

RAMAN SCIENCE CENTRE & PLANETARIUM, NAGPUR

ANNUAL ACTIVITY REPORT FOR THE YEAR 2014-15

INTRODUCTION

The year 2014-15 was an eventful year at Raman Science Centre & Planetarium, Nagpur with varied activities and programmes round the year. The parking area at the entrance was developed and provided with paver blocks to facilitate parking for the visitors. This has also enhanced the outlook and ambience of the entrance to the Centre. A New 3-D Theater was constructed at the centre and installed with High Definition Projection System & 5.1 digital DTS surround Sound System. The theatre was inaugurated with launching of new film titled Panda Vision. The work for construction of hall for development of **Innovation Hub** was started and is nearing completion. 8 New exhibits were added to the Fun Science gallery and Science Park. 06 Nos. of Duplicate exhibits were developed for upcoming centres and 06 Nos. of new Kits were fabricated during the year. 01 Science Park Exhibit was also renovated during the year. In the Planetarium of the Centre 115534 visitors enjoyed the 1609 shows during the year. One new Planetarium show titled "Sailing the Sky" was also developed at the Centre. Travelling exhibition on "**History of Astronomical Photography**", **Science Expo: An Exposition of Scientific & Research Organizations**, Program on International Year of Crystallography, **Mega Drawing Contest**, **RobOlympics** were the events of attraction this year. This year the centre started a new activity viz. **Nagpur Science & Engineering Fair** which attracted large number of Students of Engineering Colleges & UG/PG Science Colleges. Other exhibitions such as exhibition on Bio-Diversity Park, River Joining Project, My Own Collection and Medicinal Plants & Products were also organised at the Centre on different occasions.

The year 2014 was celebrated as **International Year of Crystallography**. Various Educational activities such as Popular Science Lectures, Quiz, Painting Contest, Science Film Festivals, Sky Observation Programmes, Teachers' Training Programmes, Vacation & Regular Creative Ability Centre, Science Drama Festival, Science Seminar, Planetarium Shows, Mobile Science Exhibitions, Tree Plantation, Meet the Scientist, International Olympiad Test, Aero-modelling, NMTC Exam, Quest, Annual Science quiz, Poster Exhibition, Science Slogan Writing, , Essay Writing, Elocution, Science March, Treasure Hunt Contest Power Point presentation Contest, Science News Board, V-SAT Programmes, Saturn observation Weeks, Telescope Making etc. were organised during the year by collaborating with different institutions. Light & Sound Shows in Prehistoric Animal Park, 3-D Film Shows, Science Shows & Demonstration Lectures were conducted regularly for the students & general public. The events like Workshops on Robotics, Mathematics, Model Rocketry, Space Technology education, Working Science Model Contest, Teaching Aid Demonstration Contest, Hand Writing Contest, Mega Drawing Competitions and Science Expo. Nagpur Science & Engineering Fair attracted large number of visitors.

During the year 1609 planetarium shows, 2809 3-D shows & 82 Light and Sound shows in Prehistoric Animal Park were conducted in which 115534, 103361 and 62350 visitors visited respectively. 14 commemorative programmes viz World Earth Day, National Technology Day, International Museum Day, World Environment Day, Hiroshima Day, Hindi Pakhwada, Engineers Day Celebration, World Science Day, Children's Day Celebration, World Toilet Day, International Year of Crystallography, National Science Day, Anniversary Week Celebration, National Mathematics Day etc.. In all **4,38,744** visitors visited the centre during the year.

The Mobile Science Exhibition "FunScience" travelled in Akola and Chandrapur Districts covering 70 sites and was visited by 95870 students.

2. GENERAL INFORMATION

Name of the Centre	RAMAN SCIENCE CENTRE & PLANETARIUM, NAGPUR
Head of Museums/centre & Designation	Shri V. N. Joshi, Project Coordinator
Full Address	Opp. Gandhi Sagar, Nagpur 440018
STD Code	0712
Phone Number	0712-2735800 0712-2770187
Fax	0712-2735800
email	ramanscn@dataone.in, pc@rscnagpur.gov.in
Hours of Opening	10.30 am to 6.00 pm (Nov. to Feb) 11.30 am to 7.00 pm (Mar to Oct.)
Closed on	Diwali & Holi
Inaugurated on	07.03.92 Centre 31.01.06 Prehistoric Animal Park Light & Sound Show 03.08.07 Information & Communication Technology gallery.

	09.03.10 Invention Gallery 27.08.11 Digital Planetarium
Total Floor Area	4333 sq. meters
Staff Strength	Scientific/Technical : 15 Non Technical: 07
Admission Fee	
A. Science Centre	
• General Visitor	Rs. 20/-
• Students in Group	Rs. 10/-
• Members	Free
B. Planetarium	
• General Visitor	Rs. 40/-
• Students in Group	Rs. 25/-
C. 3-D Theatre	
• General Visitors	Rs. 20/-
• Students in Group	Rs. 10/-
D. Prehistoric Animal Park	
• General Visitors	Rs. 20/-
• Students in Group	Rs. 10/-
E. Package tour 1 includes A,B,C	
• General Public	Rs. 70/-
• Students in group	Rs. 30/-
F. Package tour 2 includes ABCD	
• General Public	Rs. 80/-
• Students in group	Rs. 35/-
G. Package tour 3 includes ABCD	
• Students in Groups from Govt./Municipal Schools	Rs. 20/-

VISITORS TO MUSEUM/CENTRE	01.04.2014 to 31.03.2015
Name of Museum/Centre	Raman Science Centre, Nagpur
No. of school group	1101
No. of students in Group visits	95859
No. of visitors to special programmes	133115
No. of general visitors	209770
No. of visitors to the Planetarium	115534
No. of visitors to 3 D Show	103361
No. of visitors to Prehistoric animal park Light & Sound Show	62350
Total visitors to the Museum/Centre during the year	438744
Total visitors since inauguration up to the period of report	8292347

3. EXISTING GALLERIES

Name of the Museum/ Centre	Name of the gallery	Floor Area (Sq.m)	Date of inauguration	Date of major renovation	No. of exhibits
Raman Science Centre	Science Park		07.03.92		65
	Fun Science	373	07.03.92	2009	76
	Prehistoric Animal Park	6400	31.01.06	2012	48
	Information & Communication Technology Gallery	520	03.08.07		73
	Invention	550	09.03.10	2010	55
	Digital Planetarium	492.78	27.08.11	2011	

4. NEW GALLERIES/OTHER FACILITIES/MAJOR RENOVATION

The Centre developed 14 new exhibits for different galleries as below. 04 Nos. for Fun Science, 04 No. for Science Park. 06 Nos. of duplicate exhibits on Fun Science were fabricated for other up-coming Science Centres. 06 Nos. of new Kits were fabricated during the year. 01 Science Park exhibit was also renovated during the year.

5. MOBILE SCIENCE EXHIBITION UNITS

Name of the Centre	Title	Developed at	No. of Exhibits	Year of Development	Major Renovation
Raman Science Centre	Fun Science	RSC, Nagpur	20	2011	---

6. SCIENCE PARK

Name of the Centre	Area of Science Park	No. of Exhibits	Date of Inauguration of Park	Nos. of Exhibits added during the year
Raman Science Centre	4.12 Acres 6400 sq. mtrs*	RSC, Nagpur	11-04-1987 31-01-2006*	04

* Pre-historic Animal Park

7. EXHIBIT DEVELOPMENT

Name of the Museum/Centre	Raman Science Centre, Nagpur
No. of gallery exhibits	04
No. of park exhibits	04
No. of exhibits for upcoming Science Centers	06
No. of MSE exhibits	00
No. of exhibits for temporary exhibition	00
No. of kits developed	06
No. of duplicate kits(in-house)	00
No. of duplicate exhibits(in-house)	00
No. of duplicate exhibits (outside agencies)	00
No. of duplicate kits(outside agencies)	00
No. of exhibits renovated	01

List of Exhibits fabricated & renovated at Annexure II.

8. MOBILE SCIENCE EXHIBITION PROGRAMMES

The MSE's are meant to take the knowledge of science & technology to the doorstep of common man living in rural areas. The sites for holding such exhibitions are selected in collaboration with Education Departments of respective States/Units. In addition to holding of the exhibition mounted on specially designed buses, science films shows, sky Observation Programmes, Taramandal shows, Science demonstration lectures etc., to prove special attraction for rural populace.

Name of the Museum/Centre	Name of the vehicle	Theme of the exhibits	No. of Exhibition days	Kms. traveled	No. of Exhibition sites	No. of visitors
RSC,Nagpur	MH-31-3978	Fun Science	140	2196	70	95870

9 . SCIENCE EDUCATION ACTIVITIES

A. SCIENCE DEMONSTRATION LECTURES

Science Demonstration Lectures are arranged to impress upon the students and teachers how lectures of classrooms can be made more exciting and experiencing when they are delivered with the aid of low cost demonstration equipment. This aspect of teaching, normally neglected, acts as a supplement to formal science education in schools.

Name of the Museum/Centre	Name of the SDL Unit	No. of Lectures held in Museum/ Centre	No. of students attended the lecture	No. of lecture held outside Museum	No. of students attended the lecture
RSC, Nagpur	Fun At Low Temperature	65 87* 278**	35647	02	450
	Air Pressure & Vacuum				
	Principles of Flight				
	Colorful Chemistry				
	Static Electricity With Vande Graff Generator				
	Newton's Laws of Motion				
Electromagnetic Induction					

*SDL at MSE sites.

** Science Show in Fun Science Gallery

B. SCIENCE FILM SHOWS

Science film show programme is a regular activity in all Science Centres and at mobile science exhibition Sites: Film on important topics of science & technology are screened.

Name of the Centre	No. of film shows held at					
Raman Science Centre, Nagpur	The Centre	Visitors	MSE Site	Visitors	Film Festival	Visitors
	143	12095	87	25411	02	3750

3-D SCIENCE FILM SHOW

No. of Shows	No. of Films Screened	No. of Visitors
2809	2809	103361

PRE-HISTRORIC ANIMAL PARK LIGHT & SOUND SHOW

No. of Shows Held	No. of Visitors
82	62350

C. NATURE STUDY CAMP

Name of the Centre/Museum	Venue	Duration	No. of Students	No. of Teachers
Raman Science Centre, Nagpur	NIL	NIL	NIL	NIL

D. POPULAR SCIENCE LECTURES

(Please see Annexure for details of lectures)

Name of the Centre/Museum	No. of Popular Lectures held	Audience
Raman Science Centre, Nagpur	32	4791

E. PLANETARIUM /TARAMANDAL SHOWS

Name of the Museum/Centre	No. of shows held	Audience
Raman Science Centre, Nagpur	1609	115534

*Planetarium Show

F. SCIENCE QUIZ

Raman Science Centre, Nagpur	No. of quiz rounds held	No. of participants	Audience
	43	2727	5833

G . SKY OBSERVATION

Name of Museum/Centre	No. of programmes held	No. of participants
Raman Science Centre, Nagpur	88	4680

H. VIDEO PROGRAMME/SOFTWARE/MULTI MEDIA PROGRAMME DEVELOPED:

Name of Museum/Centre	Subject	Duration in Minutes	Format: Video/Multimedia
Raman Science Centre, Nagpur	Virtual World		Dotnet (Multimedia)
Raman Science Centre, Nagpur	Virtual Reality		Dotnet (Multimedia)

I. SLIDE/VIDEO SHOWS

Name of Museum/Centre	No. of Programmes held	No. of Participants
Raman Science Centre, Nagpur	00	00

10. CREATIVE ABILITY CENTRE**A. SCIENCE FAIR**

Name of Museum/Centre	Venue of the Fair/Camp and date	Level(Dist./Zonal/State)	No. of schools participated	No. of students & teachers		No. of projects	No. of visitors
Raman Science Centre, Nagpur	RSCN	Orange City Science Fair	54	184		156	32,540
Raman Science Centre, Nagpur	RSCN	Science Expo	13 Institutions				62500
Raman Science Centre, Nagpur	RSCN	RobOlympoics	25	96		51	14304
Raman Science Centre, Nagpur	RSCN	Nagpur Science & Engineering Fair	24	231		100	10,376
Raman Science Centre, Nagpur	RSCN	Maths Teaching Aid Demonstration cum Exhibition	10	25		25	783

* Teachers

Orange City Science Fair & International Year Of Crystallography:

To mark the International Year of Crystallography, Orange City Science Fair was organised at Raman Science Centre, Nagpur in collaboration with Navneet Education Limited, Nagpur during 22nd to 24th December 2014. Dr. P. Sivaswaroop, Regional Director, IGNOU, Regional Centre, Nagpur, Dr. S. S. Bhoga, Professor, Dept. of Physics, RTM Nagpur University and Dr. Ravin Jugade, Associate prof. Dept. of Chemistry, R.T.M. University, Nagpur inaugurated the three day Orange City Science Fair.

Working Science Model Contest and exhibition was organised for the period of 22th December to 24th December 2014 in which 162 students from 54 schools participated with 132 nos. of Models. Teaching aid Demonstration contest was also organised during the celebration in which 24 teachers participated from 12 different schools.

Poster Exhibition on Crystallography was on display during the celebration. The Posters were submitted by the 107 students of 26 Schools.

The Students & Teachers demonstrated their models & Kits to the visiting students, Teachers and general public for all the three days. About 32,540 students, teachers and general public visited the exhibition.

Science Expo-2015

'Science Expo', a unique event to bridge the gap between science and society was organised at Raman Science Centre, Nagpur, with collaborative efforts of 13 Science & Technology institutions in Maharashtra from January 7 – 11, 2015. The **Science Expo 2015** was inaugurated on 7th Jan. 2015 at 11.00 am. by Smt. Geetha Vardan, Director, Advanced Data Processing Research Institute, Hyderabad. Dr. Satish R. Wate, Director, NEERI, Nagpur presided over the function. Other heads of the institutions and scientists were present. After inauguration the Science Expo was open for public from 11.00 am. to 5.30 pm on 5 days. The Science expo received overwhelming response as about 62500 visitors including students, teachers and general public visited during 5days. Popular Science Lectures were held at 12.00 noon, and 3.30 pm every day. 10 scientists from different organisations delivered lectures during the event. In all about 1900 students attended the lectures.

ROBOLYMPICS-2015

Raman Science Centre in collaboration with iLabs, Nagpur organised its most creative competition "RobOlympics-2015" from 30th Jan - 1st Feb, 2015. The event Rob Olympics was inaugurated by Dr. A.K.Joshi, Regional Manager, Regional Remote Sensing Centre-Central Region, Nagpur. Shri. Vishwanath Joshi, Project Coordinator, Raman Science Centre, Shri Abhishek Angole, Director, iLabs, Nagpur were also present on the occasion. Robo Pradarshini, Robo Race & Robo the-e-handi were the events organized. Robo Pradarshini was the robotics exhibition, an open platform for the enthusiastic students to showcase their creative and innovative models, participated by 96 students in 51 teams This was for two categories viz. School Students & Jr. College Students. The Robo-Pradarshini was open for students & general public till 01st February 2015. 14304 student, teachers & general public visited the exhibition and also witnessed the events Robo Race & Robo the-e-handi during this period.

1ST NAGPUR SCIENCE & ENGINEERING FAIR:

In order to encourage innovative ideas of college students and to enhance their thinking ability towards the research in the field of science & technology, Raman Science Centre in collaboration with Technology Park, RTM Nagpur University, Nagpur and Indian Science Congress, Nagpur Chapter, organized the **Nagpur Science & Engineering Fair** for the first time from **19 to 21 February 2015** at Raman Science Centre. The 1st Nagpur Science & Engineering Fair was inaugurated on 19th February 2015 at 10.00 am by Prof. Vinayak Deshpande, Vice Chancellor, RTM, Nagpur University. Dr. Narendra Chaudhari, Director, Visvesvaraya National Institute of Technology, Nagpur presided over the function. Dr. Harjeet Juneja, Director, Technology Park, RTM Nagpur University was also present on the occasion. 180 students with their 70 selected innovative research based Science & Engineering projects in the form of 3D working Models. 51 Projects in the form of posters from 30 Science & Technology institutions in and around Nagpur also participated in the fair. This fair served as a platform for young college students to exchange their ideas with other participating students and also had an opportunity to interact with students and general public visiting the fair in large number. The event was witnessed by over 10,376 general public including many college/school students who not only saw the exhibition but also had an opportunity to interact with the participants during this 3 day event.

Teaching Aid Demonstration Contest & Exhibition:

Teaching Aid Demonstration Contest & exhibition was organized on the occasion of National Mathematics Day celebration on 19 & 20th March 2015. 25 teachers of 10 schools & colleges participated in it. The exhibition was visited by 783 visitors.

B. SCIENCE SEMINAR

Name of the Museum/Centre	Venue & Date	College/School	Level(Dist/Zonal/State)	No. of students	No. of Institutions participated	Audience
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Raman Science Centre, Nagpur	RSCN 27 th August 2014	School	District Level	10	10	145
	RSCN 06 th September 2014	School	Divisional Level	06	06	108

Science Seminar:

District level & Divisional level Science Seminars were organised in collaboration Education Dept. (Secondary), ZillaParishad, Nagpur and on 27th August 2014 and 06th September 2014 resp. on the theme "Innovations in Agricultural Development Prospectus & Challenges". 16 students from 16 schools of various districts of Nagpur Division participated in it. 253 students & teachers witnessed the seminar.

C. CREATIVE ABILITY/VACATION HOBBY WORKSHOP

Name of the Museum/Centre	Raman Science Centre, Nagpur
No. of projects completed in Museum's CAC	18
No. of students involved in above	32
No. of vacation CAC in Museums	10
No. of students involved in above	294
No. of projects completed in above	973
No. of outstation CAC programme	
No. of Students involved in above	
No. projects completed in above	

FOLLOWING CREATIVE WORKSHOPS WERE HELD AT RSCN

Venue	Date	Topic	Nos. of students participated
RSCN	July 18-19, 2014	Space Technology Education	110
RSCN	August 7-8, 2014	Space Technology Education	105
	17.08.2014	NMTC Exam	275
RSCN	22-23.08.2014	Workshop For The Science Supervisors & Consultants	60
RSCN	September & October 2014	Robotics	123
RSCN	01.10.2014	Mathematics	250
	07-11 October 2014	National Standard Examinations	525
RSCN	09.11.2014	Daytime Astronomy	40
	15.01.2015	Orientation Programme For The Students Of INSPIRE Workshop	200
RSCN	17th & 18th March 2015	Mathematics	50

D. SIT & DRAW/ESSAY WRITING/ELOCUTION COMPETITION

These programmes are organised to encourage children express themselves on various science fiction topics. The programmes are well attended and the work of children is normally commendable.

Name of Museum/Centre	Name of the contest	Date & Occasion	No. of participants	Subject
RSCN	Sit & Draw Contest	22 April, 2014	148	1. Save Our Mother Earth, 2. My Favorite Animal/Bird,

				3. Energy Resources, 4. Green Cities, 5. Global warming and climate Change.
RSCN	Open House Quiz	22 April, 2014	120	Our Earth
RSCN	Sit & Draw Contest	18 May, 2014	135	Tribal Art & Culture & Traditional Science in Rural Area
RSCN	Open House Quiz	18 May, 2014	155	Museums
RSCN	Sit & Draw Contest	05.06.2014	110	My Pet Animal, Save Forest & Raise your Voice not Sea Level, Global Warming
RSCN	Open House Quiz	05.06.2014	120	Environment
RSCN	Open House Quiz	06.08.2014	125	Atom Bomb- Effect on Human & Environment
RSCN	National Mathematics Talent Contest	23.08.2014	814	Mathematics
RSCN	Hindi Bhashan Pratiyogita	18.08.2014	120	Prakrutik Sansadhano ke Prabandhan main Bhartiya Antariksh Karyakram KaYogdan
RSCN	Essay Writing Contest	24.08.2014	120	Space Technology for Nation Building & for the benefit of Common Men
RSCN	Written Science Quiz	16.09.2014	158	Indian Space Technology
RSCN	National Mathamatics Talent Contest (Final exam.)	01.11.2014	273	Mathematics
RSCN	Treasure hunt	09.11.2014	113	exhibits in different galleries
RSCN	Science Quest	10.11.2014	155	Science experiments
RSCN	Sit and Draw contest	14.11.2014	372	1. My Clean & Green School, 2. Swachh Bharat Mission, 3. India's Mars Mission & Science & Technology for Development of India
RSCN	National Standard Examination	23.11.2014	751	Physics, Chemistry, Biology, Astronomy, Junior Science
RSCN	Working Science Model Contest	22-24 .12.2014	162	Physical Science
RSCN	Teaching Aid demonstration Contest	22-24 .12.2014	24	Physical Science & Maths
RSCN	Written Science quiz	22 .12.2014	354	1.General Science 2. Crystallography
RSCN	Open House quest	24.12.2014	375	experiments in Physics
RSCN	Poster contest	24.12.2014	107	Crystals that shape our Life
RSCN	Open House quest	15.01.2015	200	Physics Experiment
RSCN	Essay Writing Contest for teachers	26.02.2015	38	Science For Nation Building
RSCN	Science Slogan Writing Contest	25.02.2015	190	Science for Nation Building, Save Girl Child, Swachha Bharat Abhiyan.
RSCN	Mega Drawing Contest	27.02.2015	3568	Category- I (Std. I-IV) 1. My Favorite Animal 2.My Green school 3. Swachha Bharat Abhiyan Category-II (Std. V-VII) 1.Hamara Mangalyaan,

				2. I am in Science Park 3. Swachha Bharat Abhiyan Category –III (Std. VIII – IX) 1. Science For Nation Building 2. Save Girl Child 3. Sir C. V. Raman
RSCN	Open House Quiz	28.02.2015	138	Sir C.V. Raman- His Life & Work
RSCN	Written Science quiz	02.03.2015	278	General Science & Physics of Light
RSCN	Elocution Competition	03.03.2015	36	Mangalyaan: Promises & Concerns
RSCN	Treasure hunt	04.02.2015	135	Gallery exhibits at RSCN
RSCN	Power Point Presentation Competition for teachers	05.03.2015	20	Understanding Light
RSCN	Open House quest	07.02.2015	125	science experiments
RSCN	Written Maths Quiz	18.02.2015	168	General Maths
RSCN	Teaching Aid Demonstration Contest	19-20 03.2015	25	Mathematics

11. TRAINING

A. TEACHERS' TRAINING PROGRAMMES (TTP)

Teachers' Training Programme envisages providing an opportunity and exposure to secondary/primary school teachers in handling of tools & raw materials. It also introduces them to techniques as well as ideas for developing low cost teaching aids with ultimate goal of 'build your own laboratory' concept.

Venue of the Programme	Number of the Programme	No. of teachers	No. of teaching aids/kits developed
RSC, Nagpur	02	50	32

B. COMPUTER TRAINING PROGRAMMES

Name of the Centre	Number of Programmes	No. of participants	Subjects
RSC, Nagpur	NIL	NIL	NIL

C. ASTRONOMY & TELESCOPE MAKING PROGRAMMES

During the telescope making programme the participants are given training in grinding & polishing of mirrors and finally in fabrication of reflector type telescopes and testing of the same.

Name of Museum/Centre	Nos. of Programmes	No. of participants	No. of telescope made
RSCN	02	68	68

D. AEROMODELLING

Name of Museum/Centre	No. of programmes	No. of participants	Types & No. of Models
RSCN	02	41	3 types/ 41 each

E. MODERL ROCKETRY

During the telescope making programme the participants are given training in grinding & polishing of mirrors and finally in fabrication of reflector type telescopes and testing of the same.

Name of Museum/Centre	Venue of Programme	No. of Programmes	No. of participants	Nos. of Models made
RSCN	RSCN	05	321	450

12. COMMUNITY PROGRAMME

A. DEVELOPMENT OF SCIENTIFIC TEMPER:

This programme is aimed at creating a scientific temper in society by demystifying various myths and superstitions prevalent in the society. Demonstration lectures are regularly organised in each centre.

Name of the Museum/Centre	Event Topic	No. of programmes	Audience	No. of trained outside volunteers
Raman Science Centre	Special Orientation programme for students of Naxal affected area of Gadchiroli	02	235	nil
TOTAL				

B. SCIENCE DRAMA /PUPPETRY/OTHER FORMS OF PERFORMING ART

Science centres incorporate various science communication methods to effectively disseminate the information. This programme is one of such methods, which is very effective for young children.

Name of Museum/Centre	Level	Topic	No. of Schools	No. of participants	Audience
RSCN	District Level	Science & Society	02	16	120
	Divisional Level	Science & Society	03	24	145

C. OTHER COMMUNITY PROGRAMMES

Name of Museum.	Nature of Programme	Venue	Duration	No. of Participant
RSCN	Mother Earth: Protection & Conservation	RSCN	22.04.2014	388
RSCN	Popular Lecture on Evolution of Man	AnSI, Nagpur	18.05.2014	155
RSCN	Exhibition My Own Collection	RSCN	15.05.2014 to 18.05.2014	9875
RSCN	Quiz on Indian Cultural Heritage	AnSI, Nagpur	18.05.2014	155
RSCN	Saturn Observation programme	RSCN	15.05.2014 to 30.05.2014	2010
RSCN	exhibition of Medicinal plants and plant products, Project of Joining Rivers & Biodiversity Park	RSCN	05.06.2014	1200
RSCN	Lecture on Global Warming	RSCN	05.06.2014	150
RSCN	Friend of Environment Activity	RSCN	05.06.2014	125
RSCN	Tree Plantation by Maitry Pariwar	RSCN	15.07.2014	50
RSCN	Teachers Meet for Green Finger Award Programme	RSCN	26.07.2014	65
RSCN	A Popular Science Lecture on the theme "Atom Bomb- Effect on Human & Environment"	RSCN	06.08.2014	125
RSCN	Science Seminar on Innovations in Agricultural Development Prospectus & Challenges (District Level)	RSCN	27.08.2014	145
RSCN	Science Seminar on Innovations in Agricultural Development Prospectus & Challenges (Divisional Level)	RSCN	06.09.2014	108
RSCN	Ganit Jagar Yatra	RSCN & 4 schools	01.10.2014	250
RSCN	Science Drama festival District level	RSCN	07.10.2014	120
RSCN	Science Drama festival Divisional level	RSCN	05.11.2014	145
RSCN	live Web-cast on Large Hadron Collider	RSCN	10.11.2014	137
RSCN	Popular Science Lecture On Ebola Virus And Its Effect On Human Health	RSCN	10.11.2014	120
RSCN	Popular Science Lecture on World Toilet Day	RSCN	19.11.2014	120
RSCN	Handwriting contest	RSCN	20.12.2014	4750
RSCN	Green Finger & Green School Award Contest	RSCN	01.10.2014 to 28.01.2015	2350
RSCN	Science Expo	RSCN	07.01.2015 to 11.01.2015	62500
RSCN	Nagpur Science & Engineering fair	RSCN	19.02.2015 To 21.02.2015	10,376
RSCN	Science March	RSCN	28.02.2015	550

13. COMMEMORATIVE EVENTS

Sl. No.	Name of Museum/ Centre	Nature of Programme	Venue	Duration	No. of Participation
1.	RSCN	World Earth Day	RSCN	22.04.2014	388
2.	RSCN	National Technology Day	RSCN	11.05.2014	165
3.	RSCN	International Museum Day	RSCN	15.05.2014 to 18.05.2014	10165
4.	RSCN	World Environment Day	RSCN	05.06.2014	1580
5.	RSCN	Hiroshima Day	RSCN	06.08.2014 To 10.08.2014	2625
6.	RSCN	Hindi Pakhwada	RSCN	18.09.2014	178
7.	RSCN	Engineers Day Celebration	RSCN	24.08.2014 &	265

				20.09. 2014	
8.	RSCN	World Science Day	RSCN	09.11. 2014 & 10.11.2014	743
9.	RSCN	Children's Day Celebration	RSCN	14.11. 2014	522
10.	RSCN	World Toilet Day	RSCN	19.11.2014	120
11.	RSCN	International Year of Crystallography	RSCN	22.12.2104 to 24.12.2104	33787
12.	RSCN	National Science Day	RSCN	24.02. 2015 to 28.02. 2015	1165
13.	RSCN	Anniversary Week Celebration	RSCN	01.03. 2015 to 07.03. 2015	1384
14.	RSCN	National Mathematics Day	RSCN	17.03.2015 To 20.03.2015	1012

14. COLLABORATIVE PROGRAMME

See Annexure V for more details

15. TRAVELLING /TEMPORARY EXHIBITIONS

Temporary exhibitions are organised to highlight various important issues concerning society with scientific input.

My Own Collection Exhibition:

An Exhibition titled My Own Collection was organised at the Centre on the occasion of International Museum Day Celebration. The exhibition was inaugurated on 15th May 2014. The exhibition was participated by members of Chhand Vaibhav, Nagpur & enthusiast student members of Raman Science Centre, Nagpur. Various articles and collection such as Stamps, Coins, Antiques, brass articles, Newspapers, Shoe Shape articles, Match Boxes, Currency notes, origami, gramophone Records & Players, Sea Shells Artifacts of Film projector etc. depicting the historical importance were kept in the exhibition. The exhibition was open for public till 18th may 2014. In all 9875 students, Members & general public visited the exhibition.

Exhibition of Medicinal Plants & Products:

Besides their valuable service in environment, many Plants also have the medicinal values. Different parts of plants are used as medicines in curing different ailments. An exhibition of Medicinal plants and plant products, Project of Joining Rivers & Biodiversity Park was organised at the centre. The exhibition was inaugurated by Prof. Dr. M. T. Bharambe, Director, Institute of Science, Nagpur. The exhibition was visited by about 1200 visitors during the day.

Hiroshima Day:

Raman Science Centre in collaboration with Indian Institute for Peace, Disarmament and Environmental Protection, Nagpur organised Photographic Exhibition on HIROSHIMA to commemorate Hiroshima day on 06th August 2014. Photographic Exhibition was on display from 06 to 10 August 2014. About 2500 students & general public witnessed the exhibition.

Inauguration of The Exhibit "Nuclear Power Plant"

The exhibit on Nuclear Power Plant donated by Nuclear Power Corporation of India LTD, Mumbai, was installed in the Fun Science Exhibition Gallery at Raman Science Centre & Planetarium and inaugurated by Dr. Satish Wate, Director, National Environmental Engineering Institute (NEERI), Nagpur & Chairman Local Advisory Committee (LAC), RSC, Nagpur on 10th October 2014 in presence of Dr. Amit Mazumdar, Regional Director, Atomic Mineral Directorate for Exploration & Research, Nagpur. Other members of LAC Dr. A.K.Joshi, General Manager, Regional Remote Sensing Centre (ISRO), Nagpur, Dr.

Narendra Chaudhari, Director, Visveswaraiya National Institute of Technology (VNIT), Nagpur, Dr. Dharmaraj Tidke, Prof. Dept. of Mechanical Engineering, G.H. Raison College of Engineering, Nagpur & Ms. Vinita Bawar, Principal, New Apostolic English High School, Nagpur were also present on the occasion.

Orange City Science Fair & International Year Of Crystallography:

To mark the International Year of Crystallography, Orange City Science Fair was organised at Raman Science Centre, Nagpur in collaboration with Navneet Education Limited, Nagpur during 22nd to 24th December 2014. Following Programmes were conducted:

Dr. P. Sivaswaroop, Regional Director, IGNOU, Regional Centre, Nagpur, Dr. S. S. Bhoga, Professor, Dept. of Physics, RTM Nagpur University and Dr. RavinJugade, Associate prof. Dept. of Chemistry, R.T.M. University, Nagpur inaugurated the three day Orange City Science Fair.

a) Working Science Model Contest: Working Science Model Contest and exhibition was organised for the period of 22th December to 24th December 2014 in which 162 students from 54 schools participated with 132 nos. of Models.

b) Teaching Aid demonstration Contest: Teaching aid Demonstration contest was also organised during the celebration in which 24 teachers participated from 12 different schools.

c) Poster Exhibition : Poster Exhibition on Crystallography was on display during the celebration. The Poster were submitted by the 107 students of 26 Schools.

The Students & Teachers demonstrated their models & Kits to the visiting students, Teachers and general public for all the three days. About 32,540 students, teachers and general public visited the exhibition.

Travelling Exhibition “History of Space Photography”

Travelling Exhibition titled “History of Space Photography” has set up at Raman Science Centre. The exhibition was inaugurated on 18th December 2014. Dr. Madhukar Apte, Retd Reader, Physics, SFS College was the Chief Guest and Dr. P.V. Khandekar, Fellow of Maharashtra Academy of Sciences presided over the function. It was followed by an Open House Quiz on History of Space Photography. 145 students participated in the inaugural function as well as Open House Quiz.

“The History of Space Photography” – exhibition features 150 images that chronicle the advancement of extraterrestrial picture-taking, from black-and-white images of the moon to incredibly detailed digital photos of galaxies outside our solar system.

The exhibition was open for students, teachers & general public till 31st January 2015. Total 1,75,514 Students, Teachers and general visitors visited the exhibition

'Science Expo', a unique event to bridge the gap between science and society was organised at Raman Science Centre, Nagpur, with collaborative efforts of 13 Science & Technology institutions in Maharashtra from January 7 – 11, 2015. The following Research and Scientific organisations showcased their R & D activities in the 'Science Expo 2015':

1. Anthropological Survey of India, Nagpur
2. Atomic Minerals Directorate for Exploration & Research, Nagpur
3. Bharat Sanchar Nigam Limited, Nagpur
4. Central Institute for Cotton Research, Nagpur
5. CSIR-National Environmental Engineering Research Institute, Nagpur
6. Govt. Medical College & Hospital, Nagpur
7. Indian Society of Heating Refrigeration & Air-conditioning Engineers Nagpur Chapter
8. National Research Centre for Citrus, Nagpur
9. Nuclear Power Corporation of India Ltd. Mumbai
10. Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra, Nagpur
11. Raman Science Centre & Planetarium, Nagpur
12. Regional Remote Sensing Centre, Nagpur
13. Visvesvaraya National Institute of Technology, Nagpur

The **Science Expo 2015** was inaugurated on 7th Jan. 2015 at 11.00 am. by Smt. Geetha Vardan, Director, Advanced Data Processing Research Institute, Hyderabad. Dr. Satish R. Wate, Director, NEERI, Nagpur presided over the function. Other heads of the institutions and scientists were present. After inauguration the Science Expo was open for public from 11.00 am. to 5.30 pm on 5 days. The Science expo received overwhelming response as about 62500 visitors including students, teachers and general public visited during 5days.

Popular Science Lectures were held at 12.00 noon, and 3.30 pm every day. 10 scientists from different organisations delivered lectures during the event. In all about 1900 students attended the lectures.

Valedictory function was held on 11th Jan. 2015 at 7.00 PM. Dr. K. R. Kranthi, Director, Central Institute for Cotton Research, Nagpur was the chief guest and Dr. Amit Majumdar, Regional Director, Atomic Mineral Directorate for Exploration & Research, Nagpur, presided over the function.

ROBOLYMPICS-2015

Raman Science Centre in collaboration with iLabs, Nagpur organised its most creative competition "RobOlympics-2015" from 30th Jan - 1st Feb, 2015. The event Rob Olympics was inaugurated by Dr. A.K.Joshi, Regional Manager, Regional Remote Sensing Centre-Central Region, Nagpur. Shri.Vishwanath Joshi, Project Co-ordinators, Raman Science Centre, ShriAbhishekAngole, Director, iLabs, Nagpur were also present on the occasion.

Following events were organised during ROBOLYMPICS:

1) Robo-Pradarshini : The exhibition, an open platform for the enthusiastic students to showcase their creative and innovative models. This was for two categories viz. School Students & Jr. College Students. The Pradarshinii was participated by 96 students in 51 teams.

The Robo-Pradarshini was open for students & general public till 01st February 2015 14304 student, teachers & general public visited the exhibition and also witnessed the events Robo Race & Robo the-e-handi during this period.

1ST NAGPUR SCIENCE & ENGINEERING FAIR:

In order to encourage innovative ideas of college students and to enhance their thinking ability towards the research in the field of science & technology, Raman Science Centre in collaboration with Technology Park, RTM Nagpur University, Nagpur and Indian Science Congress, Nagpur Chapter, organized the **Nagpur Science & Engineering Fair** for the first time from **19 to 21 February 2015** at Raman Science Centre.

The 1st Nagpur Science & Engineering Fair was inaugurated on 19th February 2015 at 10.00 am by Prof. Vinayak Deshpande, Vice Chancellor, RTM, Nagpur University. Dr. Narendra Chaudhari, Director, Visvesvaraya National Institute of Technology, Nagpur presided over the function. Dr. Harjeet Juneja, Director, Technology Park, RTM Nagpur University was also present on the occasion.

180 students with their 70 selected innovative research based Science & Engineering projects in the form of 3D working Models. 51 Projects in the form of posters from 30 Science & Technology institutions in and around Nagpur also participated in the fair. This fair served as a platform for young college students to exchange their ideas with other participating students and also had an opportunity to interact with students and general public visiting the fair in large number.

The event was witnessed by over 10,376 general public including many college/school students who not only saw the exhibition but also had an opportunity to interact with the participants during this 3 day event.

National Mathematics Day Celebrations:

National mathematics day was celebrated at RSC, Nagpur. Various Programme & Contests were organized during 17 to 20 March 2015.

Teaching Aid Demonstration Contest & Exhibition:

Teaching Aid Demonstration Contest & exhibition was organized on 19 & 20th March 2015. 25 teachers of 10 schools & colleges participated in it. The exhibition was visited by 783 visitors.

Inauguration of 3-D Science Show: New 3- D theater with High Definition Projection system with 5.1 dolby digital sound system and new 3-D movie titled Panda Vision was inaugurated on 20th March 2015 by Dr. Amit Mazumdar, Regional Director, Atomic Mineral Directorate for Exploration & research. 60 students, teachers were present on the occasion.

16. LIBRARY AND INFORMATION

Name of the Museum/Centre	Item	Total holding as on 31/03/14 of previous year	No. acquired During the current Yr. 2014-15	No. written off during the year 2014-15	Net holding as on 31 st March on current year
RSCN	Books	1979	05	00	1984
	Journals	60	12	00	72

	Newsletters				
	Leaflets				
	Films 16 mm	00	00	00	00
	Films 35mm				
	Video Cassettes	39	00	00	39
	VCDs, DVD's	223	29	00	252
	Photo prints	6765	00	00	6765
	Audio cassettes				
	Maps & chart	73	00	00	73
	ACD	3	00	00	3

17. PUBLICATION

Publications:

S.N.	Name	Nature of Publications	Number printed	Agency
1.	VCAC Course material for Creative Science, Astronomy, Model Rocketry, Aeromodelling	Photocopy	230 Nos.	
2.	Poster of Science Exp- 2015	Colour Offset Print	1000 Nos.	
3.	Souvenir - Science Expo - 15	Colour Offset Print	1000 Nos.	
4.	Science Expo - Lecture Summery Booklets	Colour Offset Print	1000 Nos.	
5.	Report of Science Expo 2015	Photocopy	20 Nos.	
6.	Brochure for Inter-School Science Quiz	Colour Offset Print	500 Nos.	

18. CONSTRUCTIONS/REPAIRS/RENOVATIONS

Name of Museum/ Centre	Name of work	Tender value (Lacks)	Date of commencement of work	Target date for completion	Remarks
RSCN	High Definition 3D Theatre	4.67	31.07.2014	30.09.2014	Work Completed
RSCN	Innovation Hub	101.00	27.10.2014	30.04.2015	Work in Progress
RSCN	Misc. Civil Work	0.40	19.03.2015	25.03.2015	Work Completed
RSCN	Development of Parking Areas	8.67	02.06.2014	02.08.2014	Work Completed
	Development of Parking Areas(Additional)	1.57	10.11.2014	10.12.2014	Work Completed
RSCN	Toilet near Ticket Counter	3.13	07.07.2014	22.08.2014	Work Completed

19. PROCUREMENT OF EQUIPMENT

Sr. No.	Name of the equipment/exhibits	Qty	Value In Rs	Actual date of acquisition	Mode of acquisition
1	Ceiling fans 120 mm make Bajaj	12 Nos.	15000/-	19.06.2014	Purchase
2	Wall mounting fans 400 mm/ 16 ⁴ make- orient	2 Nos.	3758/-	19.06.2014	Purchase
3	Welding transformer portable machine ARC-200 make – ESAB	1 No.	25000/-	21.07.2014	Purchase
4	Electronic balance machine (currency authentication machine)	1 No.	9990/-	11.08.2014	Purchase
5	LED Indoor Luminaire, Ceiling Mount Type, 15W	50 Nos.	83,000/-	22.07.14 & 22.09.2014	Purchase
6	A/C units split , Wall mounting type, 2 Ton. Make – Blue Star	5 Nos.	278890/-	25.09.2014	Purchase
7	LaserJet printer make - HP	1 No.	23490/-	02.10.2014	Purchase
8	Microsoft Kinect for windows	1 No.	21200/-	18.10.2014	STV NSCM
9	Leap motion Controller sensors	2 Nos.	13650/-	18.10.2014	STV NSCM
10	Almirah steel full size 78"x35"x19"	3 Nos.	29531/-	23.12.2014	Purchase
11	Steel filing cabinet 54 ½" x 18 ½ "x27 ½ "	1 No.	13013/-	23.12.2014	Purchase
12	Home theatre 5.1 with AVR make – Denon	1 No.	109500/-	29.12.2014	Purchase
13	LQ-50 EPSON Dump Printer	1 No.	7500/-	23.01.2015	Purchase
14	Book Case Steel Almirah	1 No.	6350/-	03.02.2015	Purchase
15	Portable Generator Set	1 No.	84500/-	03.03.2015	Purchase
16	Silver Screen For Passive 3D With detachable frame, Size 12' x 9' make – Stewart	1 No.	721196/-	02.03.2015	STV CRTL
17	Variac Auto transformer 240 V AC	1 No.	2515/-	03.03.2015	STV NSCM
18	Rheostat wire wound type Res. 150 HM	1 No.	4405/-	03.03.2015	STV NSCM
19	Microscope LED Trinocular Zoom Star	1 No.	51750/-	03.03.2015	STV NSCM
20	Soldering Desoldering Station Goots svs-500	1 No.	75607/-	03.03.2015	STV NSCM
21	Function generator M-3 m 5076-I	1 No.	11340/-	03.03.2015	STV NSCM

22	Power Supply DC 30V 2A PSD 3304	1 No	12094/-	03.03.2015	STV NSCM
23	Power Supply DC 30V 2A PSD 3305	1 No.	7088/-	03.03.2015	STV NSCM
24	Oscilloscope Digital Storage DPO 2012 B	1 No.	115500/-	03.03.2015	STV NSCM
25	Desoldering Station Goots TP-100	1 No.	26021/-	03.03.2015	STV NSCM
26	Hot air Station XFC-100 Goots	1 No.	78120/-	03.03.2015	STV NSCM

20. PERSONNEL
A. APPOINTMENT

Name of the Museum/Centre	Full name of personnel	Cadre & Group	Designation	Date of joining
RSCN				

B. PROMOTION

Name of the Museum/Centre	Full name of personnel	Designation prior to promotion	Designation	Effective date of Promotion
RSCN				

C. TRANSFER

Name of personnel	Designation	From	To	Effective date of transfer

D. RETIREMENT/REPATRIATION/RESIGNATION

Name of personnel	Designation	Name of Museum/Centre	Date of retirement/release	Remarks, mention retirement/repatriation (including voluntary retirements)

21. DISTINGUISHED GUESTS

	Name of Guest	Designation
1.	Dr. Milind Mane	MLA, Nagpur
2.	Dr. G. Madhavan Nair	Former Chairman, ISRO, Hyderabad
3.	Smt. Geetha Vardan	Director, Advanced Data Processing Research Institute, Hyderabad
4.	Sh. Nitin Jatkar	Co-ordinator, Green Hope, Vanarai, Nagpur
5.	Dr. Hemant Pande	HOD Chemistry, Hislop College, Nagpur
6.	Prof. Dr. M. T. Bharambe	Director, Institute of Science, Nagpur
7.	Dr. Sunil Ganatra	Head, Dept. of Environmental Science, Institute of Science, Nagpur.
8.	Shri. Vivek Wagh	Centre for Science Learning, Nagpur
9.	Dr. S. K. Goyal	Principal Scientist, NEERI, Nagpur
10.	Sh. P G Sathe	Director, SISE, Nagpur
11.	Dr. Nalini Kurvey	Secretary, IIPDEP, Nagpur
12.	Dr. M.K. Tiwari	Former Director, South Asian Regional Research Centre (SAS-RC) & Former Dy. Deputy Director, NPL, New Delhi
13.	Dr. Satish Wate	Director, National Environmental Engineering Institute (NEERI), Nagpur
14.	Dr. Narendra Chaudhari	Director, Visveswaraiya National Institute of Technology (VNIT), Nagpur
15.	Sh. Sunil Sonare	G.H. Rasoni College of Engineering
16.	Dr. Dharmaraj Tidke	Prof. Dept. of Mechanical Engineering, G.H. Rasoni College of Engineering, Nagpur
17.	Dr. Amit Mazumdar	Regional Director, Atomic Mineral Directorate for Exploration & Research, Nagpur
18.	Dr. A.K. Joshi	General Manager, Regional Remote Sensing Centre (ISRO)
19.	Dr. Dharmaraj Tidke	Prof. Dept. of Mechanical Engineering, G.H. Rasoni College of Engineering, Nagpur
20.	Shri Moin Naqvi	President, K-12, ISHRAE, NAGPUR Chapter
21.	Dr. Rajpal Singh Kashyap	Senior Scientist, Central India Institute of Medical Sciences, Nagpur
22.	Dr. Subhash Thakre	Dy. Superintendent, Govt. Medical College & Hospital Nagpur
23.	Dr. P. Sivaswaroop	Regional Director, IGNOU, Regional Centre, Nagpur
24.	Dr. S. S. Bhoga,	Professor, Dept. of Physics, RTM Nagpur University
25.	Dr. P.V. Khandekar	Fellow of Maharashtra Academy of Sciences
26.	Sh. K. Ravi	Head of Office, Anthropological Survey of India, Nagpur
27.	Dr. K. R. Kranthi	Director, Central Institute for Cotton Research, Nagpur
28.	Dr. Vishakha Rao	President, HIRWAI, Nagpur
29.	Prof. Jayant Khandare,	MIP, Pune & Secretary, RSC West India Section
30.	Prof. Vinayak Deshpande	Vice Chancellor, RTM, Nagpur University
31.	Dr. Harjeet Juneja,	Director, Technology Park, RTM Nagpur University
32.	Dr. Alka Chaturvedi	HOD, Dept. of Botany, RTM Nagpur University
33.	Prof. A. M. Kuthe	CAD-CAM Centre, V.N.I.T. Nagpur
34.	Dr. P. D. Mujumdar	Former Scientist, ISRO.

22. MISCELLANEOUS**ANNEXURE – II****LIST OF EXHIBIT DEVELOPED AT R.S.C. NAGPUR**

Sl. No.	Name of the exhibition	Gallery
1.	Nuclear Power Plant	Fun Science Gallery
2.	Which is faster	Fun Science Gallery
3.	Virtual World	Fun Science Gallery
4.	Fresnel Mirror	Fun Science Gallery
5.	Check Your Stability	Science Park
6.	Centrifugal Force	Science Park
7.	Colour Filters	Science Park
8.	Kinetic Roller	Science Park
9.	Jumping Disc – 2 Nos	Duplicate Exhibits for Up-coming Science Centres
10.	Newtons' Cradle- 3 Nos	Duplicate Exhibits for Up
11.	Virtual Harp – 1 No.	Duplicate Exhibits for Up

KITS DEVELOPED:

12.	Newtons First Law of Motion I
13.	Newtons First Law of Motion II
14.	Newtons Second Law of Motion I
15.	Newtons Second Law of Motion II
16.	Newtons Third Law of Motion I
17.	Newtons Third Law of Motion II

EXHIBITS RENOVATED AT R.S.C. NAGPUR

Sl. No.		
1	Balancing Act	Science Park

ANNEXURE – III**POPULAR SCIENCE LECTURES AT RSCN**

Sr.No.	Date	Name of the Lecturer	Theme	Audience	Venue
1.	22.04.2014	Sh. NitinJatkar, Coordinator, Green HOPE, Vanarai, Nagpur	Mother Earth: Protection & Conservation	120	RSCN
2.	11.05.2014	Dr. Hemant Pande, HOD Chemistry, HislopCollege,Nagpur	New Horizon in Technology	165	RSCN
3.	18.05.2014	Dr. J. Srinath, Anthropologist, Anthropological Survey of India, Nagpur.	Evolution of Man	155	AnSI, Nagpur
4.	05.06.2014	Dr. S. K. Goyal, Principal Scientist, National Environmental Engineering Research Institute, Nagpur	Global Warming	150	RSCN
5.	06.08.2014	Dr. Nalini Kurvey, Secretary, IIPDEP, Nagpur	Atom Bomb- Effect on Human & Environment	125	RSCN
6.	23.08.2014	Sh. V.N. Joshi, Project Co-ordinator, RSC, Nagpur	Innovative Science Projects – Need and its organisation	60	RSCN
7.	20.09.2014	Dr. Madhavannair, Former Chairman, ISRO, Bangalore	Space Technology for Nation Building & benefit of Common Man	145	RSCN
8.	23.09.2014	Dr. M.K. Tiwari, Former Director, South Asian Regional Research Centre (SAS-RC) & Former Dy. Deputy Director, NPL, New Delhi	Technical aspects of Mangalyan& its usefulness	125	RSCN
9.	23.09.2014	Dr. A.K. Joshi, General Manager, Regional Remote Sensing Centre (ISRO) Nagpur	ISRO's Space Programme-Mangalyaan	125	RSCN
10.	23.09.2014	Dr. M.Y. Apte, Ex-Reader SFS College, Nagpur	How Orbits are formed	125	RSCN
11.	23.09.2014	Sh. V. N. Joshi, Project Co-ordinator, Raman Science Centre & Planetarium, Nagpur	Mars – The Red Planet	125	RSCN
12.	26.09.2014	Sh. V. N. Joshi, Project Co-ordinator, Raman Science Centre & Planetarium, Nagpur	Igniting Minds-Search & Research	500	G.H.Raisoni Engg. College
13.	10.11.2014	Dr. Rajpal Singh Kashyap, Senior Scientist,Central India Institute of Medical Sciences, Nagpur	Ebola Virus And Its Effect On Human Health	155	RSCN
14.	19.11.2014	Dr. SubhashThakre, Dy. Superintendent, Govt. Medical College & Hospital Nagpur	Sanitation, Cleanliness and Personal Hygiene	120	RSCN
15.	07.01.2015	Dr. Ashok Kumar Joshi, General Manager, Regional Remote Sensing Centre, Nagpur	The India's Mission to Mars	165	RSCN
16.	07.01.2015	Dr. A. A. Patwardhan, Scientific Officer, Atomic Mineral Directorate for Exploration & Research, Nagpur	Nuclear Energy – Rock to Reactor and Beyond	157	RSCN
17.	08.01.2015	Dhananjay Akre, Nuclear Power Corporation of India Limited, Mumbai	'Nuclear Power: A clean, Green and Safe Energy'.	126	RSCN
18.	08.01.2015	Prof. S. V. Mohril, Rajiv Gandhi Science & Tech. Commission, Nagpur	LEDs and Nobel Prize	157	RSCN
19.	09.01.2015	Dr. Girish R. Pophali, Scientist CSIR- National Environmental Engineering Research Institute	Challenges and Opportunities of Wastewater Management in India	175	RSCN
20.	09.01.2015	Dr. J. Shrinath, Scientist, Anthropological Survey of India,	Molecular evidences for evolution and dispersion of	163	RSCN

		Nagpur	mankind		
21.	10.01.2015	Dr. K. M. Kamble, Govt. Medical College & Hospital, Nagpur	Knowing the signs and symptoms of cancer	170	RSCN
22.	10.01.2015	Prof. A. M. Kuthe CAD-CAM centre, V.N.I.T. Nagpur	Tissue engineering: New Era in Biomedical Engineering	185	RSCN
23.	11.01.2015	Dr. G. Balasubramani, Scientist, Central Institute for Cotton Research, Nagpur	BT-Brinjal: Concerns and prospective	128	RSCN
24.	11.01.2015	Sh. Sudesh Sharma Addl. Chief Engineer, NPCIL H.O, Mumbai	science and Technology of Nuclear Energy	185	RSCN
25.	07.02.2015	Prof. Jayant Khandare, MIP, Pune & Secretary, RSC West India Section	Science At Early Age	145	RSCN
26.	19.02.2015	Prof. A. M. Kuthe, CAD-CAM Centre, V.N.I.T. Nagpur	Innovative Product Design using Rapid Prototyping	157	RSCN
27.	20.02.2015	Dr. K. R. Kranthi, Director, Central Institute of Cotton Research, Nagpur	Green Revolution to Gene Revolution	98	RSCN
28.	21.02.2015	Shri Abhishek Angole Director, iLabs, Nagpur	Human Excellence & Robotics	125	RSCN
29.	28.02.2015	Dr. P. D. Mujumdar Retd. Scientist, ISRO.	Journey of Indian Science from Scientific Temper to Innovation	125	RSCN
30.	04.03.2015	Sh. Vishwanath Joshi, Project Co- ordinator, RSC, Nagpur	Perception of Light	145	RSCN
31.	07.03.2015	Dr. Satish Wate, Director, NEERI, Nagpur	Carrier Development in Science	125	RSCN
32.	17.03.2015	Mrs. Aruna Shobhane, Lecturer, Dinanath Junior College, Nagpur	Srinivas Ramanujan – His Life & Work	65	RSCN
				4791	

ANNEXURE – IV
COMMOMORATIVE EVENTS

1. EARTH DAY CELEBRATION:

Earth Day was celebrated at Raman Science Centre, Nagpur on 22nd April. This year the theme for the event was **Green Cities** & the major campaign is to inspire people to act and inspire ourselves to redouble our efforts in making the cities green. On the occasion, Raman Science Centre organised following programmes on **22nd April 2014** for the students.

a. Sit and Draw Contest: Time 9.00 am to 10.30 am

The students were given following topics:

- Topics:** 1. Save Our Mother Earth, 2. My Favorite Animal/Bird,
3. Energy Resources, 4. Green Cities,
5. Global warming and climate Change.

About 148 students participated in the contest.

b. Popular Science Lecture:

A Popular Science Lecture was held for the students on the theme “Mother Earth: Protection & Conservation”. The lecture was delivered by Sh. Nitin Jatkar, Coordinator, Green Hope, Vanarai, Nagpur. About 120 students participated.

c. Open House Quiz on the theme OUR EARTH:

Students were asked questions based on Our Earth. The Quiz was of open in nature. The successful participants were awarded with spot prizes. In this also 120 students participated.

NATIONAL TECHNOLOGY DAY:

National Technology Day was celebrated at RSC, Nagpur on 11th May 2014. Following programmes were conducted to mark National Technology Day:

- a. Popular Science Lecture: Popular Science Lecture was delivered by Dr. Hemant Pande, HOD Chemistry, Hislop College, Nagpur, on the topic- New Horizon in Technology.
- b. Open House Quiz: Open House quiz was conducted on the topic Science & technology. In all 165 students participated.

INTERNATIONAL MUSEUM DAY CELEBRATION:

International Museum Day was celebrated in collaboration with Zonal Anthropological Museum, Anthropological Survey of India CRC, Nagpur on 18th May 2014.

Following programmes were conducted at Anthropological Museum:

- a. **Drawing & Painting Competition** was organised for the students of Class I to X. The students were given the topics: Tribal Art & Culture & Traditional Science in Rural Area. About 135 students participated in it. The Prizes were awarded to the students in 3 categories.
- b. **Popular Lecture** on the topic Evolution of Man was also organised. The lecture was delivered by Dr. J. Srinath, Anthropologist, Anthropological Survey of India, Nagpur.
- c. **Open House Quiz** on Museums was also organised for the students. The students were asked questions pertaining to Various Museums all over the

world. The successful students were awarded on the spot. 155 students & parents participated in Lecture & Quiz.

- d. **My Own Collection Exhibition:** An Exhibition titled My Own Collection was organised at the Centre on the occasion of International Museum Day Celebration. The exhibition was inaugurated on 15th May 2014. The exhibition was participated by members of ChhandVaibhav, Nagpur & enthusiast student members of Raman Science Centre, Nagpur. Various articles and collection such as Stamps, Coins, Antiques, brass articles, Newspapers, Shoe Shape articles, Match Boxes, Currency notes, origami, gramophone Records & Players, Sea Shells Artifacts of Film projector etc. depicting the historical importance were kept in the exhibition. The exhibition was open for public till 18th may 2014. In all 9875 students, Members & general public visited the exhibition.

World Environment Day 2014

Raman Science Centre & Planetarium is a very popular Science Centre in Central India functioning under the National Council of Science Museums, Ministry of Culture, Govt. of India. World Environment Day was celebrated today in collaboration with Institute of Science, Nagpur by organising various activities on the theme "Raise your voice not the sea level". the following activities were conducted throughout the day :

1) Drawing & Painting Competition: A Drawing & Painting Competition for school students of Std. I to X was conducted in 3 different Groups on the topics: My Pet Animal, Save Forest & Raise your Voice not Sea Level, Global Warming In all 110 students participated in the contest.

Exhibition of Medicinal Plants & Products: Besides their valuable service in environment, many Plants also have the medicinal values. Different parts of plants are used as medicines in curing different ailments. An exhibition of Medicinal plants and plant products , Project of Joining Rivers & Biodiversity Park was organised at the centre. The exhibition was inaugurated by Prof. Dr. M. T. Bharambe, Director, Institute of Science, Nagpur. The exhibition was visited by about 1200 visitors during the day.

3) A popular Science Lecture on "Global Warming" was delivered by Dr. S. K. Goyal, Principal Scientist, National Environmental Engineering Research Institute, Nagpur. The lecture was attended by 150 students

4) Launching of "Friend of Environment Activity : Raman Science Centre in collaboration with the Institute of Science, Nagpur launched today a new activity named Friends of Environment for the students. In this activity students will plant at least one plant, Monitor and record its growth for one year in the progress card. Parents or teacher will supervise this project and sign in the card. The authorities of the Centre will also visit the site and monitor the progress. They will submit their card after one year on next WED. The successful students will be awarded a citation as Friend of Environment and will be suitably rewarded.

5) An open House Quiz on Environment was also conducted on the day. In this quiz about 120 students and general public participated.

Hiroshima Day:

Raman Science Centre in collaboration with Indian Institute for Peace, Disarmament and Environmental Protection, Nagpur organised various activities to commemorate Hiroshima day on 06th August 2014. A Popular Science Lecture was delivered by Dr. NaliniKurvey, Secretary, IIPDEP, Nagpur on the theme "Atom Bomb- Effect on Human & Environment". An Open House Quiz was also organised on the occasion. Special Science Film show titled Paper Crane was also arranged. About 125 students from 5 schools participated in it.

Photographic Exhibition was on display from 06 to 10 August 2014. About 2500 students & general public witnessed the exhibition.

ENGINEERS DAY CELEBRATION:

Meet The Scientist: On the occasion of Raman Science Centre in collaboration with Engineers Forum organised Meet The Scientist programme on 20th September 2014. Dr. Madhavannair, Former Chairman, ISRO, Bangalore delivered a lecture on "Space Technology for Nation Building & benefit of Common Man . He also satisfied the queries of the students. About 145 students from 45 junior colleges were present. The prizes to the winners of Essay writing contest were also awarded during the programme.

HINDI PAKHWADA:

HINDI BHASHAN PRATIYOGITA:

Raman Science Centre has organized Hindi Bhashan Pratiyogita in collaboration with Regional Remote Sensing Centre (ISRO) Nagpur during Hindi Pakhwada on 18th Sept. The 34 Students of Class 9 expressed their views on the Topic :*Prakrutik Sansadhano ke Prabandhan main Bhartiya Antariksh Karyakram KaYogdan*. 120 students & teachers attended the contest.

Various Competitions like Letter Writing, Essay Writing, Hindi Translation, Hindi Typing, Hindi Songs. Hindi Poem Recitation were held for the staff members of RSC, Nagpur during hindipakhwada. All the staff members', trainees & apprentice students participated in the programmes.

WORLD SCIENCE DAY CELEBRATION

World Science Day was celebrated at the centre by organising various programmes on 9th & 10th Nov. 2014. Following programmes were organised during the celebration.

a. Daytime Astronomy Workshop: A workshops on daytime astronomy was organised on 9th November 2014. Total 40 students participated in the workshop and 80 kits related to astronomical observation were fabricated.

b. Treasure hunt:

Treasure hunt programme was organised at the centre on 9th November 2014 for school students. They were given the task to find out answers to the questions based on the exhibits in different galleries at Raman Science Centre. Total 113 students from various schools participated in the programme.

c. Web cast on Large Hadron Collider:

The live Web-cast on Large Hadron Collider from CERN's accelerator was organised at the centre on 10th November 2014 at 11.00 AM. Total 137 students from various schools of Nagpur city participated in the programme.

d. Science Quest: A Science Quest was conducted at 12.00 noon on 10th November 2014. The Science experiments were performed in front of the students and questions based on experiments were asked. Students were awarded with on the spot prizes for their correct answers. Total 155 students from various schools participated in the programme.

e. Popular Science Lecture:

A Popular Science Lecture was organised at 1.00 PM on 10th November 2014. Dr. Rajpal Singh Kashyap, Senior Scientist, Central India Institute of Medical Sciences, Nagpur delivered a lecture on "Ebola Virus And Its Effect On Human Health". 155 students attended the Lecture.

f. Valediction Function: Valediction and Prize distribution programme was organised at 2.00 pm in which prizes were awarded to the winners of above contests by Dr. Rajpal Singh Kashyap, Senior Scientist, Central India Institute of Medical Sciences, Nagpur. About 143 students were present during the programme.

CHILDREN'S DAY CELEBRATION:

Children's' Day was celebrated at the centre on 14 the November 2014 by organising various programmes as below.

a) Sit and Draw Contest.

Sit and Draw contest was organised on for three Categories: I-My Clean & Green School, II – Swachh Bharat Mission, III- India's Mars Mission & Science & Technology for Development of India. In all 372 students participated in the contest.

b) A Science Demonstration Lecture on Matter at Very Low Temperature was conducted in which 150 students participated

c) Prize distribution function was held at 3.00pm and prizes were awarded to the winners. Shri Moin Naquvi, President ISHRAE, Nagpur Chapter was the Chief Guest and other members were present.

A special Planetarium programme was also conducted for the participants.

WORLD TOILET DAY PROGRAMME:

The world Toilet Day was celebrated on 19th November 2014 by organising Popular Science Lecture by Dr. SubhashThakre, Dy. Superintendent, Govt. Medical College & Hospital Nagpur. He delivered a lecture on Sanitation, Cleanliness and Personal Hygiene which was attended by 120 students.

ORANGE CITY SCIENCE FAIR & INTERNATIONAL YEAR OF CRYSTALLOGRAPHY

To mark the International Year of Crystallography, Orange City Science Fair was organised at Raman Science Centre, Nagpur in collaboration with Navneet Education Limited, Nagpur during 22nd to 24th December 2014. Following Programmes were conducted:

a) Meet The Scientist:

Meet The Mathematicians programme was also organised on 22nd December at 11.00 am, wherein a panel of eminent Scientists in Crystallography were available for the students. The panel including Dr. P. Sivaswaroop, Regional Director, IGNOU, Regional Centre, Nagpur, Dr. S. S. Bhoga, Professor, Dept. of Physics, RTM Nagpur University and Dr. Ravin Jugade, Associate Prof. Dept. of Chemistry, R.T.M. University, Nagpur were present gave information about Crystallography and also satisfied the queries of the students. They also inaugurated the three day Orange City Science Fair.

b) Working Science Model Contest: Working Science Model Contest and exhibition was organised for the period of 22th December to 24th December 2014 in which 162 students from 54 schools participated.

c) Teaching Aid demonstration Contest: Teaching aid Demonstration contest was also organised during the celebration in which 24 teachers participated from 12 different schools.

The Students & Teachers demonstrated their models & Kits to the visiting students, Teachers and general public for all the three days. About 32,540 students, teachers and general public visited the exhibition.

d) Written Science Quiz :

Written Science quiz contest was organised on 22nd December in two groups i.e. Middle & High School groups on the topics General Science & Crystallography resp. in which 354 students participated.

e) Science Demonstration on Fun with Chemistry:

Science Demonstration on Fun with Chemistry was organised on 23rd December for the students of High school. 225 students participated in it.

f) Open House Quest:

Open House quest was also organised on 24th December in which experiments of Physics were demonstrated and questions based on it were asked to the students. 375 students participated in it.

g) Poster Exhibition:

Poster contest was organized on the occasion in which 107 students of 16 schools exhibited their poster made on the topic Crystals that shape our Life.

NATIONAL SCIENCE DAY CELEBRATION-2015

Various Programme & contests were organised during the National Science Day by Raman Science Centre in collaboration with Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra and NCSTC, DST, Govt. of India.

Following programmes were conducted:

1. **Essay Writing Contest** for teachers on the topic : Science For Nation Building was conducted on 26th February 2015. 38 teachers participated.
2. **Science Slogan Writing Contest:** The contest was held on 25th February 2015 on the topics Science for Nation Building, Save Girl Child, Swachha Bharat Abhiyan. 190 students participated.
3. **Mega Drawing Contest** was organized on 27th February, 2015. The contest was open for the students in 3 categories. The topics for Category- I (Std. I-IV) were My Favorite Animal, My Green school, Swachha Bharat Abhiyan. and for Category-II (Std. V-VII) Hamara Mangalyaan, I am in Science Park, Swachha Bharat Abhiyan whereas for Category –III (Std. VIII – IX) the Topics were Science For Nation Building, Save Girl Child, Sir C. V. Raman. 3568 students from 68 schools participated in the contest.
4. **Science Rally** was organized on 28 February 2015. The students were carrying placards giving message science to society. In all 550 students participated in it.
5. **Sir C.V. Raman Memorial Lecture was organized on 28th February.** It was delivered by Dr. Dr. Prakash Mujumdar, Former Scientist, ISRO on the topic Journey of Indian Science from Scientific Temper to Innovation 125 students attended the lecture.
6. **Open House Quiz** was held on the topic Sir C.V. Raman- His Life & Work. 138 students participated.

Anniversary Week Celebration:

Various activities & contests were organized to mark Anniversary Week Celebration during 01-07 March 2015

a. Written Science Quiz:

Written Science quiz was organized on 02.03.2015 for the students of Middle School & High School groups on the Topics General Science, Physics of Light resp. It was participated by 278 students of 48 schools.

b. Elocution Competition

Elocution Competition was organized on 03.03.2015 for the students of Class VIII & IX on the topic –Mangalyaan: Promises & Concerns. 36 students of 19 schools participated in the contest.

c. Popular Science Lecture

Popular Science Lecture on Perception of Light was delivered by Sh. Vishwanath Joshi, Project Co-ordinator, RSC, Nagpur on 04.03.2015. The lecture was witnessed by 145 students.

d. Science Film Show

Special Science Film Show was organized on 04.03.2015 for the students on the topics Light, nature of Light & Laser. The film was screened for 145 students.

e. Treasure hunt

Treasure hunt based on Gallery exhibits at RSCN was organized for the students of Class VII & IX. 135 students of 28 schools participated in the contest.

f. Power Point Presentation Competition for teachers

Power Point Presentation Competition was organized for the teachers of high schools on the topic "Understanding Light" on 05.03.2015. 20 teachers participated in it.

g. Sky Observation Programme

Sky observation Programmes were organized daily after sunset during 25.2.2015 to 07.03.2015 for the school groups. Students were shown the Planet Venus, Jupiter, Orion Nebula & other deep sky objects. 6 programmes were held in which 375 students from 6 schools witnessed.

h. Open House Quest:

Open House quest was organized during the National Science day celebration in which students were demonstrated the science experiments based on which questions were asked. Successful participants were awarded on the spot. The quiz was participated by 125 students.

i. Popular Science Lecture:

Popular Science Lecture on the topic Carrier Development in Science was delivered by Dr. Satish Wate, Director, NEERI, Nagpur on the Anniversary Day Celebration. 125 students were benefitted.

National Mathematics Day Celebrations:

National mathematics day was celebrated at RSC, Nagpur. Various Programs & Contests were organized during 17 to 20 March 2015.

a. Workshop on Mathematic:

Hands on activities & fabrication of Kits were organized on 17th March 2015 for the students of B.Ed. College as well as in service Teachers. They fabricated kits such as Probability Curve, Area of Circle, Geometric Shapes, and Verification of quadratic equations etc. 50 teachers from 15 school & colleges participated in the workshop. They were also explained the concept of Maths Lab.

b. Popular Lecture:

Popular Lecture on Srinivas Ramanujan – His Life & Work was delivered by Mrs. Aruna Shobhane, Lecturer, Dinanath Junior College, Nagpur. The lecture was attended by 65 teachers.

c. Written Mats Quiz:

Written Maths Quiz was organized on 18th March 2015 for the students of High school in which 168 students of 18 schools participated.

d. Teaching Aid Demonstration Contest & Exhibition:

Teaching Aid Demonstration Contest & exhibition was organized on 19 & 20th March 2015. 25 teachers of 10 schools & colleges participated in it. 704 visitors visited the exhibition.

ANNEXURE – IV COLLABORATIVE PROGRAMS

International Museum Day Celebration:

International Museum Day was celebrated in collaboration with Zonal Anthropological Museum, Anthropological Survey of India CRC, Nagpur on 18th May 2014. Drawing & Painting Competition was organised for the students of Class I to X. The students were given the topics: Tribal Art & Culture & Traditional Science in Rural Area. About 135 students participated in it. Popular Lecture on the topic Evolution of Man was also organised. The lecture was delivered by Dr. J. Srinath, Anthropologist, Anthropological Survey of India, Nagpur. It was followed by an Open House Quiz on Museums 155 students & parents participated in Lecture & Quiz.

My Own Collection Exhibition:

An Exhibition titled My Own Collection was organised at the Centre on the occasion of International Museum Day Celebration. The exhibition was inaugurated on 15th May 2014. The exhibition was participated by members of ChhandVaibhav, Nagpur & enthusiast student members of Raman Science Centre, Nagpur. Various articles and collection such as Stamps, Coins, Antiques, brass articles, Newspapers, Shoe Shape articles, Match Boxes, Currency notes, origami, gramophone Records & Players, Sea Shells Artifacts of Film projector etc. depicting the historical importance were kept in the exhibition. The exhibition was open for public till 18th may 2014. In all 9875 students, Members & general public visited the exhibition.

World Environment Day 2014

Raman Science Centre & Planetarium celebrated World Environment Day in collaboration with Institute of Science, Nagpur by organising various activities on the theme “Raise your voice not the sea level”.

Drawing & Painting Competition: A Drawing & Painting Competition for school students of Std. I to X was conducted in 3 different Groups on the topics: My Pet Animal, Save Forest & Raise your Voice not Sea Level, Global Warming In all 110 students participated in the contest.

Exhibition of Medicinal Plants & Products: Besides their valuable service in environment, many Plants also have the medicinal values. Different parts of plants are used as medicines in curing different ailments. An exhibition of Medicinal plants and plant products , Project of Joining Rivers & Biodiversity Park was organised at the centre. The exhibition was inaugurated by Prof. Dr. M. T. Bharambe, Director, Institute of Science, Nagpur. The exhibition was visited by about 1200 visitors during the day.

Popular Science Lecture on “Global Warming” was delivered by Dr. S. K. Goyal, Principal Scientist, National Environmental Engineering Research Institute, Nagpur. The lecture was attended by 150 students.

Launching of “Friend of Environment Activity : Raman Science Centre in collaboration with the Institute of Science, Nagpur launched today a new activity named Friends of Environment for the students. In this activity students were advised to plant at least one plant, Monitor and record its growth for one year in the progress card. Parents or teacher will supervise this project and sign in the card. The authorities of the Centre will also visit the site and monitor the progress. They will submit their card after one year on next WED. The successful students will be awarded a citation as Friend of Environment and will be suitably rewarded.

An **open House Quiz on Environment** was also conducted on the day. In this quiz about 120 students and general public participated.

Orientation Program for the students:

Orientation Program for the student readers of Maharashtra Times was organized in collaboration with Maharashtra Times, Nagpur on 8th June 2014. The students were taken to various facilities of Raman Science Centre. An Open house quiz was conducted for the students on Understanding Science. The successful students were awarded on the spot. 150 students participated in it.

Workshop on Space Technology Education:

The RSC, Nagpur organized two days' workshops on July 18-19, 2014 & 7th – 8th August 2014 for the high school students on SPACE TECHNOLOGY EDUCATION in collaboration with STEP, Nagpur. It aims to open the minds of next generation to explore the limitless possibilities and opportunities in space Education Exploration and Innovation. Its goal is to inculcate new dream in the minds of school students, so that students can build their career in space Technology and Education. The participants were guided on the topics such as Basics of Rocket Science & Technology, Contribution of Great scientists like Sir Galileo, Sir Isaac Newton & Sir Albert Einstein in space Exploration, International space station & Experiments Carried out in ISS, Rocket Modeling hands on activity and New Innovation and Opportunities available in space & Technology. 215 students from 41 schools participated in the programme.

Orientation programmes for teachers for Green Finger Award Programme:

RSC, Nagpur in collaboration with HIRWAI, Nagpur organised a teachers meet on 26th July 2014 to make them aware about the Green Finger awards & Green School award competition. The main aim of this competition is to bring the school children closer to the nature. It is commonly found these days that parents do not allow their children to play in the mud or to take it in their hands. The motive is to allow the children to experience the joy of sowing a seed and experience the love and pride when the seeds burst forth into life in the form of a sapling and a plant. During the period of activity students start loving the trees and the nature and some of them eventually become 'Green Ambassadors'. They would grow up as environment protector citizens and green ambassadors in the near future. 65 teachers of 45 schools participated in it.

Hiroshima Day:

Raman Science Centre in collaboration with Indian Institute for Peace, Disarmament and Environmental Protection, Nagpur organised various activities to commemorate Hiroshima day on 06th August 2014. A Popular Science Lecture was delivered by Dr. Nalini Kurvey, Secretary, IIPDEP, Nagpur on the theme "Atom Bomb- Effect on Human & Environment". An Open House Quiz was also organised on the occasion. Special Science Film show titled Paper Crane was also arranged. About 125 students from 5 schools participated in it. Photographic Exhibition was on display from 06 to 10 August 2014. About 2500 students & general public witnessed the exhibition.

Workshop on Mathematics:

Workshop on Mathematics was organized in collaboration with Centre for Scientific learning, Nagpur for the participants of National mathematics Talent Contest on 17th August, 2014. They were guided about the pattern of Examination & methods of solving problems in mathematics. 275 students participated in the workshop.

National Mathematics Talent Contest 2014:

National Mathematics Talent Contest 2014 was conducted in collaboration with AMTI, Chennai on 23rd August 2014. The contest was held in four groups and 814 students participated.

Essay Writing Contest:

As a part of Engineers Day Celebration, Raman Science Centre, Nagpur and Engineers' Forum, Nagpur jointly organised an Essay Competition on the theme "Space Technology for Nation Building & for the benefit of Common Men." on Sunday, 24th August 2014.

This contest was for the Students of XI and XII Standard. 120 students from 45 junior colleges participated in it.

District Level Science Seminar:

District level Science Seminar was organised in collaboration Education Dept. (Secondary), ZillaParishad, Nagpur on 27th August 2014 on the theme "Innovations in Agricultural Development Prospectus & Challenges". 10 students from 10 schools of various tahsils of Nagpur participated in it. 145 students & teachers witnessed the seminar.

Divisional Level Science Seminar:

Divisional level Science Seminar was organised in collaboration Education Dept. (Secondary), ZillaParishad, Nagpur on 06th Septemebr 2014 on the theme "Innovations in Agricultural Development Prospectus & Challenges". 06 students from 06 schools of various districts of Nagpur division participated in it. 108 students & teachers witnessed the seminar.

Meet The Scientist: On the occasion of Engineers day Raman Science Centre in collaboration with Engineers Forum organised Meet The Scientist programme on 20th September 2014. Dr. Madhavannair, Former Chairman, ISRO, Bangalore delivered a lecture on "Space Technology for Nation Building & benefit of Common Man . He also satisfied the queries of the students. About 145 students from 45 junior colleges were present.

Hindi Bhashan Pratiyogita:

Raman Science Centre has organized Hindi Bhashan Pratiyogita in collaboration with Regional Remote Sensing Centre (ISRO) Nagpur during Hindi Pakhwada on 18th Sept. The Students of Class 9 expressed their views on the Topic :*PrakrutikSansadhanokePrabandhan main BhartiyaAntarikhaKaryakramKaYogdan.*

Workshops on Robotics

A series of workshops has being organised for High School students in collaboration with iLabs, Nagpur in the month of September & October 2014. 6 Nos. of Workshops for Robotics were held in which 123 students of 21 schools were given presentation on robotics followed by hands on activities. The selected students are also given advanced level training so that they can fabricate kits on Robotics which will be exhibited in ROBO OLYMPICS.

Ganit Jagar Yatra: Valedictory function of Ganit Jagar Yatra was organised in collaboration with Jigyasa Trust Thane, Nisarga Vidnyan Mandal, Nagpur on 01st October 2014. Workshops on Mathematics were organised by the experts of Jigyasa Trust in 4 schools of Nagpur in which 250 students participated.

District Level Science Drama Contest:

District Level Science Drama Contest was organised at Raman Science Centre in collaboration with Dept. of Education ZilaParishad, Nagpur on 07th October 2014. Two teams participated in it in which 16 students participated and 120 students witnessed the dramas.

National Mathematics Talent Contest 2014:

National Mathamatics Talent Contest 2014 Final exam was conducted in collaboration with AMTI, Chennai on 1st November 2014. 273 students who qualified in the preliminary exam participated in the final exam. The contest was held in four groups.

Divisional Level Science Drama Contest:

Nagpur Divisional Level Science Drama Contest was organised at Raman Science Centre in collaboration with Office of the Dy. Director of Education, Division Nagpur on 5th November 2014. Three teams from various districts of Nagpur division presented their dramas in which 24 students participated and 145 students witnessed the dramas.

Inter School Science Quiz Contest

Inter School Science Quiz Contest was organised in collaboration with ISHREAE, Nagpur. The contest was organised in two categories i.e. State Board Semi English, Marathi, Hindi Medium and English medium Schools of CBSE & State Board. 18 Preliminary rounds were conducted in which 144 students from 72 Schools participated during the period 08th December to 19th December, 2014. 5 Semi Final and Two final rounds were conducted in which 36 students from 18 Schools participated during the period 15th January to 22th January, 2014. In all 3250 students, teachers and parents witnessed the quiz rounds.

Handwriting Contest

Handwriting contest was organised at RSC, Nagpur on 20th December 2014 in collaboration with Madhukar Rao Bhakre Pratishthan, Nagpur, Nagpur Municipal Corporation and Education Department. 4750 students from 108 schools participated the contest.

Orange City Science Fair & International Year Of Crystallography:

To mark the International Year of Crystallography, Orange City Science Fair was organised at Raman Science Centre, Nagpur in collaboration with Navneet Education Limited, Nagpur during 22nd to 24th December 2014. The Fair was inaugurated by Dr. P. Sivaswaroop, Regional Director, IGNOU, Regional Centre, Nagpur

The programs such as Meet The Scientist programme, Working Science Model Contest and exhibition, Teaching aid Demonstration contest, Written Science quiz contest, Science Demonstration on Fun with Chemistry, Open House quest & Poster Exhibition were organized. 1247 students & teachers from 175 schools participated in these activities. About 32,540 students, teachers and general public visited the exhibition.

Science Expo-2015

'Science Expo', a unique event to bridge the gap between science and society was organised at Raman Science Centre, Nagpur, with collaborative efforts of 13 Science & Technology institutions in Maharashtra from January 7 – 11, 2015. 13 Research and Scientific organisations showcased their R & D activities in the 'Science Expo 2015.

The **Science Expo2015** was inaugurated on 7th Jan. 2015 at 11.00 am. by Smt. GeethaVardan, Director, Advanced Data Processing Research Institute, Hyderabad. Dr. Satish R. Wate, Director, NEERI, Nagpur presided over the function. Other heads of the institutions and scientists were present. After inauguration the Science Expo was open for public from 11.00 am. to 5.30 pm on 5 days. The Science expo received overwhelming response as about 62500 visitors including students, teachers and general public visited during 5 days.

Popular Science Lectures were held at 12.00 noon, and 3.30 pm every day. 10 scientists from different organisations delivered lectures during the event. In all about 1900 students attended the lectures.

Valedictory function was held on 11th Jan. 2015 at 7.00 PM. Dr. K. R. Kranthi, Director, Central Institute for Cotton Research, Nagpur was the chief guest and Dr. AmitMajumdar, Regional Director, Atomic Mineral Directorate for Exploration & Research, Nagpur, presided over the function.

GREEN FINGER & GREEN SCHOOL AWARD CONTEST:

Green Finger & Green School Award has been organised at Raman Science Centre in collaboration with Hirwai, Nagpur. The contest was organised in 4 categories from October 2014 to January 2015. The projects like Plantation of Tree, Vegetables, Nursery Development and Tree census were entrusted on the students. The valediction & Prize distribution was held on 28th January 2015. Dr. Sharad Nimbalkar, Renowned Agricultural Scientist from Panjabrao Deshmukh Agriculture University was the Chief Guest of the function. In all 2350 students participated in it.

Orientation programme for the students of INSPIRE Workshop:

Orientation programme was organised at RSC, Nagpur on 15th January 2015 for the students participants of INSPIRE workshop organised by Shivaji Science College Nagpur. The students were taken to various facilities of the centre and special science quest and Science Demonstration Lecture on Fun at Low Temperature were conducted for them. 200 students and Teachers participated in it.

ROBOLYMPICS-2015

Raman Science Centre in collaboration with iLabs, Nagpur organised its most creative competition "RobOlympics-2015" from 30th Jan - 1st Feb, 2015. The event Rob Olympics was inaugurated by Dr. A.K.Joshi, Regional Manager, Regional Remote Sensing Centre-Central Region, Nagpur. Shri. Vishwanath Joshi, Project Co-ordinators, Raman Science Centre, Shri Abhishek Angole, Director, iLabs, Nagpur were also present on the occasion. Following events were organised during ROBOLYMPICS:

1) Robo-Pradarshini : The exhibition, an open platform for the enthusiastic students to showcase their creative and innovative models. This was for two categories viz. School Students & Jr. College Students. The Pradarshinii was participated by 96 students in 51 teams.

2) Robo Race: Task for the students was to make a wireless or wired remote controlled machine, powered by a battery, which can race against other opponents on an off-road track with many obstacles. Robo Race is participated by 88 students in 47 teams. The Race was started with elimination round.

3) The-e-handi :

In this event the candidate's robot had to cross two layers of the-e-handi, Robo track and reach the-e-handi at top and finally hit the-e-handi to make it fall down. This contest was also participated by 46 students to form 27 teams.

The RoboPradarshini was open for students & general public till 01st February 2015 14304 student, teachers & general public visited the exhibition and also witnessed the events Robo Race & Robo the-e-handi during this period.

POPULAR SCIENCE LECTURE

Popular Science Lecture was organised on 7th Feb 2015 in collaboration with IGNOU, Regional Centre, Nagpur. The lecture was delivered by Prof. Jayant Khandare, MIP, Pune & Secretary, RSC West India Section on the topic **Science At Early Age**. 145 students from 16 schools participated in the lecture.

NAGPUR SCIENCE & ENGINEERING FAIR:

In order to encourage innovative ideas of college students and to enhance their thinking ability towards the research in the field of science & technology, Raman Science Centre in collaboration with Technology Park, RTM Nagpur University, Nagpur and Indian Science Congress, Nagpur Chapter, organized the **Nagpur Science & Engineering Fair** for the first time from **19 to 21 February 2015** at Raman Science Centre.

Fair was inaugurated on 19th February 2015 by Prof. Vinayak Deshpande, Vice Chancellor, RTM, Nagpur University. Dr. Narendra Chaudhari, Director, Visvesvaraya National Institute of Technology, Nagpur presided over the function. Dr. Harjeet Juneja, Director, Technology Park, RTM Nagpur University was also present on the occasion.

180 students with their 70 selected innovative research based Science & Engineering projects in the form of 3D working Models. 51 Projects in the form of posters from 30 Science & Technology institutions in and around Nagpur also participated in the fair. This fair served as a platform for young college students to exchange their ideas with other participating students and also had an opportunity to interact with students and general public visiting the fair in large number.

During the Fair 3 Popular lectures were also held on the topics Innovative Product Design using Rapid Prototyping, Green Revolution to Gene Revolution, Human Excellence & Robotics. 380 students, teachers 7 general public attended the lectures.

The event was witnessed by over 10,376 general public including many college/school students who not only saw the exhibition but also had an opportunity to interact with the participants during this 3 day event

NATIONAL SCIENCE DAY CELEBRATION-2015

Various Programme & contests were organised during the National Science Day by Raman Science Centre in collaboration with Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra and NCSTC, DST, Govt. of India.

Programmes such as Science Slogan Writing Competition, Essay Competition for Teachers, Mega Drawing, Competition, Science March, Sir C. V. Raman, Memorial Lecture, Open house Quiz, Elocution Competition, Written Science Quiz, Popular Science Lecture, Science Film Show, Treasure hunt, Power Point Presentation Competition for teachers, Sky Observation Programme, Open House Quest, Popular Science Lecture etc were conducted from 25th February to 07th March. 5951 students, teachers from 340 schools participated in all the events.

National Mathematics Day Celebrations:

National mathematics day was celebrated at RSC, Nagpur in collaboration with Rajiv Gandhi Science & Technology Commission, Govt. of Maharashtra and NCSTC, DST, Govt. of India. Various Programmes & Contests were organized during 17 to 20 March 2015. Workshop on Mathematic, Teachers' Training Programme, Popular Lecture, Written Maths Quiz, and Teaching Aid Demonstration Contest cum Exhibition were conducted during the celebration. 258 students & teachers from 43 schools & colleges participated in all the activities.

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