Human Guinea Pig Club

The guinea pig, which is domesticated in most parts of the world, has been widely used in bacteriological experiments. This experimental use of the guinea pig has become so general that the mere mention of this creature's name suggests the idea of "try it out on Rover."

The "Human Guinea Pig club" is the unofficial caption of the U.S. army subsistence research laboratory at the Chicago quartermaster depot. Here samples of the foods manufactured by various firms are submitted for analyzation, tested for vitamin content and other nutritional values. It is here that the containers are subjected to tests simulating tropical and arctic conditions. Here also are evolved the emergency rations designed for aviators, paratroopers and

The Guinea Pig club is comprehensive in its membership. Generals, lieutenants, famed scientists, stenographers, civilians and enlisted men all partake of food prepared under various formulas. It is they who decide whether the rations are palatable, digestible and nutritious. Every noon the club meets for this purpose, and its members risk their digestions in the name of patriotism, so that the soldier may eat the proper food. And we all know how very important it is that the soldier gets the proper food to sustain him in his grueling routine from day to day. It has often been said that food will win the war. Certainly there is no denying the importance of the part it plays.

The following series of pictures gives you an opportunity to take a peek at America's most unique club.



Brig. Gen. Joseph E. Barzynski, commanding general of the Chicago Quartermaster depot, at end of table, presides over the famous "Human Guinea Pig club." The ham served at this particular meal was eleven years old, and the eggs used in the dessert were four years old. (U. S. Signal Corps photos.)



In this laboratory, the army technicians break down the food to determine the vitamin content and its nutritiousness.



Under supervision of the Quartermaster Corps the concentrated food for use of troops in the field is packed by a chewing gum manufacturer who has converted his production line to the packing of emergency rations.



Selecting samples of food submitted by various manufacturers.

Sudden Proposal

BARBARA BENEDICT Associated Newspapers. WNU Features.

ARTHEA stood before her bedroom mirror, surveyed her trim young figure, arrayed in an especially designed white satin evening frock, and frowned. Within the hour Ted Wilder would call for her and they would be on their way to the Philbrick's charity ball.

It was because of Ted that Darthea frowned. She loved him, had loved him for more than a year. And she felt reasonably sure that he loved her. Though he had never said so; had never proposed marriage or talked about the future. That was where the trouble lay. Ted was waiting. Darthea knew this; knew that he was holding off until things became a little less

Well, a girl got tired of waiting. If she loved a man-as Darthea loved Ted-she'd go through anything with him. Good times and bad. Ted was too conservative; too afraid to face the thing without being sure of a comfortable income. Of late, another obstacle had entered the picture-Mel Harper, young, dashing, handsome. Darthea

liked him. He was good company. But it ended right there. She loved Ted, and that was that. Still, her interest in Mel had excited Ted's jealousy. Though he had never mentioned the matter,

Darthea felt that Mel served only to

make a proposal of marriage more



up to Ted. She wasn't going to refuse Mel one or two evenings a week. Not, at least, until something definite had been decided upon.

Darthea thought of these things as she surveyed herself in the mirror. They troubled her. Despite her resolutions she wanted Ted; wanted him to propose. Perhaps, she thought, Mel Harper might be a means to an end.

Ted was more morose than ever that night. Something was bothering him. He evaded conversation all the way to the country club. And even while they danced, Darthea suspected that his mind was on oth-

Toward the middle of the evening they strolled out on the terrace and found a vacant bench. Ted stared out over the river that drifted silently by at their feet, and lost himself

At length Darthea said: "There's something wrong, Ted. I'd like to help you, if I could."

"It's nothing. I'm sorry if I appear rude."

"Well, you do! You've been rude all evening. You're not very good

company.' "I know it," he said bitterly. " know I'm not. And I'm sorry."

Darthea almost regretted her words. She knew now that he was thinking of Mel Harper, thinking how much more entertaining Mel could be. She said, casually:

"Mel Harper was over yesterday. We played tennis together. He was asking for you." Ted suddenly whirled. Fierce anger flashed in his eyes. The dreamy, morose mood dropped

from his expression like a mask. "Mel! Mel! He's all you talk about! All you think about! Why don't you tell me you want me to step out of the picture! Why not say it, without so much beating around the bush!"

"Why Ted! Ted Wilder! Whatever are you saying?" "Oh, don't be so messy about it! Don't try to pretend it isn't

"It isn't! It isn't! Not one bit of it is so. I had no idea-"

Ted laughed mirthlessly. "Don't try to be kind, Darthea. Don't try to spare my feelings. I know how the cards lie. I've thought it all over. I know. And I can stand it if you tell me now. In fact, I'd rather you wouldn't put it off any longer."

"Ted!" Darthea was on her feet. Her eyes were flashing fire. "Of all the crazy notions! Why-whyyou're absolutely impossible!" "You love him!"

"Yes, you do too. I can tell by the way you act with him. You love him and you're trying to ease your conscience with me."

"With you! Why should I have to ease my conscience with you? What right have you to say these things? What strings have you got attached to me? It's silly."

Darthea was thoroughly aroused, and Ted for the first time began to reconsider. After all, there was nothing between them, nothing but an unspoken understanding, which, after all, seemed to have existed only for him. He took one of her hands in his, which she instantly with-

"I'm sorry, Darthea. It certainly looked as if you were in love with him."

"That's because of your own stupidity. It's you-"

"Darthea! I-I-could you love me now?"

Darthea melted perceptibly. She sat down again, pouting prettily. "Not if you think I love Mel Harper."

"I don't. I swear it. I-only wanted to make sure-to find out if you loved me."

Darthea swayed toward him. She saw the enraptured look in his eyes, and thrilled at it. She said, softly: "I don't love Mel Harper. I never have. I love you. And just to prove it, I'll-I'll marry you!"

"Darthea! Oh, sweet, that's too wonderful. I-I can hardly believe you're really serious." paused a moment, then suddenly turned, inspiration lighting his eyes. "Darthea, let's get married now.

"Tonight?" "Yes. We can get a waiver, and have the J.P. marry us down in the village. It'll be over before we

Darthea indicated her agreement to the proposition by lifting her lips to be kissed.

As they swept down the hill toward town in Ted's roadster, she felt a sudden feeling of gratitude for Mel Harper. She smiled in the darkness to herself. "A means to an end," she

Fuel User's Pledge Has Many Helpful Suggestions

A fuel user's pledge in the interest of the war effort and conservation of fuel and metal includes ten sug-

1. Order fuel early and keep an adequate stock on hand to equalize and conserve transportation and delivery facilities.

2. Have the heating plant cleaned for the summer shut-down period in order to prevent corrosion. More With proper care, summer and wintury of service.

dealer in heating equipment to make | physician. a thorough inspection of the heating plant including chimney, smoke pipe, controls, valves, and burner or stoker.

4. Have whatever repairs or al terations necessary to efficient operation of the heating plant made at once. This aids metal conservation because it enables dealers and manufacturers to maintain inventories in accordance with actual needs. It is assurance for the home owner that materials needed for necessary repairs will be available in time. Home owners in eastern states whose heating plants are suitable for burning coal are urged to take immediate steps for conversion.

5. Reduce heat losses from the house by means of insulation, weather-stripping of windows and doors, and closing of fireplace dampers.

6. Turn off heat in unused rooms such as guest rooms, garage, recreation rooms, and maintain lower temperatures in bedrooms.

7. Check heat losses from boiler, furnace, piping, or ductwork by adequate insulationg.

8. Have thermostatic controls installed to prevent overheating or underheating because both are dangerous to health. Overheating wastes fuel.

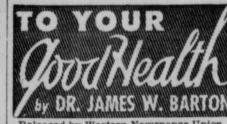
9. Lower thermostat setting whenever heat is not needed, as for instance at night or when house is not occupied. When the indoor temperature is permitted to drop a maximum of six degrees at night, there is a saving of from 8 to 10 per cent in fuel.

10. Operate heating plant efficiently in accordance with suggestions by manufacturer or heating contrac-

Letting in the Desert

Journal of June, Prof. E. P. Steb- of the blood in the little blood ves- rayon is used to make yarn from bing directs attention to the serious sels (capillaries) massage causes an soybean cellulose and the casein threat to the West African colonies increased rate of blood flow and from soured milk. Soybeans will be of Great Britain and France by the changes in the vessel walls followed used for automobile upholstery withencroachment of the Sahara. This by an increased interchange of sub- in a short time. So enthusiastic is is due, not to climatic causes, but stances between the blood and tis- Henry Ford about the possibilities of to the methods of agriculture pur- sue cells. That is, the blood takes this fabric that he has had a suit sued. Shifting cultivation is still the away from the tissues the substances made from soybean cloth woven to practice. A piece of forest is felled, causing tiredness, stiffness and pain, resemble wool. the timber burnt and the ground is and brings to these tissues fresh sown and ultimately harvested, blood. When the weeds become too heavy or the yield inadequate the patch is abandoned and a new one occu-

verge of the Sudan becomes degrad- husband has recovered from a se- as soon as possible. This treatment West Africa, is a term applied to weight. Can you suggest a cause where the bark was torn. In some bush or scrub. Herds of the no- for this? madic shepherds then occupy and stage in the ruination of the land for vision also. and the advance of the desert.



EPILEPSY

Some years ago I expressed the personal thought that if I had been Cause Explained gifted with the qualities of a research physician, the investigation

as to the cause of epilepsy would have been my first challenge, after cancer. Despite the fact that it is one of the old-

Dr. Barton

individuals.

essary to prevent attacks in some duce properly ripened ears.

possessed by physicians everywhere chances are that the interior of the there are many research physicians still patiently working on the problem of epilepsy. It might be well to speak of the Harvard Epilepsy commission where the original work of Drs. H. H. Merritt and T. J. Putnam on dilantin sodium outlined in the Journal of the American Medical Association four years ago, is being further investigated and results reported to physicians every-

For years, successful treatment of epilepsy has, as outlined above, been (a) cutting down on liquids, (b) cutting down on starch foods, breds on a Jefferson county, Wiscon-(c) increasing fat foods. The medical treatment has been phenobarbital or other of the barbital drugs which replaced the bromides of for- joints will be found considerably

A new drug in use for the past of the stem tissue. few years is dilantin sodium, the use of which has been reported by an accumulation of iron and other Drs. Merritt and Putnam in Boston, and Dr. C. P. Kimball among the children attending the Detroit board that transport food to all parts of of education's special school for

While physicians report still some unpleasant reactions from dilantin sodium and prefer phenobarbital, more and more dilantin sodium is coming into general use to prevent the epileptic convulsions.

is found, epileptics can, in most likely to reveal tell-tale darkened heating plants rust out than wear out. cases, live safely with none of the joints. In such instances, the troufears of attacks occurring in public ble is due to a lack of both potash ter, hot water boilers have been or dangerous situations by following and phosphorus. The application of and the use of dilantin sodium or will remedy the condition. 3. Ask a reliable contractor or phenobarbital as prescirbed by their

Massage Relieves Pain and Stiffness

During and immediately following the war of 1914-18, the value of massage in quieting pain, loosening up stiff joints and muscles, aiding the circulation, helping to move the wastes along the large bowel was so well recognized that schools of massage, sometimes as a part of a course in physical therapy, were established, and, when connected with recognized colleges, diplomas were

Just before this present war started massage was not receiving as American farms, are used to make much attention as it deserved but rayon, the fabric that goes into evnow there is renewed interest there- erything from football breeches to in in actual field operations and even velvet evening wraps. So popular in training camps.

time that physicians as a whole give process was discovered 50 years ago any attention to massage; even then by a Frenchman and has been proit is left to non-physicians not only duced commercially in the United to give the actual massage but often States since 1911. More than 500,to prescribe the type of massage that 000,000 pounds of rayon yarn is used should be given in any particular annually. case. Thus Dr. Ralph Pemberton, Although there are several vari-Philadelphia, in his "Handbook of eties of the process, most rayon is Physical Therapy" states "There is made by adding chemicals to spruce probably no other measure of equal wood and cotton linters to change it known value which is so little used into a thick, syrupy solution. This and understood by the medical pro- is pressed through a kind of strainfession as a whole."

massage had just the same effect of yarn. When this is cleansed and upon the muscles as exercise; in dried, it is the thread to be woven fact was a form of exercise but into cloth. the benefit derived is now believed | Filaments can be combined into

due to another cause. painful joints and muscles? In the coarse wool. Mixed with cotton, Journal of the American Medical silk, flax or wool, this yarn is Association, Dr. George Morris Pier- woven into cloth of endless variety sol, Philadelphia, states that from of textures. In a paper in the Geographical direct observation on the circulation This same process invented for

QUESTION BOX

Q.-What is the difference between Thus, the deciduous forest on the an oculist and an optometrist? My ed, more open and drier. Eventual- rious illness and though his appetite should consist of cutting the ends of ly savannah supervenes, which in is good, he doesn't seem to gain the broken branches back beyond

further destroy it. When its fodder measure the needs of the eyesight main stem or lateral. These value has almost gone, the herds- and prescribe glasses needed. The man cuts the scrub trees to get oculist is a physician and surgeon fodder for the goat. This is the last | and has the knowledge to prescribe



Corn 'Rheumatism'

Cure Effected by Using Phosphorus and Potash

By Dr. George N. Hoffer

"Rheumatism" in the joints of est known diseases, growing corn that results in poorly the actual cause is formed ears or dwarfed growth can be cured by doses of potash or phos-We know that too phorus fertilizer or a combination much liquid in the of both elements applied to the soil body brings on the in sufficient quantities.

attacks in some in- Corn "rheumatism" is especially dividuals. We know prevalent in areas that have been that some cases are consistently planted to this crop for We know also that generations. It often manifests itcutting down on starch foods and in- self in poor yields from normal creasing fat foods is all that is nec- looking corn plants that fail to pro-

If the stems of these backward In addition to the knowledge now corn plants are slit lengthwise, the



After a "hard" day these puresin, dairy farm are heading home.

darker in color than the remainder These darkened areas are due to

minerals that break down the tissues and wreck the "conveyor belts" the corn plant. Scientific tests have everyone will plead, and no man established that this malady is Solder. caused by a lack of available potash in the soil. It can be prevented by the addition of potash.

In some cases a definitely stunted growth of the entire corn plant accompanies the symptoms of poorly maturing ears. Here again a Until, then, the cause of epilepsy lengthwise section of the stem is known to give more than a half cen- the diet suggestions mentioned above these plant food elements to the soil

While corrective measures such as the foregoing are advisable, the surest preventive of plant malnutrition and its resultant crop failure is to make certain that before corn planting time each year the land is provided with plenty of fertilizer to supply needed potash and phosphorus to the growing crop.

> Agriculture Industry By FLORENCE C. WEED

Cellulose for Textiles

Wood and cotton linters, grown on has it become that five times more Unfortunately it is only at war rayon than silk is now used. The

er, called a spinneret. Out of each At one time it was thought that tiny hole comes a single filament

different sizes of yarns, finer than Why is massage so helpful to stiff, those of a silkworm or thicker than

Italy pioneered in making milk

Injured Trees

Trees that have been injured by storms should be given treatment instances it may be advisable to re-A .- An optometrist is trained to move the entire branch back to the torn and ragged ends of branches should be removed immediately and all wounds that are two inches in diameter or over should be painted.



A LMOST any plain washstand or dresser may be given long smart lines by adding open shelves at the ends. Here, a top of plywood with a plain moulding around the edges extends across the top of the stand and shelves. By adding a plain baseboard and a coat of paint the piece is finished with a modern air.

The diagram at the upper right shows how to make the wall decoration from a remnant of flowered chintz. If you use an old frame, the chintz picture may be given the appearance of an oil painting by applying several coats of var-

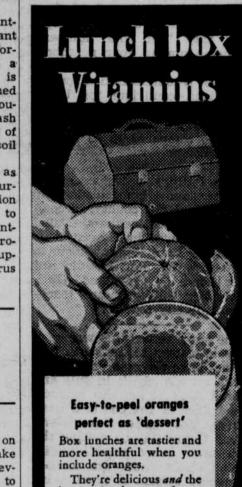
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