sort of Relay Race.

In an earlier series, we spoke of the subtle mines of energy which exist underground or in remote parts, but under our very noses everywhere. Every marble that the ball boy shoots along the ground gains as much energy as a fair coal-mine. It is really a mass of billions of minute particles, which each electron, in a state of inconceivably rapid motion. If we could

upon this energy, which exists every variety of matter, it would be the wave of a magic wand over industrial world.

Millions of Atoms. In order to understand it, let us picture what the copper wire, along which the "current" passes, really is. The eye it looks a perfectly solid continuous surface, but that is only because the human eye is very weak in its power. At a distance a wire looks like a continuous mass of copper. If you could get close enough to the copper wire, with something far more powerful than the new super-microscope, you would see each bit of copper wire as a collection of millions of atoms of copper, not crowded together, but at some distance from each other. Farther, if you could get

a super-super-microscope, and look into the heart of each tiny atom of copper, you would find that it was composed of dozens of still more minute particles—the energetic little things which we call electrons, and which are really units of electricity. All matter is, ultimately, composed of them.

Wave of Electrons.

What is it that happens, then, when we say that a current is passing along the wire? The electrons are moving from atom to atom. It is a flow or current of electrons; but a flow of a very peculiar kind. The electrons do not break away altogether from the atoms of copper, to which they belong, and flow in a body along the wire, like water in a pipe. Each atom merely passes one electron on to the next atom. It is a sort of relay race. Atom number one passes an electron to atom number two; this hands on an electron to the next atom, and so on. But the speed of this relay race is extraordinary. In each inch of the copper wire there are hundreds of millions of atoms, each of which must pass an electron to its neighbour; yet the wave of electrons, as we may call it, sweeps along the wire at thousands of miles per second.

We can now understand what starts the current. Take a simple cell such as one has in the house for running the electric bell at the front door. It probably consists of pieces of zinc and carbon immersed in sal ammoniac. Zinc, we have found by experience, is a metal that is particularly ready to part with electrons from its atoms. When it is immersed in the chemical its atoms are detached, and they leave

electrons behind them, which pass to the copper and accumulate. Thus we get in the course of time a charge of electrons—atoms of electricity, remember—and, when the circuit is completed by pressing the button, the wave of energy passes almost instantaneously, for such short distances, along the wire. We fix a bell, with appropriate mechanism, in the bath of the wave or current and—the electrons work for us. We have tapped the fundamental energy of the universe.

The Magnetic Field.

For generations a more powerful current—that is to say, a heavier rush of electrons—we use what is called a dynamo. In principle it is merely a mass of copper wire revolving rapidly between the poles of a powerful magnet. Round the poles of a magnet there is what we call a magnetic field. We may picture it to ourselves as a peculiar disturbance in the ether round the magnet; though what magnetism really is, and whether there is any ether, we are far from sure. However, that may be, the moment a coiled mass of copper wire enters the magnetic field, the flow of electrons in the wire is started. When the wire leaves the magnetic field, there is a flow in the opposite direction. So the coil of wire is driven very rapidly round and round between the poles of the magnet, and we get a powerful "alternating" current of electrons. The electrician can, by a certain mechanism, convert it into a continuous current.

What Happens in a Thunderstorm.

The electric spark, the flash from the wheel of an electric train or from the wire of a tram on a frosty night, is—to use a colloquial phrase—the same thing only different. There we have no steady flow along the channel of a copper wire, but an outburst, a flood, a "stampede," as one writer has said. It is as when a water main bursts under the street, and the water rushes out in a disorderly flood. In the thunderstorm you have the same phenomenon on a grander scale. The floods of electrons which, as we saw in an earlier article, the sun pours all day long upon the earth, are largely received by the atoms of the higher atmosphere. The air is "electrified," or loaded with an excess of these little units of electricity. In the storm comes the periodical release, and the vast floods of electrons sweep from cloud to cloud, and down to the earth, with the familiar blinding flash and deafening roar. There is no solid "thunder-bolt," as people used to think. They probably confused meteoric atoms with crashes of electricity. It is a "stampede" of electrons to earth to restore the balance of positive and negative electricity in the air.—John O'London's Weekly.

Don't Be a Slave to Your Stomach.

It is Easy to Prevent all Stomach Troubles That Are the Root of Most Ills. Flesh is Heir to.

Thousands of men and women, in every walk of life, are compelled to deprive themselves of eating certain meats or vegetables because they suffer from Dyspepsia or Constipation and that to indulge in certain foods which they like would mean bitter suffering. Don't be a slave to your stomach. Don't forgo the pleasure of eating what you please, when you please! "Gastronal" the most marvelous remedy and preventative for all troubles of the digestive organs, allows you to do so. One or two Gastronal taken after meals will assure you a perfect digestion and prevent auto-intoxication, which often results in most of the serious maladies which levy such a heavy toll on human life.

He Sleeps His Night of Stars.

He knew not that he went to die. He only knew fair play is sweet. This good dead lad from Someone's Street. Who was quite young, as once was I. Who loved the cold rain on his face, Who thrilled to some girl's jocular grace.

Ice Blocks Gate.

POWER CUT OFF. The work of repairing the damage to the Petty Harbor Power House was completed yesterday, but slob ice which had formed, drifted down the pond and choked the gateway in the dam leading to the flume. As a consequence all power was cut off from 11 p.m. until 1 a.m. and the city was left in darkness for two hours. It was not until 11.20 a.m. to-day that the full power was turned on. Yesterday afternoon the motive power was cut off but sufficient "juice" was left on to light residences and shops.

SALE OF WORK CLOSED.—The sale of work by the Ladies' Association of St. Michael's Church, which was continued last night, attracted quite a large number of people. The various stalls and tables were cleared of their stocks and a handsome sum was realized. The proceeds will be devoted to Church purposes.

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S. H. PEET,
14 Brazil's Square.

nov23.51

This is a Bright One!

JONES:—"Say, Smith, have you tried those Make-Or-Own Batteries?"

SMITH:—"Yes, I went into one of the Hardware Stores last Saturday night and had a couple of flashlights charged; going across LeMarchant Road, on the way home, I had one in each hand, and a policeman held me up to tell me the tail light was out."

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