

Wasp brings home its dinner-a cicada.

Wasps and Hornets Are Efficient Destroyers of Our Insect Pests

nectar from the flowers.

They are especially fond of the

be told, they much prefer this sap

after fermentation has transformed

Idle ease, nectar, and beer satisfy

these wasps for a few weeks. Dur-

ing this time they display not the

velopment, the females somewhat

suddenly become demons of dynam-

ic energy murderously inclined to-

ward all cicadas-full-fledged cica-

bulk and power of their victims.

It is a thrilling sight to see one of

them strike a cicada in full flight

and, with its prey, go tumbling to

the ground. But their technique is

crude-effective, but lacking those

ture. So let us consider the most

accomplished artists that are found

How Wasps Use Caterpillars.

long-waisted wasps commonly are

means little more than feeding on

nectar in full enjoyment of the sum-

an air of complete boredom, they

could scarcely appear less interest-

are spending their time in frivolous

enjoyment they are developing

strength and energy and acquiring

Energy finally gets the upper

hand, and the female forsakes the

flowers almost completely. The first

soil, more or less protected, and

After the burrow is completed the

wasp closes the opening with a little

stone or a pellet of earth of just

several pellets, filling the hole up

level with the ground and often

Her burrow completed, closed,

and concealed from view, she now

goes in search of prey-caterpillars

found on or near the ground. The

commonest one prefers green cater-

When a caterpillar is discovered

the wasp knocks it off the leaf onto

chance, she seizes it with her man-

dibles near its head and gives it a

earlier segments. This ends the

The wasp then stings its victim

between the other earlier segments

and between most or all of the

hinder segments. The stinging is

followed by a thorough squeezing of

the neck between the mandibles all

around, this squeezing process last-

Put in Cleverly Closed Burrow.

The caterpillar, reduced to com-

plete inertness and lying extended

at full length, is now ready to be

transported to the burrow. The

wasp turns it on its back; then, seiz-

ing it by the throat, lifts its head off

very creditable pace-at least when

the ground is smooth and the way is

to the burrow, which is opened and

the victim placed inside. Sometimes

a single caterpillar is sufficient, but

usually two or even more are need-

ed. If more than one is stored, the

burrow is always closed after each

of caterpillars is complete and the

egg is laid, the burrow is perma-

Now comes the most interesting

part of the whole proceeding. The

wasp searches for a little stone of

with this held firmly in her jaws

she pats the earth down very care-

care.

the ground and drags it along at a

struggle of the caterpillar.

ing for some time.

pillars much larger than herself.

kicking some loose earth over it.

a knowledge of the world.

Lazy, slow-moving creatures, with

mer sunshine.

and horizontal.

among the digger wasps.

The cicada-killers are interesting

da-killers.

it into more or less strong beer.

Prepared by National Geographic Society. | cada-killers, indolent and peaceful, Washington, D. C.—WNU Service.

TINGS have a high educational value. After one or two experiences with sap of certain trees. If truth must these concealed weapons, the personality of the little stingwielders is firmly impressed

upon you. It is quite proper to regard the wasps and hornets with respect, as | slightest interest in cicadas. Then, they insist you shall. But do not with the attainment of full bodily delet their potent personalities prejudice you against them. For it is within this group, taken in the broadest sense, that is found the cleverest and most ingenious of all the insects, as well as the most efficient and destructive enemies of | because of their great size, and the our insect pests.

The cleverness and ingenuity of wasps take numerous forms. Each of the many thousands of different kinds has its own little specialty which differs more or less from that of every other kind. Among these specialties few are more fascinating than those of the various digger wasps that burrow in the ground and lay up in little chambers food upon which their young subsist.

Look closely into the habits of some of the common digger wasps and see what they are doing in that sultry season when you can think they display the greatest energy.

Familiar to everyone in the hot, still, midsummer days is the monotonous shrill song of the cicada.

Hornets Prey on Cicadas.

Once in a while one of these monotonous trills stops suddenly. You hear a discordant shriek that startles you for a moment. Then all is the same again-the heat and the interminable trills of the cicadas.

What has happened? One of Nature's little tragedies. A cicada has been surprised by a cicada-killer, has fled shrieking away, and in all probability has been caught and stung, not to death, but into a state of complete helplessness.

The cicada-killer is one of the largest and most conspicuous, as well as one of the commonest, of burrowing wasps. To many people it is known as a hornet-in fact, the hornet-and is much feared. But it is not at all aggressive. It resents undue familiarity, of course, but its the right size, or sometimes with nature is wholly peaceful-except when cicadas are concerned.

Cicadas are its only prey. Sometimes you see it flying about a tree, hunting for a victim up among the branches, or pursuing a cicada at high speed through the air. But it is usually noticed dragging a cicada, often much larger than itself, along the ground on the way to its burrow.

This nursery is commonly made in the higher and drier portions of the ground. Then, watching her lawns, or in sloping grassy banks, and runs to a more or less spherical cell about an inch and a half in prolonged sting between two of the diameter. The finished nursery usually includes four cells.

After each cell is completed the mother wasp goes on a hunting expedition. In bringing the cicada to the cell she frequently hoists her victim laboriously up a tree, from which she flies diagonally down toward her burrow. Thus she saves much time and energy, for dragging a creature as large as a cicada through the grass is a herculean task even for so powerful a wasp. Usually, though not invariably, a

second cicada is added to the first. After the cicadas-still alive but helpless-are stored safely in the underground cell, the wasp places an egg on the body of one of them just under one of the middle legs, then closes the cell with earth.

Week's Food for the Grubs.

The egg hatches in three days, and the grub feeds on the cicadas for a little over a week. It then makes a cocoon of earth, mixed with enough silk to make it rather dense, and spends the winter inside. In the spring, after passing through | is placed within it. When the store the pupa stage, the wasp digs its way out of the ground.

The cicada-killers that you see nently closed with the greatest walking or flying about a grassy slope are living evidence of the numerous tragedies that have taken

place beneath the sod. Only the young of this wasp feed just the right size and shape, and on cicadas. The adults, as is the case with nearly all the wasps, are vegetarians. For many days after fully to obliterate all traces of her emerging from the ground, the ci- work.

SEEN and HEARD NATIONAL CAPITAL,
By Carter Field
FAMOUS WASHINGTON CORRESPONDENT

WASHINGTON .- A very promi- | All-American Waterway nent New Dealer, Thurman W. Arnold, now the official trust buster of the administration, frequently expresses amazement at the morals and sense of civic duty and mental processes which permit big corporations to cut wages or lay off help if they have a surplus at the time.

The curious element about this statement is that it comes from the official trust buster. It involves a very simple question in economics, which anyone who has ever been in business, even if it were a peanut stand, can follow.

To dismiss all questions of morality, loyalty to one's employees, and that sort of thing, assume that the Ford Motor company has a huge cash surplus, which it actually has, but that none of its competitors has, which is not true. Also assume that Henry Ford is deeply imbued with the thought that Mr. Arnold thinks he should have. (The writer does wander aimlessly about, lapping up not know that Mr. Arnold has ever applied his theory to the automobile industry. He talks mostly about steel when he is discussing it.)

What would happen when the normal situation, which results in cutting pay or laying off workers, develops? Obviously Ford, having a big surplus, would go on producing cars at top speed, while his competitors, in this illustration not having any surpluses on which to draw, would have to close down.

Lead to Monopoly

There being no demand for cars, that being the cause of the situation, Ford would be forced to do one of two things. He could either store his product in the hopes that a revival of buying would eventually take them off his hands, or he could slash prices in order to force the cars out. If he did the latter, he would eventually put all his competfiner touches that perfect the picitors out of business. He would be selling cars below cost, using up his surplus, in order to keep his workers employed. But the moment that times became better he would Rather large, very slender, and have a tremendous advantage. His plant would be going under full seen early in the summer on wild steam. Big production would have carrot and other flowers, about de- cut his costs way down. Operation, caying fruit, or drinking at the sides instead of idleness, would eliminate only of vacation, for it is then that of puddles. Indolent and peaceful, the wastes of a shutdown. He nev are unsuspicious and slow to would be able to slash prices still take offense. These are young cat- more in order to continue going full erpillar wasps, for which as yet life | blast.

Meanwhile, especially if the depression were of some duration, this very activity would have made the resumption of selling by his competitors more difficult. There would not be the piled up demand that usuing or more slothful. But while they ally ends a depression. There would not be hundreds of thousands of persons who had run their old cars a few years too long. They would have bought new Fords at the reduced prices.

Carried to its logical conclusion, the company with a big surplus thing she does on becoming energetcould thus eliminate its competitors, ic is to find a patch of bare, stiff and acquire a monopoly in almost any field. there dig a burrow ending in an

enlarged chamber, oval in shape Food for Thought

One of the spokesmen for the New Dealers has just written a short article predicting government ownership of the steel industry. The article attracted singularly little attention merely because nobody believed it! Actually there is considerable food for thought in it. It was far from the half-baked statement most readers thought. It showed a study of the steel industry had been made by some of the informants of the writer, and it was remarkably accurate in predicting the probable course, as seen by men inside the steel industry.

For instance, the government has been seeking for several years to break down the so-called basingpoint system. Actually the basingpoint system was a lifesaver for the smaller steel companies. It forced the quotation of prices as of certain places, the basing points, the price always being the fixed amount plus freight from this basing point.

Naturally, being the biggest of the steel companies, and a merger of many original units, the U.S. Steel company has plants in more localities than its competitors. Therefore, with basing-point bidding eliminated, and with all bids submitted providing for delivery on freight cars at the steel mill, the company with the most widely separated plants has a tremendous advantage.

Buyers patronizing it would have to pay only the freight rate from the mill of that company closest to the point where they proposed to The caterpillar is finally brought use the steel.

In view of this situation, it is difficult to understand why the trustbusting section of the government has been so anxious to break up a practice which actually helped during the last emergency because maintain competition, or at least it was until this article by a comparatively unofficial spokesman. He states the only answer that has been made which appeals to the logic of those who have been wondering about the government's course.

The answer, of course, is that the government is looking ahead of the immediate developments, and planning to take over the steel business just as it has been moving in on and create jobs for the unemthe electric business now for several years.

Development of an all-American waterway in lieu of the St. Lawrence seaway is urged in a letter to Secretary of State Cordell Hull by Commander Eugene F. McDonald Jr. McDonald was a member of the MacMillan polar expedition.

"Many years' experience," Mc-Donald wrote Secretary Hull, "in navigation of the salt and fresh waters of the world, from within 11 degrees of the North pole to and be- Have Stake yond the equator, prompts this letter to you.

"Recently, while returning from a 12,900-mile winter cruise through the Caribbean and as far as South America, I brought my 185-foot Diesel yacht Mizpah through the St. Lawrence waterways to Lake Michigan and then on to Chicago. I have made this same trip many times before, but my recent experience brought again rather forcibly to my mind the St. Lawrence system as it exists today.

"Born in Syracuse, N. Y., I have known the Erie and Barge canals since boyhood. For 25 years I have explored the waters of the Great Lakes and their tributaries, and have a deep interest in their development as waterways. I have no personal or commercial interest of any kind at stake.

"I hope I am, therefore, able to consider the problems presented by the proposed Great Lakes-to-ocean waterways with an informed, but detached and objective, viewpoint.

Enlarge Barge Canal

"The conclusions that have forced themselves upon me are the follow-

"1. A deep waterway-a ship canal-between the Great Lakes and South American conferences. He the Atlantic ocean is, unquestionably, to be desired. Especially is this true when we consider that, in years of normal crop movement, some 12 per cent of the total United States foreign trade clears through the Great Lakes-even with our present inadequate waterways.

"2. Why build this great waterway through Canada, either wholly or partially with American money, when the more logical, more ecospeaking of enlarging the Barge canal, through New York state, to the proportions of a ship canal.

"3. New York city, as a seaport, is closer than the mouth of the St. Lawrence to all the world markets. with the exception of Labrador, Greenland, Iceland, Newfoundland, and northern Europe.

"By this all-American waterway route Buffalo, Cleveland, Toledo, Port Arthur, Fort William, Toronto, Detroit, Milwaukee, Duluth, Chicago, and all the other Great Lakes ports-whether Canadian or American-and their tributary territory, will be 1,559.3 miles closer to New York and to all the seaports of the world than they would be by the St. Lawrence route, with, of course, the few exceptions named above. From Buffalo to New York, via the Welland canal and the St. Lawrence, is 2,066 land miles. Yet it is only 506.7 miles from Buffalo to New

York via the Barge canal. "The Hudson river is already dredged, and available for oceangoing ships, from New York to Albany, with a 27-foot draft channel. The all-American route would merely entail the deepening and widening of the Barge canal, the installation of new locks, and the removal of fixed bridges over a distance of 362.5 miles, from Buffalo to Albany.

Another Suggestion

"A still more practical, economical, all-American route can be made by merely enlarging the Barge canal from Buffalo, or Tonawanda, to Lockport, and creating a new canal, of a length of 12 miles, from Lockport to Olcott, which is on Lake Ontario. The route then to go through Lake Ontario to Oswego, and enlarging the Barge canal from Oswego to Albany. This latter route would entail the deepening of the Barge canal for a distance of only 213.6 miles, and the creation of a new canal of 12 miles.

"In my opinion, either of these shorter, all-American routes can be constructed for less than the proposed deepening of the St. Lawrence waterways. In case of emergency, we would then have an all-American waterway to move our much needed vessels from the Great Lakes to the Atlantic ocean.

"If a plan such as I have outlined were adopted, it would not be necessary, in order to get some of our vessels to the seaboard, to dismantle them and, in fact, actually cut them in two, as was the case of the inadequacy of the present waterways.

"Last, but not least, it should be borne in mind that because of the more favorable southern latitude of the all-American route, it would be open a number of weeks longer each year than would the Canadian waterway. The low cost of transportation by the all-American waterway is bound to increase business

ployed." @ Bell Syndicate.-WNU Service.



WHO'S **NEWS** THIS WEEK

By LEMUEL F. PARTON

NEW YORK.—England pioneered the businessman - diplomat shrewdly and effectively, it would seem. Many of her best fixers

and negotiators Best Fixers throughout the world have been men who had a In Deals

personal stake in the outcome of their operations. They were not disinterested, perhaps, but no more were the traditional diplomats who knew protocol, perhaps, but nothing about oil.

America followed with Norman H. Davis, a financier who became an effective European swing man under five presidents, and then came Spruille Braden, engineer and industrialist who was our ambassador-atlarge in Latin America until he became minister to Colombia last April.

President Roosevelt, agreeing to act as an arbitrator in the Chaco dispute, picks Mr. Braden to represent him. In his own private industrial diplomacy throughout South America, the husky and gregarious Mr. Braden has proved himself an excellent pacifier and troubleshooter.

He knows the score in oil, copper, rubber, minerals, hides and what not, and this ma-Braden Wise terialized and par-In Latin ticularized diplomacy has made Diplomacy him useful in diplomatic representations at various

has been working on the Chaco settlement for the last three years. In his youth, he did a short turn in the mines near Elkhorn, Mont., his native town, and then went to

Yale and became a mining engi-

He was a second-string halfback at Yale, but a first string engineer and promoter from the start, electrifying Chile for Westinghouse, organizing the Bolivia-Argentina Exnomical, shorter route can be whol- ploration corporation, branching out ly an American waterway? I am widely in South American development and finance. He desperately wanted to be minister to Chile, but was consoled with Colombia.

He is forty-four years old, remembered in New York as the fastest and hardest-working handball player around Jack O'Brien's gymnasium, in which he combated a tendency to plumpness, creeping up on him a bit in late years.

He was married in 1915 to the beautiful and socially eminent Senorita Maria Humeres del Solar of Chile. They have three daughters and two sons. Their New York residence is the former George W. Perkins estate at Riverdale-on-the-Hud-

ARL J. HAMBRO, burly president of the Norwegian parliament, is in America for a lecture tour. There is an interesting cutback in his career.

Predicted At Geneva, in Collapse 1927, he staged a spectacular de-Of League bate with Austen Chamberlain, in which, speaking for the small states, he vehemently insisted that the league must find a way to restrain strong aggressors, or else find itself impotent and discredited in a few years.

With equal vehemence, Mr. Chamberlain proclaimed the trustworthiness of the strong states and their humanitarian aims. Warning Mr. Hambro against overt restraints by the league, he said, "Along that road lies danger."

Mr. Hambro was the most distinguished recruit of the Oxford group movement in 1935, and has since been a leader of the movement in Norway.

Returning from a luncheon attended by Dr. Frank Buchman, founder of the movement, in Geneva, he told of the mystic exaltation of the company and later announced his adherence to the group.

Although a conservative, Mr. Hambro is the president of the Labor party of Norway. For many years, he has been leading the fight of the smaller nations in the league. Arriving in New York, he remarks dryly that Norway is old-fashioned -she has a surplus in her budget.

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Marriage Problem in Africa Christian denominations have

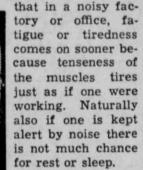
sprung up so rapidly among the natives of South Africa that the government has had to step in and separate those qualified to have marriage ceremonies performed. There are more than 500 "all-Bantu" Christian denominations in the country, giving South Africa the largest number of religions in the world. The government has announced in Pretoria that it will issue an "approved list" of churches having clergymen able to keep a marriage register and therefore entitled to most intense irritation. unite couples.

Snoring— Cause and Cure

DR. JAMES W. BARTON @ Bell Syndicate .- WNU Service.

WHEN we think of disturbing noises it is the automobile horn, the locomotive whistle, the siren of the ambulance or the fire truck that we have in mind. Noise is so harmful to the body and brain that all over the world -London, New York, Paris, Berlin, and in smaller cities -laws are now in force to lessen all noises.

Noise keeps the nerves tense, the nerves keep the muscles tense, so



However, all noise Dr. Barton is not outdoors and

one of the most disturbing noises—to others—is snoring. Snoring has been measured by the audiometer in sound units, the decibel, which is the smallest sound that can be heard by the normal ear. This machine shows that the sound of the snore is 40 decibels which is equal to the sound of a noisy office or automobile.

In Hygeia, Margaret McEachern stated that, according to careful estimates, one out of every eight persons snores more or less regularly, and no doubt every person snores occasionally.

How It May Be Cured. What is the cause of snoring and what can be done about it?

There are many causes of snoring but most cases are due to some obstruction to the breathing-enlarged turbinate bones, bending to one side of the septum (the bone and cartilage partition between the nostrils), adenoids in children. Many cases are due simply to lying on the back and letting the mouth

The "noise" from snoring is due to vibrations while breathing in and out of the soft palate and the uvula (the little portion of flesh hanging between the tonsils or the place where the tonsils have been).

Lying on the left side when the All Is Fair Even If left side of the nose is "blocked" and the right side when the right It Is a Dog's Life side of the nose is blocked, prevents snoring because it allows the wing or side of the nose to drop down, leaving more air space because nostril becomes more widely

However, as Margaret McEachern points out, the best plan to cure the "snorer" is to have him visit the family physician or the nose struction corrected.

Water and Reducing.

It is often pointed out to overweights that as fat tissue holds so much water, if they would cut down on their water or liquid intake for three or four weeks, or until the body, by means of the water in all foods, has taken a definite amount of water from the foods, they would lose weight more rapidly. This is a point known to boxers, wrestlers, jockeys, and others whose weight must be kept within certain limits but seems to be unknown to a great many overweights.

Overweights state that they always thought water was "good" for them because it washed out wastes, cleared out the kidneys, and added no weight. Water is "good" for everybody; every body needs it in order to work properly. But the body needs only so much water or liquids daily, and in fat individuals much of what is not used is stored away in the fat, just as the fat itself is stored away in overweights because it is not used or needed.

What most overweights forget is that all the water taken into the system must be considered or accounted for; this means not only water, tea, coffee, milk, soft and hard drinks-but also the water in food. For instance, semi-solid foods contain a great amount of water and even the driest most solid food contains some water. Nuts, dry cereals and crackers may contain as much as 5 to 10 per cent of water; fruits and vegetables contain a great amount of water, some as high as 85 to 95 per cent.

Gretna Green Marriages

For decades Scotland's Gretna Green has been famed for its marriages of elopers, many of whom were pursued by irate parents and took their vows as hastily as possible over a smithy's anvil, for fear an irate relative would break up the proceedings.

"Jigger" Kind of Flea

The "jigger" is a kind of flea which is found in tropical countries. has the habit of burying itself in the skin of the foot-either of a person or an animal, it doesn't care which. There it swells till it is the size of a small pea, causing the

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To obtain this pattern, send 15 cents in stamps, or coins (coins preferred) to The Sewing Circle, Household Arts Dept., 259 W. 14th St., New York City.

Please write your name, dress and pattern number plainly.

He was a pork butcher, and he and his sausages had done very well indeed in the town-until a rival came along and, by undercutting and pushful publicity,

started to take all the trade. Butcher No. 1 was sitting in his shop musing on what the inside of a poorhouse would look like, when and throat specialist and have ob. a bright idea suddenly struck him.

Changing his clothes as quickly as he could, he hurried to his competitor's shop and, elbowing his way through the crowd of customers, planted a dead dog on the counter.

"'Ere y'are, Jack," he exclaimed in a loud voice. "That makes the dozen."

How Women in Their 40's **Can Attract Men**

Here's good advice for a woman during her change (usually from 38 to 52), who fears she'll lose her appeal to men, who worries about hot flashes, loss of pep, dizzy spells, upset nerves and moody spells.

Get more fresh air, 8 hrs. sleep and if you need a good general system tonic take Lydia E. Pinkham's Vegetable Compound, made especially for women. It helps Nature build up physical resistance, thus helps give more vivacity to enjoy life and assist calming jittery nerves and disturbing symptoms that often accompany change of life. WELL WORTH TRYING!

Time for Courtesy Life is not so short but that

there is always time enough for courtesy.-Emerson.



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31-38

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