



GURUNANK COLLEGE OF PHARMACY
NAGPUR

INDOCTRINATE



NEWSLETTER

Volume: 6

15 Dec 2012

➤ Technical Article.....	2
➤ Guest Lecture.....	4
➤ Placements.....	4
➤ Events organized	5
➤ Workshop on Approaches to research: experimental design and interpretation.	
➤ Workshop on Professional Communications-Attitudes and Overview of ICH.	
➤ Program on Adolescent Education.	
➤ Jigyasa-2012	
➤ Research and Development Activities.....	6

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SOME EXCITING CAREERS OPTIONS FOR PHARMACISTS

Mr. Amar H. Deshpande

This article should serve as a very brief introduction to various career options pharmacists have already exercised, and thus it would inspire many others to explore their talents and likings in various fields (Any details of this information can be gathered from the internet using appropriate key words). It should always be kept in mind that graduation with course in pharmaceutical sciences could be used as a launch-pad for a great career in the field of your liking, same as engineers do for to get the jobs of software industry. All that we have to do is to groom ourselves accordingly while we complete stipulated course so that we remain in pace and then just one or the other top-up course (which is offered by various private educational institutes) that makes you fit to get an opportunity in is what is required!

Apart from the well known basic job opportunity in sales and production, these following options deserve a serious thought:

Medical Writing: Medical writing involves preparing documentation of professional activities for who is not the researcher or a scientist or a doctor. The medical writing requires knowledge of the medical science subjects viz. pharmacology, microbiology, anatomy, physiology etc. Medical writing in pharmaceutical field is important as the information provided should be accurate and without any ambiguities. For example, if a pharmaceutical company wants to prepare a literature highlighting the benefits of a drug over competitors, a medical writer would be in a position to draft it properly and in a language which is understood by the receiver. Medical writing can be for documents that are required for submission to regulatory agencies or preparing material for Continuing Medical Education or other educating aids. Pharmaceutical companies as such do not hire

medical writers, as this is one of the outsourced functions of the industry. There are many firms that specialize in providing services related to medical writing and provide customized services.

Knowledge Process Outsourcing (KPO): Simple word to describe this field is "Consultancy". Many big pharmaceutical companies rather than spending lot of money to address specific problem at hand through in house staff, ask consultants to carry out study and suggest alternatives. This could be related to product development, mapping competitors, problems related to marketing including promotion, restructuring or reviving a particular brand, understand market potential for certain category of products. This field is quite upbeat and fast growing.

Clinical Trials: Role of pharmacist in clinical trial management is increasing. With lot of Clinical Research Organizations that carry out clinical trials for many Indian and multinational pharmaceutical companies, pharmacy graduates are recruited by this company. For this job what is required is sound knowledge in pharmacology, pharmacokinetics and knowledge of allied fields. With more and more clinical trials outsourced to India, this field has bright future for pharmacy graduates in terms of career opportunities.

Advertising: This one would be surprising. What a pharmacy graduate would do in the field of advertising? Medicines are not advertised through mass media. But that doesn't mean it is not advertised! A pharmacy graduate with zeal to provide creative input can work in advertising agency. Many advertising agencies are now having specialized division that caters to healthcare. The literature used by companies for promoting their product in various events such as CME, Symposia is prepared mostly by these advertising agencies.

You may say it is not easy to get into this field but it is not impossible either. Whatever you do you have to prove yourself and if you are creative enough sky is the limit for you.

Intellectual Property Management (IPM): It is a misconception that IPM is only Lawyer's prerogative. Many pharmaceutical companies have established IPM as a separate division where scientists, including pharmaceutical scientists, play a crucial role. The role of a pharmacy graduate in IPM is related to identifying what are the patents available for a particular process or product, what patents have been applied for, where these patents are applied, how a non infringing process be made and providing this crucial information to R&D team. It is also important for people in IPM to help scientists and lawyers draft a well structured patent application as claims are the most important aspect that defines the scope of your patent. Only claims govern the boundaries of your patent application and therefore it is important to identify that the claims that are drafted does not infringe existing patents. Essentially, role of a pharmacy graduate is liaison with R&D personnel and help company design a proper patent portfolio for the company.

Regulatory Affairs: This is an interesting area which deals with preparing documents for a company's product meeting requirements of regulations of countries in which product is intended for sale. The prospects in this field are quite bright as a graduate get exposure of regulations of different countries. Companies divide functions under this field as division dealing with applications for the US market, the US market, Semi-regulated markets, non regulated markets, BRIC (Brazil, Russia, India and China) and domestic markets. The role of a pharmacy graduate is to coordinate with all other departments like, formulation and development, chemistry,

manufacturing, quality assurance, packaging, and compile data for all these departments so that a dossier for a product is prepared that is submitted to regulatory agencies for review. Further, it also requires one to be updated with the latest amendments with respect to dossier filing as regulations keep changing with time. Many educational institutes provide part time and correspondence courses for undergraduates and post graduates in pharmacy.

Product Management: This is particularly useful to those pharmacists that have MBA as an additional degree. That does not mean other pharmacists cannot enter this field. Pharmacy graduates after B. Pharm or even after M. Pharm can opt this as career option. This field is related with the gamut of identifying the opportunities for promoting a company's product (medicines in this case), designing strategies for promoting these products that includes how to distribute them what channels to use and what points to highlight while promoting the products to doctors (as doctors are customers for pharmaceutical companies). It also includes working with medical representatives and assisting them in implementing the strategies that are designed more effectively. Pharmacists with flair for travelling and those who are good at designing strategies can opt for this field. To get into this field, one should (or I shall say must) have knowledge of working in the field as medical representatives. Knowledge of working as medical representative is that you know the market characteristics very closely and keenly.

Only few career options related to pharmaceutical industry are highlighted here, it's your keen interest and zeal that will lead you to many more potentially successful opportunities in future. Wishing this to every reader, I take your leave.

GUEST LECTURES



1. Dr. S. K. Jain, Professor, Sinhgad College of Pharmacy, Pune, delivered lecture on "Green Chemistry" on 20/07/2012.
2. Vrushali Kolarkar (Joshi) Director, Global Product Life Cycle Management Mylan, Inc (Pittsburgh, PA, USA) delivered lecture on "Pharmaceutical industry scenario: Generic Biosimilars and other new trends" on 30/07/2012.
3. Mr. Deepak Dhote, Plant Manager, BlueCross Ltd, Nashik delivered Lecture on Troubleshooting during formulation on Sep 2012.
4. Mr. Harish Ramlakhiyani, Area Sales Manager, MORPA Ltd. Delivered lecture on "Marketing Skills" on 25/09/12.
5. Mr. Jagjit Singh Pansera delivered lecture on "How to prepare power point presentation and public speaking" on 01/09/2012.



PLACEMENT

GNCP students placed in various sector of Pharma industry every year, this year also campus interview was arranged for M. Pharm and B. Pharm students and 19 students were placed in Glenmark Pvt. Ltd., Goa.

Indian Pharmaceutical Congress, Chennai



Students of PG department of Quality Assurance participated in Indian Pharmaceutical Congress (64th IPC), held at Chennai, from 08-10 Dec 2012. 08 students presented paper in the scientific session and 15 participated in the said conference.

SPORT

Cricket: Won 2nd prize in **KRIDAMANIA**, Inter-collegiate cricket competition at held at S.B. Jain Institute of Technology Research and Management Nagpur.

Badminton: Jaipal Upadhyay, Pradip Dugane, Roshan Tawale, Saurabh Jaiswal and Akshay Zha participated in tournament organized by RTM Nagpur University Nagpur.

Training Programme

05 Students of M. Pharm Pharmaceutics (II year) and 02 Faculty members successfully completed two days Training, hands on Machine Operation and Installation of Fluidized Bed Coater (FBC) and Extruder- Spheronizer, held at M/s Ankit Machines Pvt Ltd, Nashik, on 07-08- Oct 2012.

Dr. Vinita Kale and Mr. Govind Lohiya completed the training along with students Mr. Ashutosh Singh, Mr. Chetan Tapare, Mr. Amit Khandagade, Mr. Hemant Bhajipale and Ms. Shikha Barve.

EVENTS



One day workshop on “Approaches to research: experimental design and interpretation”

One day workshop on “Approaches to research: experimental design and interpretation” was organized by Gurunanak College of Pharmacy, Nagpur on 5th Oct 2012. It was designed for all scientists and technical professionals involved in research activities at postgraduate and doctoral level. Variety of lectures were delivered by renowned speakers from this area guiding with regard to designing the experiments and their interpretation explaining research strategies for an efficient and successful outcome.

Eminent speakers for the workshop were Dr. P. Bhaskar Principal, KITS, Ramtek, Dr. Preety Gupta Assistant Manager, Dr. Reddy's Laboratory, Hyderabad, Mr. Prashant Joshi, Mindbloom Technologies and Prof. Raja Akash.

Workshop was attended by faculty and M.Pharm students from various pharmacy colleges in and around Nagpur and also by people from pharmaceutical industry.



Independence Day: College celebrated 66th Independence Day with zeal and zest. The flag hoisting was carried out by Sardar Parshan Singhji Kalsi, Ex MLC and General Secretary of the Sikh Education Society.

Teacher's Day: The teacher's day celebration was organized on 5 Sept. 2012 by B. Pharm. Students.



Fresher's Day: To the new entrants of GNCP, Fresher's day party was given by seniors of B. Pharm. and M. Pharm on 17 Sept. 2012.

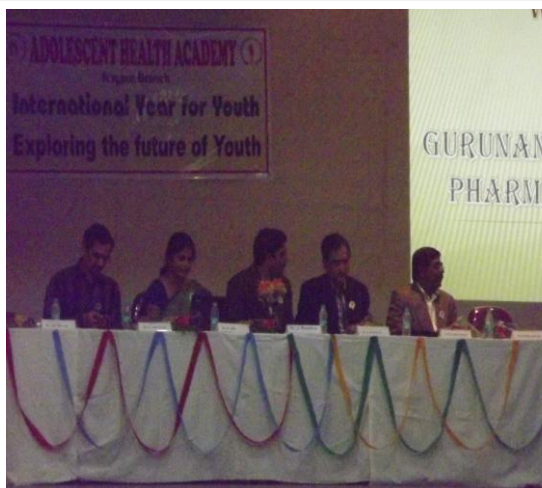


One day workshop on “Professional Communications- Attitudes and Overview of ICH”

One day workshop on “Professional Communications- Attitudes and Overview of ICH” was organized by Gurunanak College of Pharmacy, Nagpur on 09 November, 2012. This program was conducted to offer the students with an understanding on several ways of communication and attitudes taking place in the Industry. Additionally, it helped to ensure systematic ways to communicate during interviews, at work and to answer the most frequently asked questions with best possible answers. There were some interactive exercise's to understand the psychological states of mind & ways to improve them. The training program was concluded with session on most critical ICH guidelines.

Eminent speaker for the workshop was **Mr. Amit Kumar Oza** working in Regulatory Affairs Novartis Vaccines Siena, Italy.

Workshop was attended by faculty and M. Pharm students from various pharmacy colleges in and around Nagpur and also by personnel's from pharmaceutical industry.



Program on Adolescent Education

Adolescent Health Academy, Nagpur Branch, a sub-specialty branch of IAP conducted awareness program on Adolescence, health and hygiene under the banner of **Exploring the Future of Youth** at the Auditorium of Gurunanak College of Pharmacy, Nagpur on **04 Dec. 2012**. The program was conducted by renowned Paediatricians of Nagpur namely Dr. K. W. Deoghare, Dr. Manjusha Giri, Dr. Linesh Yawalkar, Dr. Nishikant Kotwal, Dr. Abhijit Bhardwaj. Dr. S. R. Walde was the coordinator of the program. All the students of B. Pharm, M. Pharm and D. Pharm participated in this program.

Jignyasa-2012

Jignyasa 2012, a technical paper presentation competition was conducted on 01/10/2012 for B. Pharm and M. Pharm students. The competition aimed for developing demonstration skills in power point presentation. The students from colleges of Vidarbha region were participated and winners were awarded winner up, runner up and consolation prize.

The competition was evaluated by Dr. A. J. Asnani, JLCCP, Nagpur, Mrs. S. Bakhle, JLCCP, Nagpur, Mrs M. K. Bhurchandi and Mr. Vaibhav Dixit of Gurunanak College of Pharmacy.

RESEARCH & DEVELOPMENT ACTIVITIES

Students

- Following M. Pharm (Q.A.) students presented research project in 64th Indian Pharmaceutical Congress, held at Chennai, on 08-10 Dec 2012.

Name	Project Title
Sonali N. Deshbhratar	Phytochemical Evaluation and Pharmacological Investigation and Formulation of Fruit Extract of <i>Lagenaria Siceraria</i> for Antihyperlipidemic and Antiatherosclerotic Activity.
Rajshri S. Tade	Estimation of Total Flavonoids in Some Marketed Preparations of Turmeric.
Neha A. Latad	Antioxidant Potential Of Cow urine and its Fractions: A Comparative Study.
Minal Neel	Pharmacovigilance: An important tool for reducing adverse drug reaction.
Sweetey Bankar	Formulation Development And Evaluation of Sustained Release Matrix Tablet by Lquisolid Technique.
Suchita Navghare	A Validate High Performance Thin Layer Chromatography Method for Estimation of Pirfenidine In Tablet Formulation.
Nitin M. Sakharkar	Adsorption Capacities of activated carbons prepared from coconut husk and jowar cobs.
Nishant Jain	A validated RP-HPLC method for simultaneous estimation of Paracetamol & Naproxen in Tablet formulation.

- Akshay Zha, Sanket Bhagwat, Roshan Tawale, Vivek Naik, Himanshu Purohit, Parikshit Tiwari, Radhika Ratti, Ritu Devangan, Snehal Itankar, Ankita Malwar, Monika Khubnani and Tanvi Manwatkar presented poster in National conference on Women Entrepreneurship through Science and Technology organized by Pratibha Shakti, at Nagpur on 31/08/2012-02/09/2012.
- Parikshit Tiwari, Rahul Pande and Roshan Tawale presented poster in SHODH, organized by Biochemical Society of Hislop College, Nagpur on 04/10/2012.

Faculty

Publication

- Ashwaghosh Adhale, **Subhash Yende**, A. M. Itadwar and Vinod Gambhir. Pharmacological Screening of *Mimosa pudica* for its alleged Sedative Hypnotic activity. International Journal of Pharmacy & Technology, 4 (2), July-2012, 4451-4458.
- Anwar Daud, Minal Bonde, **Nidhi Sapkal**, Naresh Gaikwad. To study the effect of solvent, viscosity, and temperature on the mouth-dissolving film of *Withania somnifera* Linn. Asian Journal of Pharmaceutics. 2012; 6(3): 212-217.
- Vikas S. Mugale, **Nidhi P. Sapkal**. Profiling and quantification of impurities in hesperidin by using HPLC-PDA and LCMS techniques. International Journal of Pharmacy & Technology. 2012; 4(2): 4514-4517.
- Shailendra S Gurav, Nilambari S. Deshkar, **Shrikant K. Tiloo**, Nandkishor J. Durugkar and Kishor Burade. Antimicrobial and antioxidant evaluation of *Flacourtia ramontchi* L.Herit. Journal of Herbs, Spices and Medicinal Plants, 2013;19;76-95.
- Saurabh Saley, **Shrikant Tiloo**. Synthesis of some new Azo compounds and their antimicrobial screening. International Journal of Pharmacy & Technology, 4 (3), Oct-2012, 4600-4606.
- **S. B. Waikar**. Development and evaluation of floating tablet of salbutamol sulphate and theophylline. American Journal of Pharma-tech Research 2(4), 2012.
- **S. B. Waikar, G.A. Gurunani**. Synthesis of some novel 1,3,4-Thiadiazole carrying benzimidazole moiety and their antimicrobial evaluation. International journal of pharmacy and technology, Vol. 4, Issue. 2, 2012, 4506-4513.
- **M. M. Bodhankar**. Optimization of diclofenac sodium gel by using calendula oil as sorption promoter. American Journal of Pharm-tech Research 2(4), 2012.

Guest Lecture delivered

- **Dr. N. P. Sapkal** delivered lecture in Staff development program at Sharad Pawar College of Pharmacy during 19/11/2012 to 30/11/12.

Seminar/Conference/Workshop/ attended

- Dr. N. P. Sapkal attended 100th conference of Indian Science Congress-2013, at Kolkata as exhibitor of DSIR, Govt. of India.
- Mrs. Archana N. Mungale attended symposium in Advancing Chemical Sciences organized by Royal Society of Chemistry, West India Section on 31st August-1st September 2012 at Nagpur.
- V. V. Kale, S. R. Walde, M. K. Bhurchandi, B. A. Jacob, P. G. Gondane, S. S. Yadav attended National conference on Women Entrepreneurship through Science and Technology organized by Pratibha Shakti, on 31/08/2012-02/09/2012 at Nagpur.

We can't get ahead when trying to get even

OBSTACLES are merely a call to strengthen, not quit. We cannot bring about change without confrontation. The truth is that if we like things easy; we will face difficulties. If we like problems, we will succeed. The biggest successes are the ones who solve the biggest problems. As the sailor said: "I am not afraid of storms for I am learning how to steer my ship." Circumstances are the rulers of the weak; but they are the instruments of the wise. Any problems we face is simply an opportunity for us to do our best.

A Chinese proverb says: "the gem gets polished only due to friction. A Human being gets polished when he or she faces adversities, setbacks and failures. We have many reasons for failures but not a real excuse. In everything we do, we should stay away from complaining and arguing, so that no one can utter a word of blame against us. Excuses and abilities should be cremated, not embalmed. The person who excuses himself always accused himself."

The best years of our lives are the ones in which we decide our problems on our own. We don't blame the mother, the ecology or the govt. We realise that we create and control our destiny. Florence Nightingale said: "I attribute my success because I never gave or made an excuse" Honesty is the first chapter in the book of wisdom. Never fabricate one; if you do that, it will perish or run itself to death. It is discouraging to think, how people are more shocked by honesty than by deceit. There was an honest man also wanted to clear the debt of his father. He worked hard, educated his son, sent him to the Gulf to earn money but the son died prematurely. He did not give up. He continued working hard himself and cleared the debt after 25 years.

The man from whom the money was borrowed had died; his descendents did not have a record to know about it. When this man went with the money after 25 years, they said that they have no record and can't accept it. The man cried and said: "My father's soul will rest in peace only if you accept it. If you don't I will immolate myself before your house." In sheer exasperation, they accepted the money and later gave it to charity in the name of the borrower. Those who think that it is permissible to

tell lies soon grow colourblind. We punish ourselves with every lie and we reward ourselves with every right action. A lie will add to our troubles, subtract from our energy, multiply our difficulties and divide our effectiveness. Truth is always strong, no matter how weak it looks and falsehood is always weak, no matter how strong it looks. Never view anything positively that makes us break our word. Make the word our bond and strong point in our character.

In the war between falsehood and truth, falsehood wins the first round but truth wins ultimately. If we live truly, we shall truly live. Liars are always in shackles, live with a guilty conscience. Other people may be smarter, better educated or more experienced but no single person has an exclusive possession of dreams or desire. A thousand trees of opportunity

spring from a tiny acorn. It is possible to give away and become richer. It is also possible to hold on rightly and lose everything. The old epitaph says: "What I gave, I have; what I spent I had; what I kept I lost." All of us are created to help others and live with others happily forever. We all grow to the extent we give, till it hurts and then the success journey starts.

My boss used to say: "If you want others to improve, let them hear about things you say about them. People will, treat us the way we view them. Find the good in everyone and try to draw out their talents and abilities. To lead people, let them know that we are behind them. What means most in life is what you have done for others. Those who bring sunshine to the lives of others cannot keep it from themselves!" Many people deny themselves fulfilment of their capacities and the satisfaction that comes out of it. Without purpose their lives ultimately wander into the morass of dissatisfaction. As we harness our abilities to a steady purpose and undertake the long pull towards its accomplishment, a sense of purpose simplifies life. It concentrates our abilities and consolidates in power.

In putting our talents to work, imagination adds amazing dimensions to our capacities. It opens doors of achievement which we never anticipated. Power of imagination is one of man's greatest assets. From one step to another, imagination has led mankind to the heights of achievement.

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