

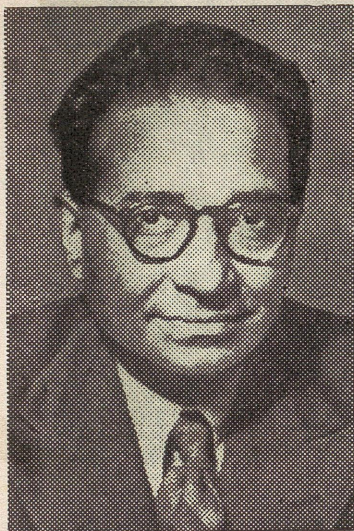
K. S. KRISHNAN DEAD

EMINENT SCIENTIST

Dr. K. S. Krishnan, Director of the National Physical Laboratory and noted scientist, died after a heart attack at 12-30 on the morning of June 14, in New Delhi. He was 64.

Dr. Krishnan attended office as usual on the previous day and he was talking to members of his family until about the midnight when he suffered the attack.

Doctors were summoned soon after Dr. Krishnan complained of



pain in the chest but before the doctors arrived he passed away.

A large number of people called at his residence to pay their respects to the great scientist.

DR. RADHAKRISHNAN'S MESSAGE

The Vice-President, Dr. Radhakrishnan, in a message, said: "We have lost an eminent scientist. In him science and religion were both combined. He was a great student of Tamil literature and was connected with many associations, cultural and social in Delhi. It is difficult to fill his place."

NEHRU'S MESSAGE

Prime Minister Nehru, in a message to Professor Thaker, Director-General, CSIR, on the death of Dr. Krishnan, said: I am shocked and deeply grieved to learn of the death of Dr. Krishnan. His passing away is a serious loss to India and to Indian science particularly of which he was such a distinguished leader.

MEMOIR

Dr. Krishnan was born on December 4, 1898, educated in the Hindu High Schools, Watrap and Srivilliputtur, the American Col-

lege, Madurai, the Madras Christian College and the University College of Science, Calcutta. He was Demonstrator in Chemistry, Madras Christian College, Research Associate, Indian Association for the Cultivation of Science in 1923-28, Reader in Physics, University of Dacca in 1928-33, Mahendralal Sircar Research Professor of Theoretical and Experimental Physics in 1933-42, Professor of Physics, University of Allahabad in 1942-47, President, National Institute of Sciences, India, in 1945 and 1946, Vice-President of Indian Association for the Cultivation of Science during 1945-49 and 1953-56; President, Physics Section of the Indian Science Congress in 1940; and its General President in 1949.

Dr. Krishnan was the recipient of a knighthood in 1948 and the Padma Bhushan award in 1954. He was Fellow of the Royal Society, London (1940), Foreign Associate, National Academy of Sciences, U.S.A. (1956), Fellow of the Royal Society of Arts (1951), Fellow of the Institute of Physics, London (1933), Fellow of the Institute of Metals, London (1946), Honorary Fellow, Institution of Telecommunication Engineers (1955) and Director, National Physical Laboratory of India, New Delhi, since 1947.

He was first President, Indian Society of Theoretical and Applied Mechanics in 1955-57; President, Indian Institute of Metals in 1957 and 1958; Chairman, Board of Research in Nuclear Science from 1955; member, Atomic Energy Commission from 1948; member, University Grants Commission from 1957; member, Board of Scientific and Industrial Research from 1942; member, Governing Body of the Council of Scientific and Industrial Research from 1956 and of the Board of Engineering Research from 1953; member, Standing Board for Astronomy from 1956 and of various other organisations of the Government of India. He was fellow of several scientific societies and academies; Chairman of the Scientific Advisory Committee of UNESCO in 1955; Vice-President of the International Council of Scientific Unions from 1955, and of International Union of Pure and Applied Physics during 1951-57, India's representative, Pan Indian Ocean Science Association from 1957; Chairman, Indian National Committee for URSI from 1950; Chairman, Indian National Committee for the International Geophysical Year from 1955; Chairman, Science Sub-Commission for Co-operation with UNESCO He received the Liege University Medal in 1937; and was delegate to several international scientific conferences and founder member of the India International Centre. He was appointed National Professor on August 15, 1958, in recognition of his eminence in the field of science.

Dr. Krishnan was awarded the first Bhatnagar Award of the CSIR of Rs. 10,000 by the Prime Minister on March 24, 1961. A scholar of distinction, well-versed in classics, he attached great importance to the humanistic values of science and the place of science in liberal education.

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THE HINDU
Weekly Review
Madras JUNE 19
1961



Tributes To Dr Krishnan A Great Scientist And Scholar

BY A STAFF CORRESPONDENT

New Delhi, June 14—A large number of persons called at the residence of Dr K. S. Krishnan to pay their homage to the great scientist who died here last night.

Among the early callers were Vice-President Radhakrishnan, Dr B. Gopala Reddy, Mr M. M. Das, Deputy Minister for Scientific Research, and Prof. M. S. Thacker, Secretary in the Ministry of Scientific research.

Dr Radhakrishnan said: "We lost an eminent scientist. In him science and religion were both combined. He was a great student of Tamil literature and was connected with many associations, cultural and social, in Delhi.

Also to visit Dr Krishnan's house were representatives of the Atomic Energy Commission, Council of Scientific and Agricultural Research, UNESCO and the University Grants Commission.

A large number of people, including the staff of the National Physical Laboratory of which Dr Krishnan was director, took part in the funeral procession to the Nigambodh cremation grounds. The body was cremated in the afternoon.

Wreaths were placed on the body on behalf of President Rajendra Prasad, Prime Minister Nehru, Council of Scientific and Industrial Research and the Ministry of Scientific Research and Cultural Affairs.

The National Physical Laboratory remained closed today.

Dr Krishnan is survived by his widow, two sons and four daughters.

The fatal heart attack was the second he suffered. He had a serious attack three years ago when he was advised complete rest for three months.

DR. KRISHNAN CREMATED

Homage Paid By Leaders

By A Staff Reporter

The body of the late Dr. K. S. Krishnan, well-known scientist and Director of the National Physical Laboratory, was cremated in Delhi on Wednesday afternoon. Dr. Krishnan died of a heart attack on Tuesday night. He was 68.

The cremation ceremony, which was to have been performed in the morning, was delayed to enable Dr. Krishnan's daughter and son-in-law, Mr. Bhashyam, who were in Simla, to be present.

Dr. Krishnan's eldest son, Mr. K. Srinivasan, performed the last rites at the Nigambodh Ghat on the banks of the Yamuna. Wreaths were laid on the body on behalf of the Prime Minister, the Ministry of Education, the Ministry of Scientific Research and Cultural Affairs, the Atomic Energy Commission and several organisations in the Capital.

LAST RESPECTS

Earlier, during the morning, several people visited Dr. Krishnan's house to pay their last respects. Among those who went to offer condolences to the bereaved family were the Vice-President, Dr. Radhakrishnan, the Home Minister, Mr. Lal Bahadur Shastri, the Education Minister, Dr. Shrimali, and the Minister for Works, Housing and Supply, Mr. B. Gopala Reddy. The President sent his Military Attache with a wreath,

Dr. M. S. Thacker, Secretary to the Union Ministry of Scientific Research and Cultural Affairs, who was among

Continued on Page 7 Col. 5

Obituary

SIR KARIAMANIKKAM KRISHNAN

INDIAN SCIENTIST

Sir Kariamanikkam Krishnan, F.R.S., Director of the National Physical Laboratory of India since 1947, died in New Delhi yesterday, Reuter reports. He was 62.

Krishnan was chairman of the Board of Research in Nuclear Science and a member of the Scientific Advisory Committee to the Indian Cabinet and of the Indian Atomic Energy Commission.

Much of his earlier work was carried out in association with Sir Venkata Raman, F.R.S., and this collaboration included the work which preceded the discovery of the Raman Effect—when a beam of monochromatic light passes through a transparent substance a certain amount of light is scattered from the path of the beam which is of greater wavelength than the incident light.

The discovery of the effect was first announced by Sir Venkata Raman in 1928 in the *Indian Journal of Physics* and was also the subject of an article by the discoverer and Krishnan which appeared in *Nature* the same year.

Krishnan carried out valuable research on the magnetic properties of crystals and contributed a series of important monographs on this subject in the *Transactions of the Royal Society*. He was elected F.R.S. in 1940.

Krishnan was born on December 4, 1898, and educated at the Hindu High Schools, at Watrap and Srivilliputtur, the American College, Madura, Christian College, Madras, and the University College of Science at Calcutta. He began his career as a demonstrator in chemistry at Christian College, later spent the five years 1923-28 as research associate at the Indian Association for the Cultivation of Science, and then went to the University of Dacca as reader in physics. In 1933 he was appointed Mahendralal Sircar Research Professor of Theoretical and Experimental Physics at the Indian Association. From 1942 until he was made Director of the National Physical Laboratory he was Professor and Head of the Department of Physics, University of Allahabad.

He did not confine his activities to India and played an influential part in the deliberations of world scientific organizations. He was vice-president of the International Council of Scientific Unions from 1955 and of the International Union of Pure and Applied Physics from 1951 to 1957, and from 1951 to 1954 on the executive committee of the International Union of Crystallography. He was appointed chairman of the Unesco Scientific Advisory Committee in 1955 and last year of the Unesco committee on modern research trends in natural sciences.

Krishnan was knighted in 1946. He leaves a widow, two sons, and four daughters.

DR. F. T. WAINWRIGHT

ARCHAEOLOGIST AND HISTORIAN

Dr. F. T. Wainwright, who died on Monday, was head of the Department of Dark Age Studies at St. Andrews University. As an historian at Reading University, he was the pupil of Sir Frank N. Stenton and adopted philology as his special subject with particular reference to place-name studies. He contributed to a number of learned journals, and was treasurer of the English Place-name Society. After teaching in Liverpool University, he was head of the Department of History in University College, Dundee, before receiving his final appointment. Active and varied interests in historical matters brought him to the council tables of historical societies and the Ancient Monuments Board for Scotland. He was also a fellow of the Society of Antiquaries.

In recent years he became an enthusiastic and active archaeologist—instructing, excavating, writing, and, above all, directing the remarkable summer schools for which he and his wife will particularly be remembered. The Scottish Summer School began in 1952, in Dundee, with "The Problem of the Picts", and met every year since, always with a new subject and a new book to follow it under Dr. Wainwright's general editorship. It is now the British Summer School in Archaeology, with meetings in Durham, Wales, and the Isle of Man to its credit, a meeting in Cirencester to be held this summer, and plans begun for one in Brittany.

His "forum where all students of Scottish archaeology, professional scholars and amateurs, veterans and beginners, can meet for the discussion of problems, and combine serious study with an enjoyable holiday" was splendidly successful. The schools were most efficiently organized, and membership had risen from 100 at the first to 400 for the forthcoming "Roman Villa" meeting at Cirencester, for which arrangements have been completed well in advance to enable it to take place precisely as planned.

Wainwright is survived by his wife, a son and a daughter.

GROUP CAPT. G. H. M. MILES

Group Captain G. H. M. Miles, O.B.E., who played a prominent part in the British light aviation movement for many years, died in hospital on Sunday. He was 58.

George Herbert Meisl Miles—Eustace to all his friends in the aviation world—trained as an aeronautical engineer, and after service with Imperial Airways and the Air Registration Board, joined the aviation department of Willis, Faber and Dumas in 1937.

Immediately on the outbreak of war he volunteered for the Technical (E.) branch of the Royal Air Force, and after service at Andover, Oxford, and Bristol was posted, in May, 1941, to the Ministry of Aircraft Production as Assistant Chief Overseer, a post he held with considerable success until January, 1946.

On demobilization he returned to Willis, Faber and Dumas and during the next few years became increasingly well known in aviation circles. He devoted much time to the promotion of the

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HERR JULIUS WEGELER

Herr Julius Wegeler, who died on Monday at the age of 74, was a notable figure in the European wine trade. He was senior partner of Deinhard & Co., Coblenz, and formerly partner of Charles Hasslacher, who is 95. Wegeler devoted his life to the family business. He spent a number of his early years in the old Deinhard office in Idol Lane, E.C., and was last there only a few months ago.

After the last war he was faced with the greatest problem in his firm's 170-odd years' history when he set himself to make good the ravages of war—some 80 per cent of the buildings were in ruins. In the

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On demobilization he returned to Willis, Faber and Dumas and during the next few years became increasingly well known in aviation circles. He devoted much time to the promotion of the flying club movement, in which he had been interested before the war, and was primarily responsible for the formation of the Association of British Aero Clubs in 1946, under the chairmanship of Mr. Whitney Straight.

He was chairman of the association from 1948-50, and from 1954 until his death. In 1953 he was appointed O.B.E. in recognition of his services to the flying club movement.

MORE CIGARETTES UP

The manufacturers of Kensitas have raised their cigarette prices by 1d. for 20 cigarettes today. Kensitas extra-size will be 10d. for 10, and filter 9d. for 10.

CHAUCER AND RIDER
HAGGARDANTIQUARIAN BOOK FAIR'S
WIDE VARIETY

FROM OUR SPECIAL CORRESPONDENT

How can one... fourth Antiquarian... open to... gallery... Alber... from... Bo... lis... pr... R... T... c...

MASONRY IN SOUTH
AFRICANETHERLANDIC LODGES'
ACTION

FROM OUR MASONIC CORRESPONDENT

How can one... fourth Antiquarian... open to... gallery... Alber... from... Bo... lis... pr... R... T... c...

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Krishnan Had A Wide Range Of Interests

Continued from page 1, Col. 2

the first to reach Dr. Krishnan's house on Wednesday morning, personally supervised the funeral arrangements.

The news of Dr. Krishnan's sudden death shocked the Capital. On Tuesday, he worked in his office till 6 p.m. In the evening he played bridge till after 10 p.m. at Delhi Gymkhana Club.

He retired after dinner at 11 p.m. and while he was reading in bed he felt restless. After half an hour he asked his son to call a doctor as he was feeling a choking sensation, but Dr. Krishnan died before any medical help could be summoned. Dr. Krishnan first had a heart attack about two years ago when he spent a couple of months in hospital. He had a second attack, a very mild one, three months ago. The third stroke proved fatal.

Dr. Krishnan's body was carried to the cremation grounds on a flower-bedecked N.P.L. vehicle. A number of his friends and co-workers were visibly moved as the funeral procession left Dr. Krishnan's residence.

WIDE INTERESTS

An eminent scientist, Dr. Krishnan had a wide range of interests. He was considered an authority on Tamil literature and was a scholar in Sanskrit. He was connected with a number of philanthropic institutions. He was awarded Padam Bhushan in 1954 for his outstanding contributions in the field of science. The Prime Minister often referred to Dr. Krishnan as "a well-rounded human."

Dr. Krishnan is survived by his widow, two sons and four daughters. "P.T.I." adds:

The offices of the University Grants Commission and the Council of Scientific and Industrial Research were closed as a mark of respect to Dr. Krishnan.

The President, Dr. Rajendra Prasad, in a condolence message said: "I was grieved to know of the sad and untimely death of Dr. K. S. Krishnan, Director of the National Physical Laboratory. In him we have lost not only an eminent scientist but a great lover of art and literature. Dr. Krishnan was a scholar of Tamil and Sanskrit and was deeply interested in philosophy and the development of Indian Languages.

"I send my heartfelt condolences on this occasion to all members of the bereaved family."

Dr. Radhakrishnan in a message said: "We have lost an eminent scientist. In him science and religion were both combined. He was a great student of Tamil literature and was connected with many associations, cultural and social, in Delhi. It is difficult to fill his place."

The Prime Minister in a message to Dr. Thacker said: "I am shocked and deeply grieved to learn of the death of Dr. Krishnan. His passing away is a serious loss to India and to Indian science particularly, of which he was such a distinguished leader. Please convey my deep sympathy and condolences not only to his family, but also to his colleagues in the National Physical Laboratory."

Dr. Shrimani said: "Dr. Krishnan's passing away has meant a great loss

to the world of education. For many years he had served the cause of higher education and scientific research with great distinction. He also combined with his scientific knowledge and profession a deep appreciation and knowledge of humanities—a rare combination."

Dr. Thacker said: "It is a great tragedy and a great loss to the country. I was one of Dr. Krishnan's oldest friends and I will miss him very much."

Dr. D. S. Kothari, Chairman of the University Grants Commission, of which Dr. Krishnan was a member, said: "Prof. Krishnan has been one of the foremost physicists of our times. His contribution to research and education has been of the greatest value and his role in the progress of physics in our country was outstanding."

RAMAN'S COLLABORATOR

Scholar-scientist Dr. Krishnan had been the Director of the National Physical Laboratory since its inception in 1947. He attended several international scientific conferences on behalf of India.

He had collaborated with Mr. C. V. Raman in the discovery of what is now well known as the Raman Effect. He was also a member of the Board and governing body of the Council of Scientific and Industrial Research, a member of the Atomic Energy Commission, University Grants Commission, Chairman of the Board of Research of Nuclear Science and a fellow of several scientific societies and academies.

Born on December 4, 1898, Kariamankam Srinivas Krishnan had his early education in Watrap and Sriviliputtar in Madras and obtained his D.Sc. from Madras University. He was a research associate of the Indian Association for the Cultivation of Science from 1923 to 1928. He was knighted in 1946.

He was President of the National Academy of Sciences in 1945-46. Earlier in 1940 he was elected President of the physics section of the Indian Science Congress and its President in 1949. He was Vice-President of the International Union of Pure and Applied Physics from 1951 to 1957 and of the International Council of Scientific Unions from 1955 to 1957. He went to the U.S. in 1955 as guest of honour of the National Academies of Science, Washington.

His publications include several papers on optics, magnetism, electronics, physics and chemistry of solids, particularly of metals.

Dr. Krishnan was connected with various cultural and literary organisations in the Capital. He himself was a scholar in Tamil.

Madras: Paying tributes to Dr. Krishnan, Mr. C. Rajagopalachari said: "the saddest event of the year so far is the premature death of Dr. K. S. Krishnan, one of the most loveable, most eminent and best of men in modern India. His learning, devotion and attachment to Vaishnavite religious literature, both Tamil and Sanskrit, were as remarkable as his great scientific eminence."



Dr Krishnan Cremated

New Delhi, June 14 (PTI)—Dr K S. Krishnan, Director of the National Physical Laboratory and a noted scientist, died after a heart attack at 12-30 a.m today. He was 63.

Dr Krishnan attended office yesterday as usual and he was talking to members of his family until about midnight when he got the attack.

His body was cremated at Nigambodh Ghat in the afternoon today.

Earlier, a large number of people called at his residence to pay their homage. Among the early callers were Vice-President Radhakrishnan, Home Minister Lal Bahadur Shastri, Mr B Gopala Reddy and Dr M. S. Thacker, Secretary of the Ministry of Scienti-

Continued on back page col 6

HINDUSTAN June 18th

" Under the auspices of the various South Indian Associations a Public Meeting to condole the death of DR. K. S. KRISHNAN will be held TODAY at 6-30 P.M. at No. 9, Jantarantar Road (South India Club Premises), New Delhi. DR. S. RADHAKRISHNAN, Vice-President of India, has kindly consented to preside."

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