

BIZARRE and UNUSUAL

NUMBER 3

Published monthly by the Popular Flction Publishing Company, 2457 E. Washington Street, Indianapolis, Ind. Entered as second-class matter March 20, 1923, at the postoffice at Indianapolis, Ind., under the act of March 3, 1879. Single copies, 25 cents. Subscription, \$2.50 a year in the United States; \$3.00 a year in Canada. English office: G. M. Jeffries Agency, Hopefield House, Hanwell, London, W. 7. The publishers are not responsible for the loss of unsolicited manuscripts, although every care will be taken of such material while in their possession. The contents of this magazine are fully protected by copyright and must not be reproduced either wholly or in part without permission from the publishers.

NOTE—All manuscripts and communications should be addressed to the publishers' Chicago office at 450 East Ohio Street, Chicago, Ill. FARNSWORTH WRIGHT, Editor.

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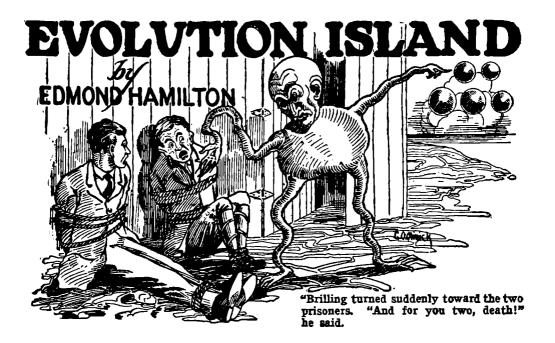
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IHE thing can be traced back, new, to its beginning. Back to a certain night in April, to the auditorium of the Boston Science Institute, where Dr. Walton delivered his epochal lecture.

A lecture that few enough heard, at the time. Nor is that wonderful. Outside the night was warm and luring, the first breath of spring for a winter-weary world. Inside—only a biologist lecturing. It is hardly strange that the audience that night was a small one.

Yet when Walton emerged onto the stage with the Institute's president, he did not seem to notice the rows of empty seats. He was a quick, nervous little man of middle age, with thick, black hair through which he constantly ran his right hand, and black eyes that flashed restlessly about. While the smiling rotund president introduced him to the audience, with a few bland and cheerful inanities, Walton was fidgeting nervously in his seat, and when the other had stepped back with a concluding eulogistical phrase, the little scientist

sprang at once to the front of the stage, being greeted by a ripple of mild applause. At once he started to speak, with staccato rapidity.

"The title of my lecture," he began, "Evolution and the Future, is somewhat ambiguous, so I will say now that it is not my intention to discuss old theories, but to present a new one. Yet for my purpose, it is necessary to bring to your attention first the general theory of evolution, as it is now known.

"As you know, before the promulgation of that theory, it was generally believed that all species, all races of living creatures, had always possessed the same form and nature, and always would. It was not thought possible that in time a creature or race of creatures could change entirely in nature and bodily form, develop, that is, into a higher state of existence.

"Then came the great work of Darwin and Wallace and Huxley. It became clear that the only constant thing in our world is change, that instead of remaining always in the

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same forms, life constantly changes and develops into new forms. from the first plasmic slime, the base of all life on earth, life has advanced through a thousand different forms, up a thousand branching paths. Seaslime—jelly-fish—invertebrates—reptiles—mammals—man—up, up, ways up, striving, climbing, every generation a tiny bit ahead of the previous generation, a tiny bit farther advanced along the road of evolution. We know not where that road leads, for our path of evolution, like the paths all life must follow, was laid down for us, as I believe, by a Power above earth. So, although we know not what forms we are changing into, or what forms all other living things change into, we do know that that change is going on, infinitely slowly, but steadily. How much higher the human race today than the savage Neandertal men of fifty thousand years ago! And fifty thousand years from now, men will be as much above us. It is the same with all life, with all forms of life. All go up, up, change and change.

"We can not swerve aside from the path of change we follow. But suppose we could speed up our progress, could travel faster up that path? Suppose we were able to accelerate the process of evolution so that a thousand years of evolutionary development could be crowded into a

single day?

"Such a suggestion sounds mad, almost. Evolution is the slowest process of nature, and how could it be accelerated? To discover that, we must discover the cause of evolution itself, must find out why we change, why all life changes.

"That question, the cause of evolution, is the great riddle of biology. Countless explanatory theories have been advanced, adaptation, segregation, mutations, Mendelism—I could recount a dozen such, but all such explanations have failed; and the cause

of the evolutionary change has remained a mystery. A mystery which I have finally solved. And the answer, the force that drives life up its myriad roads of change, the very cause of evolution itself, is—the Garner ray.

"I imagine that the name is unfamiliar to most of you. It is only within the last few years that the Garner ray has been isolated, by the physicist whose name it bears. Even yet, the nature of the ray has remained largely a mystery. We know, however, that the earth, the universe, is one vast welter of vibrations, visible and invisible. From this ruck of vibratory forces we can pick a few that are known to science. The Hertzian rays—that is, the radio wavesand chemical rays, heat rays, light rays, a vast welter, I repeat, of vibratory forces.

"And the Garner ray is one of these. It is thought to be a new kind of chemical ray, having its source in vast masses of radio-active substances in the earth's interior. It is also thought that the ray is altered, somehow, by the magnetic currents that race between the poles. Whatever its origin, it is known that in some places on the earth the ray seems exceptionally strong, while in other spots it is rather weak. This is taken to mean that the radio-active materials that are its source are unevenly distributed in the earth's interior.

"You will want to know what connection this ray has with the subject of evolution. It has such a connection, and I have been the first to find it. We know the profound effects that the other vibratory forces have on life. Light rays, for instance: how changed life would be without them! And this Garner ray has an equally important effect on life, for it is the constant action of this ray, affecting the nerve centers in a way I can not explain, that changes all of us, mentally and physically, that changes all life, that causes the evolution change itself. Since the first presence of life on earth, the action of this ray has driven it upward to its present levels, and still drives it upward, slowly, but unceasingly.

"And I have proof that this is so. Physicists have found that in the continent of Australia the ray is weakest on earth, due, no doubt, to the fact that the radio-active bases of it are scarce in the earth beneath the island continent. The ray is weakest there, has always been weakest there, and what is the result? Any zoologist will tell you that Australia abounds with strange animals found no place else on earth, that evolution there seems retarded, slower. It is so even with the human beings there. The native Australian, the bushman, is without doubt the lowest form of human being on earth, the least developed of all the races of men.

"I come now to the heart of my interest. I have shown you that this Garner ray, acting on all life on earth, has caused all the evolutionary changes of the past. I have shown you that where the ray is strongest the course of evolution is most rapid. and vice versa. Now suppose that we were able to produce this ray artificially, as we produce light and heat and radio waves artificially. pose we produced this Garner ray in the laboratory, then concentrated it, condensed it, focused it, and turned it on a human being. What would be the result?"

Walton paused and held up a lean finger to emphasize his words. "When that is done, when an artificial Garner ray is produced and turned onto a human body, the possessor of that body will be thrown thousands of years ahead in mental and physical development, will be thrown ages ahead of the rest of us in point of evolutionary standing.

"And if the same thing were done to all of us, it would have the same effect on all, would take us ahead thousands, millions of years in development, depending on the strength of the artificial ray. Think of the countless ages it took life to crawl up to the present human form. And then, after those eons of painful progress, this mighty jump, this great short-cut. Seven-league boots for humanity, on the road of evolution!

"And this is no vain dream. It will be accomplished. I do not say that I can accomplish it myself, but it will be done, if not in our time, in some time to come. It will be done, and then—the great transformation. I seem to see humanity leaping up to full stature at once, springing from achievement to achievement, strong and conquering. I seem to see men become like gods

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Even now, one remembers the uproar created by Walton's astounding statements. An uproar that spread over the scientific world, and into the newspapers, making a worldfigure of the obscure Boston scientist. And, too, making him one of the most denounced men in the world.

For his theories found no shadow of acceptance. Nine scientists out of ten, when asked for opinions, had it that Walton was either deluding himself, or was an outright charlatan. Evolution, they pointed out, was, after all, only a theory. A great theory, a basically important theory, but still a theory. It belonged more to philosophy than to science. when Walton treated evolution as a laboratory matter, and calmly proposed to speed up the process, it seemed plain to them that he was either slightly crazy or a skilful publicity-seeker.

Thus Walton found himself universally condemned, and strangely enough, seemed to mind it not at all. Luckily for him, he was not depend-

ent on an academic position for his existence, since he had an ample inherited income. So, quite unaffected by the storm he had raised, he went calmly on with his work, spending most of his time in the little laboratory building behind his home.

This home of his was an inherited, old-fashioned mansion, a big, rambling house that had formerly stood at the center of an estate, but was now surrounded by the neat bungalows of a modern suburb. Behind it stood the little brick building that held his laboratory, and although Walton had made no statements after his lecture, he was generally believed to be at work testing his theories in that place. None could say for certain, though, for Walton had but few friends and admitted only one of these into the laboratory.

The single favored one was Stuart Owen, a young physician who had just returned after a month's absence from the city, and who was eager to learn more of the turmoil Walton had stirred up. So, directly after his return, he had hurried out to his friend's home to hear more about the matter.

As the two friends entered the main room of the laboratory building, a man working at a table there rose and came to meet them. This was Brilling, Walton's assistant, a silent, hawk-nosed and thin-lipped young man who mumbled a few words of greeting and then hurried back to his work. Owen then seized the opportunity to satisfy the question in his mind.

"This evolution business, Walton," he began; "you were hardly serious about that, were you? I read the reports of your lecture in the papers. You aren't really working on a thing like that, are you?"

"No, I was quite in earnest," Wal-"Brilling and I ton assured him. have been working on the thing for nearly two years."

Owen's face showed his surprize. "But man," he protested, "it sounds silly, almost. To speed up evolution -you'll never succeed.''

Walton smiled slightly, and exchanged a significant glance with his assistant. Then: "But I have succeeded," he said, quietly.

As Owen looked his amazement, he went on, "I suppose I can trust you to keep the matter a secret for the present. Owen?" And at the other's swift nod, he continued, "Well, look over here," leading the way to a long work-bench.

A litter of electrical apparatus covered the bench's surface, and in a clear space to one side stood a small cylindrical case of black insulating material, which was studded on its top with a number of small nickel switches and connected by a dozen wires to the electrical instruments on the bench. Laying a hand on the case, Walton remarked, "The fruit of a year's work. This little instrument, Owen, is capable of producing an artificial Garner ray that is many times stronger than the natural ray. It is powerful enough to affect anything inside this room, to throw any living thing in the room ages ahead in evolutionary development. ray itself is a chemical ray, produced by a combination of radio-active elements inside the case, but it is changed and altered by a series of small but powerful electro-magnets through which it passes."

As Owen regarded the black evlinder dubiously, Walton said, "I see that I'll have to convince you another way," and made a gesture to Brilling, who left the room, returning in a few minutes with a live chicken.

Placing the chicken on the floor beneath the bench, Walton took from a drawer three narrow pads of gray cloth, one of which he handed to Owen, and another to Brilling. Owen examined the thing, perplexed, by its unlooked-for weight, Walton told him, "A shield for you, Owen, to protect you from the ray. When this is strapped around your body, covering your spine, the ray will have no effect on you. It can't penetrate through the lining of metal foil in these pads, and thus the vital spinal nerve-centers are protected."

When Owen had awkwardly adjusted the shield to Walton's satisfaction, his friend exclaimed, "Now watch," and reaching over to the black case, snapped on a tiny switch, then stepped back and pointed toward the chicken on the floor.

Owen looked, then gasped with astonishment. For the chicken was changing—changing. As he watched, the wings became smaller and smaller, shriveled away and vanished, the feathers became sparse and disappeared also, the fowl became ever more small, dwindled, contracted until it was hardly larger than a robin, then fell dead, a shrunken little bundle of skin and bone. Owen looked up, to meet Walton's smiling eyes.

"You see?" asked Walton, snapping off the switch. "You have just seen the entire future of a species, have seen, in a few minutes, the changes that species will go through

in the next few ages."

He turned to Brilling, who again left the room, returning with another chicken.

"I'm going to reverse the process now," Walton said, "and throw this one back in development. In other words, you saw the future of the species, now I'll show you the past."

"But how-?" Owen began, then his words were broken into by Wal-

ton's swift explanation.

"Easy enough. Once I had found out how to produce the Garner ray, the ray that accelerates evolution, I looked for a ray that would do the exact opposite, that would reverse evolution. And I found that all that was necessary to produce a reversing ray was to reverse the current in the electro-magnets that alter the ray. So this reversing ray is the exact opposite of the Garner ray, the accelerating ray, and has an exactly opposite effect. Therefore, unless you want to be thrown back a million years in development, see that your spineshield is on all right." And he laughed as Owen nervously adjusted the pad.

Walton placed the second fowl in the same position as the first, but took time first to secure it to the floor by two large steel shackles which he attached to its legs, and which were chained to the floor. At Owen's questioning glance he smiled. "A necessary precaution," he said; then, reaching toward the ray-producing case, snapped on another switch, stepping instantly aside when he had done so.

As Owen watched the creature on the floor, fascinated, it changed as swiftly as the first, but grew in size instead of dwindling, seemed to pass with lightning speed through a hundred different forms, changing into a large-sized, fierce-looking bird with coarse, heavy plumage and a long feathered tail, with jaws instead of a beak, jaws that were lined with sharp teeth.

"Archeopteryx," said Walton, and Owen started. An archeopteryx, the first known bird, creature of the Reptilian Age! Even as he stared at the thing it was changing again, passing into a true reptile form, a leatheryskinned thing that strained at the shackles holding it. Then there was a swift flashing through a myriad half-glimpsed reptilian forms, passing down through a chain of slimy suddenly sea-creatures: andchange had stopped, and on the floor lay a little heap of slimy, viscous substance.

"Protoplasmic sea-slime," said Walton; "the first and lowest base of life."

Owen found that his hands were trembling. As Walton snapped off the switch on the case, he called to him, "Good God, Walton, can you do that with any creature?" And he pointed a tremulous finger at the slimy mass on the floor.

"I can," Walton told him, "and as soon as I have made experiments on a big scale with the accelerating ray, I'll try it on a human being—a willing subject, of course. I will try to throw him ahead enough to give him advanced mental and physical powers, without taking him too far."

"On a big scale," Owen repeated, "how can you do that? If you spread that accelerating ray over a big territory, who knows what people might be caught by its power, and changed? Who knows what would happen?"

Walton waved away the objection. "I've thought of that, Owen. consequently, we're going to work out the thing where it will be absolutely safe to do so, that is, on an island. A little island town in the West Indies, a few hundred miles south of Cuba, which I bought at a ridiculously low price. It's entirely uninhabited, now. So that's my plan. To set up a larger ray-projector that will cover the whole island with its power, then get a lot of different animals and turn them loose there. You see the idea? Every living thing on the island will be under the influence of the accelerating ray, and thus everything on the island will be thrown ahead in evolutionary devel-We can see hundreds of thousands of years of development. condensed into a few weeks or months. Of course Brilling and I will wear the shields, to protect ourselves, but everything else will change, and we can keep records of every change in each species, photographs and notes, and such. It's all planned out, Owen. Brilling and I sent our equipment down to a Cuban

port some time ago, and we're leaving ourselves next week, for the island."

"I don't like it," Owen told him. "There's something ghastly about the whole idea. You know that I'm not a superstitious man, but this plan of yours—why, you're twisting the very basic laws of nature, Walton, and no one ever tried that yet but came to wreck."

Walton's face was dreaming, abstracted. "No, Owen, every achievement of science has been heralded as a tampering with nature. And this will be the greatest thing ever accomplished for humanity, if we can go through with it. If our experiments down there are successful we will try it on the human body. Think of it, Owen: thousands, millions of years of development, accomplished in a flash. If we can do it—"

Owen did not answer, and a silence fell over the three men. As he left the laboratory, he looked back and saw on the floor the shining heap of slime there. A vague, doubting fear ran through him, an oppressing foreboding of evil.

And that weighting fear clung again to him, a week later, as he watched a rusty tramp steamer go out from a New York dock, bearing with it Walton and Brilling, who had contracted to be put ashore at the Cuban port where their equipment awaited them. Owen watched the boat warp through the foggy mists of early morning, then walked slowly back from the dock's edge.

It was only then that it occurred to him that he had no way of communicating with Walton, short of going to the island itself. The outcome of the whole matter would remain in doubt for him until Walton came back. Until Walton came back! But would he ever come back?

Would he?

3

TALTON came back. He came back a year later, on a stormy night in May, when the wind was lashing the deserted streets with gusts of cold rain. Owen, lounging in his rooms over a dull novel, heard a sudden knocking at his door, and when he flung the door open, a wet and shabby figure staggered in, that he knew at once was his friend. During all that year he had had no word from Walton, and now, as he pulled out a chair for the dripping, swaying figure before him, he could restrain his questions no longer.

Slumped in the chair, staring fixedly at the opposite wall, Walton did not seem to hear his eager queries. Owen noticed then that the man seemed years older, his face drawn and haggard, his eyes dazed. But at a word in Owen's speech, sudden life leapt into his expression.

"The island," he repeated; "yes, I come from there, Owen."

"And Brilling?" asked Owen.

"He is—alive," was the slow answer.

Shocked by the utter change in his friend, Owen was silent. For minutes Walton stared vacantly ahead, then seemed to pull himself together, to become conscious of his surroundings, for the first time. Turning to Owen, he said slowly, as though repeating a lesson, "I must go back, Owen."

"You mean back to the island?" asked the other, and Walton nodded.

"I must go back," he repeated, "and soon. I came to you—I can tell you—" Again he fell silent, but Owen did not disturb him, waiting until he spoke again.

With an effort, Walton resumed the thread of his speech. "The island—we went there, Brilling and I. That was only a year ago, Owen. Only a year ago!" He seemed to muse on the thought.

"But Brilling and I went there. You remember. We went to Lluegos, a Cuban port, first, and arranged to have our equipment taken down to the island for us. We took native labor down, and got the place ready, building a cottage for living quarters, and a small laboratory, and setting up our equipment there, arranging our supplies. And we brought animals down to the island, and turned them loose there.

"We got most of the animals from the menagerie of a little traveling circus that had stranded in Lluegos. The hotel proprietor there was holding the menagerie of the show for an unpaid bill, and was glad enough to sell them for next to nothing. So we had them taken down to the island and turned loose there. There was a mangy old lion, a couple of splendid young leopards, wolves, and so on. Of course we had a stockade around the cottage and laboratory, to keep them from getting too close.

"When all that had been done. Brilling and I were the only men on the island, having got rid of the laborers we had hired, as soon as their work was done. We had a small boat, a yawl, to come and go in, and by that time we had set up all our equipment. The main feature was a big ray-projector, like the one you saw, but much larger and more powerful, capable of throwing its ray over the whole extent of the island. Of course, Brilling and I wore the shields night and day, for our own protection.

"All was ready, so we began, turning on the accelerating ray, though not using near the full power at our command. We wanted the change to be slow enough to record, you see. Two days went by and we could see no change, but on the third day we noticed a changing in the lion and the leopards. The three big cats were getting smaller, were dwindling in size every hour, it seemed. In five

days they had become as small as house-cats, and were as tame. The seventh day, we found them dead.

"You see what it meant? We had seen, in seven days, the whole future development of those two feline species, had seen the fate of all their kind, in the future, and it was just what we had expected. Ever since the time of the saber-tooth tiger, the larger felines on earth have tended to become ever smaller and less ferocious. And thus we had seen the ultimate end of the species, a dwindling into mere cats.

"After that first transformation, the changes came thick and fast. The wolves changed next, changed in nature, becoming as tame and gentle as dogs. They became dogs, in fact. Then they began to grow, grew to a great size, became as large as horses, indeed. But for all their giant size, they stayed as tame as ever. Finally they dwindled too, and died away. It was the end of that species. And the changes still went on.

"We were living in a biologist's paradise, Owen, were seeing the whole future course of evolution, seeing the future development of a myriad different species. With rifles for our protection we ranged the island constantly, photographing and recording the changes we saw, constantly observing the beasts as they developed, watching, watching. We spared time only to eat and sleep.

"We kept the ray-projector always going, always sending out the accelerating ray, and always the things on the island changed. Not only the animals we had brought, but the things that had always lived on the island. Snakes, for instance. There were many of these, and under the accelerating ray they developed into horrible forms. Some grew to python size, and even larger, while some developed short legs and webbed feet, on which they walked and ran. And some took to the water, as their na-

ture changed. But in time all died away, disappeared.

"After the snakes had died away, the birds on the island began to change. Most of these died soon, but one breed evolved that lasted for a few weeks, a great condorlike thing with brilliant plumage, a giant bird of prey that was the fiercest thing on the island. It attacked us whenever we ventured out, and we were glad when it died too.

"And still the changes went on. Still the ray forced the life on the island up and up in development. After the birds, there came a change in the insect life of the place, and a wave of strange monsters swept over the island. Gigantic spiderlike beasts, monstrous flying creatures that were like great wasps, in some ways, but were the size of airplanes, and proportionately fierce. All the insect life on the island seemed to be developing into new and monstrous forms, that made the place a hell to live in. Some of the things we only glimpsed. There was a worm-thing, for instance, vast and white and sluggish, a hundred feet in length, that flopped about in a swamp and uttered hoarse, bellowing cries. We heard it at night, sometimes. . . And there were others, even worse. But in time. all the insect monsters died away, as the others had done before them.

"And, to replace them, came giant reptilian creatures from the sea, strange sea-monsters of some future age. You see, the ray acted on the waters around the island, too, and had the same accelerating effect on all the life in them. So it was that we glimpsed strange things in the sea around us, vast scaled and fanged creatures that fought and tore with inconceivable ferocity. They were beasts of some future age, but they seemed to us like the hideous dinosaurs of the past, so large and fierce were they. Some of them were amphibian, and they made life precarious for us by venturing onto the island and lumbering about, crashing through the forests and meeting and battling with each other.

"The island was a strange place, then. And even after the seamonsters had passed, Owen, it was strange, a place of silence and death, for the ray had wiped out all animal life on the island, had thrown all life ahead and ahead in development until all had died away. There could be no more changes, we thought. And we were wrong, Owen. We were wrong.

"For there came another change, a last, great change, a terrible change that neither Brilling nor I had foreseen. And that was a change in the plant-life on the island, in the vegetation. All animal life on the place had changed and passed, and now the

plant-life was changing.

"Yet we might have expected such a change. Evolution rules all plant-life, just as it does all animal life. Just as all present species of animals have come up from the beasts of the Mesozoic Age, so have all present species of plants come up from the giant ferns and conifers of that age. All plant-life on earth is slowly developing, the same as animal life. And under the accelerating ray, that slow evolution of the plant-life on the island began to speed up, after all animal life there had passed.

"The plants changed, Owen. Trees, bushes, weeds, they shot up into strange new forms, dwindled and passed and rose to still other forms, and finally, after weeks of such changes, one type of plant began to become dominant on the island, to crowd out all the others. This was a plant much like a large cactus in appearance, but a plant that seemed almost animal in its activity and intelligence. It could wave its great feelers about, and exhibited many signs of its growing intelligence. And

gradually its roots began to wither away, gradually it became able to move about at will, no longer tied to one spot by its roots.

"I understood what we were seeing. I understood then that sometime in the far future, when all animal life has died away from earth, the reign of the plants will begin, that a race of plants will evolve into the uppermost form of life, just as a race of animals, man, is the uppermost form now. I saw that long after man had gone down to extinction, the world would be ruled by intelligent, active plants.

"And I became afraid, Owen. Who could say what degree of power these plant-things on the island might not attain, if left to grow unhindered? If we allowed them to go forward in development, under the accelerating ray, we might loose an evil, spawning horror upon the world, a thing that should not be, in our time.

"And, too, I felt that my reason was going, after all the things I had seen. I felt that I must get back to the world of men, that I must make some contact with my fellow-humans if I wanted to preserve a balanced mind. So I proposed to Brilling that we turn on the reversing ray, throwing the plant-things back to harmless vegetation, then leave the island and spend a month or so in one of the West Indian cities."

"Brilling refused. He felt none of my fears, was entirely absorbed in the things we were doing. He urged me to go, though, and finally I did so, taking the yawl and heading for Jamaica. Brilling said that he wanted to study the development of the plant-things a few days more, but promised to turn on the reversing ray within the next few days, and I was content with his promise. So I left, leaving Brilling on the island alone—except for the plant-things.

"I had my month in Kingston, Owen, and then my thoughts turned back to the island. It had been our plan to get a new lot of animals and turn them loose on the island like the first bunch, then turn on the reversing ray and watch their changes as they went back down through the evolutionary development of the past. I was eager to get started on this, so at the end of the month I left Kingston and went to the island. I went back, and I found—

"How can I describe what I found? I found all my former fears realized, and found new horror, too. I saw for the first time why Brilling had wanted to stay on the island.

"He had turned the accelerating ray on himself, Owen, had removed the shield from his body and had allowed the ray to throw him forward ages in development. And I saw him, saw the shape that was his, the shape and form of all humanity, ages from now.

"His head had grown very much larger, Owen, had grown to almost twice its former size, and had become quite hairless, though the features seemed much the same. But the body! Owen, there was no body, as we know Instead of a human body, the head was attached directly to a mass of flesh, round and squat, which was about half the size of a human trunk. And from this shapeless mass projected four supple, boneless arms of muscles, arms that were really long, powerful tentacles. He could walk on these tentacles, or on part of them, or he could use all to grasp and hold. Four long twisting tentacles, that had once been arms and legs. For I saw in Brilling the changes that future ages will work in the human body. You know, Owen, that the human body tends constantly to become simpler, less complex in organization. The toes grow smaller, less prehensile and shrink away, the hair disappears, and certain organs of the body, like the appendix, become entirely useless, atrophied. All our complex digestive and respiratory apparatus tends always to become simpler. And I saw, in Brilling, the cumulative effects of ages of such changes.

"And he had changed mentally, too. He knew me, his mind retained all its former memories and knowledge, but it had acquired also new thoughts, new ambitions, new de-Struck with horror at the sires. change in him, I proposed to turn the reversing ray on him and throw him back to a normal human body, but when I made that suggestion, he was A body like mine, he declared, would be loathsome to him. It was just as if I had suggested to a normal human being that he allow himself to be turned into a lowbrowed caveman. The thought revolted him. And then I saw that this creature was no longer the Brilling I had known, but was a man of a million years from now, or more, a creature of a far-off, future time. And I realized that even more fully when I heard his plans, when I discovered what he had done in my absence.

"I found that instead of turning on the reversing ray after my departure, he had allowed the accelerating ray to stay on, and thus instead of bringing the plant-things back to harmless vegetation, he had allowed them to develop still further, to develop into active, intelligent creatures.

"He told me that, exultant, and when I could not believe, took me to the other end of the island. And there I saw the proof of his words, saw for the first time—the plant-men.

"I call them plant-men, for they were roughly human in shape, more human-shaped, in fact, than Brilling himself. They walked erect on two limbs, and had two arms or feelers, and between their—shoulders—they carried a bulbous mass in which were set their eyes, two circles of blank, dead white, with which they could

see. But there all human resemblance ceased, Owen. There were no other features in the blank faces. bodies. the mass things, seemed to be composed of dark-green fiber, coarse and stringy-Brilling looking. And, as plants. me. thev remained true for all their intelligence and activity, since they took in their food as inorganic materials, and utilized it by means of the chlorophyl in their bodies, a thing that only a true plant can do. Plants, Owen, but moving, seeing, reasoning. The things knew Brilling, they were friendly to him, crowded around him, obeyed his or-And he had allowed them to develop in hordes, and now boasted to me that they would be his servants, his agents, his armies.

"His armies! For that was the plan he revealed to me, that was his great scheme. He meant to develop great numbers of the things, to raise up a vast army of them on the island, then send them rushing out onto the world, having them make and take with them many powerful ray-projectors, which would be set up in the world outside, and which would sweep the earth with the accelerating You see the result? would spread the deadly accelerating ray over all the earth, and after all animal life had changed and passed, as it had done on the island, then the plant-life would change, would evolve into new vast hordes of plant-men. They would go on, on, raising new hordes from the very ground itself, and finally, so Brilling said, when his hordes had swept over all the earth, they would reach out to other worlds, sweep from planet to planet in irresistible force.

"It was the plan of a crazed brain, Owen, a mad scheme that struck me through with horror. For I saw that Brilling could do it, could loose the hordes of the plant-men on the world, and sweep the earth with the accelerating ray. And I never doubted but that after he had done that, the plant-men would brush him from their path, after they had attained supremacy. But by then the evil would have been done. And Brilling was asking me to join him in his plan, was asking me to submit myself to the accelerating ray and become a thing like himself, then join him in this terrible project.

"I knew better than to refuse him outright. I pretended to accept the suggestion, and we agreed to turn the accelerating ray on myself, the next day. And that night I fled from the island.

"I had planned to get into the laboratory and to the ray-projector, to turn on the reversing ray and reduce the hordes of plant-men to mere vegetation again. But when I crept down to the laboratory building late that night, I found it guarded by a score of the plant-men, and knew that Brilling was taking no chances. And I knew it would be impossible for me to break through that guard. I had a pistol, but who could kill a plant with a gun? And these plant-men were armed, armed with a strange weapon that threw intense, devouring flame, a daggerlike thing that spurted out puffs of flame and oxygen simultaneously, so that whatever received that flaming discharge took fire at once. Brilling had devised the weapon for them, and it was a terrible one, I knew.

"What could I do? If I stayed on the island I could do nothing, for the next day Brilling would turn on me the accelerating ray, making of me a monster like himself. And if I refused, he would kill me, I knew. So I made my way down to the beach, to the yawl there, and left the island, heading north for Cuba. I feared pursuit, for I knew the powers Brilling had at his command, but no pursuit came, and I got safety to Llu-

egos. And there I hesitated. What could I do? I could not spread the alarm and take a force down to the island to destroy the menace there. I knew that against Brilling's new weapons such a force could do nothing. And who would have believed my story, had I told it? But if I could go back to the island, by stealth, if only with a single friend to help me, much might be done. So I caught a New York steamer and came north, to you, the one person I thought I could count on.

"So I came. And now I must return. I came to ask you to go back with me. Even now we may be too late. But you know all now, Owen. Will you go back, with me?"

Owen's face expressed his doubt. "You know that I don't doubt your story, Walton, but it seems so utterly strange. It seems impossible that there could really be such a thing, such a menace—""

"There Walton spoke, solemnly. is such a menace, Owen. And it is a menace such as was never known before, a destroying blight that will blot out our world if it is not checked. Do you think I don't feel the strangeness of the thing? Coming north in the yawl, I felt myself going mad thinking of it. Down there on the island, Brilling, or the creature that once was Brilling, is working, planning, preparing, urging his hordes of plant-men on and on, coming nearer and nearer to the climax of his plans.

"And soon, out from the island will sweep the hordes of the plantmen, killing and spreading terror, setting up the ray-projectors and sweeping the world with the deadly accelerating ray. And then—horror and death and confusion undreamed of, over all earth. Familiar animals changing into hideous monsters, invasions of strange beasts, scourges of gigantic insect-terrors, vast sea-things pulling down ships at sea, and, most

horrible of all, men and women changing into shapes of terror like Brilling, men and women changing into hideous creatures like him. A world of monstrous changes, a world where all life changes and passes, and then, at the last, a world where all animal life has died away and vanished forever. And then, the last great change, the plant-life of the world springing out into new and dreadful shapes, rising up into hordes of the plant-men. And at the end, reigning supreme from pole to pole—the plant-men!"

Walton ceased speaking, his face pale, his eyes burning. Owen rose from his chair, sickened by the picture the other had brought to his mind. Then, turning swiftly, he asked, "When do we leave, Walton?"

A faint smile passed over Walton's face, the first Owen had seen there since his return. "I knew I could count on you, Owen," he said. "There's a boat for Havana, Tuesday morning. We can get that."

PORTY-EIGHT hours later the two men stood at the rail of a fruit line steamer, watching the New York skyline fade into the distance behind them as the boat went down the bay. Neither spoke then.

Havana, then Lluegos, a colorful little port on the southern coast of Cuba. They wasted no time there, transferring their baggage at once to Walton's yawl, which had been held there for him. A few hours after reaching the port they were swinging out of the harbor in the yawl, a ketch-rigged craft with an auxiliary motor. Ahead, nearly three hundred miles of the Caribbean Sea lay between them and the island that was their destination.

Out of the harbor they went, past the spongers and fishing boats, past a gleaming white pleasure-yacht, out to the blue open sea. Steadily the little boat forged south, under a dancing breeze. And braced against the mast, Owen looked out ahead, across the waters, wondering in his what soul-sickening horror they were rushing toward, what destroying terror lay in wait for them beyond the horizon. Night rushed swiftly down upon them, bringing with it the blazing tropic stars, and later the shining splendor of the full Still Owen peered ahead, moon. across the silvered moonlit waters. while at the wheel behind him, his face set and grim, Walton held south, south.

Once, that night, shortly before midnight, they passed a great liner that was heading north to Havana. It was a giant cruise-ship, its upper works ablaze with dazzling lights, its top deck crowded with swirling passengers, dancing to the music of the ship's orchestra. Across the waters the lilting melody came clearly to the two men, but they held to their course, unheeding.

A few at the rail of the big liner saw the speeding sail-boat and idly speculated on its identity and errand. But none there dreamed the truth, none guessed the strangeness and greatness of the mission on which the yawl fled south, racing down toward the little island on which was centered the fate of all the world.

4

It was night when the yawl reached the island, a deep, thick night as yet unrelieved by the expected moon. For hours Owen and Walton had tensely scanned the sea ahead, and now, as they made out a distant, dark mass that stood out dimly against the starlit sky, the tension of their nerves seemed to become even greater. In silence Owen stared at the place, while Walton expertly guided the little boat through a maze of rocks and shoals.

Silently they swept in toward the

island, toward a long, sandy beach that gleamed in the faint starlight. A little channel indented the beach's outline, and into this Walton steered the yawl, its keel grating and grinding over the sand, then stopping entirely. Speaking in whispers, the two men secured the boat to a near-by boulder with cables, then discussed their plan of action.

At Walton's direction, Owen carefully adjusted the pad that protected his spinal nerve-centers from the deadly ray, Walton doing likewise. They then strove to come to a de-

cision on their next step.

"The ray-projector is our best chance," Walton told the other. we can get to it, and turn on the reversing ray full power, it will wipe out all life on the island except our-The island is long and narrow, with a high ridge at its center, running its full length, and the cottage and laboratory are on the southern end. I think that the main camp of the plant-men is on the eastern beaches, on the other side of the island from us. So we had best head toward the southern end at once, and try to make our way into the laboratory there."

Owen assented, and the two began to move stealthily along the beach. After a short distance, Walton suddenly turned inland and started up the long slope toward the central ridge that was the back-bone of the island, Owen following in his steps. And as he followed. Owen noted the bareness of those slopes, since they were only rock and sand. Not even the commonest forms of weeds or vegetation grew on them. Had every scrap of plant-life on the island been transformed by the accelerating ray, been changed into hordes of plantmen? He shuddered at the thought.

Half-way up to the ridge, Walton stopped abruptly and held up a warning hand. From somewhere in the darkness ahead came a thin, wailing sound, a high-pitched whispering that came and went and came again to their ears. As they listened it seemed to grow louder, nearer, and a few pebbles rattled down the slope from above. And now they could plainly hear the sound of feet, many feet, shuffling down the bare slope toward them.

Instantly the two had sprung to the concealing shadows of a near-by cluster of giant rocks, and lying crouched behind these, peered out at what might be approaching. heard a louder sound of shuffling. tramping feet, then down the slope and into view came a mass of dark figures that moved steadily past their place of concealment, passing down the slope toward the beach. Not unlike a crowd of men, Owen thought, watching them pass in the dim mistiness of the starlight. As they filed by, their wailing whispers came clearly to his ears, the sibilant murmur of their speech.

Before half of the marching figures had gone by, a ghostly glow of white light had poured up from behind the ridge above, and now there floated up into the sky, like a shining bubble, the full moon, laving the scene before them with its molten silver light. As that revealing light poured down on the passing shapes, Owen grasped his companion's arm, with a sudden intake of breath.

"The plant-men!" he whispered, and Walton nodded, silently.

Together, and with a common horror, they watched the passing things. There seemed nothing human about the creatures under the bright moonlight. Mottled-green travesties on the human shape they seemed, masses of stringy fiber carelessly cast into a semi-human form. It was the faces of them that held Owen's gaze, blank expanses of smooth green in which the two eyes, circles of dead white, stood out dreadfully, staring and unwinking.

He had time only to note that the passing plant-men seemed to be carrying with them a number of large metal tools, or instruments, and then they had all gone by, and the two crouching men heard them shuffling down onto the beach and along the shore. For minutes they waited, listening, but no further sound came to them, so they rose and continued up the slope, doubly cautious after their unexpected encounter with the plant-men.

The moonlight made their progress easier now, and in a few minutes they stood on the very top of the ridge, from which they could survey nearly all the island's surface.

Instantly the attention of the two was riveted on the distant beaches at the island's eastern side, for there were lights there, masses of small, gleaming lights that came and went continually, moving about in swirls and eddies, like fireflies, and some of these were gathered into clusters here and there.

Along the distant beaches these lights were present for a distance of nearly two miles, and perhaps farther, since a rolling fold of the slope beneath them partly cut off their view in that direction. As they watched, a distant clangor of metal came to their ears from the direction of the lights, faint and far, a mighty hammering of metal on metal that came to their ears on the wings of a little breeze, then died away. They listened, and it came again, and again.

"The main camp of the plantmen," Walton whispered. "There must be thousands of them down there, judging from those lights."

"What are they doing, Walton?" asked Owen. "You heard that hammering? There's something big going on down there."

Walton nodded, watching the distant lights. "God knows what they're up to, down there. Whatever

it is, Brilling is directing it, you may be sure. We can do nothing there, though." And he turned away from the east, and glanced around, then tugged at Owen's sleeve, pointing silently toward the northern end of the island.

A light was gleaming in that direction also, a steady, unwinking beam that was nothing like the flitting illuminations in the east. "That light is from the cottage," Walton whispered. "That's our objective." And he started along the ridge toward the north.

Again Owen followed, and the two moved silently along the ridge toward the distant light, which, as they drew nearer, showed itself to be a square, lighted window. The ridge sloped down as they drew near the island's northern end, and in a few minutes they had come to within a half-mile of the stockade which enclosed the cottage and laboratory, and which lay down the slope a little below their present position.

Down they crept, until they could plainly see the cottage in the moonlight, a small, one-story affair, beside which was a long, low building that Owen knew to be the laboratory.

Walton jerked a finger toward the latter building. "The ray-projector is in there," he whispered, "and if you can get inside, remember that the reversing ray is turned on by the extreme left-hand switch. If we can just get into the laboratory! The gate of the stockade is open, and I don't see anyone around. Brilling is not using the ray-projector at all, now, for he turned off the accelerating ray after the plant-men were fully developed. But if we can send out the reversing ray—"

Heart beating rapidly, Owen followed his friend, stealing down toward the open gate of the stockade. There was no sound or movement in the lighted cottage, nor in the

clearing around the two buildings. His hopes ran high as they crept on.

Down, down, keeping as much as possible within the sheltering shadows, they went on, and now were passing through the open gate of the stockade, were moving soundlessly across the clearing toward the little laboratory building, whose open door beckoned to them like a magnet.

A hundred feet from that open door, Owen heard a sudden sound of running feet, and wheeling quickly, saw a little knot of dark shapes rushing through the stockade gate, toward Walton and himself. The plantmen!

"Walton!" he cried, and saw his friend turn swiftly. From one of the racing plant-men a burst of green fire suddenly sprang out toward the two men, barely grazing them. Before the deadly flame could be again thrown at them, a high, shrill call sounded from the cottage, a wailing scream flung toward the running plant-men like a command. Owen had a momentary glimpse of a strange, squat figure outlined against the door of the lighted cottage, then the mass of plant-men was pouring down on Walton and himself.

His automatic flashed into his hand and roared, once, twice, but the nearing plant-men rushed on, unhurt by the bullets that ripped through them. He heard a wail of utter despair from Walton, an exultant, shrill cry from the cottage, and then the plantmen had rushed down on him in a solid wave, knocking him from his Something hard descended on Owen's head with stunning force, and as he sank to the ground, a great curtain of orange flame seemed to be unrolling itself in his brain. Then felt himself falling, falling, tumbling down through bottomless depths of blackness and silence into complete unconsciousness.

5

OWEN awoke to find his hands and feet tightly bound. He was sprawling in the clearing, against the wall of the cottage. Beside him lay Walton, similarly secured, and he saw that no great time had passed since their capture, for it was still dark, although in the east a faint gray light was beginning to pale the brilliance of the stars.

From where he lay he could see most of the clearing, and he noted the extraordinary activity there. The place swarmed with the plant-men, hurrying to and fro on enigmatic errands. A high, thin voice was directing their movements from the door of the cottage, and Owen squirmed into a position from which he could see the voice's owner. He looked, then shuddered with deep loathing at the thing he saw.

It was Brilling that stood there, Brilling as Walton had described him, as the accelerating ray had left him. The enormous bald head, the dull white skin, the shapeless mass of flesh that was the body, with four twisting tentacles, on two of which it supported itself. As Owen stared at the monstrosity, it caught his gaze and came down toward the two. Standing in front of them, Brilling regarded the bound pair with mocking interest.

"So you came back, Walton?" he shrilled. "And you too, Owen. For what, I wonder!" And Brilling laughed, terribly.

Neither Owen nor Walton replied, and this seemed to enrage the monster before them.

"You came back in time to see my triumph," he raved, "the beginning of my reign." He scanned the eastern sky, then flung a muscled tentacle up in sudden exultation. "Look, you fools," he cried, pointing toward the east.

Both looked in that direction, to-

ward the misty light of dawn, when something there caught their attention, something round and black that was drifting up into the sky from the distant eastern beaches. Up and up it floated, and now a far humming sound came to their ears, a purring whine that grew to a loud droning. As they watched, the first rays of sunlight struck the thing in the air and they saw it clearly. It was a vast globe of metal, a giant sphere that glinted dully in the sunlight. A huge globe all of a hundred feet in diameter, floating up into the sky like a weightless bubble.

The droning intensified, increased. Another of the round black shapes was floating up in the east, following the first. And another, and still another, then a cluster of them, until all of fifty gigantic globes hovered a mile above the island's eastern side, circling, droning, massing.

Brilling turned to the two bound men, his face alight with evil triumph. "My armies!" he boasted. "My plant-men!" His eyes were glowing. "They go to spread death in your world, to sweep earth with the accelerating ray!" And even as he spoke, the two saw the globes moving slowly across the island, passing out in compact formation, high above.

His face upturned in the morning sunlight, Brilling watched them go. Owen turned toward his friend, then his heart leaped with sudden hope. For Walton was stealthily rubbing the ropes that bound his hands against a sharp edge of stone that projected from the ground beside him.

Owen saw that none of the plantmen remained in the clearing, that all had hurried away to the eastern beaches to watch the launching of the flying spheres. And he saw that Brilling was still intent on the massed globes above, which were now passing out from above the island, out over the sea. From a corner of his eye, without turning, he saw that Walton was fumbling at his footbonds, having freed his hands.

Brilling suddenly turned his attention toward the two prisoners. "And for you two," he resumed, "death!"

He turned and uttered a shrill call, a call that was echoed in the distance by a group of plant-men, returning toward the clearing. And even as he voiced that call, Walton had jumped to his feet and sprung, knocking Brilling to the ground, where the two rolled over and over, clutching and holding each other.

The four long tentacles coiled swiftly around Walton, grasping him in an iron grip, and at the same time Brilling cried out again to the approaching plant-men, a hasty, shrill command that was instantly answered by the latter, whom Owen could see in the distance, racing toward the aid of their master. And a hundred feet across the clearing was the open door of the laboratory!

With a sudden, convulsive movement, Owen rolled away from the cottage wall and out into the clearing. Twisting, squirming, rolling, he progressed across the clearing, passing the struggling Walton and Brilling, working his way toward the open door that meant life or death for the A chorus of wailing shouts world. came to his ears as the plant-men sped toward the clearing, but Owen rolled on, all his being centered on that giant black cylinder inside the open door, and the switches on its front. And on a single switch, at the extreme left-hand side.

The left-hand switch! He was at the door now, had rolled inside and was madly striving to squirm into an upright position, against the great cylinder. Would his bonds baffle him, even now? As he flung himself to his feet with a supreme effort, he saw the plant-men race into the clearing, heard Brilling's command

and saw them race past the struggling pair, toward the laboratory. They were coming—coming—

Leaning far over, Owen grasped the left-hand switch between his teeth. As he did so, the first of the plant-men raced into the laboratory, swung up one of the daggerlike flame-throwers toward him. But even as the deadly weapon was leveled full toward him, Owen had jerked down the switch between his teeth, by a quick movement of his head, snapping it wide open. For a fraction of a moment there was an utter silence.

Then, from outside, came a sudden wailing cry, faint and fading. And as Owen stared, trembling, he saw the plant-men before him wavering, hesitating, saw their outlines soften, melt and change, seemed to glimpse them flashing through a thousand forms with lightning speed, then melt down to mere heaps of green slime, masses of green, slimy scum that smeared the floor and ground where the plant-men had stood.

Out beyond the open door, he saw Walton stagger to his feet, gazing in utter amazement at the heaps of slime around him. Then, reeling unsteadily into the laboratory, Walton had cut his bonds and the two walked out into the clearing, looking about as if unable to credit the miracle they had wrought.

Slime! Slime that lay where Brilling and the plant-men had moved a moment before, slime that lay wherever the plant-men had been gathered. All life on the island, save for the shielded two, had sunk down to the first base of life, under the full power of the reversing ray, had flashed down to slime like that which covered the tidal beaches ages before.

Walton shouted, now, and pointed out toward the sea. The massed globes there, that had been speeding away from the island, were wavering, halting, driving about confusedly, the droning of their operation dying and ceasing, as one after another they plunged down into the sea, with great splashes. Spinning down into the sea, when the plant-men inside them were smitten down by the reaching, powerful ray. Smitten down—to slime!

The last of the flying globes splashed down and vanished, and Walton and Owen turned and looked at each other. There were tears standing in their eyes. Over the island lay a thick, stupendous silence.

6

As THER little sailboat swept across the waters, Walton and Owen stood at its stern, watching the island drop behind. In the west, the setting sun hung at the water's edge, a great, flaming door into which the sea seemed to be pouring. And remembering the utter despair with which they had come down to the island so short a time before, Owen felt infinitely grateful, infinitely humbled.

Walton's thoughts were on something else. "Brilling gone," he said, "the plant-men all gone, the ray-projector destroyed by us—and I alone know how to make another."

"You are hardly likely to make another, are you?" asked Owen, smiling. But there was no smile on Walton's face as he answered.

"No, all that is finished, now. But it was close—close—"

As the two watched the island sink behind them, a silence fell on them, a silence of complete understanding. The sun had dropped down beneath the horizon, now, and they could hardly see the island in the darkening twilight. A moment longer they glimpsed it, a dark mass wavering against the distant skyline, then it had passed, had blended into the thickening dusk.

With a sigh, Owen turned around, and more slowly, Walton did likewise. Shoulder to shoulder, they looked out ahead. Thus the little yawl clove the waters, speeding steadily north through the swiftly gathering night.