but the slightest pressure on the helm to change the direction of the vessel and to respond to every demand that I made upon it.

"'I also profited by the lesson I learned on the first flight, and when I found that the motor was working smoothly and evenly, furnishing all the power necessary for a successful demonstration, I let well enough alone and did not attempt to increase the sparking, which action caused the motor to "go dead" on my trial last Tues-

enced to estimate the speed at which I moved, and any way, I was too busy most of the time to make any calculations.

"Captain Baldwin was extremely optimistic regarding the future of his airship.

"'I had about determined to leave St. Louis,' he said, 'but now I will not be content to leave before I have had several trials for that \$100,000 prize.

"'Knabenshue went up with instructions not to go far from the aeronautic concourse, and to bring the ship to "The mechanical part of the air-hour. He came within two minutes of ship worked perfectly. The motor did obeying my instructions to the letter. not miss an ignition, and the revolu- We will give daily exhibitions, of varytions of the propeller were steady and ing lengths, to convince the people of powerful. I am not sufficiently experi- the world that I am right,'

The Intelligence of the Bee

bee stands high. "Neither in its in- in a position simultaneously to sting stincts nor in general intelligence can each other to death. They at once reany fish be compared with an ant or leased their grasp as if in horror of a bee." says Romanes. The ant is, on situation that might end in leaving the whole, superior in intelligence to the hive queenless. the bee, but in some respects it is the stances, bees adapt means to ends, that they are guided by an intelligence analogous to that of human beings.

The bee community is autocratically ruled by a queen. Her subjects are vise the queen that something was as males, called "drones," and sterile fe- yet to be done, but they knew not how maies, called "workers." As soon as to show her where it had to be done." the queen has been fertilized the workers fall upon their indolent and de- means of protecting their hives against fenseless brothers, the drones, and intruders, as many people have good sting them to death or throw them cause to know. If a strange bee, not a out to perish in the cold. All the labor queen, attempts to enter and is deof the hive, all the fighting in war, is tected, it is speedily surrounded and done by the workers. The food of stung to death. When a hive is atbees consists of honey and "bee bread." The more nutritious bee bread has the bees close the entrance of their hive effect, when fed to a female larva, of with wax and propolis and keep it developing it into a queen. Only one closed until a season comes when moth queen is required for a hive, but the of this species are not numerous. Mice, far-sighted bees always raise several. If any accident happens to the reigning sovereign they then have other females they can raise to the throne.

The eggs are all laid by the queen. During the season of reproduction the queen requires so much food that a to wait upon her. She walks about the resin and left it there to starve. hive, accompanied by her retinue, and drops an egg in each cell. A highly remarkable thing is that she can control the sex of her eggs, and always drone eggs in drone cells. If so many larvae hatch out as to overcrowd the hive it is the duty of the old queen to lead forth a swarm. The young queens have to be kept in close confinement until the old queen departs, for if they were out the old queen would kill them. Should the hive still be overcrowded one of the young queens leads forth another swarm. That bees profit by experience is shown by the fact that before the old queen leads forth a swarm she always sends out scouts to reconnoiter the ground, while a young queen never does. When the swarming season is over, if there readiness with which they lend themnest, they are all liberated at once, and, while the workers stand around and apparently cheer them on, they fight desperately for possession of the

In point of mental development the relates that he once saw two queens

As soon as a bee arrives at its hive bee's interior. The bee has a well with news it emits two or three shrill developed faculty for communication. notes and taps a comrade with its long, It not only recognizes its fellows but flexible, slender antennae. The news distinguishes between men. It has a is transmitted in the same way through government and practices division of the hive; and if it is of a startling labor. It carries on wars. It is the character, will soon cause a great most skillful of architects. The apti- buzzing and commotion. F. Muller tude with which, in diverse circum- once saw several workers pushing the queen in an odd way with their heads makes it impossible for any one who and trying to tell her of some cells in has closely observed them to doubt which she had dropped no eggs. The queen understood them, but as she could find no empty cells she went off. "Thus the workers knew how to ad-

These little insects have effective tacked by the death's head moth the slugs, etc., which get into the hive are killed and covered with propolis to prevent their putrefaction, which would make the ingenious insects sick. Reaumur once saw a snail enter a hive. The bees were unable to sting it because of as shell. They therefore fasdozen or more workers are appointed tened it to the wall with wax and

They fully appreciate the importance of keeping pure the air in their hives, and have a curious and effective method of ventilating. When the temperputs worker eggs in worker cells and ature gets too high a large number of workers are told off who station themselves through all parts of the dwelling, and, by beating rapidly with their wings, produce a draft so strong, according to Huber, as to extinguish a lighted match. The practice of ventilating has been developed under domestication. There was no lack of fresh air in the cool and roomy caves and trunks of trees they inhabited in a state o. nature.

Nothing more strikingly evinces the mental capacity of bees than the fact that they learn to distinguish their friends from their enemies and the still are two or more queens in the selves to tuition by their keepers. The story is told of an English beekeeper. named Wildman who could at any moment in some secret way bring a whole swarm of bees about his head. throne until all but one is dead. Huber He also had his bees so trained that when commanded to do so they would form into companies, regiments, and battalions. At the word "March!" the liliputian army advanced in good order until told to halt. The little soldiers were so well taught that they never stung any of the many people



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