



Dr. K.V. RAO SCIENTIFIC SOCIETY

Dr.K.V.Rao Annual Memorial Oration & Research Awards – 2006-07

Annual Report



**Dr.K.V.Rao
(1920-2002)**

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The Executive Committee

- Dr.B.V.S.R.Murthy - President
He retired from Geological Survey of India. A close associate of Dr.Rao at GSI.
- Prof.T.Sunderaramiah – Vice President
Retired Professor, Chemistry Department, Osmania University, Hyderabad
- Dr.K.J.R.Murthy – Secretary
Senior Consultant, Chest Physician & Director, DOTS Programme, Mahaveer Hospital, Hyderabad.
- Dr.K.Ratna - Joint Secretary & Treasurer
Doctorate, I.I.T.Delhi
- K.A.Sastry – Founder Member
Director, KSK Energy Ventures Ltd., Hyderabad and son of late Dr.Rao

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Dr.K.V.Rao – A Profile

Dr.K.V.Rao was born on 21st March 1920. He had a distinguished academic career and obtained his D.Sc. degree at the Banaras Hindu University on “Active Nitrogen”, an intermediary in the synthesis of Ammonia.



During Dr.Rao's active Scientific career he worked in the Department of Mines and in the Geological Survey of India He worked on the chemical analysis of diverse Geological materials and the Geochemistry of rocks, ores, water, etc. After retirement he joined Birlas to establish the Birla Archeological and Cultural Research Institute for study of Archeological Monuments. He was also interested in the environmental problems in and around Hyderabad.



Dr.Rao's major research contributions at GSI include his work on fluoride bearing waters in Andhra Pradesh, Rajasthan and Gujarat. The work related to incidence of fluorosis, defluoridation of waters by Serpentine (a naturally occurring mineral rejected as waste in

asbestos mines), designing community defluoridation plants and portable family kits in fluorosis endemic villages.



Dr.Rao's work in BACRI covered setting up of research laboratories for chemical analysis of complex archeological materials such as stone sculptures, wooden carvings & frames, temple bells, palm leaf books, metallic coins, dating the period of archeological excavations using bone ash obtained from archeological excavations.





Dr.Rao studied the effect of SO_2 and NO_x on marble, environmental pollution on Taj Mahal, Charminar etc. He also studied the weathering profiles and preservation of monuments like Gomateswara Statue at Sravana Belahala, Madhukeswara Temple at Mukhalingam, Thousand pillar Temple at Hanumakonda, Ramappa Temple near Warangal.

He published a number of papers in Indian and international journals of repute and also started publication Journal of Archeological Chemistry.

He left us in the year 2002.

The Society

Dr. K.V.Rao Scientific Society was founded in 2001 by forming a corpus from the donations from friends and family of Dr.K.V.Rao. The passion of Dr.Rao by taking part actively in promotion and encouragement of young scientists in pursuit of their research activities has been instrumental in bringing about this society.

The aims and objectives of the Society are to:

- ◆ Undertake programs for advancement of research in the field of Chemistry and branches of Basic Sciences.
- ◆ Assist research students either at doctoral or post doctoral level by ways of funds or equipment.
- ◆ Capacity building of local scientific talent
- ◆ An Annual Oration of Original Scientific Work by a Senior Scientist.
- ◆ Promoting Scientific temper in students at school level by way of research projects.

Future Plans include –

- Broad-basing to other sciences

- Liaising with scientific bodies in Govt. and private for unearthing scientific talent.
- Conduct Seminars, workshops, quizzes & exhibitions
- Setting up of science laboratories for school children

The Society had decided to honour the work of young scientists under the age of 30 years by presenting Annual Research Awards in various fields of basic sciences. The Research awards in each of the category includes a Silver Trophy and a Cash Award of Rs.10,000/= to one promising Young Scientist and Silver Trophies for two more candidates selected from final presentations and a cash award of Rs. 5,000/= each.

In order to have transparency in the selection, a panel of judges comprising of eminent scientists and personalities from various organizations screen the research work for final award. The names of the candidates selected for the awards are announced on the day of the annual function.

This year, i.e., 2007, the Society is presenting awards to scientists in the fields of Chemistry and allied sciences, Physics and Biological sciences. The response from the students is very good and we find that the quality of research as well as the presentations by the students is improving with each year.

In an effort to encourage students from universities and research laboratories outside the twin cities we are planning to institute separate research awards in the coming years.

The Society has also honoured school children for their scientific temper. In co-ordination with Andhra Pradesh State Council of Science and Technology (APCOST), The Society conducted science quiz competition and selected three teams comprising of two candidates each for awards this year. Over fifty teams participated in the quiz competition.

The Society has also decided to set up various **science laboratories** for students. These will enable the students to explore and discover newer horizons in science. Towards this work has started on setting up of a Laser lab in collaboration with Dr.Raman Kolluri, Professor, US of A.

The Society is in discussion with various research institutes where students at school level get to undergo training in topics of their interest.

Apart from these, the Society is planning to undertake scientific research projects of social relevance.

Programmes conducted in the Year 2006

The Annual Function of the Society was held on 8th April, 2006 at B.M.Birla Science Centre, Hyderabad. The programme included:

Annual Oration

The Society invites an eminent Scientist to deliver a memorial oration each year and presents the distinguished guest with a silver trophy. Dr.Indiranath, Member, Scientific Advisory Committee to Cabinet, Director, Blue Peter Research Centre, Hyderabad, was the Oration Speaker. She spoke on -----
-----.

We are honoured to have the following personalities presenting the orations in our earlier functions.

Prof.K.Subba Rao, Head of Biochemistry Department, School of Life Sciences, University of Hyderabad, Dr.Seyed E.Hasnain, Director, Centre for DNA Fingerprinting and Diagnostics, Hyderabad, Dr.K.V.Raghavan, Director, Indian Institute of Chemical Technology, Hyderabad, Dr.K.P.C.Gandhi, Director, Andhra Pradesh Forensic Science Laboratory, Hyderabad, Padma Shri Dr.Gullapalli N.Rao, Distinguished Chair of Eye Health, L.V. Prasad Eye Hospital, Hyderabad

Annual Research Awards:

In the year 2006 research awards were presented in two categories and the awardees were:

■ Physics

1. Dr.T.Goverdhan Reddy, Osmania University, Hyderabad.
2. Ms.N.Ajeetha, Acharya Nagarjuna University, Guntur
3. Mr.K.Prabhakar, Osmania University, Hyderabad

■ Chemistry and Allied Sciences

1. Ms. Shatabdi Porel, School of Chemistry, University of Hyderabad
2. Ms. Meenal Vyas, Centre for Cellular and Molecular Biology, Hyderabad.
3. Mr.Sandip Banthia, School of Chemistry, University of Hyderabad.

Awardees of earlier years are:

Mr.Ch.Venkata Reddy, IICT, Hyderabad, Mr.Radha Kishan Motukori, IICT, Hyderabad, Ms.J.Subbalakshmi, University of Hyderabad, Mr. K.V.S.Ranganath, IICT, Hyderabad, Mr.I.Jayakumar, Jawaharlal Nehru Technological University, Hyderabad,

M.Satish Kumar, National Institute of Nutrition, Hyderabad, Ms.Shanti Kalipatnapu, CCMB, Hyderabad, Mr. A.Prabhakar, IICT, Hyderabad, Mr.Sarat Chandra, University of Hyderabad.

SCHOOL TALENT AWARDS

The Society has started conducting programmes for School Children in collaboration with APCOST (Andhra Pradesh State Council of Science and Technology) from the year 2004. This is an effort to encourage scientific temper at school level.

This year the Society conducted a Science Quiz for School Children of Classes VIII, IX and X from various schools of Hyderabad and Secunderabad and adjoining areas on 5th August, 2006 at Birla Science Centre, Hyderabad. About fifty teams participated in the quiz. After the preliminary round, eight teams were selected for the final round. The winners of the finals were:

1. B.Karthik Goud and R.Sudhakar of Jawahar Navodaya Vidyalaya, H.C.U.Campus , Gachibowli, Hyderabad
2. Mr.Varun Adishankar and Mr.Abhishek Sudhakar of Chinmaya Vidyalaya, Begumpet , Hyderabad.
3. V.Sai Praneeth and Maaz Mashood Mohiuddin of St.Joseph's Public School, King Koti Road,Hyderabad.

Mr. Sydney Paul Montenerio, the Quiz Master, conducted the science quiz competition. Dr.K.Vijaya Kumari, Member Secretary, APCOST and Dr.K.Sriram, Scientist, National Institute of Standards and Testing, USA, were the Guests of Honour at the function.

In earlier programmes the Society conducted research presentations for school children and selected six students each year for awards. The students were selected from various districts of Andhra Pradesh. The students selected in the year 2006 were:

B.Sethuram (Montessori School, Vidyanagar, Kurnool), B.Sukesh (Century High School, Khammam), Sri Sai Saketh (Krishnaveni Talent School, Manchiryal, Adilabad), Ch.Srivalli Lavanya (N.K.V.High School, Rajahmundry, East Godavari), N.Ramu Naidu (ZP High School, Vavilpadu, Vizianagaram), K.Anjani (Rotary (E/M) High School, Rachanapally, Anantapur)

PANEL OF JUDGES

The panel of judges for various awards consists of experts from various fields of research from various universities, research laboratories, schools and industry. Where required the panel of judges is different for different rounds of selection.

This year panel for young scientists awards constituted of :

- Prof. B.Sethuram, Retired Professor, Department of Chemistry, Osmania University
- Prof.T.Sunderaramiah, Retired Professor, Department of Chemistry, Osmania University
- Dr.K.V.A.Ramiah, Department of Biochemistry University of Hyderabad
- Dr.T.Malati, Head, Department of Biochemistry, Nizam's Institute of Medical Sciences, Hyderabad
- Prof. J.Shobanaditya, Head, Department of Biochemistry, Osmania University
- Dr.B.Siva Kumar, Retd. Director, National Institute of Nutrition, Hyderabad
- Prof.T.Radhakrishna, Department of Physics, JNTU, Hyderabad
- Prof.Bellubbi, Head, Department of Physics, JNTU, Hyderabad
- Prof. Achyutaram, Department of Physics, JNTU, Hyderabad
- Dr.Sunandana, Scientist, Department of Physics, University of Hyderabad

Enrolment Form for Membership
To
Dr.K.V.Rao Scientific Society
(Regn. No.: 85/2001)

To,
Jt.Secretary
Dr.K.V.Rao Scientific Society
8-2-293/82/A/431/A,
Road No. 22, Jubilee Hills
Hyderabad – 500 033

Name - ----- Age - -----

Residential Address - -----

Organisation Name - -----

Occupation/Designation - -----

Address of Office - -----

I am interested in becoming a member of your organization as an Associate/Life/Patron Member.

(Signature)

For Patrons:

On behalf of our organization Mr/Ms_____ is nominated to become the member.

(Signature)

• Membership Fees for:

- | | | | |
|-------|---------------|---|-------------------|
| (i) | Annual Member | - | Rs.5000/= only |
| (ii) | Life Member | - | Rs.50,000/= only |
| (iii) | Patron Member | - | Rs.100,000/= only |

For details contact the following:

**The Secretary
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Hyderabad – 500 033**

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ANNUAL FUNCTION - 2006

The Students presenting papers for the awards

The judges assessing the students

Dr.Indiranath and Dr.K.Vijayalakshmi at the Annual Function -2006

Dr. Indiranath delivering the Memorial Oration

Ms Shatabdi Porel, Winner-Chemistry and Allied Sciences

Mr.Goverdhan Reddy, Winner-Physics

Annual Award winners with the guests

Science Quiz – 2006

The quiz master Mr.Sydney conducting the quiz

The Finals of quiz

The Winners of quiz competition

Winners with our Guests