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Written by Subrahmanyan about
Kymal on Kymal's request.

Dr. V. Subrahmanyam,
TIRUVARUR.

Dear Babuji,

I take this liberty of writing to you about the achievements of the Food and Nutrition Board of your Ministry ~~and the outstanding contribution made by its Executive Director~~ in the field of food and nutrition. I have been a member of the Food & Nutrition Board since its inception in 1965. We had a successful meeting today under the Chairmanship of Shri Joneja, Food Secretary when the achievements of the Food & Nutrition Board were reviewed and the strategy for further developments discussed. It was clear that the Food & Nutrition Board had established the foundation for the conservation and effective utilisation of the country's vast food resources. The work of the Food & Nutrition Board has taken nutrition from its earlier curative approach to the present Food & Nutrition development approach. I know from my close association with the Board that all this has been possible because of the originality, executive ability and calibre of the Executive Director, Dr. P.K. Kymal.

I have been closely associated with Dr. P.K. Kymal since 1956 when I was Director, Central Food Technological Research Instt. and Dr. Kymal joined the Government as Technical Adviser.

↳ During his distinguished career of 20 years as Technical Adviser to the Govt. of India and Executive Director, Food and Nutrition Board, Dr. P.K. Kymal made outstanding contributions to the application of modern food science and technology, to the conservation and effective utilisation of the foodstuffs produced in the country and to the development of food and nutrition programmes by originating application programmes, setting up pilot

units, organising implementation programmes and leading scientific and technological efforts in research and development and demonstrating commercial exploitation.

In recognition of the great contribution ^{Dr P. K. Hyman} he has made in the field of food and nutrition and his valuable services to the country.

I would recommend him for your consideration for a 'Padma' Award.

With respectful regards,

Yours sincerely,

(V. Subramaniam)

In this connection
I enclose a brief
resume of the
contributions made
by Dr P. K. Hyman.

Personal data of Dr. P.K. Kymal is as follows:

1. Date of birth: 24th November, 1921.
2. Educational qualification:
 - 1939-41: Intermediate Science Ist Class, Distinction for all Science subjects. Madras University.
 - 1941-43: B.Sc. Ist Class, Chemistry with physics & Mathematics. Madras University.
 - 1943-46: M.Sc. Research, Glyceride composition of oils and fats.
 - 1952-55: Ph.D. Bio-Chemistry, Nutrition, Food Science and Technology - allied subjects studied include Agronomy, Microbiology, Entomology, Physiology, Agricultural Extension, etc., Louisiana State University (USA).
3. Professional Specialisation: Food Science, Technology & Nutrition, Research and Development.
4. R&D Experience:
 - Research on oils and fats - 3 years.
 - Research on rice - 3 years
 - Research & development work on food and nutrition - 20 years.
5. Employment particulars:
 - 1948-56: Assistant Director of Food Supplies (Technical), Govt. of Orissa, Cuttack.
 - 1956-65: Technical Adviser, Deptt. of Food, Min. of Food & Agri., Govt. of India, New Delhi.
 - 1965-74: Executive Director, Food & Nutrition Board, Min. of Agri., Govt. of India, New Delhi.
6. Scholarships and Fellowships:
 - (1) Ayurvedic Research Scholarship ... 1945-46
 - (2) Fulbright & Food Foundation Fellowship ... 1952-55

6. Professional activities:

1. President, Association of Food Technologists of India, 1975.
2. Vice Chairman, Advisory Committee of Rice Process Engineering Centre.
3. Director of Special Courses on Project Planning for Nutrition Programmes at the National Training Centre, New Delhi.
4. Vice Chairman, Central Fruit Products Advisory Committee.
5. Director, Andhra Pradesh Agro Industries Corporation, Hyderabad.
6. Director, Himachal Pradesh Agro Industries Corporation, Simla.
7. Director, Maharashtra Agro Industries Corporation, Bombay.
8. Director, Modern Bakeries, New Delhi.
9. Member, Protein Foods & Nutrition Development Association of India, Bombay.
10. Member, Governing Body of 4 Institutes and Catering Technology & Applied Nutrition & 11 Foodcraft Institutes.
11. Member, Scientific Panel on Post-harvest Technology, Indian Council of Agricultural Research.
12. Chairman, Fruit & Vegetable Products Sectional Committee, Indian Standards Institution.
13. Member of the Nutrition Society of India and its executive committee.
14. Member of several other professional bodies
15. Chairman, Board of Studies, Catering Technology, Delhi Administration, New Delhi.

7. Experiences:

(International):

1. Delegate to the Pacific Rim Food Conference, USA, in 1960.
2. Leader, Modern Rice Mill Projects Mission 1964 to Italy, Germany and Japan.

3. Delegate to FAO Conference, 1967.
4. Chairman of Nutrition Committee of FAO, 1967.
5. Member of ECAFE Expert Team on Rice Processing, 1969.
(2½ months)
6. Delegate to the Science of Survival Conference in 1970, USA.
7. Participant in International Seminar on Food & Nutrition Policy and Planning in USSR, 1971 (1 month).
8. Functioned as Co-Director and organised the Joint FAO/UNIDO/ECAFE Inter-Regional Seminar on Industrial Processing of Rice held in Madras, India in 1971.
9. Organised FAO/MORAD Regional Seminar for Asia and the Far East in Food and Nutrition Policy and Planning at New Delhi in February, 1974.
10. Leader of the Indian Delegation in Food Processing and Agriculture to Bulgaria, September, 1974.
11. Consultant with FAO Rome to formulate proposals for Intersectoral Food and Nutrition Planning - Jan - April, 75
12. Organised a number of exhibitions and fairs depicting application of modern food science and technology and the Food & Nutrition Board won over 30 awards, prizes and gold medals.
13. Leader of the sub-commission on Agriculture and Food Processing of the Indo-Bulgarian Joint Commission.

8. Articles and Publications:

1. Thesis for M.Sc.
2. Glyceride composition of 7 vegetable oils and fats.
3. Amino acid variations of rice varieties.
4. Role of Agro-Industries in Agricultural Development
5. Food Preservation as a means to conserving surplus agricultural and fisheries production and distribution and consumption.
6. Nutrition Extension Programme in India.
7. Role of Cold Storage in Food Preservation.
8. Nutritional Enrichment of Bread
9. Fortification of Wheat Products
10. Nutrition in Rural Development in India

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11. Fruit Preservation and Processing for Promotion of Horticultural Development
12. Modernisation of Rice Milling for higher yields, better quality and economic growth.
13. Protein rich foods from oilseeds
14. Agro Industrial Complexes.
15. Strategy for Improvement on Food and Nutrition.
16. Author of a number of project reports on Food Processing and Nutrition.

Dr. V. Subrahmanyam,
TIRUVARUR.

Dear Shri Joneja,

I write this in connection with the valuable services rendered by Dr. P.K. Kymal, the Executive Director Food & Nutrition Board by his
I take this liberty of writing to you about the

Contribution to the development of Food and Nutrition

achievements of the Food and Nutrition Board of your Ministry and the outstanding contribution made by its Executive Director in the field of food and nutrition. I have been a member of the Food & Nutrition Board since its inception in 1965. We had a successful meeting ^{on 16.10.76} today under the Chairmanship of ~~Shri Joneja~~, Food Secretary when the achievements of the Food & Nutrition Board were reviewed and the strategy for further developments discussed. It was clear that the Food & Nutrition Board had established the foundation for the conservation and effective utilisation of the country's vast food resources. The work of the Food & Nutrition Board has taken nutrition from its earlier curative approach to the present Food & Nutrition development approach. *I have been a member of the Food & Nutrition Board since its inception in 1965.* I know from my close association with the Board that all this has been possible because of the originality, executive ability and calibre of the Executive Director, Dr. P.K. Kymal.

✓ Board since its inception in 1965.

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During his distinguished career of 20 years as Technical Adviser to the Govt. of India and Executive Director, Food and Nutrition Board, Dr. P.K. Kymal made outstanding contributions to the application of modern food science and technology, to the conservation and effective utilisation of the foodstuffs produced in the country and to the development of food and nutrition programmes by originating application programmes, setting up pilot

units, organising implementation programmes and leading scientific and technological efforts in research and development and demonstrating commercial exploitation.

In recognition of the great contribution ^{P. L. Nayud} he has made in the field of food and nutrition and his valuable services to the country, I would recommend him for your consideration for a 'Padma' Award.

With respectful regards,

Yours sincerely,

(V. Subramaniam)

In this connection,
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by Dr P. L. Nayud -

Personal data of Dr. P.K. Kymal is as follows:

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 - 1941-43: B.Sc. Ist Class, Chemistry with physics & Mathematics. Madras University.
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9. Fortification of Wheat Products
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12. Modernisation of Rice Milling for higher yields, better quality and economic growth.
13. Protein rich foods from oilseeds
14. Agro Industrial Complexes.
15. Strategy for Improvement on Food and Nutrition.
16. Author of a number of project reports on Food Processing and Nutrition.

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maize for food by initiating the establishment of a unit for the production of semolina flour, gems and pre-cooked flour.

- (5) Establishment of 27 Mobile Food and extension units for promotion of subsidiary foods, food preservation and nutrition.
- (6) Establishment of 22 community canning and food preservation centres for popularisation of fruit and vegetable preservation.
- (7) Development of 4 Institutes of Catering Technology, Hotel Management and Nutrition and 11 Food Craft Institutes for promotion of scientific food handling and food management.
- (8) Development of iron fortification of salt for preventing iron deficiency in the common diet.
- (9) Introduction of integrated inter-sectoral food and nutrition planning taking nutrition from the earlier curative approach to the present developmental approach.
- (10) Development of Agro Industrial Complexes for the integration of food production, processing and marketing.

Dr. Kymal's contribution has laid the foundation for the improved handling and utilisation of the vast food resources of the country which presently include nearly - 65 million tonnes of paddy, 25 million tonnes of wheat, 20 million tonnes of other cereals, 10 million tonnes of pulses, 6 million tonnes of groundnut, 2 million tonnes of cotton seeds, 4.5 million tonnes of potatoes, 6 million tonnes of tapioca and over 30 million tonnes of fruits and vegetables.

Contributions made by Dr. P.K. Kymal, B.Sc., M.Sc., Madras University, Ph.D. (Louisiana), Executive Director, Food & Nutrition Board to the application of science and technology and to the development of food and nutrition programmes in the country.

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During a distinguished career of 20 years as Technical Adviser to the Govt. of India and Executive Director, Food and Nutrition Board, Dr. P.K. Kymal made outstanding contributions to the application of modern food science and technology, to the conservation and effective utilisation of the foodstuffs produced in the country and to the development of food and nutrition programmes by originating application programmes, setting up pilot units, organising implementation programmes and leading scientific and technological efforts in research and development and demonstrating commercial exploitation. His achievements include -

- (1) Modernisation of rice milling industry through appropriate application of modern technology and improved practices consisting of a judicious combination of pre-cleaners, rubber roll shellers, mechanical driers, improved whiteners, modern parboiling and improved storage, so as to generate increased outturn of rice and bye-products of superior quality resulting in a boost to economic development.
- (2) Utilisation of the results of research by setting up units for the production of edible groundnut flour and developing uses for the nutrition-rich flour so as to exploit the rich resources of groundnut for new and nutritious foods.
- (3) Development of new nutritious foods and supplementary feeding materials such as Balahar, miltone, pre-cooked weaning foods, paushtik atta, and enriched atta by the effective utilisation of groundnut flour and other food resources. Development and utilisation of high yielding subsidiary foods like tapioca and potato and their products, such as tapioca flour and composite flour through research and development programmes and also extension programmes.
- (4) Development of Modern Bakeries in the Public Sector for the production of nutritious bread fortified with protein-rich flour and essential vitamins and minerals. Introduction of dry milling maize for the direct consumption of

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maize for food by initiating the establishment of a unit for the production of semolina flour, gems and pre-cooked flour.

- (5) Establishment of 27 Mobile Food and extension units for promotion of subsidiary foods, food preservation and nutrition.
- (6) Establishment of 22 community canning and food preservation centres for popularisation of fruit and vegetable preservation.
- (7) Development of 4 Institutes of Catering Technology, Hotel Management and Nutrition and 11 Food Craft Institutes for promotion of scientific food handling and food management.
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