

ROYAL SOCIETY OF CHEMISTRY - DECCAN SECTION HYDERABAD (A.P) INDIA

# THE INTERNATIONAL YEAR OF CHEMISTRY CHALLENGE



SPECIAL EVENT SCIENCE FAIR ON WATER CHEMISTRY AND MANAGEMENT ORGANIZED BY RSC-DS, INDIA FOR SCHOOL CHILDREN 28th July, 2012



Curie, Marie

A unique scientific experiment /project initiated to promote chemical sciences and in particular chemistry at **the school** Ievel by the RSC-DS Member Group, Hyderabad, India, to serve as a fitting legacy to the International year of chemistry. First time this kind of event conducted by RSC – Deccan Section, India

> Prof. Venkateswarlu Peesapati Ph.D,CChem, FRSC, Hon. Secretary RSC-Deccan Section Hyderabad, A.P, INDIA



1



The Royal Society of Chemistry-Deccan section in association with B-Toppers (White Board educational) has conducted an exhibition cum workshop - Science Fair on "Water chemistry and Management" for school children in the area of Deccan section, south India on 28th July 2012 at Indian Institute of Chemical Technology (IICT) Auditorium, Hyderabad.

Indian Institute of Chemical Technology-Hyderabad, A.P. (INDIA)

In the present day scenario the role of Chemical Sciences **on the management and quality of water related issues** is significance for the betterment of human society. This kind of Science Fair for school children became a first of its special event in a wider scale covering 30 schools for RSC India.

The scientific fair saw participants from 30 different schools. Each school is represented by **two students led by their respective school teacher.** Around 100 school children are participated in this fair. In this event students have exhibited different working models, power point presentations and pictorial charts, sensitizing the visitors about the need and methods of water recycling, the rain water harvesting, domestic sewerage waste treatment, and sanitation etc.



School Students- Science Fair on "Water Chemistry and Management" Participants with RSC-DS Members.



Prof. V. Peesapati, Hon. Secretary, RSC-DS, Dr. J S Yadav, Director, IICT, Hyderabad ,Chief guest Mr.Santosh Varlwar, CEO & MD, V V Med Labs , Prof. K S Sastry, Chairman , RSC-DS and Mrs. Madhavi Varlwar inaugurated the Science fair by lighting the lamp.





Prof. V Peesapati, Ph.D CChem FRSC, Hon. Secretary of the RSC-Deccan Section welcomed the Guests and audience and briefly explained the RSC (London) and its activities in India and in particular Deccan Section, Hyderabad, South India. He explained the importance of water Chemistry in our day to day life.

Prof. K S Sastry, CChem FRSC, Chairman of the RSC-DS spoke about the objective of this science fair was to expose students to a breadth of importance of chemistry and doing so ignite young minds towards chemistry and urged the students to learn chemistry because of its wider application for their future career.



Mr.Ravishankar from BToppers WhiteBoard Training Education Empowering spoke about the importance of science education in schools and they have developed some teaching materials for the science teachers and students in order to help them to understand science subjects both in theory and practical.





Dr. J S Yadav, Director, IICT, Hyderabad, spoke about the importance of water chemistry and Management and he stressed that without water & air no life on earth. He praised RSC (London) by encouraging this kind of work-shops, Quiz and science fairs etc for school children, so that they can bring out their hidden talent in participating this kind of important events in order to get hands on experience.

The chief guest Mr.Santosh Varlwar, CEO & MD, V V Med Labs explain to the students role of chemistry, not only solving water related problems but also give lead to new approaches in drug discovery in industry and in particular for the development of new drugs for the welfare of mankind. Hence children can takeup science subjects and contribute for the advancement of chemical sciences by opting chemistry as their career.





In this connection Prof. B. V. Rao, Head, Department of Water resources, JNT University, Hyderabad, has given an invited talk on **"Ground water chemistry and management"** for the benefit of the school children and teachers. He spoke about different kinds of water bodies and their purification and also the methods available for recycling of water.

The participants were happy and excited to display their working models and explained to the visitors and judges through their exhibits, the importance of chemical sciences in the management of the water cycle and impact of these activities on the natural environment. Some of the models prepared by the students are shown here.



Kendriya vidyalaya school, Uppal



Adisankara Group of Schools



C S Krishnaveni Global School



Dilsukhnagar Public School



The presentation and project models prepared by the school students were judged by the experts and selected the best three schools for prizes, demonstrating their chemistry knowledge and practical skills. Experts also recommended two more schools for consolation prize to encourage them for their creativity and innovation.

The chief guest Mr.Santosh Varlwar, CEO & MD, V V Med Labs and Dr. J S Yadav, Director, IICT, Hyderabad, and other RSC-DS Education Division Committee commented on "the teams" good use of knowledge derived from the Chemical Sciences and logical detection to work out on the innovative projects and bring out talent from the high school students.

Prof. V Peesapati, Secretary, Prof. K.S. Sastry, Chairman, and Dr. V. Jayathirtha Rao, RSC-DS gave away the prizes to the winning teams were from *Sri Chaitanya Techno school* (1st prize) on rain water harvesting, *DAV Public school* (2nd prize) on green bridge filtration system (lake an indispensible source of life) and *Little Flower High school* (3rd prize) on rain water harvesting and hydroelectric projects/models. A memento with RSC logo has given to the respective top three schools of prize winners. All the participants were given Certificates along with a scientific book. Also, a scientific book was given to all teachers, who have guided the students for their project work for the last two/three months.





**First Prize :** Project-**Rain Water Harvesting K.Kiranmaye** and **P.Kavyasree** Sree Chaitanya Techno School , with Chief Guest Mr.Santhosh Varlwar, Prof. Peesapati and Madhavi Varalwar





Second prize: Project- Green Bridge Filtration System (lake an indispensible source of life) Anusha Hedge and Revathi Prasaadh ,DAV Public school, Safilguda, with judges.





**Third Prize**: Project- **Rain Water Harvesting and Hydroelectric Projects/Models** Sairithika and Gokul, Little Flower High School, with Dr. V. Jayathirtha Rao (Member of RSC-DS)



Project- Purification of Ground water, T. Siddharth , P. Sashank Kendriya vidhyalaya High School **Consolation prizes** 



Project- Installation of a simple laboratory reverse osmosis system for purification of water, St.Paul's High School, with Mrs.Madhavi Varalwar I would like to thank all the RSC - Deccan Section members & Mrs. V. L. Peesapati for their constant support to make this event successful.



From L to R: Mrs.Madhavi Varalwar,, Prof. K.S. Sastry, Chairman, Prof. V Peesapati, Dr. Y.V.D. Nageswar, Dr. V. Jayathirtha Rao Mrs. Dr. S.Sreelaxmi, Mrs. Dr. B. Roopavani (RSC-DS Members, Hyderabad)

## On WATER CHEMISTRY & MANAGEMENT For SCHOOL CHILDREN Organized by Royal society of chemistry (LONDON) – Deccan Section In Association with



## 28th July, 2012



#### Water Science Fair - 2012 for School Children

The vision of this Science Fair is to inculcate scientific enquiry, to promote creativity and inspire students in all aspects of water related chemistry. We focus on the application of chemical sciences in the management of the water cycle and the impact of these activities on the natural environment.

#### About Royal Society of Chemistry (London):

Since 1841 the Royal Society of Chemistry (RSC) has been the leading society and professional body for chemical scientists. In the UK the RSC has its offices in London and Cambridge. RSC has offices in China, USA, India and in Japan. "The RSC has a Global Membership of over 48,000 and we are actively involved in the spheres of education, qualification and professional conduct. RSC runs conferences and meetings for college students, chemical scientists, industrialists, and policy makers at both National and International level. RSC also promotes chemistry to the wider public through all media. Our public events at the chemistry center in London are webcast to an International audience.

The RSC is one of the leading scientific publishers, offering an exceptional range of peer-reviewed journals, magazines, books, databases and publishing services to the chemical science community.

#### About BTOPPERS

BToppers is a dynamic foundation program enabling every aspirant to develop a strong base in fundamental concepts and be a future ready student. BToppers includes many multidimensional features that addresses diverse needs of the students and supports them in their educational growth.

Royal Society of Chemistry (London), Deccan Section, Hyderabad, is organizing a Project Work on 28<sup>th</sup> July, 2012, for 10<sup>th</sup> class students. The topic is on the following lines: Quality of water: Monitoring environmental Health How clean is clean – our wells, local rivers, lakes, and municipality water etc. Water Measurement and Purification Drinking Water and Sanitation Waste Water treatment Sustainable & conservation of water Any other topic related to water. The RSC kindles scientific temperament and innovative culture among young students: it helps to give a tangible form to their creative ideas through small projects under the guidance of a faculty member.

The details are mentioned below:	
•Each school can be represented by	2 students only along with a teacher in order to guide their project.
•Prizes will be distributed to the 1st	;, 2nd and 3rd categories of the best projects.
Participation Certificates will be given by the second secon	ven to all participants
by the RSC-Deccan Section.	
•One popular lecture on a scientific	topic will be
delivered by an Expert.	
•Exact time and venue will be annou	unced later.
Evolution procedure:	
Initial screening: The students will	be submitting an abstract about 1000 words on a chosen topic related to water which will lead to a problem
that the students will wish to procee	ed on the project work. The abstract may be in English or Telugu, duly attested by the head master/principal and
submit the same by 28 <sup>th</sup> June 2012.	
Final project selection: Projects qu	alified from the abstracts submitted will be intimated by 30 <sup>th</sup> June 2012. The selected students will have to
submit the final project work in a pr	inted form on 28 <sup>th</sup> July, 2012 and also to give presentation on the same day in front of judges.
Final Projects are evaluated throu	ugh:
Written reports	
•Display board(s)	
•Oral presentation by studer	nts
The written report will include: title	e, authors name and address, abstract, introduction, material data collection, results discussion, conclusions,
acknowledgements and references.	
Note: decision by judges will be fi	nal.
Submission of abstract	: 07 <sup>th</sup> July 2012
Screening results	: 09 <sup>th</sup> July 2012
Final project presentation	: 28 <sup>th</sup> July 2012
Contact:	
	ondon), Secretary, RSC-Deccan Section, 12-13-673/1, Nagarjuna Nagar, Street No.20, Tarnaka, Hyderabad-
500017; Ph: 09391014579; E-mail:	<u>rscdc.vpeesapati@gmail.com</u>
OR	
Dr. V. Jayathirtha Rao, FRSC (Lond	
Ph: 09866063248, E-Mail: jro@iict.r	<u>res.in</u>
OR Mars Marshavi Varishvar madhavi	
Mrs.Madhavi Varalwar madhavi	<u>ewniteboardedu.com</u>
Ph: 91 40 27176005 Ext: 278	

# RSC | Advancing the Chemical Sciences The Royal Society of Chemistry (London),

Inter School Science Fair Competition for 10th Class Students 🐑 on " WATER CHEMISTRY & MANAGEMENT " 🛒 🗇

Certificate of Participation

This is to certify that Mr / Ms. .....

from ..... participated in the Science Fair competition conducted by the Royal Society of Chemistry (London), Deccan Section at IICT Auditorium, Tarnaka, Hyderabad, on 28<sup>th</sup> July, 2012.

Jul Str

Prof. K.S.Sastry, Ph.D, C Chem FRSC Chairman, RSC(London)-DS Hyderabad. 

V. Persapal-

Prof. V Peesapati, Ph.D, C Chem FRSC Secretary, RSC(London)-DS, Hyderabad. rscdc.vpeesapati@gmail.com

Energy

All the local and National news papers have covered this Science Fair event. I am happy to enclose all the news clippings of different daily papers for your information.



Andhra Prabha News Paper on 18th June 2012



సందిశ్ తగరతి విద్యార్థలకు వాటర్ కెమిస్ట్రీలో సైన్ల్ ఫెయర్-2012 బాలానగర్, జూన్ 13 (జీ మీడియా) : పదో తరగతి విద్యార్థులకు వాటర్ కెమిస్టీ అండ్ మేనేజ్మెంటిఫై రాయల్ సొసైటీ ఆఫ్ కెమిస్టీ (లండన్) దక్కన్ సెక్షన్ వారి ఆధ్వర్యంలో సైన్స్ ఫెయిర్-2012ను నిర్వహిస్తున్నా మని ప్రా. వి.మీనపాటి తెలిపారు. ఈ సైన్స్ ఫెయిర్లలో పాల్గొనదలచిన విద్యా ర్థలు ఈ నెలాఖరులోగా దరఖాస్తు వేసుకోవాలని సూచించారు. పరిశుభ మైన నీరు, పర్యావరణ పరిరక్షణ, నీటిని శుభం చేయడం, బావులు, కొలను, సరస్పుల్లో నీటి కొలతలను, నీటి ఫ్యారిఫికేషన్, తాగునీటి శుభత, వృథానీరు, పరిశుభత తదితర అంశాలపై సైన్స్ ఫెయిర్లో వివరిస్తామ న్నారు. వివరాలకు ఫోన్ : 98910 14579లో గానీ, మెయిల్ rscdc.vpeesapati@gmail.comలో కూడా సంప్రదించవచ్చన్నారు. దరఖాస్తులు చేసుకున్న వారి పేర్లను రాయల్ సొసైటీ వారికి పంపి, కార్య కమ షెడ్యూల్ను విడుదలచేస్తామన్నారు. తార్నాకలోని ఐఐనీటీలో ఈ సైన్ఫ్ఫెయిర్ నిర్వహించేందుకు సన్నాహాలు చేస్తున్నట్లు వివరించారు.

Eenadu News Paper on 18<sup>th</sup> June 2012



26<sup>th</sup> june 2012



13

### RSC-DS: SCIENCE FAIR YOUNG CHANS NEWS Dt. 29/07/2012

# **Students teach water** conservation at IICT

PRATIMA SHANTAVI PRATMA SHARTAVEREMENT The sword beam of the word beam of the sword beam of the second The fair was organised by Royal society of Chemistry London) - Deccan Section in association with BTop-

ong the exibits David Among the exibits David Raj and Vijay Kumar, stu-dents from JPMS; Nacharam who participated in the fair had prepared a working model. Their proj-ect was a model of rural vil-lage and urban apartment side by side. They explained how rain water can be used how main water can be used

to produce electricity in the o produce electricity in the areas. There were models reas which are falling short prepared by other school

Advancing the hemical Sciences **ROYAL SOCIETY OF C** DECCAN SECTION. SCIENC Prof. B. Venkateshwar Rao addressing the gathering

JPMS students display their model. Photos: Yuvraj Akula of it and to replenish the dried bore wells in urban equally commendable

children at weight commendable. The science finar saw parting schools all over the city. The participants looked very is of ubias science fair was to is of whis science fair was to is of was retained between the city. The participants looked very is of was retained between the city. The participants looked very is of was retained between the city. The participants looked very is of was retained between the city. The participants looked very is of was retained between the city. The participants looked very is of was retained between the city. The participants looked very is of was retained between the chemical sciences in the activities on the natural environment. Students were natural to the science fair was to is of was retained between the chemical sciences in the activities on the natural environment. Students were natural to the science fair was to is of was retained between the chemical sciences in the activities on the natural environment. Students were natural to the science fair was to is of was retained between the science fair was to is of was retained between the science fair was to is of was retained between the science fair was to is of was retained between the science fair was to is of was retained between the science fair was to is of was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be was retained to may and science fair was to be scie



CONSERVATION MESSAGE: Students explaining their models to visitors at the science fair on Saturday. - PHOTO: G. RAMAKRISHNA

Around 30 teams from var-

ious schools across the city

showcased models about

cling.

#### Staff Reporter

HYDERABAD: The groundwater levels in different parts of the ity are depleting every year and methods of water recycity are depleting every year much to the chagrin of the city dwellers. However, hardly do people construct rainwater harvesting pits in their houses to improve the situa- methods of waste water recy-

nouses to improve the situa-tion. clinic, A team from DAV Pub-lic School, Saflguda, presented a model called organised by Royal Society of Chemistry - Deccan section system. The method involves at the event exhibited differ- it could be adapted without Hyderabad.

ent models, presented power- going in for major technical point presentations and pictorial charts sensitising requirements like in the case of setting up Sewerage Treat-ment Plant," claimed Anusha Hegde, a team member. The method involves mak-

ing good use of natural resources like coir, water hyacinth, gravels and is ideal for rural set up, they said.

Another team from Sri Chaitanya Techno School, Kukatpally exhibited the Domestic Sewerage Waste Chemistry – Deccan section system. The method involves here on Saturday promoted utilising the existing nalas for tulifies. The exhibition was the need to construct rainwa-severage water recycling. "In inaugurated by Santosh Vara-ter harvesting pits and recy-cle the waste water. Students tive and eco-friendly method, rector, Vivimed Labs,

Thanks to VIVIMED Labs for their hospitality in conducting this event.

RSC - Deccan Section, Hyderabad are happy to convey sincere thanks to The Royal Society of Chemistry – London (U.K) for their financial support to this special event on *Science Fair* for school children. It was a grand success......

**Prof. Venkateswarlu Peesapati** Ph.D,CChem, FRSC, Hon. Secretary RSC-Deccan Section, Hyderabad, A.P, INDIA