Delivering Hotel Mail by Signals

/AIL and message service now is conducted in a modern otel by electric signals. As the accompanying photographs reveal, the room clerk's mail cubbyholes are provided with metal flaps. When an envelope is inserted in the letter rack the flap is pushed back. This automatically causes a green light to flash in the room of the guest receiving the mail. The guest may then obtain immediate delivery of the letter or message to his room by pressing a button beside the green light. If the guest is out or asleep when the letter is placed in his box, the green light will remain illuminated. As soon as the guest presses the delivery button the signal is received by the bell captain, who dispatches a bellboy to deliver the mail. It the guest calls for the mail in person the green light in his room remains lighted until the clerk removes the letter from the rack thus turning off the room signal



One of the mail cubbyholes with metal flap attached.



When letter is inserted the metal flap is pushed back. This causes green light to flash in guest's room.

Most Beautiful of Insects-the Butterfly



A beautiful painted-lady butterfly resting on a spray of flowers.

B UTTERFLIES are generally held to be the most beautiful of the insects. Not so beautiful, however, are the worms and the cocoons from which the butterflies develop. These two striking pictures adequately illustrate the beauty of the



(Acme photo

Science Measures Drunkenness

By C. Robert Moulton

THE menace of the drunken driver to life and property is being recognized by a trive against reckless motorists.

Apparently users of alcohol and the observers of users always will disagree as to the effects of its use on man, as well as to what constitutes moderate drinking as opposed to heavy drinking. The great majority of responsible people, however, agree that alcohol should not be used by anyone when such use makes the person a hazard to himself and to others -for example, when he drives an

What are the effects of alcohol on the human system, and how are they brought about? What effects have different quantities on eyesight and hearing, muscular coordination, nervous sensibility, and mental attitudes and responsibility? In answering such questions recourse should be had not to the expressions of experience of those who indulge, but to evidence obtained in chemical, physiological. and psychological laboratories.

Alcohol mixes with water in all proportions and readily dissolves or dissolves in fat or fatlike sub stances. It is not so good a fat solvent as ether or chloroform, but it dissolves fat readily enough to produce marked effects upon the nervous tissue, which always contains a fairly high proportion of fatty substances. Alcohol requires no digestion and is readily and rapidly absorbed from the stomach into the blood stream. The small intestine also readily absorbs alcohol, and generally none is left by the time the food residues leave this organ.

Quickly Circulates

The blood stream transports the absorbed alcohol to all parts and organs of the body, which soon contain their share of this substance. In fact, in the course of sorbed, especially if taken with a one or two hours after the taking of alcohol in any form it may be blood does not become so great. onsidered to be distributed more





Coroner's Chemist C. W. Muehlberger of Cook county examining a blood sample under microscope as the first step in his scientific test to determine the extent of intoxication of a subject.

diluted whisky, gin, or brandy, when taken in one fairly large dose on an empty stomach, will promptly build up the alcoholic content of the blood and produce well marked symptoms generally within an hour. Some of the symptoms will continue for one, two, or more hours, and some will be shown even on the following day. The symptoms referred to are not necessarily those that the consumer of the alcohol can rec-

ognize and measure. On the other hand, light wines and beers are more slowly abmeal; the alcoholic content of the and the symptoms are as a rule

ever, the specific gravity of blood is about 1.055, this figure is a little high. Emil Bogen, a pathologist of Olive View sanatorium, California, in semi-humorous vein gives the following table of alcohol concentration in the blood and its effects: Less than 1 mil-

ligram per c.c.—Dry and decent 1 to 2 milligrams—Delighted and devilish 2 to 3 milligrams—Delinquent and disgusting 3 to 4 milligrams-Dizzy and delirious t to 5 milligrams-Dazed and dejected Dver 5 milligrams-Dead drunk

Graduated milligram tubes illus trate the intoxication test.

C. W. Muchlberger, coroner's chemist of Cook county, who is shown making blood tests for alcohol in the accompanying illustrations, has made thousands of tests to determine the extent of intoxication of persons involved in automobile accidents. He was one of the first scientists to apply the blood test as an infallible method. All other methods of measuring intoxication, he believes, are merely guesswork.

Prof. Erik Widmark of Sweden has analyzed the blood of about 1,000 persons arrested and suspected of drunkenness during two years. When the alcohol in the blood was about 1 milligram per cubic centimeter, 30 per cent of he subjects showed some signs of intoxication; with 1.4 to 1.6 milligrams, 70 per cent showed signs of drunkenness; while when over 2 milligrams were present, from 90 to 100 per cent were definitly intoxicated.

The ugly cocoon produced this delicate moth, a beautitul as contrasted with the ugly cocoon. Beautifully marked is the butterfly at the left velvety specimen.

[ADVERTISMENT]

Almost Killed By Gas

Almost Killed By Gas There is more than one way that gas an imperil life, as Mrs. Anna Northrup, Newfield, New York, can testify. She was "almost killed" by gas in her stomach. Then a friend told her of the Udga Treat-ment and today she is free from stomach. Then a friend told her of the Udga Treat-ment and today she is free from stomach uffering. She now gives credit for her recovery to the Udga Treatment, based on a famous stomach specialist's triple-action prescription. Its purpose is to nem-ralize excess acid, soothe and heal the Already 54,169 letters praising the Udga Treatment have been received from victims of acid stomach, indigestion, heartburn, sof excess acidity. Write Udga, Suite 41, Foot-Schulze Bldg, St. Paul, Minn., for a free sample. The 7-day trial box of Uga Tablets is sold on a money-back

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Chicago Sunday Tribune



Floating Ambulance Beach Patrol

(Acme photo.)

boat contains a supply of oxygen tanks, inhalators. beach at Venice, Cal.

THE playground department of the city of Los stretchers, and hospital first aid equipment. The Angeles, Cal., boasts of one of the most efficient boat is 33 feet long and has a speed of 15 knots. It life guard services in the country. Recently the is said to be the first equipment of its kind in beach service was improved by the addition of a "floating patrol and life-saving work. This picture shows ambulance," a motor yacht equipped with every Guard Arthur Bergquist signaling a shore station device for life-saving and resuscitation work. The as the boat speeds by on a recent test run off the



Chemist Muchlberger is here shown completing the blood test, through which he determines scientifically whether a subject is intoxicated and to what degree. Other methods he scorns as being guesswork.

body. Some will even appear in of alcohol. the urine, and such fact is made fact of alcoholic intoxication and of alcohol, cocktails from 20 to 30 its degree.

body soon can begin to use it by beer from 6 down to less than 3 burning it for energy or heat. Under proper conditions it can reare left to be voided.

is absorbed, as well as the intensumed, the presence or absence of taken, and the length of time during which it is taken. Thus rather concentrated sources, such as un- tenth of 1 per cent. Since, how-

or less uniformly throughout the milder even for equivalent doses The quantity of alcohol which use of by police courts at times. the blood may contain as a result Most scientific observers agree of its use will appear small to the that the amount of alcohol in the reader. Whisky, gin, or brandy blood is the best measure of the usually contain about 50 per cent

per cent, wines 8 to 13 per cent, When alcohol is absorbed the strong ales 6 to 9 per cent, and per cent.

In contrast to this, the blood will place rather fair amounts of other contain a few hundredths of 1 per energy-yielding foods. The com- cent when one first begins to feel field of phenomena around him. bustion, as it is called, is complete, its presence, while scientific au- One is rather wrapped up in one's and only water and carbon dioxide thorities agree that as little as own feeling of contentment and The rapidity with which alcohol of intoxication. It is rather com- aware of one's obligations to othsity of some of its effects, depends be expressed in terms of milli- muscle movements is decreased, upon the form in which it is con- grams per cubic centimeter of and the legs especially seem to be blood. If the blood were only as unreliable. If driving an automofood in the stomach, the quantity thick as water, one milligram of bile, the person does not feel like blood would correspond to one-

Dr. T. E. Friedemann of the University of Chicago, formerly of Northwestern university, states that his experience in general agrees with that of Bogen and Widmark. He places 1 milligram at about the lower limit of intoxication, shows that 2 milligrams give definite signs in most people, while 3 milligrams will make one as a rule very drunk.

Moderate Dose Effect

In a recently published book on Alcohol and Man" the effects of moderate doses of alcohol have been discussed at length. In addition to the well-known lessening of shyness, increasing of self-confidence, weakening of the bonds of convention, setting free of the emotions, and allowance of greater freedom of speech and motion, alcohol interferes with the process of logical, continued reasoning and the precision of movement. The eye - hand co-ordinations do not work well. One may have the feeling of alertness and concentration when in reality one perceives sights and sounds less distinctly and observes only a very limited one-tenth of 1 per cent gives signs well-being, which renders one less mon for the alcoholic content to ers. The accuracy and speed of alcohol per cubic centimeter of shifting gears or slowing down, and attempts to control the car by hand only.

Sunday, August 19, 1934

Page Two