



Shri Gujarati Samaj, Indore
PMB Gujarati Science College
PERIHELION



Shri Bharat Bhai Bavisi
Chairman G.B.



-Quarterly Newsletter -
 -Oct-Nov-Dec 2014-
 -Issue - 5-
 -Year - 2-

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Departmental Activities

**“The woods are lovely, dark and deep-
 But I have promises to keep
 And miles to go before I sleep,
 And miles to go before I sleep.”**

Robert Frost

From the Desk of Principal

Time has flown by and we are into the fifth edition of our quarterly newsletter. In retrospect, I view that we have initiated some fruitful activities. Academically we completed the semesters at under graduate and post graduate levels. The theory syllabus was completed and practical exams conducted as per the timetable. The Knowledge Gallery which had begun at the beginning of the session went on smoothly, with all departments contributing to it as per the calendar. In the same way the Mission Green campaign pertaining to

environmental activities was also a success. We are into the preparation of the NAAC peer team visit in 2015 on war footing. The Self Study Report was submitted in October and also uploaded on the college website. I hope this edition of the newsletter is able to achieve its purpose of encapsulating the activities and achievements of the college and its staff members. I am also hopeful that we will carry forward the mission and vision of the college and of Shri Gujarati Samaj in the New Year with renewed vigour.

Prof. Santosh Nagar

News at a Glance

Prof. Santosh Nagar published two papers- ‘Comparative Phytochemical Screening of Stem Extract of Morphotypes of *Cissus quadrangularis* L Medicinally Important Plant’ in international journal Indian Research Communication, Vol. 8 [1]: 81-83 [2014] and “Studies on Phytochemical Constituents and Anti-Microbial Activity of *Cissus quadrangularis* L. in National Journal of Life Science, Vol., II(1) 2014:15-18.

The PhD candidate of **Dr. Jyoti Singh**, Seema Parsai, has been awarded her doctoral degree. She worked on the topic ‘Shri Narendra Kohli ka Kathyaitar Sahitya’.

Dr. Nandini Phanse, presented a paper entitled “Isolation & Characterisation of PHB Producing Bacteria from Industrial Wastes” in the International conference on “Emerging Challenges in Biotechnology, Human Health & Environment” held at School of Biotechnology, DAVV, Indore, from 18-20 December, 2014. **Ms. Mahima Golani** presented a poster entitled “Optimisation of Potential Lipase Producing Bacteria from Diverse

Sources”.

Two students of **Dr. Jaishree Sikka** had their pre-PhD presentation. Ms. Reena Sharma’s presentation was held on 30/09/14. Her topic is “Water Quality Assessment and Phytoremediation of the Khan River Water Using Some Plant Species.” Miss Nidhi Bajpai had her presentation on 10/10/14 on “Assessment of Pollution Load in the Khan River Water & its Effect on Morphological and Reproductive Biology of Some Plant Species.”

Dr. G.D. Sharma participated in Indore Marathon of 10 Km. He completed successfully in 01 hour 11 minutes. For this Dr. G.D. Sharma was honoured with a medal and certificate by company managers.

Dr. Priti Vyas was invited as guest speaker in Shri Cloth Market Institute of Professional Studies, Indore to deliver a talk on ‘Stem Cell Research’.

Dr. K. Venkatraman participated in the workshop of Academic Development IPho 2015 as resource person for two weeks in Nov-2014 at HBCSC, Tata Institute of Fundamental Research, Mumbai.

Computer Science and Information Technology Department

The department organized 'Role Play' as CCE activity for Vth semester students.

Results of semester 2nd, 4th and 6th have been declared and were satisfactory (CS 6th sem 98.19, 4th sem 98.52, 2nd sem 79.79 %) and (IT 6th sem 94.73, 4th sem 91.66, 2nd sem 76.19 % respectively).

Mr. Sanjay Sharma delivered a lecture

on Personality Development in the month of October 2014 for students.

Annual Sports Badminton Competition was held in the college in November 2014 in which Prof. Sanjay Sharma was the Runner up.

The networking in the IT laboratory was completed in October and November and the same is being processed in the other two labs.

Microbiology Department

Ms. K. Paliwal & Ms. M. Bhatnagar attended an International conference on "Emerging Challenges in Biotechnology, Human Health & Environment" held at School of Biotechnology, DAVV, Indore, from 18-20 December, 2014.

Principal Prof. Santosh Nagar delivered expert lectures on-"General Characteristics of Fungi" (26.11.14) and "Classification of Fungi" (01.12.14) to M.Sc. Microbiology & Botany students. Faculty members of Microbiology & Botany departments also upgraded their knowledge during these lectures.

M.Sc. Microbiology (Semester III) students attended a training programme on "Advanced Instrumentation" at P. G. Tech Research Institute, Indore, from 3-15 November 2014.

Under the aegis of the Health Awareness Campaign, "We Care for you..." the Department celebrated **World Hand Washing Day**, on 15th Oct 2014. M. Sc. and B.Sc. students of the department, motivated children of C.M.P. Gujarati Primary School, Shri Kamala Nehru Primary School, Shaskiya Hindi Prathamik Vidyalaya No. 16, Bakshi Galli and Shaskiya Marathi Madhyamik Vidyalaya, No.17, Indore, to wash their hands with soap. During the

event school children of the city were explained about the importance of hand hygiene in preventing the spread of diseases through role play, posters and videos. Liquid detergent /soaps were distributed to the school children during the event. Prof. Santosh Nagar addressed students of C.M.P. Gujarati Primary School and encouraged them to follow a hygienic life style. The event was convened by Dr. Nandini Phanse, Ms. Leena Sheth and Ms. Mona Bhatnagar.

Since 2013, the department has taken the initiative to celebrate **The Joy of Giving Week** [October 2 to 8] under the banner "Gift Compassion". In this campaign, staff and students of Microbiology department voluntarily contributed stationary, clothes and other useful items and donated them to Arman orphanage, Shradhanand Orphanage and Amardas charitable trust.

Sanitary Inspector Diploma Course students of **All India Institute of Local Self Government (AIIILSF)** performed their practical course work in the Microbiology laboratory from 23 - 26 December 2014. The proposal of Mr. Manoj Joshi, Regional Director, AIIILSF, for availing facilities of Microbiology laboratory for the course work was sanctioned by our Management. Microbial cultures were provided to Botany department of Mata Jeejabai Government P.G. Girls College, Indore.

Physics Department

Dr. P.K. Dubey, Dr. P.A.Kekre, Dr. Saroj Potdar, Mr. R.D.Farkiya, Dr. Ashish Dubey, Dr. Sanjay Shah, Mr. Gopal Dangi, and Ms. Ashwini Girothia participated in national conference on 'Innovative Trends in Applied Sciences, Humanities, Management and Environment' organised by Shri Vaishnav Institute of Technology and Science, Indore on 14/10/14.

Dr. P.A. Kekre and Dr. Sanjay Shah,

presented their research papers in this conference.

Dr. P.K. Dubey delivered his invited talk in this seminar on "Pulse generators".

Dr. Sanjay Shah published his research paper entitled 'Superconducting Transition Temperature of Electron Doped Nd-Ce-CuO Superconductors' in Journal of Physics and Chemistry of Materials {J.phys.chem.mater.01 2003(2014)}.



Microbiology department-Joy of Giving Week



World Hand Washing Day



Dr. P.K. Dubey delivering his invited talk



Languages Department

Dr. Jyoti Singh and Dr. Trishna Shukla presented their papers in the national seminar in Maharani Laxmibai Govt. PG Girls College, Indore on 30 October 2014 sponsored by MP Science and Technologies Council, Bhopal. Dr. Trishna Shukla's paper was titled 'Satranga Suchnatmak Sansar: Swaroop Evam Sambhavnaein' while **Dr Jyoti Singh** presented a paper on 'Hindi Vigyan Kathon ki Kathavstu ka Sanshipt Vivechan..' The papers have also been published in a book with an ISBN.

Dr Jyoti Singh's paper 'Neela Chand Upanyas mei Aitihisik Yatharth aur Sanskritk Alok' was published in literary journal 'Shodh Pravah'[ISBN 978-81-926330]. She presented a paper on 'Stress Management and its 10 principles in National seminar on Soft Skills in

Bherulal Patidar College, Mhow on 14-15 November.

Mrs. Varsha Nahar and Mrs. Kusum Joshi presented papers in the Second Multi-Level National Conference 'Creating Value through Effective Communication' in LNCT, Indore on 29 November 2014. The paper of Mrs. Nahar was based on 'Empowering Communication through Emotional Intelligence'.

Mrs. Joshi's paper was titled 'Achieve Your Goal through Negotiation with Effective Communication'.

Dr. Deepa Vanjani was the key-note speaker for Communication Skills in the conference. She also attended a workshop on Personality Development on 30-31 October 2014 organised by BSL Training Company, Indore.

Botany Department

Pre Submission Presentation for Ph.D. thesis of Ms. Pooja Gupta, student of Dr. C.M. Solanki, ex head, department of Botany, was held on 14/10/2014. The title of the study is "Lichen flora of Assam."

A student seminar for M.Sc. III Semester students was held on 5 November 2014. Students presented their seminars on various topics like mechanism of enzyme action, gene mutation and its types etc. Principal Prof. S. Nagar, Dr.J.Sikka, Dr. Sudip Ray, and Dr. Madhvi Adhav evaluated the presentation.

M.Sc. students of the department participated in the activity of Knowledge Gallery in the month of December and prepared posters for display in the gallery. Ms. Preeti Parashar was in charge of this activity.

Zoology Department

A special guest lecture had been conducted on "Parasites and their diseases" in the Department by senior faculty of Zoology Prof. Dr. Rekha Sharma, Autonomous Holkar Science College, Indore.

Dr. G.D. Sharma (HOD) had been invited to conduct the expert lecture on Research Methodology in P.G. Dept. of Saifia Science College Bhopal (MP) on 8th Nov. and 12th Nov. 2014.

Expert talk on topic "Personality Development" was conducted on 27/11/14 by Prof. Dr. Santosh Pathak, Head, Department of Zoology, BLP Govt. P.G. College, Mhow. Two more lectures were conducted on 28/11/14-29/11/14 on communication skills, group discussion and personal interview by same speaker.

Prof. Dr. Milind Dange spoke on "Career Guidance". This special lecture on 09.12.14 had been arranged for PG students on the topic "Aquarium Maintenance". Another lecture on 10.12.14 was arranged for PG students. The speaker was Dr. P.K. Joshi, ret'd.

professor of Zoology.

Radio talk of Dr. Shobha Chaturvedi on the "Interesting things about animals" was telecast on 25.11.14.

Four joint research papers of Dr. Shobha Chaturvedi, Dr. Vibha Dave and Ms. Raksha Modi have been published in international research Journal.

One joint research paper of Ms. Chetna Savita and Dr. G.D. Sharma has been published in International Journal. Another joint research paper of Dr. G.D. Sharma and Dr. Rajesh Dixit also published in International Journal of Recent Research in Life Sciences (IJRRLS-2014), Vol.1, Issue 3, ISSN- 2349-7823.

Dr. Rajesh Dixit was invited as judge in Science Exhibition conducted by R.R.M.B. Gujarati Higher Sec. School, Indore. His article on sericulture on topic "A dream of farmer and modern technique of sericulture" was published in the November edition of Pragya Sanchar Agriculture research magazine for rural development.

A special camp was arranged for B.Sc. students for preparing their height - weight chart.



Abhishek Dave- Malkahm captain



Seminar of M.Sc. Botany students



Expert lecture for M.Sc. Zoology students



Plantation drive on campus under Mission Green campaign



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Departmental Activities Cont.

Biotechnology Department

Mr. Mukul Sharma from Spartans BSc V Semester focusing on various aspects of preparation for defense services like Institute delivered an informative lecture on 17/10/14 for students of NDA/NA, CDS, OTA, SSB etc.

Sports Department

Abhishek Dave of B.Sc. V Semester captured the DAVV Malkham team in All India Inter-University Malkham Competition 2014-2015 held at LNIPE, Gwalior. Our college has been given the responsibility of organizing **DAVV Division Level Inter-College Squash Tournament 2014-2015** at the Residency Club, Indore.

Chemistry Department

Dr. Kumud Modi (HOD) co-guided Mrs. P. Mahadik (Joshi). She was awarded Ph.D. on 14 November 2014, for her work on 'Green Chemistry Approach to the Synthesis of Some Azaheterocycles'.

Dr R. Natu also presented a paper (oral) in the same conference.

Ms. V. Dawar from Holkar Science College was awarded M.Phil. degree in co-guidance of Dr. A. K. Gharia.

Ms. Rashmi Sharma joined the department as assistant professor. Two students, Shaukat Ahmed Khoja (M.Sc. III sem.) & Harshit Raghuvanshi (B.Sc. I semester- Bio group) participated in Inter college quiz competition organized by Chemistry Department, IPS Science College & Vigyan Bharti on 28-29 December 14. Her topic was 'Women's Paradigm: Work Balance & Success'.

Dr. D. Dwivedi attended seminar in Holkar Science College in October 2014. **Dr. R. Natu** was invited as Resource Person in Women's International Conference organised by Holkar Science College & Vigyan Bharti on 2 November 2014.

Electronics Department

Dr. K. Venkatraman delivered an invited talk in national conference on 'Innovative Trends in Applied Sciences' in Shri Vaishnav Institute of Technology and Science, Indore on 14-October-14.

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