

RECENT SCIENTIFIC ADVANCES

THE OREGONIAN'S HOME STUDY CIRCLE DIRECTED BY PROF. SEYMOUR EATON

Notes—These papers on Practical Science have been prepared for The Oregonian's Home Study Circle by Prof. William L. Hopkins, of Drexel Institute.

LIQUID AIR

The "Permanent Gases." But a short generation ago, as generations are usually reckoned, men still spoke with some confidence of the "permanent gases." This term, when it was introduced, meant those substances which occurred only in the state of gas, such as oxygen, nitrogen and hydrogen, and which it was originally thought could not possibly be made to become liquid or solid.

As interest in the matter grew and successive experiments, scattered, perhaps, over long intervals of years, accomplished the change for one gas after another, the most interesting substances which occurred only in the state of gas, such as oxygen, nitrogen and hydrogen, and which it was originally thought could not possibly be made to become liquid or solid.

Notes—This study will be continued on Tuesday, February 21.

RICHARD ELBERT PERRY.

Soldier of Second Oregon, Who Died at Manila—Interment in Yamhill.

SOUTH YAMHILL, Feb. 17.—(To the Editor.)—At the request of many friends of the late Richard Elbert Perry, late private, company A, Second Oregon volunteers, who died at Manila, P. I., whose remains were returned here to his parents last Saturday, and whose funeral was held Wednesday, the 14th inst., I enclose you the full address made by Mrs. Nettie Olds Fisher, requesting the publication of the same in The Oregonian.

Funeral Address.

Sad as is this day, there is yet a sweet pleasure attending it. It is the day when we bid adieu to one who has been given to us by our own, and are permitted the one last opportunity which mourning love so often craves, of laying with him in his own native land, in the soil he knew and loved, amid the scenes of home and friends, which in life were his joy and pride.

Both Davy and Dr. Paris were to dine out, and the doctor, finding himself dressed with time to spare, dropped in at the laboratory of the Royal Institution, where Faraday, the assistant, had been left to work. He found Faraday "hunting something in a tube, and glanced at and analyzed the gas which was being produced.

This was the beginning, and it was not long before Faraday and Davy had succeeded in converting the liquid form several gases, including ammonia, carbon dioxide, carbon monoxide, and carbon disulfide, or "carbolic acid gas." This carbon dioxide is a gas of the most common occurrence. It is produced by respiration, and by combustion of any kind.

There came now a break of many years in Faraday's work upon gases, and in the interval the most important discovery prominently is probably that of Thilorier. He succeeded in producing liquid carbon dioxide in large quantities and in solidifying it at 100 degrees below zero.

Others were working at the same problem, but none of them succeeded in solving it, although Natterer produced in his apparatus the enormous pressure of 260 atmospheres—about 5,000 pounds to the square inch.

The passing of the "Permanent" Gas. At the meeting of the French Academy for December 18, 1877, two communications were read. One from Callièze, and had been in the care of a member of the Academy for three weeks. In it Callièze wrote, under the date of December 1, 1877: "I have to tell you first, without losing a moment, that I have today liquefied oxygen."

A CATHOLIC RESPONDS

ANSWER TO THE QUESTION, WHY IRISHMEN DISLIKE ENGLAND?

Catholics Have Been Faithful to the United States Government—Many of Them in Maine's Crew.

SALEM, Or., Feb. 17.—(To the Editor.)—Having remained silent through all the varied expressions of sympathy with Boer and Catholics in the columns of The Oregonian, I desire to say a word at last, especially as a demand has been made which calls for one of my birth and belief to come to the front.

I want to say, to begin with, that I have taken very little interest in the discussion relative to the merits of the combatants in the Transvaal war, nor do I care a fig for the Boers, who are numerous here. I do not recognize the Boer as a model of civilization or his government a pattern for emulation; neither do I consider that Great Britain is actuated in that regard by any more than a desire for aggrandizement; hence, as an American citizen, I don't think I am called upon to interfere in the scrap now going on.

Youth is hopeful, youth is joyous. The future is radiant with all that ambition craves. Kind nature withholds from youthful eyes those scenes of discouragement and trial which, too often, cause the aged to sigh for the relief of death. Then can we not today rejoice that our young friend drank life's cup to the dregs, without tasting a morsel of sorrow? What while his bark tossed lightly on the waves in the bay, it went suddenly down, escaping the madly foaming billows just beyond life's harbor bar?

As for death itself, our young friend had no fear. His life was testimony of his belief that if one does his whole duty as he sees it, he goes forth with brave and loving hands to meet his God, and the right as it appears to him, without hope of reward or fear of punishment, he builds with his own efforts that which immortalizes him in the hearts of those whom it was his duty to help.

Thus we know that it is not for us to serve the dead. Our service is meant for the living. If his young life was so lived that we know he is entitled to the respect that nature gives, then we should strive to make conditions possible for other lives to be as nobly lived. Let us honor the dead by helping the living. Let the example of his noble life be a reality, his consecration to all that was purest and best in life, be to us an inspiration to nobler efforts and truer lives.

AN ATTACK RESENTED. Spirited Reply to Unwise Assertions of Germans and Irish. PORTLAND, Feb. 16.—(To the Editor.)—I have read a communication in your issue of the 14th inst. from one calling, or signing himself, "our Irish neighbor," and to see that he is so poorly informed in regard to the war in South Africa, and, furthermore, I notice his prejudice in regard to the Irish and Germans.

As a general rule, do not hate the English, as individuals, but do so as a nation, as they look upon the English governing power as a land-grabbing power which arrogates to itself the right to want certain parts of the world, and its wealth, as, for instance, the Transvaal. "Common Sense" uses very little sense when he wants to have us believe that England was our friend in our war with Spain, and if that be true, that we should stick to her now, whether she is right or wrong in her war with the South African republic.

"Common Sense" is very cautious, as he even withheld his name from the public, showing him to be either a man with very little sense or too much prejudice to allow his name to be seen by the public who read The Oregonian. He also says, in regard to the Catholics, that they are meddling in this war, especially the Irish, but it must be remembered that the Boers are not Catholics, but either Lutherans or Protestants, and this is well known by most people.

Belief and St. Peter. PORTLAND, Feb. 16.—(To the Editor.)—For Mr. Gibson's information: Belief is the substance of things that are not seen. The evidence of things that are not seen. Taking a Bryan's view of the matter, the only way that some people will ever stop being so stupid as to put their earthly beliefs at the disposal of their passions, which in turn turn it to the benefit of the world.

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But, there are probably 100 men in Oregon of undoubted veracity who could give personal evidence to substantiate these assertions. England, Scotland, Canada and Australia have not passed through the same awful tragedy. Can Mr. McPherson see any reason to justify a difference in feeling toward the British crown? The Celt has a long memory for either kindness or outrage, and through the same awful tragedy, the latter into his every bone and fiber as each turn in his existence that he has little else to think of.

Mr. McPherson asks: "Some good Catholics to explain why they did not arise in their might and do something for Cuba in her 19 years' war for liberty?" My impression is that the voice of the Catholic Irishman was a strong sympathy in existence and that the Catholic Irishman was as numerous as any other in the ranks of those who carried the Stars and Stripes to the Cuban soil.

The great principles upon which the contention of Irishmen is founded are outside of the pale of any particular church or creed. The religion of the Spaniards and the Cubans were not different, just as much sweetness in it coming from an English Protestant government as if that government were Catholic, Hindu or Mohammedan.

PROTECTION OF DEER. Enforcement of the Law Desirable for Various Reasons. EUGENE, Or., Feb. 15.—(To the Editor.)—I noted an article in The Oregonian a few days ago, from Mr. Wheeler of Greenleaf, stating that the local sentiment in his locality is not in favor of enforcing the game law.

Mr. H. L. Myers, 100 Mulberry Street, Newark, N. J., says: "I contracted a terrible blood disease which broke out into sores all over my body. I spent a hundred dollars with doctors but grew worse instead of better. Many blood remedies were also used with no effect, until I decided to try S. S. S. This remedy secured me to get at the seat of the disease and cured me completely and permanently."

A Badly Sprained Arm. DR. RADWAY & CO.—DR. RADWAY, 225 Broadway, New York, N. Y., writes: "I had a badly sprained arm. After using six different (what was called) remedies I was told to use Radway's Ready Relief, which secured the pain at once and cured me in two days. I feel that Radway's Ready Relief is the best of all medicines. I will keep it in the house the next time I am in New York."

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THE PALATIAL. The best of women may be the worst of sufferers. Disease is no respecter of persons. The regular periodic suffering of many women is calculated as aggregated ten years of life between fifteen and forty. Such a tax of pain and time is utterly unnecessary. In all cases the sufferings of women are due to irregularity and like causes may be alleviated, and in most cases they may be completely cured by the use of Dr. Pierce's Favorite Prescription. This wonderful medicine is not a cure-all, but a specific remedy for diseases affecting the delicate womanly organs. It cures, completely, irregularity, ulceration, inflammation and female weakness and gives the enfeebled organs health and vigor.

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Copper Colored Splices. Mr. H. L. Myers, 100 Mulberry Street, Newark, N. J., says: "I contracted a terrible blood disease which broke out into sores all over my body. I spent a hundred dollars with doctors but grew worse instead of better. Many blood remedies were also used with no effect, until I decided to try S. S. S. This remedy secured me to get at the seat of the disease and cured me completely and permanently."

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