

If you could visit our
laboratory also.

With my respectful regards

Yours sincerely
Ajit Ram Vema

BY AIR MAIL

AIR LETTER

IF ANYTHING IS EN-
CLOSED THIS LETTER
WILL BE SENT BY
ORDINARY MAIL.



Sir K. S. Krishnan F.R.S.
Director National Physical
Laboratory, Pusa
NEW DELHI
(INDIA)

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Sender's name and address:-

Ajit Ram Vema
Physics Deptt. Royal Holloway
Egham Surrey, UK

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Physics Department
Royal Holloway College
Englefield Green
Surrey England
25th April

Respected Prof.

Quite long ago I wrote to you a letter, which I hope you must have received.

As I wrote to you last time I ~~am~~ have been working on the crystal surface topography of Carborundum crystals. I have been successful in observing on its surface 'growth spirals' originating from screw dislocations supporting the idea given by Frank on crystal growth. By the application of multiple beam interferometry I have been able to show that the step height of these features

is 15\AA for type II crystal which is just the size of unit cell. I ~~to~~ have sent it for publication to Prof. Mott for Phil. Mag. I had discussed it with Frank + it will be accepted for publication.

I started this study on some of the chips of Carborundum which I had brought with me from your collection, + some of the photographs reproduced will be from those specimens. I have thanked you in my paper + I take this opportunity of thanking you personally for all your kindness.

Are you likely to come to U.K. in ~~some~~ near future? I should indeed be very happy to pay my respects to you in person. + should feel gratified

May 28, 1954

Dear Dr Verma,

Thank you for your kind letter of May 20, 1954
I am glad to know that you are now at the Birkbeck with
Professor Bernal. It is easily one of the best places for
learning the technique of structure analysis of complicated
molecules. We have at the NPL some of the essential equipment
for x-ray and electron diffraction work : 1) a good electron
diffraction camera of the Finch's design (Edwards make) 2) a
Phillips demountable x-ray tube with variable anti-cathode
and suitable filters for monochromatizing the x-rays 3) a
Debye Sherrer camera (4) a back reflection camera and ⁽⁵⁾an
x-ray Weissenberg camera (Leeds). We have also built two crystal
focusing cameras for study of fine structure of x-ray lines.

Yes, I shall be in Paris for the crystallographic conference
and shall also attend the meeting of the International Union
of Pure and Applied Physics to be held in London early in July,
and the symposium of solid state physics at Bristol which will
be held immediately after. I shall stay sometime in Europe
after the Paris meeting, and shall be attending the meeting
of the International Scientific Radio Union in Holland
end of August.

Kindly remember

With kindest

I am hoping to attend it.
Wife.

Looking forward to see you

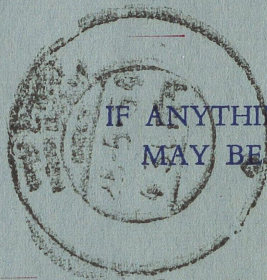
Mr. V. R. Ramanathan who was working with us
at Allahabad is arriving here on Sunday next by air.
He intends to stay here for two years to do his Ph.D.

(With my respectful regards.

Yours very

Ajit Ramanathan

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Sender's name and address:

Ajit Ramanathan
Royal Holloway College, Egham
Surrey, England.

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BY AIR MAIL
PAR AVION
AIR LETTER
AÉROGRAMME



Sir K. S. Krishnam F.R.S.
Director National Physical
Laboratory
NEW DELHI
INDIA

27 MAY 1954

WJH

Physics Department
Royal Holloway College
Englefield Green
Surrey
England
20th May 1954.

My dear Prof.

I had received your letter sometime ago. Thank you for your congratulations & good wishes on the publication of my book.

You may perhaps have known that Delhi University has offered me the readership in physics. It is very good of them. I should thank you also if you had directly or indirectly helped me for this. Anyway I have always to thank you.

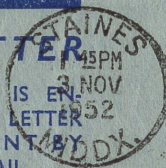
I have been ^{doing} some x-ray work at Birkbeck College in Prof. Bernal's laboratory and I hope to publish one paper soon ^{on} the polymorphism of fatty acid crystals - an x-ray & interference study. It is indeed very nice to combine the two techniques for this purpose. What equipment do you have at N.P.L. in the x-ray section? I take it you have almost every thing. The instrument which I found very useful for my study of microcrystals was a fine focus x-ray tube of Ehrenberg-Spears type developed at Birkbeck & now manufactured by Hilgers. Do you have this ^{or any other} fine focus x-ray tube? Would you be interested to have it?

Are you coming to Paris Conference in July?

BY AIR MAIL

AIR LETTER

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Sir K. S. Krishnam F. R. S.

Director, National Physical Laboratory

NEW DELHI

INDIA

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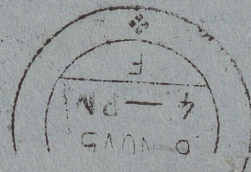
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Sender's Name and address :-



Royal Holloway College
Englefield Green, Surrey UK



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17 NOV 1952

Royal Holloway College
Englefield Green
Surrey
2nd Nov '52.

Dear Prof.

I hope you have received my previous letters and the reprints which I have been sending from time to time. As I wrote to you in my previous letter, I have been awarded the I.C.S. fellowship of the University of London. As you know this fellowship is tenable for three years in the first instance & they have given me a start of £750 - p.a. I have recently been informed by the University of Delhi that they have extended my study leave without pay for two years more. I do hope that this will give me enough time to do some further work in the line of work

in which I have been engaged. I must thank you for your kind interest & for all your help that you may have given for the extension of my leave. Meantime I have taken my Ph.D. Prof. Bernal was my examiner. Now, I am proposing to start the study of optical properties of some single crystals by the application of multiple-beam interferometric techniques. I am, therefore, quite interested in your note in Phil. Mag. with Dr. S.K. Ray. & if you have a copy of the reprint available, I will be very happy to have one of this & of the paper in the Royal Society proceedings.

Dr. C.B. Sharma has come over to London on study leave for one year & is going to work with Prof. Pease in Imperial College.

I trust this finds you in good health. With my respectful regards.

Yours sincerely

P.S. Are you likely to visit A.R. Verma England in near future? I should like to meet you & pay my respects.

Baltimore's Lectures by Lord Kelvin.
I have bought one copy for 21 shillings,
and I wonder whether you will be
interested in the other copy. If so
please let me know.

Are you likely to come to
this country in this summer or
in near future? I would like
to meet you + pay my respects
+ show you round our laboratory.

With my respectful regards

Yours sincerely
Ajit Ram Varma

BY AIR MAIL

AIR LETTER

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Sir K. S. Krishnam F. R. S.

Director, National Physical Laboratory

New Delhi

INDIA

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Sender's name and address :-

A. R. Varma
Royal Holloway College
Englefield Green, Surrey
A.K.



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PHYSICS DEPARTMENT
Physics Department
Royal Holloway College
Englefield Green
Surrey, UK.
13.4.53.

25 APR 1953
W
Respected Prof,

It is long I have not received your kind letter. I do hope you have been receiving my letters, and the reprints which I have been sending from time to time. As you know I am staying on here for some more time due to the award of an I.C.I. fellowship. I hope to be here for at least one more year.

~~and~~ I am sending to you separately the reprints of two notes published in Nature. I have been lately studying the growth & optical properties of long chain organic molecules.

A paper on Stearic acid is in the press for the Proc. Phys. Soc. I shall be glad to send you a reprint of this when I receive them. We wish to extend this study to other long chain organic molecules. It is a very interesting class of substance. Do you have any section in National Physical Lab. also working on some problems of crystal-growth? With electron-microscopic technique already set up there, I feel it is a fruitful field for research. During the Easter vacations I went to Cambridge & there I saw the reflection type of electron-microscope that the Physical Chemistry section under Prof. Bowden has ~~is~~ set up. It is a very promising instrument & I also want to study some of my problems with this, if possible.

At Cambridge, I saw at a bookseller's shop two copies of