



Shri Gujarati Samaj, Indore
PMB Gujarati Science College
PERIHELION

Quarterly Newsletter-
 Jan-Feb-Mar 2015-
 Issue 6-
 Year 2-



Shri Bharat Bhai Bavisi
 Chairman G.B.

Special events in this
 edition

Individual Highlights

Page 2 contents:

Departmental Activities

Page 3 contents:

Departmental Activities

Page 4 contents:

Departmental Activities

Page 5 contents:

Departmental Activities

Page 6 contents:

Departmental Activities



Shri Harshai Patel, newly
 appointed president of
 Shri Gujarati Samaj, Indore
 Peer Team, NAAC Visit
 [27, 28 March]



EXIT MEET



From the Desk of Principal

The last three months have seen hectic preparations for the NAAC Peer Team visit at the end of the month of March. So, apart from the regular academics and other activities, work was on in full swing to achieve best possible output. We also organised our annual function 'Excellence 2015' successfully. The academic aspects were well-attended to. Many staff members had duties in

the local body elections also. In all there was lot of activity and I am glad we have managed to go through it all to the best of our ability. Many faculty members have been actively involved in other activities as well, as also our students. I am hopeful we will continue to work with the same vigour in future.

Dr. Santosh Nagar

News at a Glance

- **Principal Prof. Santosh Nagar** was awarded his Ph.D. degree on "Comparative studies on morphotypes of *Cissus quadrangularis* L. and *Butea monospema* (Lam.) Taub.: Two medicinally important plants".
- **Dr. J. Sikka** was Chairperson in Biological Science Academic Session on 28th Dec. 2014 in 3rd M.P. Woman Science Congress (28 and 29 Dec.).
- **Ph.D. viva voce** of Shri Ketan Topiwala, department of Chemistry, was held on 14 March 2015.
- **Dr. S. Ray** was appointed as an expert in taxonomy to prepare district wise Phytodiversity inventory of Malwa ecoregion by MP State Biodiversity Board. The work will covered into 8 districts of Malwa.
- **Dr.K. Manderia** presented research paper titled "Evaluation of gaseous and Particulate Pollutant load and its impact on some cereal crops in south west of M.P.", organized by School of Zoology and Biotechnology Studies, Vikram University Ujjain, on 30-31 Jan. 2015 The research paper was presented In International Conference on Agriculture, Veterinary and Life Science, 2015.
- **Ms. Kiran Paliwal & Ms. Smriti Chouhan**, department of Microbiology, have cleared the written examination & interviews of Ph.D. entrance of Barkatullah University, Bhopal on 12th March 2015 and shall be registering for Ph. D course work.
- **Ms. Mahima Golani**, department of Microbiology, attended seminar as Nodal Officer on "Mahavidyalin Chatra Surksha Samiti" at DAVV, Indore, on 27.01.15
- **Dr Satyenda Sharma**, sports officer, did his refresher course from UGC ASC, DAVV, from 20 Feb. 2015 to 12 March 2015 on 'Physical Education and Yoga'.
- **Dr. Rajesh Dixit**, represented D.A.V.V., Indore as manager of Squash tournament, 16-19 Feb. 2015 at Tanzvor, (Pondicherry).
- **Mr. Manish Joshi** qualified in the final interview of Asst. NCC officer (ANO) of the Airwing Unit of the college.

Microbiology Department



Personality Development Program
Group Discussion Session



Poster Competition
Topic: Science for Nation Building



Poster Competition
Topic: Science for Nation Building

Ms Smriti Chouhan won I Prize in Poetry Category; Ms Amruta Geed won III Prize in Poster Category during the competitive event- Let's Make It Happen, organised on International Women's Day, 08.03.2015, by All India Institute Of Local Self Government, Shabd Shilp, Bull's Eye Institute, Departments of Languages & Microbiology. Ms Mahima Golani was invited for a guest lecture on "Waste Water Treatment Process" at the department of Biotechnology PMBGSC 3rd March 2015. Dr. Nandini Phanse was invited to deliver an expert talk on- "Swine Flu" at Cloth Market Kanya Mahavidyalaya on 27 February 2015. Ms. Smriti Chouhan was invited as an expert to guide school students of slum area for preparation of exams, at Samaj Sewa Prakosht, Indore on 01.02.15. Dr. Nandini Phanse was invited as an expert to conduct an interview of JRF of a MPCST project, at Soft Vision College, Indore on 29.01.15

Dr. Nandini Phanse attended a workshop on Animal Tissue Culture organized by Sanghvi Institute of Management & Science, Indore on 12th & 13th February 2015. Ms Mona Bhatnagar & Ms Devshree Joshi were members of the organising committee of The Mathspeak India International Conference-2015, organized by Employment for Education Foundation, New Delhi in association with Assessment Tomorrow UK, sponsored by NCERT, ministry of HRD, Govt of India, on "Teaching of Maths in 21st Century", conducted by Department of Mathematics, P.M.B.Gujarati Science College, Indore.

"General Quest" the annual Quiz Competition of the institute was conducted & convened under guidance of Ms. Mahima Golani on 20th February 2015. Ms Kiran Paliwal & Ms Mona Bhatnagar were the members of the organising committee. Ms. Smriti Chouhan, Ms. Devshree Joshi, Ms. Amruta Geed, Ms. Leena Sheth & Ms. Shivalika Khode were members of the various cultural committees of college annual function. Ms Mona Bhatnagar & Ms Leena Sheth accompanied students during the NSS camp held at Kripalaya Cancer Foundation, Rau, Indore. Ms. Mona Bhatnagar compered the programme on "Women Empowerment" organized by NSS unit of PMB Gujarati Science College, Indore on 9th March 2015. Ms. Smriti Chouhan recited her prize winning poem "Maa Ki Laal Hari Churiyan" in the same event. Dr. Nandini Phanse, Ms. Mahima Golani and Ms. Mona Bhatnagar were appointed as members of NAAC committees constituted in the institute. M.Sc Microbiology students- Kanika Chaurasia, Shweta Chouhan, Md. Awesh

Sheikh, Md. Waquas Khan, & Vishnu Chaudhary attended a workshop on Animal Tissue Culture organized by Sanghvi Institute of Management & Science, Indore on 12th & 13th February 2015. Students of B.Sc and M.Sc. Microbiology participated in various Inter Collegiate competitive events held at Maharaja Ranjeet Singh College, Indore on 27th February 2015. B.Sc. Microbiology students attended the NSS camp from 28th Feb - 6th March 2015. They worked for social awareness & contributed towards Swachh Bharat Mission.

Poster Competition on National Science Day-Inspire: A poster competition on "Science for Nation Building" was organised by the Microbiology department on 28th February 2015 as a part of celebration of National Science Day. Dr. Santosh Nagar, Principal, PMB Gujarati Science College and Dr. Pragya Rathore, Head, Biotechnology, SIMS, Indore, were the judges of the event. About 24 computerised posters were prepared by students the department.

On the occasion of International Women's Day, Departments of Languages & Microbiology in association with All India Institute Of Local Self Government and Shabd Shilp, organised an event "Let's make it Happen" which focused upon literary work, paintings, sketching, and photography. Ms Smriti Chouhan, Ms Kiran Paliwal, Ms Amruta Geed and students participated in the event. B.Sc students Gopal Krishna Patidar (B.Sc. IV Sem) & Vaishali Shukla (B.Sc. VI Sem).

Health Care Awareness Campaign- *Because We Care*

1. Swine Flu Posters Displayed
2. Blood Group Determination Camp Guidance to Slum Area Students
3. Ms. Smriti Chouhan provided guidance to about 150 school students of slum area for preparation of exams, during an event organised by Samaj Sewa Prakosht, Indore on 01.02.15

A Group Discussion session was organised on 12 March 2014. Corporate trainer, Mr. Mihir Phanse for students to test their Soft Skills.

1. A career guidance seminar on- "Career Opportunities in Pharmaceutical Industry", by Mr. Darpan Chopra, Manager Quality Control at Ranbaxy Laboratories Limited, Dewas, Indore; was organised on 14 February 2014. Mr. Darpan Chopra, Student Alumni (B.Sc. Microbiology -Batch of 1997) guided students on the expectations from a microbiologist and the nature of work in pharmaceutical industry.

Tech Connect-

Cognizance_DOM ; the official "Whats app" group for students of Department of Microbiology was initiated on 24th Jan 2015. Updates regarding current vacancies are provided.



Languages Department



Creative Writing Workshop

Annual Function
Excellence 2014-15



The department organized Basant Panchami celebration on 24 January 2015. Principal, all teaching and non-teaching staff members of the college were present on the occasion and rendered Sarswati Vandana. The programme was conducted by Dr. Jyoti Singh.

The department and magazine committee organized a one-day workshop for B.Sc. and M.Sc. students on 'Creative Writing' on 10 February 2015. In the opening ceremony of workshop, Principal Dr. Santosh Nagar encouraged students to take part in different activities of college. Dr. Deepa Vanjani and Dr. Jyoti Singh threw light on the different genres of creative writing. Students wrote articles on such topics as: save the girl child, respect women, save environment, save the planet, emergency numbers, importance of traffic rules and made message-oriented posters that covered the themes as banning female foeticide.

The department, along with Microbiology department, Shabd Shilp, a literary group founded by Dr Deepa Vanjani, and All India Institute of Local Self Government, Indore, organized a competition on "Let's Make it Happen...", on 8 March 2015 to focus on issues related to women, with the focus being on 'Save the Girl Child'. Dr Jyoti Singh participated in poetry category in the event.

Dr. Deepa Vanjani gave her active participation in NSS camp organized by NSS unit of college. Dr Jyoti Singh, Dr Trishna Shukla, Ms. Varsha Nahar and Ms. Kusum Joshi were in charge of the anchoring committee to guide and prepare students who hosted the annual function of the college. Students were guided to prepare and present charts on various subject related topics.

Dr. Deepa Vanjani and Mrs. Kusum Joshi were members of the organising committee of the International MathSpeak Conference organized by Mathematics department on 7/02/15.

A certificate distribution programme was organized in the Language Lab on 13 March 2015 to give certificates to students who attended 'Finesse', a personality development and communication skills certificate programme in Language Lab and to the students who participated in Bhartiya Sanskriti Gyan Pariksha. A lecture on Soft Skills of PG student of Physics Ms. Neha Joshi on was also arranged in Language Lab for UG students.

Dr. Jyoti Singh presented research paper at Indore Christian College in the International Conference on 'Science, Society and Technology' on 21 March 2015 on the topic 'Vaishvik Soochna- Sanchar Tantra aur Badalti Manviya -Sanskritik Chetna'.

Department of Chemistry

Under Knowledge Gallery, students were introduced with natural colouring pigments like flavonoids, carotene, chlorophyll, lycopene which are responsible for colour absorbance as chromophore. A chart was also prepared to demonstrate pH of soil & importance of different Vitamins, etc. A fun model of 'Soap Bubble' was also placed which entertained all students.

Dr. Rushina Natu was invited as resource person for career counseling cell in New G.D.C.College from 16th March to 24th March, where she delivered lecture series on personality development. She was also resource person in 3rd M.P. National Women Science Conference in Holkar Science College Indore.

Dr. Rushina Natu was interviewed by SR & Sahara News Channel for Eight Women Celebrities of Indore on International Women's Day 8th March 2015. Dr Natu presented a research paper in National Women Conference on Drug Design. She

was also cultural coordinator in 'Excellence 2015', annual function of college.

Dr. D. Dwivedi delivered a lecture at SIMS on "Chemistry as experimental Science". A research paper of Dr. D. Dwivedi and Dr. Anil Gharia "Antimicrobial activities of some medicinal plants" were published in 3rd Madhya Pradesh Women Science Congress proceedings.

The department arranged expert lectures. The first lecture was delivered by Dr. Sarita Khare Professor, School of Chemical Science. Another lecture was delivered by Dr. Geetha Sarsan, Prof., Holkar Science College, Indore on 2 March 2015.

Ms. Sandhya Dixit (faculty, M.B. Khalsa College) has submitted her Ph. D. thesis under supervision of Dr. Anil K. Gharia.

Mr. Ranjeet Singh (traffic police) nominated for presidential award, delivered an inspiring lecture on "Koi Kaam Chota nahi hota: Desh pehle phir hum" on 13th March 2015 to all U.G. & P.G. students.



Ph.D. viva of
Prof. Santosh Nagar



Educational Tour

Department of Botany

Ph.D. open viva of Prof. Santosh Nagar was held in the department.

Dr. Pramod Khare, Head department of Botany, Hari Singh Gour University, Sagar was External examiner for the Viva.

The title of the thesis is "Comparative studies on morphotypes of *Cissus quadrangularis* L. and *Butea monospema* (Lam.) Taub.: Two medicinally important plants", guided by Dr. C.M. Solanki, Ex. Head Department of Botany, P.M.B. Gujarati Science College, Indore.

The following teaching staff was incharge of different activities of the department.

Activity - Rangoli, Mandana, Tatoon and Face making.

- Convener - Dr. M. Adhav
- Members of Quiz Committee were Ms. Preeti Parashar, Dr. K. Manderia, Ms. Charulata Shah
- Members of Dance Committee were Ms. Vidya Dubey, Ms. Priya Trivedi
- Member of Antakshari Committee was Dr. S. Shrivastava
- Stage arrangement - Convener, Dr. S. Ray

Activity Visit to M.P. Pollution Control Board (12/3/2015)

All M.Sc. students were taken to M.P. Pollution Control Board for laboratory visit. Incharge was Ms. Priya Trivedi.

Activity Botanical Excursion and Educational Tour (13/3/2015)

All M.Sc. students participated in Botanical Excursion and Educational tour to Mandu. Ms. Priya Trivedi, Ms. Charulata Shah and Avedhesh Dhoere, Research Scholar accompanied the students. They saw different Monuments visited Ashmdha Fossil

Park and collected various plant specimens. They studied the fossil vegetation found in Dhar dist. And saw fossil of Angiospermic plants (seed bearing) which has fossil record of 7 crore years.

Dr. J. Sikka Co. Chaired in the Biological Science Academic Session on 29th Dec. 2014. 3rd M.P. Woman Science Congress (28 and 29 Dec.) in the 3rd Woman Science Congress organised by Govt. Holkar Science College, Indore. Dr. J. Sikka was Member of Organizing committee -Third math Speak India 2015, International conference on "Teaching of Mathematics and Numeracy in 21st Century India" on 7 Feb. 2015

Organized by Education for Employment foundation and Department of Mathematics, P.M.B. Gujarati Science College, Indore. Dr. S. Ray invited to deliver guest lecture for M.Sc. Botany and Microbiology Students Organized by Shivaji College of Arts and Commerce and Science Akola. Dr. M. Adhav published research Paper on "Phytochemical Screening and antimicrobial activity of *Mallothus Philippensis* Mull Arg" in Journal of Pharmacognosy and Phytochemistry 2015, 3(5) ixix.

Prof. Charulata Shah attended the national conference 3rd M.P. woman Science Congress on women employment and their role in sustainable development of India organized by Holkar Science College on 28-29 Dec. 2014

Students of B.Sc. VI Sem. & M.Sc. IV Sem. attended 60 hrs. Job-oriented project on Food Preservation, Nursery Technique and Pharma Industries. This knowledge will help them in self-employment in future.

Department of Electronics and BCA

The new semester started in January 2015. In this session, all academic and non academic activities were monitored from the beginning. Students of Electronics and Computer Application prepared E-posters as their CCE assignment. To upgrade the knowledge of students and to guide them to choose their careers in different fields, the department organized three different lectures of eminent experts details of

which are as follows:

- Mr. Pranay Wagle, Senior Scientist, Nevo control, Latest trends in Microprocessor on 7 Feb, 2015.
- Mr. Akhilesh Gour, Gour Soft Pvt. Ltd. ,Future prospects in Electronics on 17 Feb, 2015.
- Mr. Sanjay Vyas, Hardware Technology Park, Future prospects in Electronics on 12 Mar, 2015.



Expert Lecture

By Dr. Sandeep Nanawati
Biotechnology Department



Educational Tour

Biotechnology Department



Inaugural Ceremony International MathSpeak Conference



NCC Republic Day Camp 2015, Air Wing
Unit cadet Chintu Raju, Sc. I SEM, M3
with DG NCC Lt Gen Aniruddha
Chakravarty

Department of Zoology

1. Ph.D. viva of Prof. Raksha Modi on 14 Feb. 2015
2. Dr. Vibha Dave: Radio talk on 'Time Management during Exam Preparation'.
3. Dr G.D. Sharma: Duty in local body elections.
4. Six articles of Dr Rajesh Dixit in **Monthly News Bulletin of Agriculture**
 - A. 'Krishi Vardaan' - Titles-
 - i. 'Resham Palan' - Dec. 2014
 - ii. 'Murgi Palan' - Jan. 2015
 - iii. 'Keet Niyantran' - Feb. 2015
 - B. 'Pragya Sanchar' -
 - i. 'Resham Udyog' - Dec. 2014
 - ii. 'Jaivik Khaad' - Jan. 2015
 - iii. 'Khushal Kisaan' - Feb. 2015
5. Research Publications:
 - I. Dr. G.D. Sharma, Dr.R.Dixit & Dr. Vibha Dave - Chapter in Indian Research Trends in Zoology, 2015-pp141-148
 - Histopathological Study & Gas Chromatographical Analysis of Insecticide Residues on The Kidney of Freshwater Teleost, Heteropneustes fossils.'
 - 'Effects Of Endosulfan on The Liver of Freshwater Teleost, Heteropneustes fossilis.' pp133-140
 - II. Dr. Vibha Dave, Dr. S. Chaturvedi & Prof. Chetna Savita International Journal of Biological Sciences (in Press-2 papers)
 - III. Dr. Shobha Chaturvedi
 - A. International Journal of Recent Research in Life Sciences (IJRRLS) Vol. 2, Issue 1, pp: (45-52), 'Biochemical Changes in Ascorbate and Peroxidase Activity in the Adrenal Gland during Different Stages of Reproductive Cycle of Rat (Wistar Strain)'
 - IV. Dr. Shobha Chaturvedi & Dr. Raksha Modi International Journal of Biological Sciences (in Press)
 - i. 'Biochemical changes in peroxidase and ascorbate in the adrenal of rat during pregnancy'
 - ii. 'Biochemical changes in peroxidase and ascorbate in the adrenal of rabbit during pregnancy'

Department of Mathematics

The department of Mathematics of PMB Gujarati Science College, Indore in collaboration with Education for Employment Foundation, New Delhi, MHRD, Government of India, NCERT and Shri Gujarati Samaj Indore organized the third International MathSpeak Conference on 7 February 2015. The conference topic was 'Teaching of Mathematics and Numeracy in India in 21st Century'.

Dr. Divakar Bhai Shah, president of Shri Gujarati Samaj Indore presided over the inaugural ceremony, while Shri Kanhiyalal Thakkar was the special guest. Dr. Tejwant Chhatwal, Managing Director and CEO of Education for Employment Foundation and Mr. Jeff Ross, conference director and MD of Assessment Tomorrow from UK were present. Principal Prof Santosh Nagar delivered the welcome address. Mementoes were presented to all dignitaries.

In the plenary session Dr Anupam Jain, Professor of Mathematics, Govt. College,

Sanwer, spoke on 'Mathematics Teaching in 21st century'. The first session which was chaired by Jeff Ross had eminent speakers like Dr Prof. Ashutosh Wazalwar, Head of Department Science & Mathematics, NCERT, Mr. Ambarish Dutta, Managing Director & CEO, Bombay Stock Exchange and Dr. Prof A K Rajput, Head, Primary Mathematics, NCERT as the speakers. They threw light on various aspects of mathematics teaching and emphasized on making the subject more interesting by engaging the students in interaction rather than promoting learning by rote.

In the second session Mr. Jeff Ross threw light on 'The developing landscape of Maths curriculum and qualifications' while John Munt, Deputy Head, Forest Hill School, London and Grahame Smart IST Maths Teacher and Consultant spoke on 'Q & A'. The session opened with a demonstrative video on 'Teaching Methodology'. The session closed with a panel discussion in which the key note speakers participated.

Annual Function 'Excellence 2015'

The annual function Excellence-2015 was organized in the month of February. Various activities such as music, dance, mehendi, rangoli, antakshari, quiz and tattoo-making were a part of the function. The students displayed their talent in all genres with gusto. Our faculty members played an active role in preparing the students.

Dr. Rishina Natu
Cultural Coordinator

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Departmental Activities Cont.

Department of Computer Science and IT

NAAC inspection was due in the month of March. In this connection all the three computer labs were up-graded with networking. Mr. Sanjay Sharma prepared flex banner using Photoshop which included all major activities of the department. Mr. Brijesh Vijaypuriya uploaded latest information of all departments of the College. Various faculty members were

engaged as conveners and members in different college committees during college annual function. Department started innovative practice of automatic attendance recording system, employee database management system, student feedback system for faculty, up-gradation and maintenance of website, design and dispatch of quarterly news letter etc.

Biotechnology Department

Two staff members of the Department, Dr. Priti Vyas & Ms. Heena Soni attended a fifteen days workshop on Bioinformatics held at Holkar Science College, Indore, from 1st Jan. to 15th Jan. 2015.

Dr. Priti Vyas & Ms. Poonam Vijaypuriya attended one day International conference on "Teaching of Mathematics & Numeracy in 21st century India" organized by Education for Employment Foundation, New Delhi, Assessment Tomorrow UK, and organised by department of Mathematics at P.M.B. Gujarati Science College, Indore. In which one of our staff member Ms. Poonam Vijaypuriya & four students of B.Sc. 1st year Biotech, Ms. Megha Patidar, Ms. Mrunalini Jyotishi, Ms. Shikha Parihar & Ms. Akansha Chouhan, participated the two days workshop on 'Animal tissue culture' held at Sanghvi Institute of Management & Sciences, Indore, sponsored by MPCST, Bhopal on 13th Feb. 2015.

Two IV Sem. Students, Ms. Nirva Makecha & Jaya Nagar participated in inter college, poster competition, held at Maharaja Ranjeet Singh College, Indore on 27th Feb. 2015.

Expert talks were arranged in the

department Prof. Ms. Mahima Golani (Department of Microbiology, P.M.B. Gujarati Science College, Indore,) gave informative talk on "Sewage Water Treatment on 3rd March 2015. In the series of lectures, another talk by Dr. Sandeep Nanavati (Professor and Head, Veterinary College, Mhow) was arranged on 9th March 2015. The topic of his talk was "Use of Biotechnology in Veterinary Sciences". Around 20 students of B.Sc. (Biotechnology II & IV Sem.) & 15 students of M.Sc. (Microbiology) were benefited by the lecture.

A poster competition for B.Sc. IV Sem. was conducted in the department on. The topic being "Swine Flu", in which Ghanshyam Patel & Shweta Soni, IV Sem. got I prize & Jaya Nagar & Aman Sahu, got the II prize.

An educational tour was organized by the department on 13th March 2015. The students of B.Sc. sem. VI visited "Plant Tissue Culture Laboratory" at Maharaja Ranjeet Singh College of Professional Studies. Sixteen students accompanied by two staff members viz. Ms. Poonam Vijaypuriya & Ms. Heena Soni, visited the lab. The visit was organized to upgrade their knowledge about Plant Tissue Culture Techniques, which is an integral part of their curriculum.

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