Film of Marine Garden.

a depth of twenty-five feet.

Photographer Uses Bed of Ocean as Studio to Take Motion Pictures of Sea Life off Bahamas

of moving pictures has been made which will be exhibited before scientific men next Thursday at the Smithsonian Institution that are the most

Thursday afternoon a party of scien- of the ordinary diving suit several tific men will gather at the Smithson- years ago. ian Institution to view the result of long-lost ships, the fierce struggles of basic patent. giant sharks with each other and with . The main feature of the invention is

their prey, the smaller fishes.

below the surface. Dr. Rathbun in Charge.

The exhibition Thursday will be un- operating chamber. der the direct charge of Dr. Richard

been reached, that with the moving that would show the actual conditions, where Columbus's ships first dropped picture bringing all parts of the world on the bottom and the daily life of the anchor in the New World. The Williamachievement would take a rest. But abound in the waters of the tropics. the unexplored depths of the sea, so The apparatus used was a curious filled with mystery and romance, were mechanical contrivance, the invention yet to be plumbed, and it has been of Capt. C. Williamson, of Norfolk, the moving picture machine that has Va., who began working to perfect an invention that would take the place

It was his idea that some means sea bottom off the Bahamas, with a could go down into the water unhammoving picture camera. Not only will pered by weights and ropes and comthere be displayed the beauties of ma- pressed air and water pressure. His rine vegetation and of life below the experiments extended over a long water line of the world, but there will time, but finally he was successful, also be shown the moldering bones of and the Government granted him a

the tube. It is made of steel, in sec-As a climax, there will be shown a tions of varying lengths. Each section series of pictures of an actual fight is composed of an upper and lower between a man-eating shark and a flange, and these are connected by a diver, staged for the purpose of making set of steel hinges, so arranged as to open and shut, but at all times to fit There are more than 20,000 feet of against each other so closely as to be coast near Southern California, but upon film, showing the ocean depths that water-tight. Some of the sections have the advice of Dr. Townsend, curator of were made at a depth of eighty feet only one set of hinges, and when collapsed the flanges rest upon each other. To the bottom section is fitted the

Rathbun, assistant secretary of the The idea of taking submarine motion institution and director of the Na- pictures came to the sons of the intional Museum. Dr. T. W. Vaughn, of ventor while watching the projection the Geological Survey, will tell the of a scientific film showing fish swimassembled guests something of the ming in a small glass aquarium tank. made, as Dr. Vaughn was present at and his brother, George M. Williamson, aboard the Carnegie Institute yacht, development of the tube. They had ocean, and to these three young men runner that came to grief while seek- in the monster's vitals.

drew the plans for a vessel from which that destroyed the fine ships they once to lower the tube and chamber.

five feet long and five feet in diameter colored fish. at the large end project horizontally. This cone penetrates the sphere, and a long season of investigation of the should be developed by which a man at its small end, where it is eighteen inches in diameter, a steel bulkhead is ing from fifteen to twenty-five feet, ac- around the Bahamas abounds in sharks, fitted. In this bulkhead there are two cording to the surface of the bottom. and a film that has no counterpart in glass ports, three inches in diameter, and placed one above the other with across the tide and then slackening the of a battle between two of these monabout five inches between them. They cables on one side and taking in those sters. There have been many fish films are the eyes for the photographer and on the other, it was possible to let it taken in tanks at aquariums, and from the camera. The large end of the cone swing with the tide. While it was the surface, but the tank has never is closed by a piece of plate glass an swinging, Mr. Gregory, down in the been built that could stage the specinch and one-half thick and five feet chamber, turned the crank of his tacle made by those sharks. in diameter. It was manufactured in

> is optically flawless. first pictures be taken on the Pacific it and striking the white coral bottom armed with nothing but a short knife the New York Aquarium, the Bahama Islands were selected as being richest in varied forms of marine life and variegated coral. Gregory Takes Picture.

The Williamson brothers had charge of the entire outfit-its preparation, construction and operation. They secured Carl L. Gregory, of the Thanhouser Film Company, regarded as being one

[From Washington Times.]

With the floor of the ocean as a studio, the beautiful vegetable and coral growths for background, a series of moving pictures has been made

which was making marine surveys in the surveys in the same locality when the picture of Norfolk Harbor and seen fish swimming about as they looked through the glass ports. They set about arranging experiments, and secured excellent snapshots with an ordinary of focus. Besides, the problem of finding focus. Besides focus. Besi

a diver and a suit was borrowed from one. Prior to starting work with the the Colonial Government. Although he camera, Mr. Gregory cruised around had never been beneath the surface in The experiments in the waters of first successful motion pictures ever the waters near Nassau, carefully this sort of garb before, Mr. Williamson unusual ever taken. It would seem that the limit of human ingenuity had been reached, that with the moving boat. Whenever a spot of unusual sending them aloft in a wire basket atbeauty was seen it was buoyed. So together on a celluloid film, scientific many forms of sea life that son boys designed a special chamber were the old wrecks that could be disphotographic work and also cerned resting against the very reefs the chamber, was photographing him. Many, many feet of film were made

were. The prettiest stretches of coral This chamber is a hollow sphere of reefs were similarly marked, and so fish that abound in the Bahama waters. steel with an inside diameter of five were the caves in the bottom that were Some were caught as they swam about From its centre a cone of steel the abodes of thousands of brightly- in their natural haunts among the coral reefs, and others, by means of a baited line, were drawn close up to the The first film was made in the cele- chamber. brated Marine Gardens at a depth vary-

As in all tropical waters, the sea By mooring the barge to four anchors the annals of photography was secured camera and photographed a panorama Many stories have been written of

Germany especially for the purpose and of sea bottom. The clearness of the hand-to-hand conflicts with man-eating water and the perfect illumination af- sharks, but when it comes to finding a forded by the sunlight coming through rative diver who will actually go down and engage in a single-handed combat character of the man, rather than the Nearly everyone who has toured in with one of these brutes, it means contropical waters has seen the native siderable more effort than an exercise most interesting of the films is that and paper.

which shows these boys while they are Such a man was at last found, and beneath the surface fighting each other motion pictures made of a naked diver interested, clear and decisive in his for the elusive bit of silver. Sometimes meeting one of these kings of the deep opinions, the master of perhaps the three of them were caught at once in his own element and with a long, struggling to get the piece of money at sweeping stroke of his keen knife dis-For the first time in the world photo- darts toward him with open mouth, manner in which the pictures were These two boys, J. Ernest Williamson of the most expert photographers in graphs were taken of a deep-sea diver escapes the yawning jaws as a matador the country, to make the first photo- working on a wreck. Near Nassau dodges a bull, and with one swift thrust the time as a member of the party had worked with their father in the graphic film ever taken beneath the there is the hulk of an old blockade of quivering steel lands a death stroke

JOHN LEWIS, of the Toronto Star. Treasurer of the Canadian Press

eye while the right, wide open, gleams with intelligence and high spirits. His pronunciation unlike that of Sir Wilrid, is entirely free from the American accent, but it is more reminiscent of his native French than the speech of Sir Wilfrid, in whose English there is no hint of the fact that he did not The Three Canadas.

But it is the impetus of mind, the

strength of conviction and the high externals of manner, that are the source of the impression he conveys. black boys dive for coins. One of the of a fertile imagination with a pencil Obviously here is one who has to be reckoned with in forecasting the future of Canada. Able, resolute, dismost solid phalanx in Canadian politics-it is important that we should emboweling an immense shark which ascertain what he is out after, to what sentiment of patriotism and to what ideal of government he is attached, if we would understand the drift of events. For the future of Canada is not the least obscure and perplexing of the many problems affecting the future of the British Empire. Everywhere the artificiality of The Dominion to begin with is not a that structure is today becoming ap- unit. There are at least three Canadas parent, everywhere we are confronted with difficulties that seem insoluble. is predominantly French and Catholic, Directly a test question like that of that of Ontario where the British citizenship is applied the unreality of the position is apparent. We call West, where a stream of immigration the Indians our fellow subjects, but is pouring into the country from the when they ask for admission to a United States. The question here is British colony we have no power to not merely whether Canada will report is closed against them. And nowhere is the Imperial posi- The influences that are playing upon

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as separatist. The industrial East support their claim and every British main under the British flag: it is wants protection; the agricultural whether Canada will remain Canada. West wants free trade. The East

ONE HUNDREDTH BIRTHDAY OF A GREAT

it would be unpardonable to allow title-page till the last edition of his stupid, dogged, engrossing clerk, the hundredth anniversary of the works; and Swift oly owned one probably," exclaimed myself, or some first publication of "Waverley" to out of his thousand and one pubpass unnoticed. Certainly it marked an epoch in our literary history, and everybody knows that the turning-point in Scott's dual career as poet and novelist. It was on July 7th, 1814, that Sir Walter took the world by storm by the first volume of "Waverley's" three anonymous volumes. He did not publicly avow the parentage, either of these successors, until stable's failure, twelve years later, stripped what little veil remained from that transparent mystery. Restoring Olympus.

inner history of the"Waver-Byron had lately awakened to find labors upon overlooking eyes. The himself famous, and Scott, who in story, as told by Lockhart, is worth 1813 declined the laureateship in repeating. He explains how, in favor of Southey, was perhaps too June, 1814, he happened to be spendready to acknowledge that the ing the evening with his friend their case attempt any real conceal younger man had supplanted him in William Menzies, afterwards one of ment, even though he carefully abpopularity as a poet. The comparative failure of "The Lord of the Isles," a little later, seemed to con- When my companion's worthy

"Well, well, James, so be it," cheery resignation, when the printer told him how matters stood with "The Lord of the "But, you know, we must we must stick to something else." And with that he went on with the wonderful series of prose romances which began to make their appear-

ances just a hundred years ago. How "Waverley" Was Written. What really induced him to insist upon the secrecy of authorship for so many years it is difficult to say, various reasons have been advanced. "I do not see how my silence can be considered as imposing on the public," he wrote to his friend Morritt, of Rokeby and the "Venus of Velasquez" fame, whose own "letters," by the way, are about to be published by Mr. Murray. "If I give my name to a book in the case of his averring facts

In an age of centenary celebrations Mackenzie never put his name in a when I am not at my books." "Some lications. In point of emolument. much money by withholding my name; and what should I gain by it, that any human being has a right to consider as an unfair advantage: In fact, only the freedom of writing trifles with less personal responsibility, and perhaps more frequently than I otherwise might do."

The Magician at Work. Long before he dreamt of becoming his son-in-law and biographer, Lockhart caught a fleeting glimpse of the novelist at work at this period. novels is curiously interesting. heedless of the effect of his titanic

father and uncle, after seeing two or three bottles go round, left the juveniles to themselves, the weather being hot, we adjourned to a library. which had one large window looking northwards. After carousing here for not droop, for we can't afford to an hour or more, I observed that a daily and hou give out. Since one line has failed, shade had come over the aspect of in his present an hour or more. I observed that a daily and hourly topics of discussion my friend, who happened to be placed immediately oposite to my-self, and said something that indi-

cated a fear of his being unwell. "No," said he. "I shall be well enough presently, if you will only let me sit where you are, and take my chair; for there is a confounded hand in sight of me here, which has another novel often bothered me before, and now it won't let me fill my glass with a with him accordingly, and he pointed out to me this hand which. like the writing on Belshazzar's wall, disturbed the hour of his hilarity.

"Since we sat down," he said, "I have been watching it—it fascinates without writing it, unquestionably my eye—it never stops—page after that would be a trick. But, unless page is finished and thrown on that my eye-it never stops-page after case of his averring facts heap of MS., and still it goes on un-he may be called upon to wearied—and so it will be till candles defend or justify, I think an author are brought in, and God knows how may use his own discretion in giving long after that. It is the same every or witholding his name. Harry night—I can't stand a sight of it

Replica of Columbus' Ship

other giddy youth of our society. "No boys," said our host, "I well know what hand it is-'tis Walter Scott's.'

That was the hand which, in the evenings of three summer weeks, exactly a hundred years ago, wrote the last two volumes of "Waverley." Scott Insists on Anonymity.

All Edinburgh was soon busy in identifying not only the author, but also the originals of "Waverley" portraits. "Jeffrey," wrote the Great Unknown to Morritt, two days after the publication of the first volume, "has offered to make oath that it is his affidavit ex contrario: so that these authorities have divided the town." The mystery failed to deceive nis intimate friends; nor did he in ment, even though he carefully abstained from formally confessing to most of them. Lockhart was probably correct in holding that the mystification never answered much pur pose. It was doubtless sufficient for Scott "to set the mob of readers at gaze, and above all, to escape the annoyance of having productions, actually known to be his, made the

One report had it that the novel was the work of Scott's brother Thomas, who had gone to Canada as paymaster of the 70th Regiment and it amused the real author to encourage this idea. He even invited his brother to join in the plot, by sending over the raw material for

His Brother as Mask. "I will give it all the cobbling

that is necessary, and if you do but exert yourself, I have not the least doubt it will be worth £500; and, to encourage you, you may, when you send the MS., draw on me for £100, at fifty day's sight-so that your labors will not at any rate be quite thrown away. You have more fun and descriptive talent than most people; and all that you want, i.e., the mere practice of composition, I can supply, or the devil's in it Keep this matter a dead secret, and look knowing when 'Waverley' is spoken of." Nothing came of this, but Scott continued to disown his novels. When he sold to Constable the remaining copyright of the four works published between December, 1819, and January, 1821—"Ivanhoe,"
"The Monastery," "The Abbot," and 'Kenilworth" - the stipulation was that his name was not to be revealed

least £10,000 before this bargain was than a year? What Might Have Been.
The first series of "Tales of My
Grandfather." which had followed
"Waverley," in 1815, had been secured by the first William Blackthen rising into prominence as an Edinburgh bookseller-publisher, in co-operation with the sec-

under a penalty of £2,000. For the

remaining copyright of the four novels he had already cleared at

ond John Murray; and it would have been well for Scott had he remained in their hands. Unfortunately, young Blackwood, who took the literary side of his craft very seriously, ventured, when he saw one of the tales in proof, to suggest a different conclusion. Scott was furious. "G-d- his soul!" he wrote to Ballantyne, his printer, who acted as his agent in the matter.
"Tell him and his coadjutor that I belong to the Black Hussars of literature, who neither give nor rt-ceive criticism."

"Probably, says Mr. Oliphant, "ruin would never have overtaken Sir Walter had he been in the steady and careful hands of Murray and Blackwood, for it is unlikely that even the glamor of the Great Magician would have turned heads so reasonable and

Minard's Liniment Company, Limited: Gentlemen-Last August my horse was badly cut in eleven places by a barbed-wire fence. Three of the cuts (small ones) healed soon, but the others became foul and rotten, and though I tried many kinds of medicine they had no peneficial result. At last a doctor advised me to use MINARD'S LINIMENT and in four weeks' time every sore was healed and the hair has grown over each one in fine condition. The Liniment is certainly wonderful in its working. Witness, Perry Baker. HOLDEN.



Typical Poster Used In Ulster

This "Orange Proclamation" bore the following legend: "The constabulary are respectfully warned that the search for arms in Orange lodges is highly

MR. BOURASSA A REAL IMPERIALIST, SAYS EDITOR OF THE LONDON LEADER

ure to be met with in London today Sidney Smith, but a poem in a frockis Mr, Henri Bourassa, the leader of coat. And if Mr. Bourassa is withthe French-Canadians, who is on one out the eighteenth savour which gives of his not infrequent visits to Europe. "When I die," Sir Wilfrid Laurier is statesman, neither has he the enigdeclared to have said long ago, "Mr. matic quality which always leaves Bourassa will be king in Quebec." one wondering what is the thought He is king in Quebec already. It behind Sir Wilfrid's grav and grawas the desertion of the French-Cancious manner. adians who dominate Quebec from his standard at the last election which was largely responsible for the tivates no discreet and perplexing downfall of Sir Wilfrid and that desertion was due to the influence of Mr. Bourassa.

It is not difficult to understand completed, thus making in all £15,- It is not difficult to understand 000 for the fruits of scarcely more that influence in the presence of this alert and engaging Frenchman. He has not of course the grand air of Sir Wilfrid who, as someone said, is "a picture gallery all to himself." But then there is no one in the Eng-lish-speaking world today with the grand air of Sif Wilfrid, no one who comes trailing such clouds of glory from the past. He is not "a book

Perhaps the most interesting fig- in breeches," as Macaulay said of

You will no be long in doubt a to Mr. Bourassa's thought. He culsilence, but talks with the eager enthusiasm of a full and untrammelled mind. In repose the face is not distinguished; but in conversation it becomes extraordinarily animated and is lit up by a quick responsive smile by the habit of screwing up the left

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are plainly on the bottle. Keep it handy in your none.

little given today saves a sick child tomorrow, but get the genuine. Ask your druggist for a 50-cent bottle your druggist for a 50-cent bottle. Keep it handy in your home. f "California Syrup of Figs," then "California Fig Syrup Comp Counterfeits are being sold Don't be fooled!



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production of the Santa Maria, in which Christopher Columbus crossed the Atlantic and discovered America, is now making a tour of the great lakes and is calling at a number of Canadian ports. The craft is en route from Chicago to San Francisco, going via the Panama Canal to be shown at the Panama Exposition. Ler length is 94 feet over all and her beam is 25 feet