

We have gathered here today  
to ~~to~~ honor the memory of Dr  
M.L. Srinivasa, one of the greatest pioneers  
of Scientific Education in India. To  
his single-minded devotion and  
energy we owe the founding, ~~and~~  
~~the~~ ~~of~~ ~~this~~ ~~institute~~, ~~which~~  
~~has~~ ~~played~~ ~~a~~ ~~great~~ ~~part~~ ~~in~~  
~~the~~ ~~development~~ ~~of~~ ~~Physics~~ ~~in~~ ~~India~~.

~~For~~ ~~more~~ ~~than~~ ~~30~~ ~~yr.~~ Dr. S. ~~has~~  
lectured in this hall, ~~and~~  
~~after~~ ~~some~~ ~~yr.~~ gave ~~exposé~~ ~~lectures~~  
later ~~developed~~ ~~in~~ ~~Physics~~  
which initiated ~~in~~ ~~India~~  
~~the~~ ~~study~~ ~~of~~ ~~Physics~~ ~~to~~ ~~the~~ ~~enthusiasm~~  
~~of~~ ~~the~~ ~~public~~ ~~and~~ ~~the~~ ~~Government~~  
~~of~~ ~~India~~ ~~and~~ ~~the~~ ~~University~~ ~~of~~ ~~Madras~~.

audiences who ~~used~~ ~~to~~ ~~attend~~ ~~his~~ ~~lectures~~ ~~in~~ ~~Physics~~ ~~since~~  
at these lectures ~~he~~ ~~has~~ ~~received~~ ~~valuable~~  
mission ~~of~~ ~~the~~ ~~Government~~ ~~of~~ ~~India~~ ~~and~~ ~~the~~ ~~University~~ ~~of~~ ~~Madras~~  
contribution of Dr. K. R. Ramanathan

the great education, ~~joined them~~  
and was his constant companion,  
and in later years, inspired by  
their example Miss ~~joined~~

~~joined them~~. I should like her to  
mention the lectures ~~by~~ ~~to~~ Sir  
Hantosh Mookherjee (~~he has~~ ~~was~~ a  
(he had not been knighted then) —

~~on~~ ~~mathematical~~ ~~physics~~ ~~which~~ ~~are~~ ~~referred~~ ~~to~~  
~~in~~ ~~the~~ ~~annual~~ ~~report~~ ~~as~~ ~~a~~  
~~series~~ ~~of~~ ~~lectures~~ ~~on~~ ~~mathematical~~ ~~physics~~ ~~and~~ ~~its~~ ~~application~~  
~~to~~ ~~mathematics~~ ~~and~~ ~~its~~ ~~application~~ ~~to~~ ~~physics~~;  
Even those who are familiar with the  
versatile ~~power~~ ~~of~~ ~~his~~ ~~intellect~~ ~~and~~ ~~his~~ ~~scholarship~~ ~~and~~ ~~his~~ ~~lectures~~ ~~on~~

~~the~~ ~~Dr~~ ~~As~~ ~~physical~~ ~~investigations~~ ~~indicated~~ ~~in~~ ~~his~~ ~~lectures~~ ~~will~~ ~~come~~ ~~as~~ ~~a~~ ~~surprise~~  
He shows a familiarity with the works of Kelvin, Maxwell and Rayleigh  
in ~~mathematical~~ ~~physics~~, which is very usual,

and indeed his lectures on Phys. (delivered in 1890) of which a detailed syllabus is published in ~~one~~ <sup>the</sup> annual report, <sup>of the year</sup> ~~in~~ <sup>the</sup> late scientific survey ~~is~~ <sup>is almost</sup> ~~in~~ <sup>in</sup> same form as the famous Baltimore lectures ~~delivered~~ of Lord Kelvin, <sup>which were</sup> delivered in 1844, but ~~not~~ <sup>not</sup> published ~~only~~ <sup>only</sup> ~~20 yrs~~ <sup>20 yrs</sup> later till 20 yrs later.

Dr. Sillar himself lectured on Electricity and magnetism, and he seems to have been particularly interested in the phenomena of electrical discharge through rarefied gases. ~~In one~~ ~~of~~ ~~the~~ ~~annual~~ ~~meetings~~ ~~for~~ ~~1850~~ ~~of~~ ~~the~~ ~~annual~~ ~~meetings~~

~~Dr. Sillar~~ ~~presided~~ ~~over~~ ~~of~~ ~~Lord~~ ~~Lytton~~, ~~Dr. Sillar~~ gave a lecture on "familiar oil painting" which used to hang in this hall, and which is now in ~~Dr. Sillar's~~ ~~room~~, ~~as~~ ~~been~~ ~~the~~



... further that by allowing these rays to fall upon some minerals, like apatite or ruby, low light flows into phosphorescence.

He further demonstrated that these rays could be deflected from their path with the help of a bar magnet. ~~by bringing near the~~ ~~also one of the~~ ~~poles of a bar magnet.~~

The lecturer was much appreciated. ~~general~~ ~~also~~ ~~the~~ ~~exptal~~ ~~demonstrations~~ ~~in~~ ~~particular~~ ~~created~~ ~~something~~ ~~like~~ ~~a~~ ~~sensation~~ ~~to~~ ~~the~~ ~~audience~~ ~~It~~ ~~was~~ ~~an~~ ~~unprecedented~~ ~~experience~~ ~~to~~ ~~hear~~ ~~the~~ ~~Viceroy~~ ~~was~~ ~~much~~ ~~impressed~~.

He reports mentioned ~~used~~ ~~also~~ a fortnight later of special invitation, Dr. ~~live~~ ~~repeated~~ ~~the~~ ~~expts~~ ~~with~~ some additions, at the Govt. House.

To us, ~~viewing~~ ~~these~~ ~~expts~~ ~~in~~ ~~the~~ ~~light~~ ~~of~~ ~~later~~ ~~researches~~ ~~they~~ ~~are~~ ~~even~~ ~~more~~ ~~exciting~~ ~~to~~ ~~us~~ ~~than~~ ~~before~~ ~~as~~ ~~they~~ ~~seem~~ ~~to~~ ~~show~~ ~~that~~ ~~most~~ ~~of~~ ~~the~~ ~~secrets~~ ~~even~~ ~~for~~ ~~her~~ ~~kind~~ ~~of~~ ~~retardation~~ ~~These~~ ~~expts~~ ~~are~~ ~~quite~~ ~~valuable~~

in 1880, full 15 years before the discovery  
of X-rays, and 17 years before the  
discovery of the electron.

≡ We know know that the  
stream of electrified particles, which  
whose various properties D. J. was  
demonstrating in such minute  
detail was really a stream  
of electrons, and we also know  
that ~~the~~ ~~radiations~~ ~~are~~ the greenish  
radiations produced by the impact  
of this stream on the <sup>glass</sup> walls of the  
tube, <sup>as described by Dr. Crookes</sup> there must have been  
a copious emission of X-rays.

These two discoveries when  
they were made, ~~did~~ <sup>marked</sup> <sup>revolutionary</sup>  
physics, and what is ~~now~~ <sup>now</sup> <sup>greatly</sup>  
described now as modern physics dates  
from ~~them~~ <sup>the</sup> <sup>period</sup>. That the discoveries  
had to wait for nearly 15 years before  
they were made merely serves to illustrate

how zealously Nature guards her secrets even from her accordant works. It makes the ~~(Scientific)~~ game all the more exciting. That Dr. ~~Swier~~ should

have chosen these expts, which we in case of patent. The expts ~~are~~ so full of potentialities and to ~~fact~~ were ~~so~~ full of potentialities and we Dr. Swier should have chosen them for demonstration is indeed very remarkable.

~~I spoke with him about the properties of a stream of electrons. Rept. in an envelope, and noted a few points in a gas of electrons, they have many interesting properties.~~

But he did not have to leave necessity to pursue the subject. The duties demanded his attention. The class of the last seemed to be more in line with his favorite.



~~As~~ So he was called away for a work which was full of potentialities.

A similar <sup>scientific situation</sup> ~~arose~~ <sup>arose</sup> ~~in~~ 1928, when Nature was more responsive and generous.

~~It~~ It was a triumph for Mahendral and the Institute, to ~~which~~ <sup>expended</sup> in the building of which he ~~had~~ <sup>so much</sup> care and devotion. His labours had begun to bear fruits and this <sup>it was</sup> time a very choice one. All honour

to Mahendral and <sup>his</sup> ~~the~~ distinguished <sup>Highness</sup> ~~ambitions~~ <sup>ambitions</sup> were fulfilled.

Dr. Speake & Mathendral had almost forgotten of it.

