

FROM THE DARKNESS AND THE DEPTHS

by Morgan Robertson

I HAD KNOWN HIM FOR A PAINTER of renown—a master of his art, whose pictures, which sold for high prices, adorned museums, the parlors of the rich, and, when on exhibition, were hung low and conspicuous. Also, I knew him for an expert photographer—an “art photographer,” as they say, one who dealt with this branch of industry as a fad, an amusement, and who produced pictures that in composition, lights, and shades rivaled his productions with the brush.

His cameras were the best that the market could supply, yet he was able, from his knowledge of optics and chemistry, to improve them for his own uses far beyond the ability of the makers. His studio was filled with examples of his work, and his mind was stocked with information and opinions on all subjects ranging from international policies to the servant-girl problem.

He was a man of the world, gentlemanly and successful, about sixty years old, kindly and gra-

cious of manner, and out of this kindness and graciousness had granted me the compliment of his friendship, and access to his studio whenever I felt like calling upon him.

Yet it never occurred to me that the wonderful and technically correct marines hanging on his walls were due to anything but the artist's conscientious study of his subject, and only his casual mispronunciation of the word “leeward,” which landsmen pronounce as spelled, but which rolls off the tongue of a sailor, be he former dock rat or naval officer, as “looward,” and his giving the long sounds to the vowels of the words “patent” and “tackle,” that induced me to ask if he had ever been to sea.

“Why, yes,” he answered. “Until I was thirty I had no higher ambition than to become a skipper of some craft; but I never achieved it. The best I did was to sign first mate for one voyage—and that one was my last. It was on that voyage that I learned

something of the mysterious properties of light, and it made me a photographer, then an artist. You are wrong when you say that a searchlight cannot penetrate fog."

"But it had been tried," I remonstrated.

"With ordinary light. Yes, of course, subject to refraction, reflection, and absorption by the millions of minute globules of water it encounters."

We had been discussing the wreck of the *Titanic*, the most terrible marine disaster of history, the blunders of construction and management, and the later proposed improvements as to the lowering of boats and the location of ice in a fog.

Among these considerations was also the plan of carrying a powerful searchlight whose beam would illumine the path of a twenty-knot liner and render objects visible in time to avoid them. In regard to this I had contended that a searchlight could not penetrate fog, and if it could, would do as much harm as good by blinding and confusing the watch officers and lookouts on other craft.

"But what other kind of light can be used?" I asked, in answer to his mention of ordinary light.

"Invisible light," he answered. "I do not mean the Rontgen ray, nor the emanation from radium, both of which are invisible, but neither of which is light, in that

neither can be reflected nor refracted. Both will penetrate many different kinds of matter, but it needs reflection or refraction to make visible an object on which it impinges. Understand?"

"Hardly," I answered dubiously. "What kind of visible light is there, if not radium or the Rontgen ray? You can photograph with either, can't you?"

"Yes, but to see what you have photographed you must develop the film. And there is no time for that aboard a fast steamer running through the ice and the fog. No, it is mere theory, but I have an idea that the ultraviolet light —the actinic rays beyond the violet end of the spectrum, you know—will penetrate fog to a great distance, and in spite of its higher refractive power, which would distort and magnify an object, it is better than nothing."

"But what makes you think that it will penetrate fog?" I queried. "And if it is invisible itself, how will it illumine an object?"

"As to your first question," he answered, with a smile, "it is well known to surgeons that ultraviolet light will penetrate the human body to the depth of an inch, while the visible rays are reflected at the surface. And it has been known to photographers for fifty years that this light—easily isolated by dispersion through prisms —will act on a sensitized plate in an utterly dark room."

"Granted," I said. "But how about the second question? How can you see by this light?"

"There you have me," he answered. "It will need a quicker development than any now known to photography—a traveling film, for instance, that will show the picture of an iceberg or a ship before it is too late to avoid it—a traveling film sensitized by a quicker acting chemical than any now used."

"Why not puzzle it out?" I asked. "It would be a wonderful invention."

"I am too old," he answered dreamily. "My life work is about done. But other and younger men will take it up. We have made great strides in optics. The moving picture is a fact. Colored photographs are possible. The ultraviolet microscope shows us objects hitherto invisible because smaller than the wave length of visible light. We shall ultimately use this light to see through opaque objects. We shall see colors never imagined by the human mind, but which have existed since the beginning of light."

"We shall see new hues in the sunset, in the rainbow, in the flowers and foliage of forest and field. We may possibly see creatures in the air above never seen before."

"We shall certainly see creatures from the depths of the sea, where visible light cannot reach

—creatures whose substance is of such a nature that it will not respond to the light it has never been exposed to—a substance which is absolutely transparent because it will not absorb, and appear black; will not reflect, and show a color of some kind; and will not refract, and distort objects seen through it."

"What!" I exclaimed. "Do you think there are invisible creatures?"

He looked gravely at me for a moment, then said: "You know that there are sounds that are inaudible to the human ear because of their too rapid vibration, others that are audible to some, but not to all. There are men who cannot hear the chirp of a cricket, the tweet of a bird, or the creaking of a wagon wheel."

"You know that there are electric currents much stronger in voltage than is necessary to kill us, but of wave frequency so rapid that the human tissue will not respond, and we can receive such currents without a shock. And *I know*"—he spoke with vehemence—"that there are creatures in the deep sea of color invisible to the human eye, for I have not only felt such a creature, but seen its photograph taken by the ultraviolet light."

"Tell me," I asked breathlessly. "Creatures solid, but invisible?"

"Creatures solid, and invisible because absolutely transparent. It

is long since I have told the yarn. People would not believe me, and it was so horrible an experience that I have tried to forget it. However, if you care for it, and are willing to lose your sleep to-night, I'll give it to you."

He reached for a pipe, filled it, and began to smoke; and as he smoked and talked, some of the glamor and polish of the successful artist and clubman left him. He was an old sailor, spinning a yarn.

"It was about thirty years ago," he began, "or, to be explicit, twenty-nine years this coming August, at the time of the great Java earthquake. You've heard of it—how it killed seventy thousand people, thirty thousand of whom were drowned by the tidal wave.

"It was a curious phenomenon; Krakatoa Island, a huge conical mountain rising from the bottom of Sunda Strait, went out of existence, while in Java a mountain chain was leveled, and up from the bowels of the earth came an iceberg—as you might call it—that floated a hundred miles on a stream of molten lava before melting.

"I was not there; I was two hundred miles to the sou'west, first mate of one of those old-fashioned, soft-pine, centerboard barkentines—three sticks the same length, you know—with the mainmast stepped on the port side of the keel to make room for the

centerboard—a craft that would neither stay, nor wear, nor scud, nor heave to, like a decent vessel.

"But she had several advantages; she was new, and well painted, deck, top-sides, and bottom. Hence her light timbers and planking were not water-soaked. She was fastened with 'trunnels,' not spikes and bolts, and hemp rigged.

"Perhaps there was not a hundredweight of iron aboard of her, while her hemp rigging, though heavier than water, was lighter than wire rope, and so, when we were hit by the backwash of that tidal wave, we did not sink, even though butts were started from one end to the other of the flimsy hull, and all hatches were ripped off.

"I have called it the backwash, yet we may have had a tidal wave of our own; for, though we had no knowledge of the frightful catastrophe at Java, still there had been for days several submarine earthquakes all about us, sending fountains of water, steam bubbles, and mud from the sea bed into the air.

"As the soundings were over two thousand fathoms in that neighborhood, you can imagine the seismic forces at work beneath us. There had been no wind for days, and no sea, except the agitation caused by the upheavals. The sky was dull mud color, and the sun looked like nothing but a

dark, red ball, rising day by day in the east, to move overhead and set in the west. The air was hot, sultry, and stifling, and I had difficulty in keeping the men—a big crew—at work.

"The conditions would try anybody's temper, and I had my own troubles. There was a passenger on board, a big, fat, highly educated German—a scientist and explorer—whom we had taken aboard at some little town on the West Australian coast, and who was to leave us at Batavia, where he could catch a steamer for Germany.

"He had a whole laboratory with him, with scientific instruments that I didn't know the names of, with maps he had made, stuffed beasts and birds he had killed, and a few live ones which he kept in cages and attended to himself in the empty hold; for we were flying light, you know, without even ballast aboard, and bound to Batavia for a cargo.

"It was after a few eruptions from the bottom of the sea that he got to be a nuisance; he was keenly interested in the strange dead fish and nondescript creatures that had been thrown up. He declared them new, unknown to science, and wore out my patience with entreaties to haul them aboard for examination and classification.

"I obliged him for a time, until

the decks stank with dead fish, and the men got mutinous. Then I refused to advance the interests of science any farther, and, in spite of his excitement and pleadings, refused to litter the decks any more. But he got all he wanted of the unclassified and unknown before long.

"Tidal wave, you know, is a name we give to any big wave, and it has no necessary connection with the tides. It may be the big third wave of a series—just a little bigger than usual; it may be the ninth, tenth, and eleventh waves merged into one huge comber by uneven wind pressure; it may be the backwash from an earthquake that depresses the nearest coast, and it may be—as I think it was in our case—a wave sent out by an upheaval from the sea bed. At any rate, we got it, and we got it just after a tremendous spouting of water and mud, and a thick cloud of steam on the northern horizon.

"We saw a seeming rise to the horizon, as though caused by refraction, but which soon eliminated refraction as a cause by its becoming visible in its details—its streaks of water and mud, its irregular upper edge, the occasional combers that appeared on this edge, and the terrific speed of its approach. It was a wave, nothing else, and coming at forty knots at least.

"There was little that we could

do; there was no wind, and we headed about west, showing our broadside; yet I got the men at the downhauls, clew-lines, and stripping lines of the lighter kites; but before a man could leave the deck to furl, that moving mountain hit us, and buried us on our beam ends just as I had time to sing out: 'Lash yourselves, every man.'

"Then I needed to think of my own safety and passed a turn of the mizzen gaff- topsail downhaul about me, belaying to a pin as the cataclysm hit us. For the next two minutes—although it seemed an hour, I did not speak, nor breathe, nor think, unless my instinctive grip on the turns of the downhaul on the pin may have been an index of thought. I was under water; there was roaring in my ears, pain in my lungs, and terror in my heart.

"Then there came a lessening of the turmoil, a momentary quiet, and I roused up, to find the craft floating on her side, about a third out of water, but apt to turn bottom up at any moment from the weight of the water-soaked gear and canvas, which will sink, you know, when wet.

"I was hanging in my bight of rope from a belaying pin, my feet clear of the perpendicular deck, and my ears tortured by the sound of men overboard crying for help—men who had not lashed themselves. Among them I knew

was the skipper, a mild-mannered little fellow, and the second mate, an incompetent tough from Portsmouth, who had caused me lots of trouble by his abuse of the men and his depending upon me to stand by him.

"Nothing could be done for them; they were adrift on the back wall of a moving mountain that towered thirty degrees above the horizon to port; and another moving mountain, as big as the first, was coming on from starboard—caused by the tumble into the sea of the uplifted water.

"Did you ever fall overboard in a full suit of clothes? If you did, you know the mighty exercise of strength required to climb out. I was a strong, healthy man at the time, but never in my life was I so tested. I finally got a grip on the belaying pin and rested; then, with an effort that caused me physical pain, I got my right foot up to the pinrail and rested again; then, perhaps more by mental strength than physical—for I loved life and wanted to live—I hooked my right foot over the rail, reached higher on the rope, rested again, and finally hove myself up to the mizzen rigging, where I sat for a few moments to get my breath, and think, and look around.

"Forward, I saw men who had lashed themselves to the starboard rail, and they were struggling, as I had struggled, to get

up to the horizontal side of the vessel. They succeeded, but at the time I had no use for them. Sailors will obey orders, if they understand the orders, but this was an exigency outside the realm of mere seamanship.

"Men were drowning off to port; men, like myself, were climbing up to temporary safety afforded by topsides of a craft on her beam ends; and aft, in the alleyway, was the German professor, unashed, but safe and secure in his narrow confines, one leg through a cabin window, and both hands gripping the rail, while he bellowed like a bull, not for himself, however—but for his menagerie in the empty hold.

"There was small chance for the brutes—smaller than for ourselves, left on the upper rail of an overturned craft, and still smaller than the chance of the poor devils off to port, some of whom had gripped the half-submerged top-hamper, and were calling for help.

"We could not help them; she was a Yankee craft, and there was not a life buoy or belt on board; and who, with another big wave coming, would swim down to leeward with a line?

"Landsmen, especially women and boys, have often asked me why a wooden ship, filled with water, sinks, even though not weighted with cargo. Some sailors have pondered over it, too, know-

ing that a small boat, built of wood, and fastened with nails, will float if water-logged.

"But the answer is simple. Most big craft are built of oak or hard pine, and fastened together with iron spikes and bolts—sixty tons at least to a three-hundred-ton schooner. After a year or two this hard, heavy wood becomes water-soaked, and, with the iron bolts and spikes, is heavier than water, and will sink when the hold is flooded.

"This craft of ours was like a small boat—built of soft, light wood, with trunnels instead of bolts, and no iron on board except the anchors and one capstan. As a result, though ripped, twisted, broken, and disintegrated, she still floated even on her beam ends.

"But the soaked hemp rigging and canvas might be enough to drag the craft down, and with this fear in my mind I acted quickly. Singing out to the men to hang on, I made my way aft to where we had an ax, lodged in its beackets on the after house. With this I attacked the mizzen lanyards, cutting everything clear, then climbed forward to the main.

"Hard as I worked I had barely cut the last lanyard when that second wave loomed up and crashed down on us. I just had time to slip into the bight of a rope, and save myself; but I had to give up the ax; it slipped from

my hands and slid down to the port scuppers.

"That second wave, in its effect, was about the same as the first, except that it righted the craft. We were buried, choked, and half drowned; but when the wave had passed on, the main and mizzenmasts, unsupported by the rigging that I had cut away, snapped cleanly about three feet above the deck, and the broad, flat-bottomed craft straightened up, lifting the weight of the foremast and its gear, and lay on an even keel, with foresail, staysail, and jib set, the fore gaff-topsail, flying jib, and jib-topsail clewed down and the wreck of the masts bumping against the port side.

"We floated, but with the hold full of water, and four feet of it on deck amidships that surged from one rail to the other as the craft rolled, pouring over and coming back. All hatches were ripped off, and our three boats were carried away from their chocks on the house.

"Six men were clearing themselves from their lashings at the fore rigging, and three more, who had gone overboard with the first sea, and had caught the upper gear to be lifted as the craft righted, were coming down, while the professor still declaimed from the alley.

"'Hang on all,' I yelled; 'there's another sea coming.'

"It came, but passed over us

without doing any more damage, and though a fourth, fifth, and sixth followed, each was of lesser force than the last, and finally it was safe to leave the rail and wade about, though we still rolled rails under in what was left of the turmoil.

"Luckily, there was no wind, though I never understood why, for earthquakes are usually accompanied by squalls. However, even with wind, our canvas would have been no use to us; for, water-logged as we were, we couldn't have made a knot an hour, nor could we have steered, even with all sail set. All we could hope for was the appearance of some craft that would tow the ripped and shivered hull to port, or at least take us off.

"So, while I searched for the ax, and the professor searched into the depths under the main hatch for signs of his menagerie—all drowned, surely—the remnant of the crew lowered the foresail and jibs, stowing them as best they could.

"I found the ax, and found it just in time; for I was attacked by what could have been nothing but a small-sized sea serpent, that had been hove up to the surface and washed aboard us. It was only about six feet long, but it had a mouth like a bulldog, and a row of spikes along its back that could have sawed a man's leg off.

"I managed to kill it before it

harmed me, and chucked it overboard against the protests of the professor, who averred that I took no interest in science.

"No, I don't," I said to him. "I've other things to think of. And you, too. You'd better go below and clean up your instruments, or you'll find them ruined by salt water."

"He looked sorrowfully and reproachfully at me, and started to wade aft; but he halted at the forward companion, and turned, for a scream of agony rang out from the forecastle deck, where the men were coming in from the jibs, and I saw one of them writhing on his back, apparently in a fit, while the others stood wonderingly around.

"The forecastle deck was just out of water, and there was no wash; but in spite of this, the wriggling, screaming man slid head-first along the break and plunged into the water on the main deck.

"I scrambled forward, still carrying the ax, and the men tumbled down into the water after the man; but we could not get near him. We could see him under water, feebly moving, but not swimming; and yet he shot this way and that faster than a man ever swam; and once, as he passed near me, I noticed a gaping wound in his neck, from which the blood was flowing in a stream—a stream like a current,

which did not mix with the water and discolor it.

"Soon his movements ceased, and I waded toward him; but he shot swiftly away from me, and I did not follow, for something cold, slimy, and firm touched my hand—something in the water, but which I could not see.

"I floundered back, still holding the ax, and sang out to the men to keep away from the dead man; for he was surely dead by now. He lay close to the break of the topgallant forecastle, on the starboard side; and as the men mustered around me I gave one my ax, told the rest to secure others, and to chop away the useless wreck pounding our port side—useless because it was past all seamanship to patch up that basketlike hull, pump it out, and raise jury rigging.

"While they were doing it, I secured a long pike pole from its beackets, and, joined by the professor, cautiously approached the body prodding ahead of me.

"As I neared the dead man, the pike pole was suddenly torn from my grasp, one end sank to the deck, while the other raised above the water; then it slid upward, fell, and floated close to me. I seized it, turned to the professor.

"What do you make of this, Herr Smidt?" I asked. "There is something down there that we cannot see—something that killed the man. See the blood?"

"He peered closely at the dead man, who looked curiously distorted and shrunken, four feet under water. But the blood no longer was a thin stream issuing from his neck; it was gathered into a misshapen mass about two feet away from his neck.

"'Nonsense,' he answered. 'Something alive which we cannot see is contrary to all laws of physics. Der man must have fallen and hurt himself, which accounts for der bleeding. Den he drowned in der water. Do you see?—mine Gott! What iss?'

"He suddenly went under water himself, and dropping the pike pole, I grabbed him by the collar and braced myself. Something was pulling him away from me, but I managed to get his head out, and he spluttered:

"'Help! Holdt on to me. Something haf my right foot.'

"'Lend a hand here,' I yelled to the men, and a few joined me, grabbing him by his clothing. Together we pulled against the invisible force, and finally all of us went backward, professor and all, nearly to drown ourselves before regaining our feet. Then, as the agitated water smoothed, I distinctly saw the mass of red move slowly forward and disappear in the darkness under the forecastle deck.

"'You were right, mine friend,' said the professor, who, in spite of his experience, held his nerve.

'Dere is something invisible in der water—something dangerous, something which violates all laws of physics und optics. Oh, mine foot, how it hurts!'

"'Get aft,' I answered, 'and find out what ails it. And you fellows,' I added to the men, 'keep away from the forecastle deck. Whatever it is, it has gone under it.'

"Then I grabbed the pike pole again, cautiously hooked the barb into the dead man's clothing, and, assisted by the men, pulled him aft to the poop, where the professor had preceded, and was examining his ankle. There was a big, red wale around it, in the middle of which was a huge blood blister. He pricked it with his knife, then rearranged his stocking and joined us as we lifted the body.

"'Great God, sir!' exclaimed big Bill, the bosun. 'Is that Frank? I wouldn't know him.'

"Frank, the dead man, had been strong, robust, and full-blooded. But he bore no resemblance to his living self. He lay there, shrunken, shortened, and changed, a look of agony on his emaciated face, and his hands clenched—not extended like those of one drowned.

"'I thought drowned men swelled up,' ventured one of the men.

"'He was not drowned,' said Herr Smidt. 'He was sucked dry, like a lemon. Perhaps in his whole

body there is not an ounce of blood, nor lymph, nor fluid of any kind.'

"I secured an iron belaying pin, tucked it inside his shirt, and we hove him overboard at once; for, in the presence of this horror, we were not in the mood for a burial service. There we were, eleven men on a water-logged hulk, adrift on a heaving, greasy sea, with a dark-red sun showing through a muddy sky above, and an invisible *thing* forward that might seize any of us at any moment it chose, in the water or out; for Frank had been caught and dragged down.

"Still, I ordered the men, cook, steward, and all, to remain on the poop and—the galley being forward—to expect no hot meals, as we could subsist for a time on the cold, canned food in the store-room and lazaret.

"Because of an early friction between the men and the second mate, the mild-mannered and peace-loving skipper had forbidden the crew to wear sheath knives; but in this exigency I overruled the edict. While the professor went down into his flooded room to doctor his ankle and attend to his instruments, I raided the slop chest, and armed every man of us with a sheath knife and belt; for while we could not see the creature, we could feel it—and a knife is better than a gun in a hand-to-hand fight.

"Then we sat around, waiting, while the sky grew muddier, the sun darker, and the northern horizon lighter with a reddish glow that was better than the sun. It was the Java earthquake, but we did not know it for a long time.

"Soon the professor appeared and announced that his instruments were in good condition, and stowed high on shelves above the water.

"I must resensitize my plates, however,' he said. 'Der salt water has spoiled them; but mine camera merely needs to dry out; und mine telescope, und mine static machine und Leyden jars—why, der water did not touch them.'

"'Well,' I answered. 'That's all right. But what good are they in the face of this emergency? Are you thinking of photographing anything now?'

"'Perhaps. I haf been thinking some.'

"'Have you thought out what that creature is—forward, there?'

"'Partly. It is some creature thrown up from der bottom of der sea, und washed on board by der wave. Light, like wave motion, ends at a certain depth, you know; und we have over twelve thousand feet beneath us. At that depth dere is absolute darkness, but we know that creatures live down dere, und fight, und eat, und die.'

"'But what of it? Why can't we see that thing?'

" 'Because, in der ages that haf passed in its evolution from der original moneron, it has never been exposed to light—I mean visible light, der light that contains der seven colors of der spectrum. Hence it may not respond to der three properties of visible light—reflection, which would give it a color of some kind; absorption, which would make it appear black; or refraction, which, in der absence of der other two, would distort things seen through it. For it would be transparent, you know.'

" 'But what can be done?' I asked helplessly, for I could not understand at the time what he meant.

" 'Nothing, except that der next man attacked must use his knife. If he cannot see der creature, he can feel it. Und perhaps—I do not know yet—perhaps, in a way, we may see it—its photograph.'

"I looked blankly at him, thinking he might have gone crazy, but he continued.

" 'You know,' he said, 'that objects too small to be seen by the microscope, because smaller than der amplitude of der shortest wave of visible light, can be seen when exposed to der ultraviolet light—der dark light beyond der spectrum. Und you know that this light is what acts der most in photography? That it exposes on a sensitized plate new stars in der heavens invisible to der eye

through the strongest telescope?'

" 'Don't know anything about it,' I answered. 'But if you can find a way out of this scrape we're in, go ahead.'

" 'I must think,' he said dreamily. 'I haf a rock-crystal lens which is permeable to this light, und which I can place in mine camera. I must have a concave mirror, not of glass, which is opaque to this light, but of metal.'

" 'What for?' I asked.

" 'To throw der ultraviolet light on der beast. I can generate it with mine static machine.'

" 'How will one of our lantern reflectors do? They are of polished tin, I think.'

" 'Good! I can repolish one.'

"We had one deck lantern larger than usual, with a metallic reflector that concentrated the light into a beam, much as do the present-day searchlights. This I procured from the lazaret, and he pronounced it available. Then he disappeared, to tinker up his apparatus.

"Night came down, and I lighted three masthead lights, to hoist at the fore to inform any passing craft that we were not under command; but, as I would not send a man forward on that job, I went myself, carefully feeling my way with the pike pole. Luckily, I escaped contact with the creature, and returned to the poop, where we had a cold supper of canned cabin stores.

"The top of the house was dry, but it was cold, especially so as we were all drenched to the skin. The steward brought up all the blankets there were in the cabin—for even a wet blanket is better than none at all—but there were not enough to go around, and one man volunteered, against my advice, to go forward and bring aft bedding from the forecastle.

"He did not come back; we heard his yell, that finished with a gurgle; but in that pitch black darkness, relieved only by the red glow from the north, not one of us dared to venture to his rescue. We knew that he would be dead, anyhow, before we could get to him; so we stood watch, sharing the blankets we had when our time came to sleep.

"It was a wretched night that we spent on the top of that after house. It began to rain before midnight, the heavy drops coming down almost in solid waves; then came wind, out of the south, cold and biting, with real waves, that rolled even over the house, forcing us to lash ourselves. The red glow to the north was hidden by the rain and spume, and, to add to our discomfort, we were showered with ashes, which, even though the surface wind was from the south, must have been brought from the north by an upper air current.

"We did not find the dead man when the faint daylight came;

and so could not tell whether or not he had used his knife. His body must have washed over the rail with a sea, and we hoped the invisible killer had gone, too. But we hoped too much. With courage born of this hope a man went forward to lower the masthead lights, prodding his way with the pike pole.

"We watched him closely, the pole in one hand, his knife in the other. But he went under at the fore rigging without even a yell, and the pole went with him, while we could see, even at the distance and through the disturbed water, that his arms were close to his sides, and that he made no movement, except for the quick darting to and fro. After a few moments, however, the pike pole floated to the surface, but the man's body, drained, no doubt, of its buoyant fluids, remained on the deck.

"It was an hour later, with the pike pole for a feeler, before we dared approach the body, hook on to it, and tow it aft. It resembled that of the first victim, a skeleton clothed with skin, with the same look of horror on the face. We buried it like the other, and held to the poop, still drenched by the downpour of rain, hammered by the seas, and choked by ashes from the sky.

"As the shower of ashes increased it became dark as twilight, and though the three lights aloft

burned out at about midday, I forbade a man to go forward to lower them, contenting myself with a turpentine flare lamp that I brought up from the lazaret, and filled, ready to show if the lights of a craft came in view. Before the afternoon was half gone it was dark as night, and down below, up to his waist in water, the German professor was working away.

"He came up at supper time, humming cheerfully to himself, and announced that he had replaced his camera lens with the rock crystal, that the lantern, with its reflector and a blue spark in the focus, made an admirable instrument for throwing the invisible rays on the beast, and that he was all ready, except that his plates, which he had resensitized—with some phosphorescent substance that I forget the name of, now—must have time to dry. And then, he needed some light to work by when the time came, he explained.

"Also another victim," I suggested bitterly; for he had not been on deck when the last two men had died.

"I hope not," he said. "When we can see, it may be possible to stir him up by throwing things forward; then when he moves der water we can take shots."

"Better devise some means of killing him," I answered. "Shooting won't do, for water stops a

bullet before it goes a foot into it."

"Der only way I can think of," he responded, "is for der next man—you hear me all, you men—to stick your knife at the end of the blood—where it collects in a lump. Dere is der creature's stomach, and a vital spot."

"Remember this, boys," I laughed, thinking of the last poor devil, with his arms pinioned to his side. "When you've lost enough blood to see it in a lump, stab for it."

"But my laugh was answered by a shriek. A man lashed with a turn of rope around his waist to the stump of the mizzenmast, was writhing and heaving on his back, while he struck with his knife, apparently at his own body. With my own knife in my hand I sprang toward him, and felt for what had seized him. It was something cold, and hard, and leathery, close to his waist.

"Carefully, gauging my stroke, I lunged with the knife, but I hardly think it entered the invisible fin, or tail, or paw of the monster; but it moved away from the screaming man, and the next moment I received a blow in the face that sent me aft six feet, flat on my back. Then came unconsciousness.

"When I recovered my senses, the remnant of the crew were around me, but the man was gone—dragged out of the bight of the

rope that had held him against the force of breaking seas, and down to the flooded main deck, to die like the others. It was too dark to see, or do anything; so, when I could speak I ordered all hands but one into the flooded cabin where, in the upper berths and on the top of the table, were a few dry spots.

"I filled and lighted a lantern, and gave it to the man on watch with instructions to hang it to the stump of the mizzen and to call his relief at the end of four hours. Then, with doors and windows closed, we went to sleep, or tried to go to sleep. I succeeded first, I think, for up to the last of consciousness I could hear the mutterings of the men; when I awakened, they were all asleep, and the cabin clock, high above the water, told me that, though it was still dark, it was six in the morning.

"I went on deck; the lantern still burned at the stump of the mizzenmast but the lookout was gone. He had not lived long enough to be relieved, as I learned by going below and finding that no one had been called.

"We were but six, now—one sailor and the bos'n, the cook and steward, the professor and myself."

The old artist paused, while he refilled and lighted his pipe. I noticed that the hand that held

the match shook perceptibly, as though the memories of that awful experience had affected his nerves. I know that the recital had affected mine; for I joined him in a smoke, my hands shaking also.

"Why," I asked, after a moment of silence, "if it was a deep-sea creature, did it not die from the lesser pressure at the surface?"

"Why do not men die on the mountaintops?" he answered. "Or up in balloons? The record is seven miles high, I think; but they lived. They suffered from cold, and from lack of oxygen—that is, no matter how fast, or deeply they breathed, they could not get enough. But the lack of pressure did not trouble them; the human body can adjust itself.

"Conversely, however, an increase of pressure may be fatal. A man dragged down more than one hundred and fifty feet may be crushed; and a surface fish sent to the bottom of the sea may die from the pressure. It is simple; it is like the difference between a weight lifted from us and a weight added."

"Did this thing kill any more men?" I asked.

"All but the professor and myself, and it almost killed me. Look here."

He removed his cravat and collar, pulled down his shirt, and exposed two livid scars about an inch in diameter, and two apart.

"I lost all the blood I could spare through those two holes," he said, as he readjusted his apparel, "but I saved enough to keep me alive."

"Go on with the yarn," I said. "I promise you I will not sleep to-night."

"Perhaps I will not sleep myself," he answered, with a mournful smile. "Some things should be forgotten, but as I have told you this much, I may as well finish, and be done with it."

"It was partly due to a sailor's love for tobacco, partly to our cold, drenched condition. A sailor will starve quietly, but go crazy if deprived of his smoke. This is so well known at sea that a skipper, who will not hesitate to sail from port with rotten or insufficient food for his men, will not dare take a chance without a full supply of tobacco in the slop chest.

"But our slop chest was under water, and the tobacco utterly useless. I did not use it at the time, but I fished some out for the others. It did not do; it would not dry out to smoke, and the salt in it made it unfit to chew. But the bos'n had an upper bunk in the forward house, in which were a couple of pounds of navy plug, and he and the sailor talked this over until their craving for a smoke overcame their fear of death.

"Of course, by this time, all

discipline was ended, and all my commands and entreaties went for nothing. They sharpened their knives, and, agreeing to go forward, one on the starboard rail, the other on the port, and each to come to the other's aid if called, they went up into the darkness of ashes and rain. I opened my room window, which overlooked the main deck, but could see nothing.

"Yet I could hear; I heard two screams for help, one after the other—one from the starboard side, the other from the port, and knew that they were caught. I closed the window, for nothing could be done. What manner of thing it was that could grab two men so far apart nearly at the same time was beyond imagining.

"I talked to the steward and cook, but found small comfort. The first was a Jap, the other a Chinaman, and they were the old-fashioned kind—what they could not see with their eyes, they could not believe. Both thought that all those men who had met death had either drowned or died by falling. Neither understood—and, in fact, I did not myself—the theories of Herr Smidt. He had stopped his cheerful humming to himself now, and was very busy with his instruments.

"'This thing,' I said to him, 'must be able to see in the dark. It certainly could not have heard those two men, over the noise of the wind, sea, and rain.'

"Why not?" he answered, as he puttered with his wires. 'Cats and owls can see in the dark, und the accepted explanation is that by their power of enlarging der pupils they admit more light to the retina. But that explanation never satisfied me. You haf noticed, haf you not, that a cat's eyes shine in der dark, but only when der cat is looking at you? —that is, when it looks elsewhere you do not see der shiny eyes.'

"Yes," I said, 'I have noticed.'

"A cat's eyes are searchlights, but they send forth a visible light, such as is generated by fireflies, und some fish. Und dere are fish in der upper tributaries of der Amazon which haf four eyes, der two upper of which are searchlights, der two lower of which are organs of percipience or vision. But visible light is not der only light. It is possible that the creature out on deck generates the invisible light, and can see by it."

"But what does it all amount to?" I asked impatiently.

"I haf told you," he answered calmly. 'Der creature may live in an atmosphere of ultraviolet light, which I can generate mineself. When mine plates dry, und it clears off so I can see what I am doing, I may get a picture of it. When we know what it is, we may find means of killing it.'

"God grant that you succeed," I answered fervently. 'It has killed enough of us.'

"But, as I said, the thing killed all but the professor and myself. And it came about through the other reason I mentioned—our cold, drenched condition. If there is anything an Oriental loves above his ancestors, it is his stomach; and the cold, canned food was palling upon us all. We had a little light through the downpour of ashes and rain about midday, and the steward and cook began talking about hot coffee.

"We had the turpentine torch for heating water, and some coffee, high and dry on a shelf in the steward's storeroom, but not a pot, pan, or cooking utensil of any kind in the cabin. So these two poor heathen, against my expositulations—somewhat faint, I admit, for the thought of hot coffee took away some of my common sense—went out on the deck and waded forward, waist-deep in the water, muddy now, from the downfall of ashes.

"I could see them as they entered the galley to get the coffee pot, but, though I stared from my window until the blackness closed down, I did not see them come out. Nor did I hear even a squeal. The thing must have been in the galley.

"Night came on, and, with its coming, the wind and rain ceased, though there was still a slight shower of ashes. But this ended toward midnight, and I could see stars overhead and a

clear horizon. Sleep, in my nervous, overwrought condition, was impossible; but the professor, after the bright idea of using the turpentine torch to dry out his plates, had gone to his fairly dry berth, after announcing his readiness to take snapshots about the deck in the morning.

"But I roused him long before morning. I roused him when I saw through my window the masthead and two side lights of a steamer approaching from the starboard, still about a mile away. I had not dared to go up and rig that lantern at the mizzen stump; but now I nerved myself to go up with the torch, the professor following with his instruments.

"You cold-blooded crank," I said to him, as I waved the torch. "I admire your devotion to science, but are you waiting for that thing to get me?"

"He did not answer, but rigged his apparatus on the top of the cabin. He had a Wimshurst machine—to generate a blue spark, you know—and this he had attached to the big deck light, from which he had removed the opaque glass. Then he had his camera, with its rock-crystal lens.

"He trained both forward, and waited, while I waved the torch, standing near the stump with a turn of rope around me for safety's sake in case the thing seized me; and to this idea I added the foolish hope, aroused by the pro-

fessor's theories, that the blinding light of the torch would frighten the thing away from me as it does wild animals.

"But in this last I was mistaken. No sooner was there an answering blast of a steam whistle, indicating that the steamer had seen the torch, than something cold, wet, leathery, and slimy slipped around my neck. I dropped the torch, and drew my knife, while I heard the whir of the static machine as the professor turned it.

"Use your knife, mine friend," he called. "Use your knife, and reach for any blood what you see."

"I knew better than to call for help, and I had little chance to use the knife. Still, I managed to keep my right hand, in which I held it, free, while that cold, leathery thing slipped farther around my neck and waist. I struck as I could, but could make no impression; and soon I felt another stricture around my legs, which brought me on my back.

"Still another belt encircled me, and, though I had come up warmly clad in woolen shirts and monkey jacket, I felt these garments being torn away from me. Then I was dragged forward, but the turn of rope had slipped down toward my waist, and I was merely bent double.

"And all the time that German was whirling his machine, and shouting to strike for any blood I

saw. But I saw none. I felt it going, however. Two spots on my chest began to smart, then burn as though hot irons were piercing me. Frantically I struck, right and left, sometimes at the coils encircling me, again in the air. Then all became dark.

"I awakened in a stateroom berth, too weak to lift my hands, with the taste of brandy in my mouth and the professor standing over me with a bottle in his hand.

"'Ach, it is well,' he said. 'You will recover. You haf merely lost blood, but you did the right thing. You struck with your knife at the blood, and you killed the creature. I was right. Heart, brain, und all vital parts were in der stomach.'

"'Where are we now?' I asked, for I did not recognize the room.

"'On board der steamer. When you got on your feet und staggered aft, I knew you had killed him, and gave you my assistance. But you fainted away. Then we were taken off. Und I haf two or three beautiful negatives, which I am printing. They will be a glorious contribution to der scientific world.'

"I was glad that I was alive, yet not alive enough to ask many

more questions. But next day he showed me the photographs he had printed."

"In Heaven's name, what was it?" I asked excitedly, as the old artist paused to empty and refill his pipe.

"Nothing but a giant squid, or octopus. Except that it was bigger than any ever seen before, and invisible to the eye, of course. Did you ever read Hugo's terrible story of Gilliat's fight with a squid?"

I had, and nodded.

"Hugo's imagination could not give him a creature—no matter how formidable—larger than one of four-feet stretch. This one had three tentacles around me, two others gripped the port and starboard pinrails, and three were gripping the stump of the mainmast. It had a reach of forty feet, I should think, comparing it with the beam of the craft.

"But there was one part of each picture, ill-defined and missing. My knife and right hand were not shown. They were buried in a dark lump, which could be nothing but the blood from my veins. Unconscious, but still struggling, I had struck into the soft body of the monster, and struck true."