The record addressed to the secretary of the navy, which Lieutenant De Long wrote during the two years of the Jeannette's drift, contains 102 following extract gives his reasons for entering the icepack, and outlines his plans and hopes :

"As the commander of a polar expedition, my chief desire was to get north, and I had already come so far to the westward, in carrying out the department's orders, that the sooner I started in a northerly direction seemed the better for the object in view. Additional time would be lost were I to attempt to get a more easterly position before heading to the northward, particularly as from the experience of American whalers and the ships of the English Franklin relief expedition, there was nothing to indicate there a better chance of progress. On the other hand, we were within 220 miles of Wrangell Land, which though seen had never been landed on. With land so near us offering a chance of exploration, and a winter barbor from which a higher latitude might be attained by sledges, and perhaps presenting what was naturally to be expected—land-water along its eastern coast-in which case a good northing might be made by the ship herself before any exploration or a course north by west, true, proceed-ing with all speed."

De Long then tells how the ship made her way north through | floating ice until she reached a point forty miles east-southeast of Herald Island, where she was stopped by what seemed to be impenetrable pack ice. That night a promising lead opened to the westward, and De Long decided to enter it,

"Belleving that the best chance for an advance would be by land-water extending along the eastern coast of promising lead to the westward would it as soon as there was sufficient daylight the next morning."

He entered the lead and steamed five hours, when the ship was stopped by heavy ice ten or fifteen feet thick. Wrangell Land was in sight to the westward. The record continues:

"At that time I hoped we were destined to reach this land. Though our lead had abruptly terminated at a wall of ice, the surface of the floes was cut up here and there by ponds and small lakes, which any movement of the ice might unite in a lane of navigable water. Instead of opening, however, the ice closed, and on the following day the Jeannette was beset. Unless something like a gale of wind occurred to break up the ice, our advance was no present location meant wintering in above us." the pack and drifting we knew not where. The land-water of Kellet Land was now as unattainable as the land water of Greenland, so far as any lay dead in the Lena delta. power of our own could be effective; the ocean we had left behind was as much out of our reach as if a continent had intervened, and there seemed nothing left but to make a virtue of necessity and stay where we were."

The Jeannette's officers at once began preparations for the winter. Foreseeing that the ship might be crashed by the constantly moving ice, De Long had everything in readiness for abandoning her and retreating on the leavest to Heraud Labord Wrangell Labord with regard to bodily suffering, or to the leavest to the leavest labord with regard to bodily suffering, or to the leavest labord with regard to bodily suffering or to the leavest laboratory and the laboratory and the laboratory and the leavest laboratory and the l doning her and retreating on sledges some duty the dying man desires to to Heraid Island, Wrangell Land or perform, is the far more usual state. the Siberian coast. Upon this subject he says :

"On October 27, 1879, in order to be prepared for any emergency not then to be foreseen, our party was told off into sledging crews, commanded respectively by the five commissioned officers attached to the ship, and upon five sledges were packed forty days' rations for men and dogs. A detail was made of duties to be performed by each individual in event of disaster bringing about an abandonment of the ship. Our sleeping bags, tents and other traveling gear were overhauled and made ready for use, and the loaded sledges on the poop deck were arranged with reference to the most convenient manner for getting them to the ice. All these preparations completed, we could merely await the fu ture, satisfied of our powerlessness to

"November 11 was a day of much anxiety and care. At 6 A. M. the trembling and creaking of the ship gave notice that our ice procession had resumed its march. Going out on-what little was left of our level ice, we were confronted by a fearful spectacle. The pressures and movements of the previous day were feelde in comparison with what was now going on. Large blocks, seventy-five feet in length, seven feet in thickness, and in breadth from six to 200 feet, were rear- of colors. All the partitions, as well ing up on ends as they advanced, as the outer walls, will be of iron surcrushing similar pieces to small lumps | face, but so painted and ornamented as or toppling over and breaking them- to look like wood. In the library will selves into all kinds of shapes and sizes, and all this with the most horrible noise, such as can hardly be described. The rumbling of a railroad mens will adhere to it by magnetic attrain in a tunnel, the shricks of a traction. thousand steam whistles, and the crash of a falling house all combined, would

De Long describes very fully and with many pen-and-ink diagrams the long battle of the Jeannette with the ice and the expedients which were resorted to to repair damages and to strengthen the ship for future ordeals. About the middle of January the Jeannette's forefoot was severely closely-written foolscap pages. The twisted, and a leak was thus caused which threatened for a time to defy all means of control. By the exertions, however, of the carpenter, Sweetman, and the sailor, Ninderman, a bulkhead was built forward of the foremast which partially confined the water. De Long says :

"Sometimes all day, and sometimes all night, and sometimes both, from January 19 to February 4, these two men, Sweetman and Ninderman, stood down in the forepeak, the icy water flowing around them nearly to their knees, working faithfully until their work was accomplished. The good results of that work were evident in the gradually reduced amount of water coming into the ship, and our ability to control the leak without such a ruinous expenditure of fuel as had been necessary before. It is for these reasons that I have had the honor to recommend these two men to you for medals of honor as a recognition of heroic conduct under most trying circumstances."

Sweetman was afterward lost in Chipp's beat.

De Long's record of the remainder of the winter and summer of 1880 is a sledge journey might be undertaken, I story of storms, ice movements, conconcluded that I was exercising good stant anxiety and almost unbroken judgment in considering that land as disappointment. As the short arctic a kind of support for the first winter's summer drew to a close without setcampaign, and I accordingly shaped ting the Jeannette free, and another dreary winter approached, De Long evidently began to revolve in his mind the question whether it would not be better to abandon the ship and make for the northern coast of Siberia over the ice than to run the risk of a second winter in the pack. On September 20, 1880, he says:

"I dislike naturally to dwell on the idea of the abandonment of the ship. We have come through so much that it gives me hopes of surviving more. As long as enough of the ship remains to shelter us, sticking by that frag-Wrangell Land, and hoping that the ment is preferable to camping on ice, and I can conceive of no greater conduct us to it, I concluded to enter 'forlorn hope' than an attempt to reach Siberia (say 240 miles distant) over the ice that surrounds us and with the winter's cold sapping one's life at every step. Of course if we were to lose our ship we would make the effort to get there, but our chances of success would be extremely proble-matical."

The last entry is dated December 31, 1880, and is as follows:

"Minstrels and ringing in the new year in latitude seventy-three degrees forty-eight minutes north, longitude 177 degrees thirty-two minutes east. During the past sixteen months we have drifted 1,300 miles, far enough if it had been in a straight line to carry us to and beyond the pole, but we are yet only 200 miles northwest longer to be guided or controlled by of where we were first beset. We any power from within the ship. We have suffered injury, and danger has had gone as far to the northward as often confronted us. We have been the heavy pack ice had permitted, and squeezed and jammed, tossed and we had followed up the only water tumbled; we have pumped a leaking lane presenting itself, and had come to ship for a year; but we are not yet the end of that. My choice of plans daunted, and are as ready to dare was limited to the surroundings. To everything as we ever were. And we advance was impossible. To retreat face the new year firmly, hoping to do was disagreeable (even if a chance ex- something worthy of ourselves, of isted of doing so), and holding our Bennett's enterprise and the flag

Within ten months after these words were written the Jeannette was at the bottom of the ocean and De Long

How People Die.

Miss Nightingale has pointed out how constantly the mental state of the dying depend on their physical conditions. As a rule, she tells us, in acute But patients who die of consumption very frequently die in a state of seraphic joy and peace; the counte-nance almost expresses rapture. Patients who die of cholera, peritonitis, etc., on the contrary, often die in a state approaching despair. In dysentery, diarrhea or fever the patient often dies in a state of indifference." Those who have carefully examined the dead on a battlefield, or in the street after an emeute, are struck with the fact that while the expression of the faces of those who have died by gunshot wounds is one of agony and distress, the dead by sword have a calmer expression, though their wound often seems more painful to the eye. A very careful observer, who was through the Indian mutiny, entirely confirms this. After giving several instances, he says: "A rapid death by steel is almost painless. Saber edge or point divided the nerves so quickly as to give little pain. A bullet lacerates."—London Spectator.

A flouse of Iron.

George L. Huston is building at Parkesburg, Penn., a residence wholly of iron, on a foundation of solid rock The floors will be of polished east-iron tiles, in which different qualities of the metal will be used to produce a variety

It is claimed that medicinal plants make the nearest approach to the noise and flowers for perfumery can be grown which deafened uz for more than four in greater perfection in Australia than in any other part of the world.

SELECT SIFTINGS.

There were twenty-two oracles of Apollo in different parts of Greece, The most famous was at Delphi.

The first cargo of slaves brought from Africa was taken from Lages in 1444, by Prince Henry, of Portugal. In 1760 the various religious societies

of the United States protested against the use of alcoholic beverages . at

A recent trial has elicited the fact that many German girls cultivate their hair for sale. Really fine hair fetclies some \$5 an ounce.

Under old European law the crew and passengers of wrecked vessels could be imprisoned and enslaved, their property reverting to the lord of the coast or to the crown.

During the reign of Henry IV., which

duty. Coste mentions a dog which, in the winter, when he found his comrades lying around the fire in such a way as to prevent his getting near to it, would make a great noise in the yard. At this, the other dogs would run out; while he would slip into the house, and, securing a good place for himself, leave his comrades to bark as ong as they pleased. He tried this trick quite often, and always succeeded in it, for the other dogs had not intelligence enough to find it out.

SCIENTIFIC NOTES.

In the course of a recent cyclone which struck Iowa the mainsprings of watches were broken in extraordinary numbers all along the track of the storm for thirty miles wide, which goes to show that electricity had something to do in causing the disturbance.

The enormous power of modern great guns is well indicated in the tatement that the largest on board of the vessels of the British fleet is capable of throwing a projectile weighing 1,700 pounds at a velocity of over a mile in four seconds, equal to 27,-213 tons of metal falling a distance of one foot on an object.

In Eschershausen a farm, the soil of which is rich in alkalis, has for twenty years been manured only with arti-ficials. The crops have always been good, and only a falling off in straw has been noticed when "silica" plants were grown for four or five years in shirtssion, but the original yield has been obtained when a "lime" plant had been introduced into the rotation.

It is reported that an unusually large number of seals had lately appeared in the Baltic sea a few miles north of the Samland coast. The salmon fishers have become alarmed lest the seals should play havoe with their industry, as they have done from time to time with the fisheries in other places, and at present the damage caused by seals is very great in Ponerania.

These are the conclusions of Professor E. Wollny of the physical properties of the soil in a dense and loose state. When it is desired to increase the proportion of water in a soil density is to be aimed at, but a loose condition should be maintained when the contrary state is found needful. The more densely the particles of the soil are packed together the more such soil will vary in temperature.

A Hotel Man's Luck.

Mr. J. G. Tyler, chief clerk at the Union Depot hotel, Ogden, had rheumatism in the muscles of the chest and left shoulder. By applying the Great German Remedy three days he realized complete restoration, and he is of the opinion that there is nothing equal to the St. Jacobs Oil for pain. The Great German Remedy is also a specific for burns and sprains.—Salt Lake (Utah) Tribune.

A Nevada penitentiary convict says he was sent to prison for being dishonest, and yet is compelled every day to cut out pieces of pasteboard which are put between the soles of cheap stars made there and palmed off on the pullie as leather.

A STRANGE REMINISCENCE.

The Escape of a Well Known ex-Army Suf-

(Baltimore American.) Mesma, Editors: I seldom appear publicly in print, but the facts connected with my experience which follow are so striking, and bear so closely pron the experience of others, that I venture in reproduce them entire:

In the month of September, 1879, I was tracticing medicine in New Orleans. The summer had been excessively but and everybody was complaining of being exhausted and feeling tired. It was not an unfrequent accurrence to have patients ask for somesting to relieve this weary sensation, and that I should also partake of the same universal lassitude or weakness, did not alarm me. I supposed that overwork and exposure had produced a temporary physical prostration; therefore I made a trip to St. Paul, Minn., thinking that a rest of a few weeks in Minn., thinking that a rest of a few weeks in a cooler climate would soon reinvigorate me. Little did I dream, however, what was in tore for me. After getting settled in my new quarters I took a short walk every day. During the reign of Henry IV., which lasted eighteen years, \$000 French gentlemen perished in the duri and the king gave 14,000 partions to these which had broken the law, of dueling.

The granddaddy of all the sweet potatoes was on exhibition recently at a store in Waco. Texas. It was a yam, and, when dug, weighed thirty-two pounds. Sweet potatoes weigh about sixty pounds to the bushel, so that this one was a little over half, a bushel of solid potato.

High French authorities have found by experiments on animals that while small doses of arsenic seemed to do good at first, they resulted ultimately in poverty of blood, and that a postmortem disclosed in the liver, lungs and kidneys the characteristics of fatty degeneration.

Some years ago there was a cat-concert held in Paris. It was called "Concert Miaulant," from the mewing of the felines. They were trained by having their tails pulled every time a certain note was struck and the unpleasant remembrance caused each one to mew each time that he heard the sound again.

The servile war in Sicily was

to mew each time that he heard the sound again.

The servile war in Sicily was brought about by the inhumanity of the masters, who, slaves being very abundant on account of the great number of prisoners taken in war, found it easier to exact the most strenuous toliform them and to exhaust their strength quickly rather than treat them well. The revolt which ensued in consequence of this policy lasted two years, and four Roman armies were defeated by the insurgent forces, before Publius Rupilius conquered them in 132 B. C.

There are authentic cases of simulation or deception which animals have worked out to save themselves from labor or to procure some advantage. A military surgeon tells of a horse which was accustomed to pretend to be lame on the days when the horses were drilled, in order to avoid that duty. Coste mentions a dog which, in the winter, when he found lifs comuse. At first my stomach rejected it and I had to use small quantities; but after the first five days my stomach retained full doses five days my stomach retained full doses. This was one year ago last October, and my improvement was rapid and permanent. I have regained fifty of the sixty-five pounds of flesh I lost during my illness, and I feel as well to-day as I ever did, and I can unreservedly state that my life was saved by Warner's Safe Kidney and Liver Cure, the remedy I cond.

used.

It may seem strange that I, being a physician and an ex-army surgeon, did not have the water analyzed before; but such is the fact. I had the symptoms of every other disease, and I did not suspect that my kidneys were in the least particular out of order; and here is just where I was in the greatest danger, and where most people who read this article are in danger. I find that I am only one of thousands who are suffering from kidney disorders, which, neglected, surely terminate in Bright's disease. I also know that physicians may treat these disorders for months without knowing clearly what the trouble is, and even after ascertaining the cause be mable to provent it. When death, however, finally overtakes the helpless victim they disguise its real cause, attributing it to have the surgest of the su

death, however, finally overtakes the helpless vicitim they disguise its real cause, attributing it to heart disease, convulsions, apoplery, vertigo, paralysis, spinal meningetis, blood and gremic poisoning, etc., etc.

Words, of course, fail to express my thanks to H. H. Weiner & Co. of Rochester, N. Y., for giving the world such a needed and certain specific as the Safe kidney and Liver Cure, but such as they are I gladly give them; while to the thousands to whom I have lectured upon the laws of health and hygiene I commend this letter moss cordinly, and warn them to bewere of the insidious nature of a disease over which physicians confess. of a disease over which physicians confess they have no control and which in one form or another is carrying more people to untimely graves than any other malady.

J. M. PORTER, M. D.,

Baltimore, Md., 24 Saratoga street.

The Home of the Potato.

The long-mooted question in regard to the original home of the potato has been settled by the finding of indigenous tubers among the mountain ranges of the Mexican frontier in Arizona. Several varieties were found there by Mr. John G. Lemmon, who states that he discovered them in high mountain meadows, surrounded by peaks 10,000 feet in height. They were about the size of walnuts Specimens were secured for exper mental culture in other localities.

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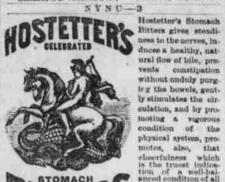
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