

COMMISSION ADMINISTRATIVE
DU PATRIMOINE DE
L'UNIVERSITÉ DE LIÈGE

—•—
TRÉSORERIE
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Monsieur le Professeur K.S.KRISHNAN.

LEIDEN, 19 / 3 / 56.

ONS No.
UW SCHR.:

62

Respected Professor,

I hope you remember the company you kindly gave us ~~when~~ during your stay in The Hague in August 1954 (just a few months after my wife and I arrived in this tiny land).

As per your precious advice I have completed the work for the doctorate of this university. My thesis is in press; I shall be promoted to the degree of Doctor of science on the 18th April, 1956. I shall leave for India immediately after the promotion.

I read part of my work in "The International Conference on Physics of Low Temps." held in Paris during last summer.

As there are no (and will not be in near future) cryogenic facilities in Baroda University, I am looking forward for your timely help, so that I shall get an opportunity to utilize the little experience I got in this fascinating branch since June 1954. If I get a chance to join the NPL low temp. group under your guidance (as I tried a bit of research in the branches in which you have been interest-) I shall spare no pains to try my best. The Baroda University authorities will gladly relieve me from the contract I signed.

The following publications are to my credit (partly with Dr. Dokoupil and partly with a junior student, Mr. Hartmans): -

- 1] Dokoupil, v. Soest, Wansink + Kapadnis, "Sp. heat of pure ^4He and of 2.5% ^3He in ^4He ," *Physica* 20 (1954) 1181-8.
- 2] Kapadnis + Dokoupil, "Les mesures de chaleur spécifique des mélanges liquides de ^3He et ^4He", *Rept. Conf. Phys. basses Temp.* Paris (1955) 19-22. [The full publication will be made soon].
- 3] Kapadnis, "Heat-capacities of three paramagnetic alums at low temps.," *Physica* 22 (1956) 157-171.
- 4] Kapadnis + Hartmans, "The low temp. heat-capacities of two diamagnetic alums.", *Physica* 22 (1956) 173-180.
- 5] Kapadnis + Hartmans, "The low temp. sp. heat and entropy of $\text{MnBr}_2 \cdot 4\text{H}_2\text{O}$," (antiferromag.), *Physica* 22 (1956) 181-188.

My address after 18th April, 56:-
At Dyane, Post Nampur,
Dist. Nasik,
Bombay State.

With high regards,

yours sincerely,
Kapadnis

D.G. Kapadnis,
KAMERLINGH ONNES LABORATORIUM
DER RIJSUNIVERSITEIT TE LEIDEN
NIEUWSTEEG 18 — TELEFOON 25641

LEIDEN, ~~15th April, 1955~~

18th May, 1955.

ONS No.

UW SCHR. :

To

Sir K.S. Krishnan,
Director, N.P.L., New Delhi.

20 MAY 1955

Respected Sir,

I beg to state that because of her ill health my wife went back to India as per advice of the Professor of gynaecology. There she delivered a fine daughter and both of them are in good health.

I am going on well with my researches on ^3He - ^4He mixtures and on para- and antiferromagnetic salts. I am having the honour of being one of the official student delegates from this laboratory to participate in the 9th International Conference on Refrigeration to be held in Paris.

As the term of my present fellowship will expire soon, the University of Baroda authorities have advised me to apply for the fellowship to be offered by the Government of The Netherlands through our Central Ministry of Education. I have sent the application with recommendation letters from Prof. Gorter and Prof. Taconis (copies of which are enclosed herewith) through the University of Baroda. I hope ~~to~~ to complete the work and submit the thesis for the Doctorate by March 1956. The fellowship I have applied for exactly covers this period (if offered), after which I hope to be favoured by giving me a chance to join our N.P.L. Low Temperature Division.

I request you to kindly favour me by your strong sympathetic support to relieve me from the financial worries I shall be facing with after the termination of the present fellowship.

Hoping strongly to be favoured,

I beg to remain,
Sir
your most obedient student,

D. G. Kapadnis
(D.G. Kapadnis)

KAMERLINGH ONNES LABORATORIUM
DER RIJKSUNIVERSITEIT TE LEIDEN
NIEUWSTEEG 18 — TELEFOON 25641

LEIDEN,

April 20th 1955.

ONS No.

UW SCHR.:

Mr. D.G.Kapadnis, M.Sc. has been working since March 1954 in this Laboratory. He has been taking part in researches on the specific heats of mixtures of ^4He and ^3He and has carried out such measurements on different paramagnetic and non-paramagnetic salts. He is an energetic and talented research worker and I would advise to enable him to continue these researches on specific heats at low temperatures. Within not too much time these researches may be awarded by a Netherlands Ph.D. degree. In my opinion Mr. Kapadnis is by all means qualified to be offered a post graduate research fellowship.

Sd/ C.J.Gorter
(Prof. C.J.Gorter)
Director.

April 22nd 1955.

ONS No.

UW SCHR.:

It is a great pleasure for me to certify that Mr. D.G. Kapadnis is working for more than one year in our laboratory and that his work is proceeding very successfully. He joined us in measurements concerning the specific heat of mixtures of helium isotopes in the liquid phase. The first results of this research are published in Physica XX, p. 1181. The second part where a still more delicate apparatus has to be used is now giving the first results. Mr. Kapadnis who is in charge of these measurements now is a very conscientious worker with enormous energy and enthusiasm. Moreover he has a very amiable nature so that we would be happy if he could get a Netherlands fellowship. Besides the research mentioned above he is also performing specific heat studies on paramagnetic salts under the guidance of Prof. Dr. C.J. Gorter, director of the Kamerlingh Onnes Laboratory. Also this research is proceeding quite well and is giving valuable results for the demagnetization processes.

Sd/ K.W. Taconis

(Prof. Dr. K.W. Taconis)
Kamerlingh Onnes Laboratory.