

Pharm Fanzine

Oct-2012

Department of Pharmaceutics, IT-BHU

Happy



Diwali

Editorial



Publication of Pharmaceutical Society

PHARM-FANZINE

Save, when we have the Chance....

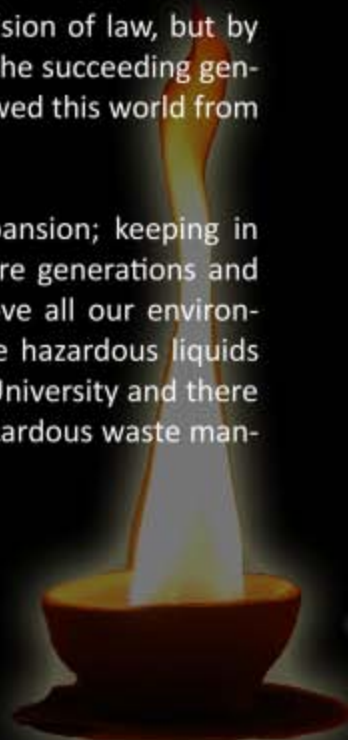
Today with the detrimental condition of the environment, it has become important for us to measure our pollution print. The solid and liquid chemicals of hazardous nature are being used in our university, though it may seem insignificant compared to industrial pollution, also contribute to environmental degradation considering the fragile ecology of India. When speaking of fragile ecology, India's cities are most polluted in the world, seventy percent of the fresh water supplies are polluted to such an extent that its not even fit for bathing and we have the lowest per capita availability of forests in the world which is 0.11 ha as compared to 0.5 in Thailand and 0.8 in China.

There are provisions in the law which helps us to revert this situation. The Article 51A (g) of the Indian Constitution lists one of the fundamental duties as the duty of every citizen of India to protect and improve the natural environment including forests, rivers, lakes and wildlife and to have compassion for the living creatures. The Article 21 of the constitution also gives us the right to live in a good clean environment. And many others which can be referred and used to sustain the environment. Since we have the constitutional backing, why not act upon it?

However, this should not be achieved by the compulsion of law, but by the will of our own conscience to set an example for the succeeding generations. To quote well known words "We have borrowed this world from our children and not inherited from our parents."

Considering the size of the university; the new expansion; keeping in mind the ideas of sustainability, to save for the future generations and the cost of chemicals (HAZARDOUS or not), but above all our environment; we should consider recycling or incinerate the hazardous liquids and solids. There are many such departments in our University and there may also be a possibility of a central recycling and hazardous waste management system.

Editor



Biography

Samuel Finley Breese Morse (April 27, 1791 – April 2, 1872) was an American contributor to the invention of a single-wire telegraph system based on European telegraphs, co-inventor of the Morse code, and an accomplished painter. After attending Phillips Academy in Massachusetts, Samuel Morse went on to Yale College to receive instruction in the subjects of religious philosophy, mathematics and science of horses. While at Yale, he attended lectures on electricity from Benjamin Silliman and Jeremiah Day. He supported himself by only painting. In 1810, he graduated from Yale with Phi Beta Kappa honors.



In 1825, the city of New York commissioned Morse for \$1,000 to paint a portrait of Gilbert du Motier, marquis de Lafayette, in Washington. In the midst of painting, a horse messenger delivered a letter from his father that read one line, "Your dear wife is convalescent". Morse immediately left Washington for his home at New Haven, leaving the portrait of Lafayette unfinished. By the time he arrived she had already been buried. Heartbroken in the knowledge that for days he was unaware of his wife's failing health and her lonely death, he moved on from painting to pursue a means of rapid long distance communication.

On the sea voyage home in 1832, Morse encountered Charles Thomas Jackson of Boston who was well schooled in electromagnetism. Witnessing various experiments with Jackson's electromagnet, Morse developed the concept of a single-wire telegraph, and the painting commission of The Gallery of the Louvre was set aside. The original Morse telegraph, submitted with his patent application, is part of the collections of the National Museum of American History at the Smithsonian Institution. In time the Morse code would become the primary language of telegraphy in the world, and is still the standard for rhythmic transmission of data.

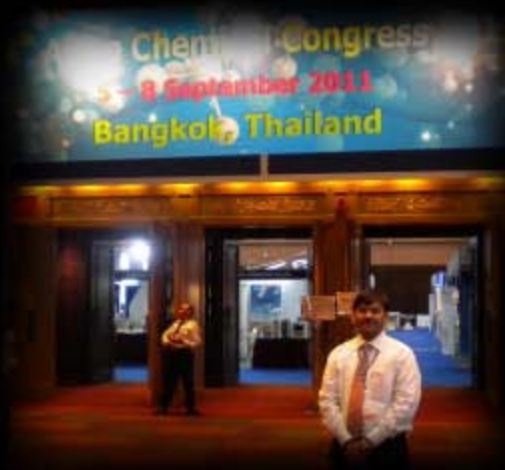
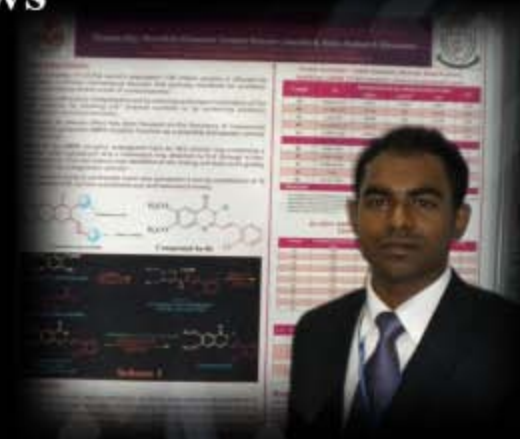
William Cooke and Professor Charles Wheatstone formed a partnership and patented the electrical telegraph in May 1837. In December 1842 Morse went to Washington, D.C., there he strung "wires between two committee rooms in the Capitol, and sent messages back and forth" to demonstrate his telegraph system. Congress appropriated \$30,000 in 1843 for construction of an experimental 38-mile (61 km) telegraph line between Washington, D.C. and Baltimore along the right-of-way of the Baltimore and Ohio Railroad. An impressive demonstration occurred on May 1, 1844, when news of the Whig Party's nomination of Henry Clay for U.S. President was telegraphed from the party's convention in Baltimore to the Capitol Building in Washington. On May 24, 1844, the line was officially opened as Morse sent the famous words "What hath God wrought" from the Supreme Court chamber in the basement of the U.S. Capitol building in Washington, D.C. to the B&O's Mount Clare Station in Baltimore. Annie Ellsworth chose these words from the Bible (Numbers 23:23); her father, U.S. Patent Commissioner Henry Leavitt Ellsworth, had championed Morse's invention and secured early funding for it. His telegraph could transmit thirty characters per minute.

Finally, Samuel Morse received a patent for the telegraph in 1847, at the old Beylerbeyi Palace (the present Beylerbeyi Palace was built in 1861–1865 on the same location) in Istanbul, which was issued by Sultan Abdülmecid who personally tested the new invention.

His perseverance had at last made his dream come true after twenty five years. He died of Pneumonia, twenty five days short of his 81st birthday.

Department News

Nirupam Das (Research Scholar) has attended and presented a poster entitled "*Design, synthesis, pharmacological evaluation of quinazolin-4-ones derivatives as anticonvulsant agents*" at **The 14th Asian Chemical Congress (14ACC)** was held on **5th-8th September, 2011** in **Bangkok, Thailand** under the auspice of the Federation of Asian Chemical Societies (FACS). He is currently pursuing his Ph.D under **Prof. Sushant Kumar Srivastava**.



Mr. Anupam G. Banerjee, PhD research scholar has attended and presented a poster entitled "*Synthesis and anticonvulsant, antidepressant evaluation of some novel substituted pyrazole derivatives*" at **The 14th Asian Chemical Congress (14ACC)** was held on **5th-8th September 2011** in **Bangkok, Thailand** under the auspice of the Federation of Asian Chemical Societies (FACS). He is currently pursuing his Ph.D under **Prof. Sushant Kumar Srivastava**.

Prof. Sanjay Singh presented a poster entitled "*Singh, S., Mishra A. Investigations on the effect of binary lipid matrix on physicochemical properties of praziquantel loaded solid lipid nanoparticles*", in International Conference on Materials for Advanced Technologies, Suntec Singapore, P-113. Here **Prof. Sanjay Singh** is with **Olga Levinson**, General Manager at Ray Techniques Ltd., Israel.



Parameswara Rao Vuddanda, Senior Research Fellow (ICMR) has attended and presented a poster entitled "*Improved entrapment efficiency of hydrophilic drug in poly (ϵ -caprolactone) nanoparticles by nano precipitation technique.*" at **Bayreuth Polymer Symposium (BPS'11)** held on **September 11-13, 2011** in **Bayreuth University, Bayreuth, Germany** under the financial backing of Department of Science and Technology (DST), INDIA. He is currently pursuing his Ph.D under **Prof. Sanjay Singh**.



1st Year Speaks...

Mere pehle din ka experience thoda dar thodi excitement but now I feel better. -BHAWANA KUMARI

As the sun spreads its brightness in the whole world, in the same way this university enlightens the future of students. -NIKITA SHARMA

Great experience regarding batch mates, everyone sub missive and helpful. Everyone is working in path of "unity is strength". -NISHI GUPTA

As a matchstick gives life to candle in the same the teacher over here enrich our knowledge giving a proper platform to our bright future. -NEHA SINGH

One thing attached with my good luck is my friends who are so nice and supportive here.

-MAMTA CHAUDHARY

I come to understand that the choices and commitment I make have a tremendous impact on my college experience. I hope college experience will hold good memories for me. -UJJAWAL BAIRAGI

Peeping outside the window, I found oops..it has been on e month from my favorite place (home) in the hostel and I am enjoying each and every minute of it. -NANCY KAPOOR

I thought of BHU to be a job recruiting place only but here I came to know that it is a stage for overall development and sharing knowledge and culture with friends from different parts of the country.

-YUGANTAR KUMAR

The main thing about this campus is that it is ragging free and everybody is allowed to enjoy his own freedom. -SANTOSH KUMAR

I find it fascinating to be in place which has given the country legendary personalities and this place is really historical, glamorous, religious and impressive. -BHANU PRATAP

I am so attracted to this place and ask god to give me power to maintain its dignity.

-VIBHANSHU UPADHYAY

I think it is a unique place where we are being treated like family members. -ABHISHEK SINGH

I am enjoying a lot in this college and hope to continue this in coming future. -KARTIK BALDEWA

At first there were so many strange faces staring at each other, but now they are my friends. Every day is new day for me and I am exploring it with all I have. -SAGAR KASTURI

Being allotted a small triple seated room it was difficult to manage but it's now getting better.

-HARSHIT GARHIA

One month is not enough to explore the campus and so I have explored only a part of it and lot more I still to be known. -SUPRIYA MANDAL

My hostel friends are so well and I never felt away from home. -DEEP DAS

I thank IT-GYMKHANA for nurturing our talents in various curricular and cultural activities.

-ASHISH TRIPATHI

I am getting the feeling that next four years are going to be the best part of my life and I am loving it.

-DURGESH SINGH

Inauguration The Pharmaceutical Society



B.Pharm & IDD(M.Pharm) Part - 1st *



M.Pharm Part 1st*





Post Bearers of Pharmaceutical Society *



PhD Part Ist *



Dr. Utpal Gupta, Head Pharmacovigilance Operations, Millenium Pharmaceuticals, Cambridge, MA, USA interacted with the students of the department on 29th August, 2011.

* All Photograph with Chairman of Pharmaceutical Society & Head of Department Prof. B. Mishra sir.

Rubik's Cube

The world's top-selling puzzle game - 'The Rubik's Cube' is a 3-D mechanical puzzle invented in 1974 by Hungarian sculptor and professor of architecture Ernő Rubik. In a classic Rubik's Cube, each of the six faces is covered by nine stickers, among six solid colours (traditionally white, red, blue, orange, green, and yellow). A pivot mechanism enables each face to turn independently, thus mixing up the colours. For the puzzle to be solved, each face must be a solid colour.

In the mid-1970s, Ernő Rubik worked at the Department of Interior Design at the Academy of Applied Arts and Crafts in Budapest. Although it is widely reported that the Cube was built as a teaching tool to help his students understand 3D objects, his actual purpose was solving the structural problem of moving the parts independently without the entire mechanism falling apart. He did not realize that he had created a puzzle until the first time he scrambled his new Cube and then tried to restore it.

In Rubik's cubists' parlance, a memorized sequence of moves that has a desired effect on the cube is called an algorithm. Most algorithms are designed to transform only a small part of the cube without scrambling other parts that have already been solved, so that they can be applied repeatedly to different parts of the cube until the whole is solved. Some of the basic cube solving algorithm are Old-Pochmann method, T-Permutation method and M2-R2 method. An advanced method, good finger tricks and a smooth cube help improving speed. Fridrich Method, Petrus Method and Roux Method are the advanced method adopted for speed-cubing.

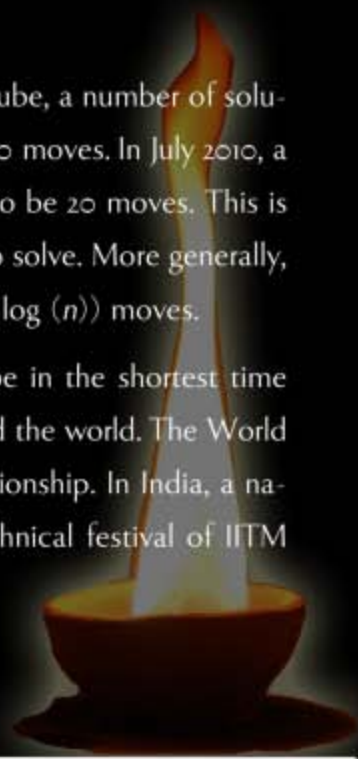
Many 3 3 3 Rubik's Cube enthusiasts use a notation developed by David Singmaster to denote a sequence of moves, referred to as "Singmaster notation". Its relative nature allows algorithms to be written in such a way that they can be applied regardless of which side is designated the top or how the colors are organized on a particular cube.

Although there are a significant number of possible permutations for the Rubik's Cube, a number of solutions have been developed which allow for the cube to be solved in well under 100 moves. In July 2010, a team of researchers, working with Google, proved the so-called "God's number" to be 20 moves. This is optimal, since there exist some starting positions which require at least 20 moves to solve. More generally, it has been shown that an $n \times n \times n$ Rubik's Cube can be solved optimally in $\Theta(n^2 / \log(n))$ moves.

Speed-cubing (or speed-solving) is the practice of trying to solve a Rubik's Cube in the shortest time possible. There are a number of speed-cubing competitions that take place around the world. The World Cube Association is the regulatory body that organizes international world championship. In India, a national level competition Rubik Cube Open is organized in Shastra - annual technical festival of IITM which is affiliated by WCA.

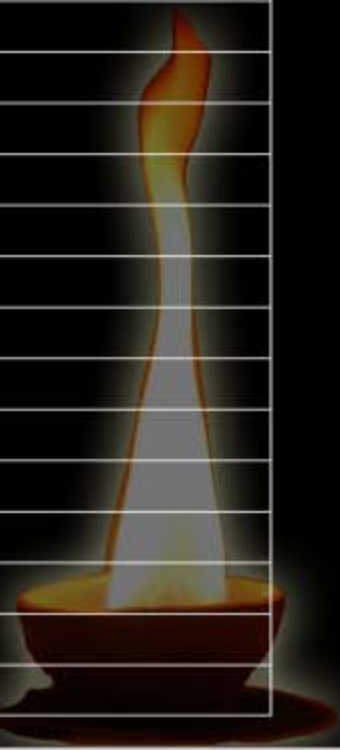
Pranay Pradhan

IDD (M.Pharm) II



Upcoming Birthday's

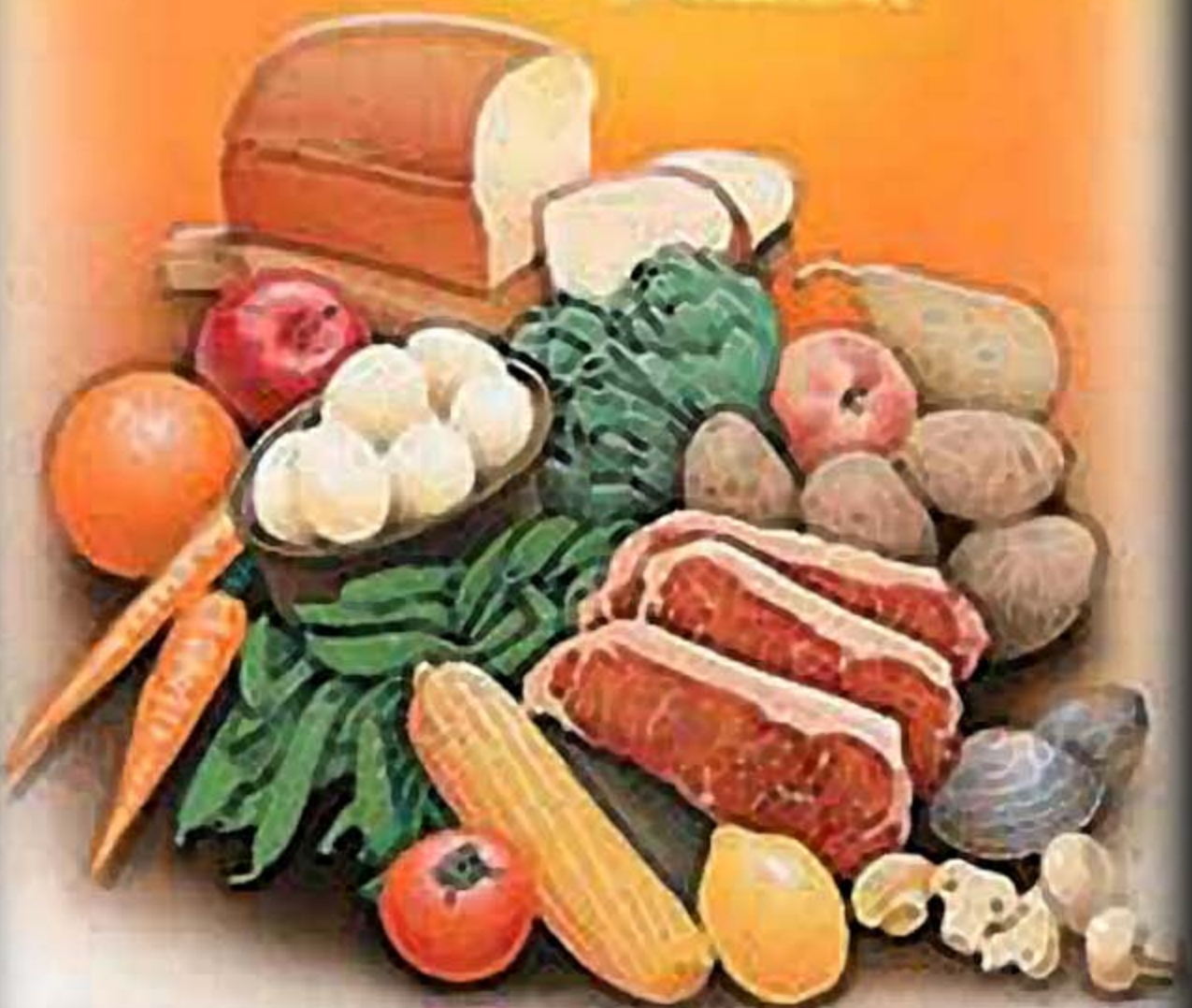
NAME	YEAR	BIRTHDAY
PRAVASH PATEL	B.Pharm II	1-OCT
YUGANTAR KUMAR	B.Pharm I	2-OCT
DURGESH	B.Pharm I	4-OCT
ALOK SHARMA	B.Pharm III	5-OCT
SONAM	M.Pharm I	10-OCT
NANCY KAPOOR	B.Pharm I	11-OCT
DINESH SUPERNANI	M.Pharm (IDD) V	13-OCT
VINOD	M.Pharm II	14-OCT
MOHIT GUPTA	M.Pharm (IDD) III	14-OCT
LOKENDRA BHADARIYA	M.Pharm I	15-OCT
Prof. P.V. SHARMA	PROFESSOR	16-OCT
PREETI AGGARWAL	M.Pharm (IDD) V	24-OCT
SHIKHA SRIVASTAV	B.Pharm III	28-OCT
ASHUTOSH	M.Pharm I	5-NOV
K KESAVAN	Ph.D	6-NOV
G.P. SRAVAN KR. REDDY	B.Pharm II	6-NOV
G M HUSSAIN	Ph.D	8-NOV
VIVEK PRAKASH	B.Pharm III	9-NOV
DK PATEL	Ph.D	11-NOV
PRIYANKA	B.Pharm IV	11-NOV
NEHA SINGH	B.Pharm I	11-NOV
PREETI SINGH	M.Pharm I	13-NOV
KARTHIK BALDEWA	B.Pharm I	14-NOV
Prof. S. K. SRIVASTAV	PROFESSOR	15-NOV
NIVEDITA TIWARI	B.Pharm III	18-NOV
AMITA SIKARWAR	B.Pharm II	20-NOV
C SARAVANAN	Ph.D	23-NOV
PRIYANGI	B.Pharm IV	24-NOV
SAURAV BANSAL	B.Pharm IV	25-NOV
JASMINE	B.Pharm I	25-NOV
ABHASH KR.	B.Pharm IV	26-NOV
ARUNI KUMARI	B.parm III	26-NOV
MUKESH BANSAL	M.Pharm II	27-NOV
VIBHAV KUMAR	B.Pharm III	28-NOV



1. B Mishra, D Panigrahi, M Mishra, D Shukla . "Matrix based extended release tablet of an antihyperlipidemic drug: Design and Development" *Inventi Rapid: NDDS*, 3, 2011 [in press , Accepted].
2. D. K. Patel, R. Kumar, K. Sairam, S. Hemalatha. "Pharmacologically tested aldose reductase inhibitors isolated from plant sources-A concise report" *Chinese Journal of Natural Medicines* 2011 [Accepted].
3. D. K. Patel, R. Kumar, K. Sairam, S. Hemalatha. "Aphrodisiac activity of ethanolic extract of *Pedaliu murex* Linn fruit" *Asian Pacific Journal of Tropical Biomedicine*, 2011. [In press].
4. D. K. Patel, S. K. Prasad, R. Kumar, S. Hemalatha. Cataract: "Cataract- An overview on its pharmacological aspects". *Asian Pacific Journal of Tropical Disease*, 2011. [Accepted].
5. Patel DK, Kumar R, Laloo D, Hemalatha S. "Evaluation of phytochemical and antioxidant activities of the different fractions of *Hybanthus enneaspermus* (Linn.) F. Muell. (Violaceae)." *Asian Pac J Trop Med* 2011; 4: 391-6.
6. Patel DK, Kumar R, Prasad SK, Sairam K, Hemalatha S. "Antidiabetic and in vitro antioxidant potential of *Hybanthus enneaspermus* (Linn) F. Muell in streptozotocin-induced diabetic rats." *Asian Pac J Trop BioMed* 2011; 1: 316-22.
7. Sahu Alakh N, Hemalatha S, Sairam K, Laloo D and Patra A. "Quality Control Studies of *Ochrocarpus longifolius* Flora Buds." *Pharmacognosy Journal*. 2010; 2(6): 118-123.
8. Damiki Laloo and Alakh N Sahu. "Antioxidant activities of three Indian commercially available Nagakesar: An in vivo study." *Journal of Chemical and Pharmaceutical Research*. 2011; 3(1): 277-283.
9. Kumar M, Mandal V, Hemalatha S. "Detection of metformin hydrochloride in a traditionally used indian herbal drug for a tidiabetic: a case report." *International Journal of Pharma and Bio Sciences*. 2011; 2: 307-313.
10. Meenakshi Dhanawat, Nirupam Das, Sushant Kumar Shrivastava. "Design, synthesis, anticonvulsant screening and 5HT1A/2A receptor affinity of N(3) substituted 2,4 imidazolidinediones and oxazolidinediones" *Drug Discovery and Therapeutics*. August, 2011 [In press].
11. Nirupam Das, Biswajit Dash, Meenakshi Dhanawat, Sushant K. Shrivastava. "Design, synthesis, preliminary pharmacological evaluation and docking studies of pyrazoline derivatives." *Chemical Papers*, Sept, 2011 [In Press].
12. Nirupam Das, Meenakshi Dhanawat, Akanksha Kulshrestha and Sushant K. Shrivastava. "Pharmacophoric Modeling a Atom-Based 3D-QSAR of Novel 1-Aryl-3-(1-acylpiperidin-4-yl) Urea as Human Soluble Epoxide Hydrolase Inhibitors (sEHIs)" *Medicinal Chemistry*, August, 2011[In press].
13. Garg A, Singh S. "Enhancement in antifungal activity of eugenol in immunosuppressed rats through lipid nanocarriers." *Colloids and Surfaces B: Biointerfaces*. 87, 280-288. (2011).
14. Zulfequar Ahamad Khan, Rahul Tripathi, Brahmashwar Mishra "Design and evaluation of enteric coated microporous osmotic pump tablet (ECMOPT) of quetiapine fumarate for the treatment of psychosis" *Acta Poloniae Pharmaceutica - Drug Research*, Poland, (Accepted) (IF- 0.47).
15. Zulfequar Ahamad Khan, Rahul Tripathi, Brahmashwar Mishra "Floating elementary osmotic pump tablet (FEOPT) for controlled delivery of Diethylcarbamazine citrate; a water soluble drug" *AAPS PharmSciTech* (Accepted) (IF-1.445).
16. Sanjay Tiwari, Adya P. Chaturvedi, Yamini B. Tripathi, Brahmashwar Mishra. "Macrophage-Specific Targeting of Isoniazid Through Mannosylated Gelatin Microspheres", *AAPS PharmSciTech*, Vol. 12, No. 3, 900-908 (IF-1.445).
17. Singh S., Mishra A. "Investigations on the effect of binary lipid matrix on physicochemical properties of praziquantel loaded solid lipid nanoparticles.", *International Conference on Materials for Advanced Technologies*, Suntec Singapore, P-113 2011.
18. Saxena B, Singh S. "Role of endogenous capsaicin-sensitive sensory nerves, prostaglandins and nitric oxide in repeated cold restraint stress induced gastric adaptation in rats." *Singapore Pharmacy Congress*, Singapore, PK-03, 2011.

World Food Day

16th October



Nivedita Tiwari
B.Pharm III



Quality of the Indian Pharmacy Education and PCI

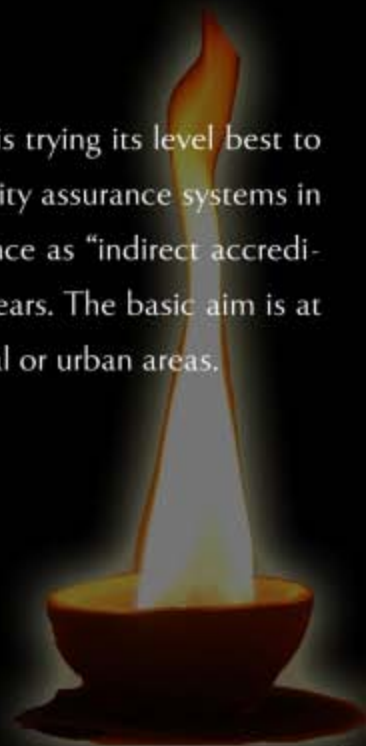
In today's scenario there are not many hands which could take responsibility for the correct allocation of knowledge regarding quality control in pharmacy colleges in India. There are a number of odds against the challenge lying in front of solving this authentic problem. The foremost challenge is the unbalanced growth in the number of pharmacy colleges. The pharmacy council of India has clearly written to the Union health ministry recommending a ban on the opening of colleges for at least five years excluding the states of Jharkhand, West Bengal and The Seven Sisters. One more problem regarding the pharmacy education in country is the regulation by both AICTE (All India Council for Technical Education) and PCI (Pharmacy Council of India). The PCI has urged the government to remove this dual regulation. There is a hope that this issue will be sorted out, once the National Accreditation Regulatory Authority for Higher Education will be established.

Next, the PCI is planning to upgrade the facilities at pharmacy colleges. Health standard of a society is directly proportional the quality of the food products existing in the market. Quality control has been a major aspect of the health managers in the recent times. So the PCI sought establishing a modern and need oriented integral health education and research system that complies best with the introduction of quality control education in the colleges. The PCI has made it clear to the colleges to match themselves with the standards and get approvals.

The government needs to upgrade the facilities at pharmacy colleges. The PCI is trying its level best to enhance the knowledge of the pharmacy students. It is planning to introduce quality assurance systems in every pharmacy college by the next academic year. It discerns the quality assurance as "indirect accreditation" and thus made it recommendatory in beginning but obligatory after five years. The basic aim is at ensuring uniform standards, irrespective of whether the colleges are located in rural or urban areas.

- Abhishek Pandey

B.Pharm II



What we have done and have not done: The Paradoxes of Modern Life

1. Added years to life, not life to years.
2. Been to the moon and back, but have trouble meeting a neighbour.
3. Begun cleaning up the air, but continue to pollute the soul.
4. Build bigger houses for smaller families;
5. Fancier houses, but more broken homes.
6. Buy more, but have less in our homes.
7. Compete more, co-operate less;
8. Conquered outer space, but not inner space.
9. Done larger things, but not necessarily better things.
10. Fast foods and slow digestion;
11. Hate too much, love too little
12. Higher incomes, but lower morals;
13. Learned how to make a living, but not a life.
14. Learned to rush, but not to wait.
15. More computers to hold more information to produce more copies than ever, but less communication.
16. More conveniences, but less time;
17. More experts in more fields, but it seems we have more problems;
18. More food, but less satisfaction;
19. More kinds of food, but less nutrition.
20. More knowledge, but it often appears less judgement;
21. More leisure, but less fun;
22. More medicine, but less wellness.
23. More quantity, less quality;
24. Write more, but seem to learn less.
25. Much in the show window but little in the stockroom;
26. Multiplied our possessions, but reduced our values.
27. Pills that do everything from cheer, to quiet, and even kill and fill;
28. Plan more, but accomplish less.
29. Prettier food, less taste;
30. Quick trips, disposable nappies, throw away morality, one-night stands, overweight bodies;
31. Spend more, but feel we have less;
32. Split the atom, but not congealed our prejudices.
33. Steep profits and shallow relationships.
34. Too much drinking, smoking spending, speeding, anger, staying up late, getting too tired, TV watching but too little laughing, or thinking or pondering.
35. Two incomes, but more divorce;
36. We have taller buildings, but shorter tempers;
37. Wider freeways, but narrower viewpoints;

This collection has been going the rounds. There are more.

This Diwali Lets cast light in our inner space



Reviewer : Sarvesh Khosla (9935104842)
Editor : : Parth Dadhania (9559369581))
Co-editor : Deepika Dubey
Prakhar Sahay
email id : pharmafanzine.phe@itbhu.ac.in

Illustrator : Pranay Pradhan
Correspondents : A. Shri Ram Vikas
Abhishek Pandey
Himanshu Jauniwal

Despite our best efforts some mistakes have crept in,
Please forgive & bring to our attention the same.

