



Shri Deepak Bhai Soni
Chairman, G.B.

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"Quality means doing it right
when no one is looking."

Henry Ford

Shri Gujarati Samaj, Indore

PMB Gujarati Science College

Accredited with grade 'A' by N.A.A.C.

PERIHELION



From the Principal's Desk

The quarterly newsletter 'Perihelion' is our in house endeavour to showcase the activities of various departments, the achievements of our staff members, and the students as well. It is one among the many initiatives we have undertaken to uphold the institution's commitment its vision and mission and those of Shri Gujarati Samaj, Indore.

After taking charge as Principal of the college, this is the first issue of 'Perihelion' that is being published. As a college that has been accredited with grade A by NAAC, we have to work with greater diligence and zest so that we can take the college to greater heights of

achievements. We have to strengthen our commitment of imparting quality education to our students and of bringing about their holistic development. As educators, we have to frame citizens with a global vision. I am hopeful that all our faculty members will continue to be oriented towards this. As a science college, the emphasis should be on fostering an atmosphere conducive to scientific research and equipping our students with knowledge of the latest developments in the field science and technology. I am positive we will work in this direction with renewed vigour. I also wish all the success to my students and staff members in all that they undertake.

News at a Glance

- **Prof. R. B. Patel** took charge as the Principal of the college.
- **Dr. Nandini Phanse**, Head, department of Microbiology published a research paper in International Journal of Current Microbiology and Applied Sciences Vol. 5 (6):665-673 (ISSN: 2319-7706).
- **Dr. P.A. Kekre** has been nominated as Chairman of the University Selection Committee for Table Tennis.
- **Dr. Ashish Dubey's** Photo exhibition "Leading Lines" with Alliance Francise, Pondicherry from 24 September 2016 to 7 October 2016.
- **Dr. Madhavi Adhav** and Ms. Shilpi Patel published a research paper entitled "Thin layer chromatographic analysis for various phytochemical constituents in the ethanolic flower extracts of morphotypes of *Hibiscus rose Sinensis* Linn" in European journal of Biotechnology and Bioscience, July 2016, 4(4):13-17.
- **Dr. K. Venkatraman** has been nominated as Chairman of the University Selection Committee for Chess. He also published a paper on the "Fragility of Al alloy powder" in international journal IJIRSET, impact factor 6.209.
- **Dr. Vibhoj Parsai** and Shri S. Pal published a research paper 'Generalisation of Fibonacci Sequence in Case of Third Order Recurrence Relation' in the Ultra Scientist Journal.
- **Dr. Jaishree Sikka** and Ms. Charulata Shah presented a research paper entitled "Effect of treated and untreated sewage water on morphology and Biochemical parameters of *Trigonella foenum-graecum* L." in National Conference sponsored by M.P. Council of Science and Technology, 29th - 30th September, 2016, at Career College Bhopal.
- **Dr. G.D. Sharma** and Mudassar Ahmad, International Journal of Applied & Universal Research, Impact of Sublethal Concentration of Carbofuran on Biochemicals of Liver of Fresh Water Fish *Channa punctatus* ISSN No.: 2395-0269.
- **Ms. Anjali Ray** published two research papers on "Efficient Clustering Algorithm" in International Journal of Innovative Research in Computer and Communication Engineering, impact factor of 6.577.
- **Dr. Manjeet Kaur Arora** published a research paper entitled "Effect of environmental factors on charcoal rot of Sorghum bicolor caused by *Macrophomina phaseolina* (Tassi) Goid," in Life Science International Research Journal, Aug. 2016, Volume 3, issue 2(2016).



Eye Check-Up Camp



Botanical Excursion



Retd. Professors: Botany Department



Visit to Sirpur Pond



Zoology Museum Visit



Farewell of Dr. S. Potdar

Departmental Activities

Department of Computer Science & Information Technology

Faculty members of the department Mr. Sanjay Sharma, Ms. Manisha Shah and Mr. Brajesh Vijaypuriya, were members of the admission and online admission committees. The department arranged an Eye Check-Up Camp on 24 August 2016 for all the students and faculty members organized by Lawrence & Mayo Ophthalmic

Opticians and Contact Lense clinic. The department has organized the farewell party of Dr. Kumud Modi, Dr. P.K. Dubey, and Dr. Saroj Potdar. The students of Computer Science department participated in the debate and folk dance competitions held under the Youth festival 2016-17 organized by DAVV.

Botany Department

The start of academic Session 2016 was full of departmental activities. An activity planner has been made by Head of the department Dr. Jaishree Sikka. The teaching staff encourages and motivates students to take part in various activities. A Botanical Excursion and Educational Tour was arranged on 24/09/2016 for M. Sc. students to Mandu. Dr. S. Ray, Ms. Charulata Shah and Dr. Manjeet Kaur Arora accompanied the students. They visited Ashmdh Fossil park and collected various plant specimens, studying the fossil vegetation found in Dhar Dist. and saw fossils of Angiospermic plants having fossil record of 70 million years. Following

its tradition of honoring retired professors of Botany every year, the department organized a get together on 27/09/16. Around twenty five senior professors gathered in the department. The Ph.D. open viva of Mr. Sohan Singh Chouhan was held in the department on 29/09/16. Dr. Ashok Jain, Prof. and Head of Botany department, Jiwaji University, Gwalior was External examiner for the viva. The title of his thesis is "A study on the ethno veterinary herbal Medicine of western M.P." supervised by Dr. S. Ray. He was invited as a judge for poster competition organized by Biotechnology department of P.M.B. Gujarati Science College, on the topic "Ozone Preservation".

Department of Zoology

Dr. Shobha Chaturvedi contributed member of the induction committee held 27-28/07/2016. The department arranged visit to the Dr. Salim Ali Museum 26/07/16 for IX standard students of RF Higher Secondary School.

On 11/08/16 Dr. G.D. Sharma & Dr. Rajesh Dixit attended a guest Lecture on Recent Technologies in Applied Zoology organized by the Department of Zoology, Govt. Autonomous Holkar Science College, Indore. Ph. D. Viva of Alpana Arya, candidate of Dr. G.D. Sharma on the 12/08/16 at Mata Jijabai Girls' P.G. College, Indore. From 9 to 11 September 2016, Dr. Vibha Dave & Dr. Chetna Savita participated in the national seminar organized by Biotechnology Dept., DAVV, Indore on 'Developing Strategies And Institution for Mahseer Conservation In India'. A one-day excursion to Sirpur Pond was arranged for 17 P.G. students (M.Sc.I & III Sem.) on

20/09/2016 with Dr. G.D. Sharma and Dr. Vibha Dave being the in charge. An excursion to Govt. Kamla Nehru Zoological Park, Indore was conducted on 22/09/16 with Dr. Raksha Modi and Dr. S. Chaturvedi as in charge. Dr. Rajesh Dixit published an article titled 'Sanchit Khadhyano Kepeedak' in 'Krishi Vardaan'. Research Papers:

- I. Muddassar Ahmad Thoker & Dr. G.D. Sharma, International Journal of Innovative Research & Advanced Studies (IJIRAS), ISSN No. : 2394- 4404. Toxicity of Malathion on Some Biochemical Changes on Kidney of Fresh Water Fish Channapunctatus (Bloch)'.
 - II. Sandip Charpata & Dr. G.D. Sharma: International Journal of Innovative Research & Advanced Studies (IJIRAS), ISSN No. : 2394- 4404. 'Experimental Study of Cat Fish Heteropneustes fossilis Liver Protection With Chlorella against Mercuric chloride Induced Histological Changes'.
 - III. Dr. Vibha Dave, Dr. Chetna Savita & Dr. Shobha Chaturvedi, International Journal of Research in Sciences (IJRS).

Department of Physics

Dr. P.K. Dubey and Dr. S. Potdar retired from service after completing tenure of thirty three years in the Physics department. The department collaborated

with Lawrence and Mayo to organise an eye checkup camp at the S.N Bose Laboratory for the staff and students. A Reliance JioSim distribution camp was also arranged by the department.

Department of Electronics and BCA

The department organized a quiz competition for BCA students on 17 Sept. 2016. The students of BCA I and III semesters made a series of presentations for a week from 26 Sept. 2016 to 6 October

2016. Mr. Manish Joshi successfully underwent and completed the first phase of the ANO course from 11 July 2016 to 30 July 2016 at Kamptee, Nagpur for NCC Air Wing as its caretaker officer.



Hindi Divas:
Creative writing competition



Tulsi Plant Distribution



Poster Competition



Expert Lectures Dr. Jyoti Dave
and Dr. A. Sharma



Department of Languages

The department arranged a motivational talk on positivity on 06/08/2016 in the Zoology lab for the students of 1st semester as moral education is the part of syllabus. Dr. Rashmi Sahi, Panel Head, St. Stephens International Preparatory School, Hong Kong and Visiting Faculty, HKU Space, was the speaker. The department organised an essay writing competition on the topic 'Ek Swantant rataSainani Ki Gaurav Gatha' on 8 August 2016. Dr. Jyoti Singh was the activity in charge. The department organised the Young India Challenge quiz in collaboration with Career Launcher, Indore on 29/08/2016 in which about 125 students participated. Yuva Bharat exam was conducted by Vivekanand Foundation on 31/08/2016. Dr. Deepa Vanjani was the convener while other faculty members gave contribution in conducting the exam. A creative writing competition was organised on 19 September 2016 in the Zoology lab to

celebrate Hindi Divas. (Hindi Pakhwada, 14 to 20 September). Students wrote articles, poems and essays on the topic 'Digital India & Hindi Bhasha'. Heads and faculty members of various departments were present and expressed their views on the topic. Dr. Singh was the convener of the program. Dr. Vanjani was co-convenor of the induction programme 'Aspire' for B.Sc. I semester students. She was invited in Columbia Convent, Indore for conducting a story-telling session for students on 19/07/16. She was also invited as judge in Choithram School, ManikBagh, Indore in the Elocution and Scrap Book events organised on 10/08/2016.

l Conference on 'Lok Sanskriti aur Sahitya' at Ujjain. Her poem in the book 'Simhansta@com' has been published.

Dr Singh presented a paper in the national seminar on 20-21 April 2016 at New GDC, Indore. She attended a one-day workshop on making UGC Project Proposals at Matushri B.Ed. College, Indore on 27/04/2016.

Department of Biotechnology

The quarter saw many academic and educational activities. Ms. Poonam Vijaypuriya and Ms. Kwiti Thakkar were the members of admission committee. As a part of public health and awareness program, on 28 July 2016 (World Hepatitis Day), posters illustrating the history, symptoms & prevention from Hepatitis, were displayed in the college.

The department celebrated International Youth Day on 12 August 2016. Tulsi plants were distributed during the program. Posters made by students and displayed at the venue. Then Principal, Dr. Kumud Modi, appreciated the initiative. Around 60 plants

were distributed on the occasion.

Ms. Poonam Vijaypuriya represented the college as the coach of women's Basketball selection team on 15 September 2016 at St. Paul's Institute of Professional Studies, Indore.

The department organised a poster competition 17 September 2016, International Ozone Preservation Day. The competition was judged by Dr. Sudip Ray (Botany Dept.) and Dr. Rishina Natu (Chemistry Dept.). Results were announced by Principal Prof. R.B. Patel, who also distributed the certificates among the students.

Department of Chemistry

Ph.D. viva-voce of Mr. Rakesh Mishra was held on 11/07/2016 under the supervision of Dr. A. K. Gharia. Under the co-supervision of Dr. Dhananjay Dwivedi, Ms. Parwati More has been awarded degree of M. Phil. Dr. Dhananjay Dwivedi has participated in 15 days National certificate course on HPLC methodology organized by Christian Eminent College, Indore. He also attended a National Seminar on 19th August 2016, organized by Department of Microbiology, Holkar Science College, Indore. On 1st August 2016, the department has displayed posters, entitled "Discovery of 4 new elements" & "Chemistry & medicinal importance of mint, onion, curry leaves, garlic" in the Knowledge Gallery.

Dr. Sourabh Muktibodh, Prof. M.J.B. Gov. Girls P.G. College, delivered a lecture on Group Theory & Spectroscopy on 3rd September 2016. Dr. Ashok Sharma, Prof. School of Chemical Sciences, DAVV, Indore, delivered lecture on IR Spectroscopy on 24th September 2016. On 20th September 2016, a lecture on Nanoporous Materials, Nanocomposites & High temperature superconductivity by Dr. Farid Khan was

scheduled in I.K. College.

On 10/09/2016, Dr. Jyoti Dave (Head, Biochemistry, Cloth Market College) delivered lecture on Smart Diet Smart Life to P.G. & U.G. students. For P.G. students (Chemistry), Poster Competition entitled Basic principle, instrumentation & working trends of any one spectroscopic method was organized on 3rd September 2016. Parents-Teacher meeting was held on 23/09/2016 for P.G. students. P.G. students visited Ayurvedic factory (Amsar Pvt. Ltd. Indore) with Ms. Rashmi Sharma on 27/09/16. September, 2016.

Ph.D. viva-voce of Mr. Rakesh Mishra was held on 11/07/2016 under the supervision of Dr. A. K. Gharia. Under the co-supervision of Dr. Dhananjay Dwivedi, Ms. Parwati More has been awarded degree of M. Phil. Dr. Dwivedi has participated in 15 days National certificate course on HPLC methodology organized by Christian Eminent College, Indore. He also attended a National Seminar on 19th August 2016, organized by Department of Microbiology, Holkar Science College, and Indore.



M.Sc. Induction Program



PG Interdepartmental Poster Competition



Winners of Inter College Quiz Competition

Patron:

Shri Deepak Bhai Soni
[Chairman]

Chief Editor:

Prof. R.B. Patel
[Principal]

Convener:

Dr. Pravin Kekre

Editorial Team:

Prof. Mayur A. Mota
Dr. Deepa Vanjani
Prof. Sanjay Sharma
Prof. Mona Bhatnagar

Department of Microbiology

Dr. N. Phanse convened the induction programme "Aspire" for B.Sc. Semester I students. A peer interaction and enlightenment programme was organised on 23rd August 2016 for B.Sc. Microbiology semester I students in which academic activities were held. Hindi English dictionary was distributed to students. Dr. Kumud Modi, the then Principal & Dr. Nandini Phanse, Head, addressed the students. The programme was coordinated by Ms. Kiran Paliwal & Ms. Smriti Chouhan who guided students of B.Sc. semesters III & V for arranging & conducting the programme. Asim Sarkar, Surbhi Porwal, Aakanksha Soni & Sonali Yadav conducted the session. M.Sc. Induction programme was conducted on 7th September 2016, during which chief guest Mr. Darpan Chopra, QC manager, Sun Pharma, delivered a talk on "Careers in Microbiology". Biochemistry calculations module were distributed to students. Prof. R. B. Patel, Principal & Dr. Phanse addressed the students. M.Sc. final year students enacted a skit on environmental awareness. The programme was coordinated

by Ms. Mahima Golani & Ms. Shivalika Khode who guided students of M.Sc. semester III for arranging & conducting the programme. Bhoomija Ranga, Ayushi Bhardwaj & Shikha Bhondave compered the event.

Under the auspices of PG Academic Development Programme, a poster competition on "Recent trends in Science & Technology", was organised on 28th September 2016. Ms. Kiran Paliwal was the coordinator. Prof. R. B. Patel inaugurated the programme. Dr. GD. Sharma & Dr. Rashmikant Sanghvi were the judges. The winners were as follows:

First Prize: Divya Dubey, Bhavna Gupta, M.Sc. Microbiology, Stem Cell Research

Second Prize: Bhoomija Ranga, Shikha Bhondave, M.Sc. Microbiology, Biofuels

Third Prize: Priyanka Patil Jain, M.Sc. Zoology, Recent advances of science & technology.

On 1st September 2016, the department has displayed posters, entitled "Teixobactin - A new antibiotic", "Facts about tuberculosis", "Antibiotic resistance" & "HPLC" in the Knowledge Gallery.

Student Achievers

1. Krishna Soni and Harshit Sharma, both students of B.Sc. III semester (Computer Science), won the I prize in the Inter-College Quiz competition held at St. Paul Institute of Professional Studies on 26/09/2016.

2. Krishna Soni, B.Sc. III Semester (C.S.) and

Jayendra Sisodiya, B.Sc. I semester (C.S.), won the II prize in the inter-college debate competition organised by Abhyas Mandal at School of Journalism, DAVV on 08/09/2016. The debate topic was Taknikiki Andhadhund Doud Paryavaranke Vinashka Karak he'

Sports

The college Badminton (Men & Women), Chess (M), Table Tennis (M) teams participated in the inter-college sports competitions. Bhavishya Yadav in Chess (M)

and Sonia Goswami in Basketball (W) participated in the selection trials for district and division teams respectively.

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