

REAL ESTATE TRANSFERS

Clare M. Petersen to V. O. Appel. WD \$10. Pt lot 3, block 19, Highland Park.

C. L. Odell and wife to R. J. MacPherson and wife. WD \$10. Pt lot 7, blk 15, Highland Park, pt Sec. 23, Deerfield.

K. F. Fowler and wife to J. T. Rupli. WD \$10. Pt Sec. 20, Deerfield.

J. T. Rupli and wife to K. F. Fowler and wife. WD \$10. Pt Sec. 30, Deerfield.

A. Dumas and wife et al to A. C. House and wife. WD \$10. Pt Sec. 35, Deerfield.

A. Sodian and wife et al to F. A. Griese. QCD \$10. Pt blk 25, E. Ashley Mears plat of Highwood, Sec. 15, Deerfield.

T. W. Bryant and wife to F. R. Roeder and wife. WD \$10.00. Lot 15, Northmoor Terrace, pt Sec. 6, Deerfield.

G. Bertucci to G. Caraffi and wife. WD \$10. Pt of lot 1 and all of lot 2, Sec. 15, Deerfield.

E. Bertucci and wife to C. Caraffi and wife. QCD \$10. Pt of lot 1, all of lot 2, Sec. 15, Deerfield.

Security Svcs Bank to F. B. Weismantel. QCD \$10. Pt lot 8, blk 138, Sec. 4, Shields.

P. Baker and wife to J. Griffith. WD \$10. Pt lot 290, Lake Forest.

Johannah Rose and husband to F. S. Barker and wife. WD \$10. Pt lot 258, Sec. 34, Shields.

A. Kelley and wife to J. R. Weegan. WD \$10. Lot 15, 2nd Ravinia Forest, Sec. 21, Shields.

J. R. Keegan to V. Rosequist. WD \$10. Lot 14, 2nd Ravine Forest sub, Sec. 21, Shields.

C. T. & T. Co. to A. Shircliffe and wife. WD \$10. Lot 17, blk 4, Branigan Bros. Sunset Terrace, Sec. 22, Deerfield.

F. W. Jansen and wife to Mae Alexander. WD \$1. Lot 42, blk 8, Ravinia Highlands, Sec. 36, Deerfield.

R. B. Campbell and wf to C. E. Erickson. WD \$10. Lot 12, Forest Park, pt Sec. 34, Shields.

R. R. Bradley and wife to F. Fabry and wife. WD \$10. Lot 32, Rose Terrace Subdn, pt Sec. 28, Shields.

W. Tillman and wife to F. A. Bemus. WD \$1,000.00. Lots 23 and 24, William Tillmans Sparkling Springs Subdn, pt Sec. 21, Deerfield.

PRODUCTS OF LOCAL PLANT ARE FAMOUS

(Continued from page 1)

make quantities of that rare sugar now. But it is kept in vacuum. That first of the rare sugars found is known as "d-Mannose."

From Button Holes

This d-Mannose is literally made from the holes in buttons. That is, it is manufactured from the drillings and cuttings from a factory which makes buttons out of the vegetable ivory nut imported from the tropics. Other of the rare sugars were found in strange places. Endless experiments before they were found:

Trehalose—made from the resurrection plant of the Great American desert.

Rhamnose—an extract from the scrapings of the inside of the bark of the black oak tree.

L-Arabinose—from cherry tree gum or the waste pulp of the sugar beet industry; also from mesquite tree gum.

Raffinose—from cotton seed meal after the oil has been taken out.

Adonitol, also called Adonite—from the Adonia Vernalis plant.

Xylose—from the Missouri meerscham, the ordinary corn cob.

Who uses these? The customers? Not you or I. The Rockefeller Institute or Medical Research, the Mayo Clinic at Rochester, Minn., universities, colleges, government scientists are the buyers. Shipments go to scientists in Europe, as far away as China and Japan. The prize? Well Tryptophan, one of the so-called "amino acids," sells for \$3,000 a pound. The amino acid is another chapter.

Makes Hair Grow

Eighteen amino acids have been isolated. That came as the results of studies in digestion. Amino acids are produced in digestion and carried to all parts of the body by the blood. For example, one of them builds the hair structure. It is called Cystine.

Animals fed a diet loaded with Cystine grow shaggy, heavy coats. Animals fed a diet lean in Cystine develop thin coats. The hair is short, and falls out. So the Special Chemicals laboratory is on the trail of how to make hair grow. But it halts at a vital problem—

Feed a man food rich in Cystine and his hair will become thick. Yes, but likely it will become thick all over his body. And who wants to be a shaggy man. The scientists fear that it would, in a way, "make a monkey" out of the user.

Remarkable Discoveries

Two other remarkable discoveries have been made in this strange Illinois laboratory. They are:

1. Three of these "amino acids" make growth.

2. Two of them perform the function of "maintenance"; that is, they renew worn-out tissues.

So, it might seem, growth may be regulated and, of more importance—an inch or so of advance has been made along that winding road, sought through the centuries by scientists, the way to endless life. Perhaps an Elixir of Youth!

White rats, I am told, respond to foods and chemicals more like human

beings than any other animal. White rats fed on the amino acids that make growth will grow swiftly. White rats fed on a ration lean in these amino acids are stunted. White rats fed on a ration heavy in the amino acids that perform the function of maintenance live long and stay vigorous. White rats fed on a ration made lean in the amino acids of maintenance quickly become old and withered. They die in their youth of old age and senility.

This strange and mysterious laboratory has succeeded in performing artificial digestion. That is how Tryptophan, mentioned above and costing \$3,000 a pound, is produced. It is made from casein, the solid part of skim milk. The digestive juices of animals, freshly killed, are added to it in sterilized jars. It is interesting to know that the juices must be added in just the order that nature employs them, while the scientists watch, or the whole thing goes wrong.

The amino acids for maintenance are Arginine and Histidine. If Cystine makes your hair thick try these and stay young.

Certain laboratories demanded a chemically pure uric acid. How to get it? Experiments innumerable finally revealed the source. It was the dung of certain snakes living in Africa and Australia. The best source of all is the excretion of the python. That is because the period of time from feeding to elimination is about four months.

Strange Sources

There are other strange sources for chemicals. Formic acid is made by stewing red ants. The ants are gathered by luring them into bottles or jars with sweets. Alcohol is added to the sweets and, made drunk, they can't get out of the bottle.

Melezitose comes from honey made in the pine country in dry seasons. At such times the bees, no flowers available, make their honey of the sap of the pine and fir trees. Inulin is another, under the head of rare sugars. It is made from dahlia bulbs dug in the fall.

Dulcitol is made from d-Calactose by an electrical process which includes the use of sodium and mercury. Then there is Galactonic Lactone—

A certain great scientist, world famous, was having trouble with his teeth. The pulp had calcified and the dentist, drilling it out, hurt him severely. He told his staff to find something that would dissolve it. Finally about two grams of Galactonic Lactone was made. It did the work.

The problem of making it commercially was put up to the Special Chemicals laboratory. Robert Black, mentioned above, developed the process. Then the next idea—

The tartar that annoys so many of us is calculus tartar. It was found that Galactonic Lactone would dissolve it. Now, after two years of laboratory work and clinical experiment a tooth paste called Lactonique has been developed which, endless experiments have proved, will dissolve the tartar.

So science moves.

Carl Pfanstiehl
A word about this young scientist, Carl Pfanstiehl, who has done so many

strange things. He never was graduated from any school. His grammar school work was broken up because he had the only X-ray machine anywhere in this part of the country. Almost every day some doctor or surgeon got him out of school to aid in surgical work.

He tried Armour institute but some of the professors didn't agree with his views on science. So at nineteen he withdrew to devote his time to developing his inventions and patents on a commercial basis. He was one of the first to manufacture electric stoves and flat irons. He was the first in the mid-west to operate wire-les—before he left grammar school.

He invented a device for photographing the vibrations of the human voice. He invented a machine which would measure an electric current which might exist only 1-10,000ths of a second. He invented the process of making malleable tungsten which eliminated the necessity of platinum points in motor ignition.

Back in 1912 he startled an audience by passing 100,000 volts of electricity through his body and melting with it an iron bar which he held in his hand while he talked. He was one of the first to experiment with radio and is the manufacturer of a radio set named after him. I am telling only a few of the things he has done, giving merely a thumb-nail picture of his achievements because these stories must end. Quite casually he said to me:

"It will be only two or three years before you will be able to receive motion pictures by radio in your home just as you receive music or the voice now. You will be able to tune in on London and see people in action. It is simple enough!"

"Only one thing has delayed this invention. We had to have a lamp that would flash to full glow, and die out to complete darkness, at the rate of 30,000,000 times a second. It has

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developed. All that remains now is to get the apparatus down to a price low enough so that everyone can have it."

Modera Manna

I mentioned manna in the beginning. The manna made today is sold under the trade name, Mannite. A gum appears on a certain tree in the Holy Lands, these laboratory men tell me. If the year is very dry, and this happens every ten or twelve years, the gum dries out in whitish flakes, very light and something like wafers. In a brisk wind it will float for miles through the sky.

Recall, it was a dry year that the Israelites were so hungry that they prayed to the Lord for food and got the manna from the sky? The manna I ate at the Special Chemicals laboratory was made from this gum brought from the Holy Lands.

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