Dr. T. J. Glover, of Toronto, has ac-

tually found and isolated a micro-organ-

cause of cancer. The utter failure of

intensive and painstaking laboratory ex-

Glover's discovery, as recorded in a

cable message from Philadelphia on

Tuesday; but the statement of a reput-

able journal, The North American, that

publication of the information collected

by Dr. Glover has been withheld for 15

months in the interests of science, has

gone far to awaken among leading Aus-

tralian medical practitioners lively in-

terest in the claim presented. The

Prime Minister has intimated that the

through the agency of Mr. Donald Mac-

kinnon, Australian Trade Commissioner

in New York-make the fullest investi-

gation regarding the outcome of Dr.

Glover's experiments. As Mr. Bruce

remarks, the discovery of a cure for this

dreaded disease is a matter of enormous

importance. In the House of Represen-

tatives recently, Sir Neville Howse, who

had been appointed by the Federal

Ministry to investigate cancer treatment

in Europe, appealed for the foundation

of a Cancer Research Institute in the

Commonwealth. He emphasized that

the increase in cases of cancer in Aus-

tralia latterly is an alarming fact. One

out of every eight persons who live to

a reasonable age falls a victim to the

malady. Dr. Mayo, a visitor to Mel-

bourne, has somewhat mitigated the dis-

quiet on the subject by explaining that

the statistical increase is probably due

to better methods of diagnosis, and to

the changed age distribution of the

lic health the average duration of life

has increased, and as cancer is prevalent

mostly among persons who have passed

the age of 45 years, the numbers who

are liable to be attacked by it have been

augmented. But the growing mortality

from the malady in Australia renders

urgent the need for unremitting scien-

tific investigation to elucidate its causes,

and to discover a possible cure. There

are two schools of thought in reference

to the war against the disease-those

who believe in the existence of a de-

finite causative infective organism, and

those who think that cancer is not in-

fective in origin, but a wild growth of

tissues due to the removal of ordinary

controls of normal growth. As Dr.

Charles Kelleway, of the Melbourne

Hospital, observes, it is claimed that Dr.

Glover has recovered the infective or-

ganism from each case experimented

with, and with it has infected other

healthy tissues. If this be demonstrable

by independent investigators, it repre-

sents an advance in medical science

which may rank with the great dis-

While the conviction is commonly pre-

valent that cancer can be successfully

combated only in its earlier stages, by

means of surgery, evidence is said to be

forthcoming that the disease is amen-

able to medical treatment. American

technical journals, including The Medi-

cal Record of New York, have printed

articles which maintain that cancer is

a blood disease, and may be dealt with

as such. Dr. Robert Bell, Medical

Superintendent of the Battersea General

remarkable cases from his own experi-

ence "as evidence of the benefit derived

coveries of Lister and Pasteur.

With the general improvement in pub-

people.

will-

Commonwealth Government

ticles which were absorbent, such as sea salt proved effective. The character of

puelei was not yet very definitely known.

The knowledge of the higher atmosphere

was derived from balloons and aeroplanes,

which reached a height of five or six

miles. Balloons with recording apparatus

had been sent up to a height of ten miles.

was that the temperature keptgetting lower

to about 60 degrees below zero on the cen-

tion of temperature occurred, though

there might be a tendency for it to rise

matead of fall. The two chief sources

of information regarding still further

heights were the passage of meteorites and the observation of the aurora. The flight

of meteorites had been systematically ob-

served. This was a field of observation

which had scarcely been touched in Aus-

tralia. From these observations it was

thought that the temperature in these re-

gions was as high as that near the earth.

The aurora had been examined both spec-

observations were taken from two posi-

tions, and the height of auroras was thus

ascertained. Auroras very rarely reached

below fifty miles from the earth. Obser-

vations had also shown that their height.

almost credible distance. Auroras were

produced by radiations from the sun, and

were related to sunspots, Whenever

auroras appeared there was bound to be

a violent magnetic storm. Sunspots,

expressions of the one phenomenon. The

radiations which produced auroras were

either Alpha or Beta rays, and it was

probable that both types of radiation oc-

nor helium in the upper atmosphere.

RAW SALT AND GOITRE.

positive knowledge,

## DANTE.

## LECTURE BY PROFESSOR PHILLIPSON.

In the Unitarian Hall on Wednesday evening. Professor Coleman Phillipson delivered a lecture on Dante before an interested audience. The 600th anniversary of Dante's death was celebrated last year, and the lecturer dealt with the life. work, motive power of the work, and the spirit of Dante. Professor Phillipson said that 600 years

ago one of the greatest of the sons of men passed away. The soul that blossomed in the world in joy and ecstasy passed under a solemn cloud in anguish and travail. Then he emerged in triumphant victory and glory. It was a remarkable age in which Dants lived. Flotroscopically and otherwise. Theodolite rence, that city of flowers, was in many respects a mediaeval counterpart of Athens. Into this age, and in this city, Dante Alighieri was born, between May 18 and June 17, 1265. The name Dante was as much as 600 miles. This was an was a shortened form of Durante (Enduring), and Alighteri was originally Aldighieri, meaning "Wisdom of the spear." There was little information concerning his early life. He was left a young orphan, and his education was entrusted suroras, and magnetic effects were all to Brunetto Latino, a statesman, diplomatist, and scholar, and later he studied the seven liberal arts of the time in the University of Bologua, The lecturer outlined the political dis-

curred, but on this point they had not turbances in Florence about the time when Dante reached manhood, and the Spectroscopic analyses of auroras had events which led up to the banishment of shown a green line which was not due the poet. In 1290 Beatrice, who had to any known gas. Lord Rayleigh, the for three years been the wife of a noble son of the great physicist, had shown that Florentine, died, and her death was this green auroral line was also present another important turning-point in in night light as well as in the aurora. Dante's life, for it impelled him to im-Other unknown lines had also been found mortalise her, and express his wonder in night light and auroras. These lines ful admiration. About two years later he had not yet been produced by artificial married Gemma Donate- His domestic means. In all probability they were due life did not seem to have been happy. It to some ordinary gas under extraordinary that respect it resembled the experience excitation. Spectroscopic analyses had of Milton with Mary Powell. For nearly shown that there was neither hydrogen 20 years Dante was a homeless wanderer on the face of the earth. In 1310 he Dealing with electrical phenomena of made a final attempt to re-enter Florence the atmosphere, Professor Grant said he He hailed the Emperor, Henry VII., or would pass by the common phenomena his arrival in Italy, as the coming savious of lightning, many of whose manifestations of the country. But the death of Henry still remained unexplained, but they might soon afterwards crushed the poet be due to extraordinary electrical currents hopes. He withdrew to a monastery to from the earth. At all times and in all a time, in the mountains of Gubbio, and places the earth was discharging negative worked at his Divine Comedy. Finally electricity into the atmosphere. This was the poet travelled to Ravenna, where h a profound mystery in the field of terres- died on September 14, 1321, shortly after trial physics. There seemed to be posi- having finished his Davine Comedy, Such tive evidence of a radiation of an ex- was the tragedy of his life. But his in tremely penetrative type in the air. This ner life! What a contrast to the pitiful radiation must be ten times as penetrat | ruin of his worldly existence. It was a ing as the strongest rays of radium. An long pilgrimage, embarked upon by a far attempt had been made to explain this seeing, unconquerable soul; inspired, ani phenomenon by postulating a layer of mated, and uplifted by an unfalterin radio-active dust in the upper atmosphere, love and devotion, and leading at last t but this theory did not appeal to the lee- a giorious triumph. His spiritual autiturer, and the thing remained a profound biography could be read in his works. I mystery. There were still some very in- began in the "Vita Nuova" (new life) teresting problems to be solved in connec- and was completed in the Divine Comedy

A wonderful picture of the vision Dan had of Beatrice was drawn by Profess Phillipson, who said that undoubted the vision made Dante a poet. Dante love obviously resembled the love of mo poets, for his attitude towards Beatri was characterised by the most tend purity, shrinking reverence, tremulo worship, and sacrifice. Beatrice died the age of 24, and then he knew the s preme pangs of bereavement and t agony of desolation. The theory th Beatrice was only a symbol throughout, an abstract ideal, was unacceptable. cause of circumstantial details mention by Dante, and in general, because psychological exigencies; the theory the Beatrice throughout represented a woman was untenable, on the gro of the superhuman transfiguration. lecturer described the visionary jour of Dante, guided by Virgil through nether regions and Purgatory, and P. by Beatrice through heaven. The

grimage itself, he said, might well be taken to symbolise the ascent of the soul; the tribulations it experienced on the way; the difficulties it overcame, and the joy, and serenity attained at last. obscure forest had been interpreted in many ways-for example, youthful aber ration, exile, worldly troubles, a maze e civil discord, or moral disorder. panther, the lion, and the wolf might mean the temptation of the world. the lust, pride, or avarice, or Florence, Rome, and France. The mountain the were prevented from ascending might be the steep hill of virtue. Virgil might emblematic of human intelluct, sala and knowledge, and Beatrice of divine wisdom and revelation. The work first and foremost poetry, and it was " poetry, and not because of its subtice theological, philosophical, political, of moral interpretation, that if possessed an enduring appeal to discerning minds.

by treating victims of this inveterate scourge upon rational lines as opposed to operative measures." The treatment in A most noteworthy bacteriological these cases consisted chiefly of a retriumph, of the highest value to formed dietary. The food given to the humanity, will have been achieved if patients was mostly composed of the

and the most important fact ascertained juice of uncooked vegetables, fruit, milk, ism which shall be proved to be the and eggs. Commenting upon Dr. Bell's tigrade scale. At greater heights no variatestimony, Lord Dysart remarks that "Well-known doctors with the experiperiments during the last 30 or 40 years ence of many years of cancer investigato reveal the origin of cancer, and the tion tell us that cancer is caused by the distressing folly of encouraging in suf- dietetic errors common to civilization, ferers hopes which may be doomed to and that it can not only be avoided, but disappointment, render desirable ex- in many cases, actually cured, when treme caution in the consideration of these errors are corrected. . . . The the claims advanced on behalf of Dr. question of the dietary, in its relation to cancer should be thoroughly explored." Not long ago Dr. Frederick Alexander, Medical Officer of Health for Poplar, expressed himself as being in agreement with the views of Dr. Forbes Ross, that cancer is caused by a deficiency of potassium in the system due to the systematic observance of erroneous dietetic and culinary methods. He suggested that a circular should be printed and distributed setting out the best methods of cooking vegetables, shortly stating the reason for their adoption, and the resultant benefits. Persons suffering from rheumatism and kindred complaints are dieted; and it is deemed to be not unreasonable to suppose that by correcting dietetic errors, and nourishing the body with entirely suitable foods, cancer may at least be averted, if not arrested or cured.

adulteres

## THE ATMOSPHERE.

RECENT INVESTIGATIONS.

## GRANT.

sided.

The lecturer said there were points of contact between his subject and astronomy. One of the charms of the advance in science was that it increased people's imorance as well as their knowledge of the universe. There were many different aspects of the earth's atmosphere, but he would deal with only one or two of them. Prior to 1894 not a great deal was known of the rarer gases of the atmosphere. Lord Rayleigh and Sir William Ramsay, however, had found a new gas which , had hitherto been identified with nitrogen, and called it argon. Exhaustive tests were made from the residue of liquid air, and four new gases were discovered, including helium, hitherto unsuspected as constituents of the earth's gases. These were called inert gases. as they did not mix with the other gases, Helium was lighter than hydrogen, and was used in the United States for dirigibles. The rare gas argon was used for illing electric lamps, and the result was a much higher efficiency in the lamp. Neon, another rare gas, was also used for electric lamps, and had the great merit of using very little power.

These gases, Professor Grant explained, had been of extraordinary value to chemists in their researches into the structure of the atom. No further advances in the smentine knowledge of the lower atmosphere had been made since 1905 or 1100. Quite recently Dr. Aston, Cambridge, a Nobel Prizeman, in order to test the belief that there might be a very rare gas in the lower atmosphere, had subjected to analysis 400 tons of iquid air, and found all the gases known. nelading hydrogen, and not one other, so hat it looked as it the gases contained n the lower atmosphere had all been liscovered. The speculations about the existence of very light gases lighter than nydrogen were, therefore, probably without foundation. In addition to gases in the lower air there were both solid and liquid constituents. The liquids were mostly water, but the solids varied. including dust particles and salt from the sea. The atmosphere also contained nuclei of condensation. Dr. John Ait-Hospital. London, recently cited four ken showed that if the air was filtered through cotton wool, condensation could

not take piace. Aitken thought that any

particle of dast would be effective, but

LECTURE BY PROFESSOR KERR

"Recent advances in the knowledge of the earth's atmosphere" was the title of a lecture delivered by Professor Kerr Grant, of the Adelaide University, before the Astronomical Society on Wednesday evening. Professor Chapman pre-

> then with the earth's atmosphere. In his lecture on the earth's atmosphere, before the Astronomical Society last night, Professor Kerr Grant condemned the use of time salt in cooking. He said it had been conclusively proved that goitre was prevalent in those regions where sea salt particles were absent from the air. This was due to the action of the thyroid gland, which demanded the iodine which the salt particles contained. The fine salt used for culnary purposes had had the iodine taken from it in the refining process, and the manufacturer had made a profit out of the iodine as well as the salt. If he had his way he would prohont the manufacture and sale of refined salt, as he considered the cating of raw salt, which was cheaper, far

> > At the beginning of next month the Director of the Elder Conservatorium (Dr. Harold Davies) will leave for Brisbane, where, in conjunction with Mr. Frank Hutchens, of the Sydney Conservatorium, he will lecture on musical education and the work of the Australian board. On his return to Sydney he will meet the chief musicians of that city, at the instance of Mr. O. C. Beale, and deliver an address on the digmity of music.