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INSIDE THIS ISSUE

Institutional News	-	2 - 26
Ph.D Awardees	-	26 - 27
Kudos	-	28 - 31
Achievements	-	31 - 32

INSERTIONS

- Collectors Album
- Continuing Education

APTI Celebrates Golden Jubilee Year

Golden years of Excellence
1966 - 2016

OFFICIAL DESK

All dear APTI members!

The beginning of 2017 has made APTI proud and delighted as Prof Harkishan Singh, one of its life members have been honored with the prestigious Padma Shri award by Government of India. Prof. Harkishan Singh is real gem of pharmacy profession with incomparable accomplishments, including the discovery of a clinically useful drug, Chandonium Iodide (named after Chandigarh) at Punjab University, which was later named by the WHO as Candocuronium Iodide. It is important to point out that Candocuronium is the only drug discovered by any Indian University till date. We congratulate Dr. Singh for upraising the stature of our profession and also express our deep gratitude for his guidance and support for strengthening of APTI at National level and beyond.

Second most important event that has polarized the attention of pharmacy professional towards is newly introduced syllabus for B. Pharm and M. Pharm courses by Pharmacy Council of India (PCI). The council has instructed the institutes and universities to strictly follow the statutory provisions contained in the rules for B. Pharm and M. Pharm courses for approval under section 12(1) and 12(2) of the Pharmacy Act, 1948. Wherein the B. Pharm and M. Pharm course has been divided into the semester and assessment will be done through credit based system. The new syllabus is objectified to consolidate bridge between academic learning and industrial practice. Importantly it included training for rapid to translation of research upgradation to institutional laboratories. It is expected that there will be uniform syllabus in the country for pharmacy profession. Incorporation of Communication skills, Pharmaceutical Marketing, Pharmaceutical Regulatory Science, Social and preventive Pharmacy, Computer aided Drug Design, Pharmacovigilance and compulsory project work at degree level is promising to generate globally competent professional. I highly applaud this initiative of PCI and sure that it will embark on periodic up-gradation of syllabus. Iexpect that all Universities and Pharmacy Institutes shall be in agreement to have uniformity in the teaching and learning process, examination pattern and evaluation standards across the country. It will help student migration across the country and also enable potential employers to evaluate the performance of students without any prejudice.

In conclusion, I have some great news to share. According to sources of Ministry of Commerce and Industry, despite all the obstacles the Indian Pharma exports in the current financial year may see a near double-digit growth and will be far better than any other sector. Indian Pharma exports stood at $16.9 billion in the last financial year, growing at 9.44 per cent with $5.7 billion to USA and $3.3 billion to Africa. The Indian government has taken many Initiatives to reduce costs and bring down healthcare expenses. Rapid introduction of generic drugs into the market has remained in focus and is expected to benefit the Indian pharmaceutical companies. In addition, the thrust on rural health programmes, lifesaving drugs and preventive vaccines also envisage better picture for the pharmaceutical companies. Thus, it will need a large pool of scientists and pharmacy professional that have the potential to steer the industry ahead to an even higher level. Hence it is our moral and social responsibility to create adroit professionals, able to pace with the rapidly advancing pharmaceutical industry.

With warm regards

Dr. Milind J Umekar

Vice-President – APTI

INSTITUTIONAL NEWS

The workshop was organised by **Institute of Pharmaceutical Research, GLA University**, Mathura. This workshop aimed to encompass a general overview as well as an in depth insight into the CPCSEA (Committee for the Purpose of Control and Supervision of Experiments on Animals) guidelines and their implementation in pharmacy institutions all over India. The workshop was inaugurated by our chief guest Dr. P.C. Dandiya, Prof. Emeritus, SMS Medical College, Jaipur and by Prof. A.M. Agrawal, Pro Vice Chancellor, GLA University, Mathura. The total number of participants in the workshop was fifty one. The seminar had six technical sessions. The key speakers were Prof. B.P. Srinivasan, Ex- Director,Delhi Institute of Pharmaceutical Science and Research, Delhi, talked on topic Animal Experiments a Journey from Lab to Computer. Prof. A.C. Rana, Director, Institute of Pharmaceutical Sciences, Kurukshetra University, talked on topic Role of CPCSEA in animal Experimentations. Prof. Monika Sachdeva, Professor, Pharmacology, Raj Kumar Goal Institute of Technology, Ghaziabad, UP. talked on topic Recent Trends And Measures In Animal Experimentation. Dr. Debapriya Garabadu, Department of Pharmacology, Institute of Pharmaceutical Research, GLA University, Mathura. Taked on topic Prevention Of Cruelty To Animals Act-1960. During the workshop Prof. Pradeep Mishra,Prof. Meenakshi Bajpai, Dr. Kamal Shah, Dr. Jitendra Gupta, Mr. Prabhat Kumar, Mrs Sonia Sharma, Mr. J K Gupta, Mr. Bhupesh Chandra Semwal, Mr. Gopal Agrawal, Mr. Yogesh Kumar,Dr. Reena Gupta, Dr. Kuldeep, Mrs Neetu Agrawal, Mrs Vaishali Agrawal, Mrs Pooja Patni, Mrs Mitali, Mr. Niraj, Mr. Ahsas, Mrs Shilpi, Mr. Keshav and Mr. Yati were present.

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Internal Quality Assurance cell (IQAC) of Channabasweshwar Pharmacy College, in association with **Indian Pharmaceutical Association,(IPA-MSB)** Education Division, Maharashtra State organized **One day workshop on "Application & Impact of Biostatistics in Pharma Research"** at Channabasweshwar Auditorium hall.

The workshop was inaugurated by auspicious hands of Dr. A.V. Mane, I/C Director, School of Management, Swami Ramanand Teerth Marathwada University, Nanded Sub Centre, Latur. Dr. Sanjay S. Thonte Principal, Channabasweshwar Pharmacy College, IQAC coordinator Prof. Dr. O.G. Bhusnure and Dr. V. M. Thakare were present on this occasion.

Dr. Sanjay Thonte Principal, Channabasweshwar Pharmacy College in his well-come speech elaborated what is research and it's need also focused on role of bio-statistics in Pharma-research.

Dr. S. V. Mane in his inaugural speech focused on Importance of Biostatics in Pharma Industry and shared information on Tools & techniques used while conducting Research. He also expressed that

research is not a just happening but it is only due to continuous effectors taken by researcher and highlighted the quality of the research work. During his speech he revised the Concept of vision- 2020 of Dr. A.P. Abdul Kalam and efforts taken by him.

In first plenary session Prof. Dr. Ajay D. Kshirsagar delivered lecture on 'Basic Laboratory Animals Handling Techniques". He explained how to handle the various laboratory animals during research. He introduced various animals with their details information about life cycle as well as habitat along with how to interpret the data obtained from animal study.

In the afternoon session Dr. V. M. Thakare from Channabaswershwar Pharmacy College, Latur delivered lecture on "Methodology's used in Research". In his delivery he had taken review on various techniques used in Research & method selection criteria in research. Also explain how to interpret the data via a variety of statistical methods. Prof. Dr. R.V. Kshirsagar during last plenary session delivered lecture on "Application of Regression and correlation in Pharmacy with proper data interpretation techniques". He expressed how to solve the problems come across in the research Mr. R.S. Pentewar of Channabaswershwar Pharmacy college, Latur delivered lecture on "Research Process". In his delivery he shared information on what is research, how to select the problem and how to solve the problem also he cover the need of research process.

About 86 delegates from academia, researcher, Ph.D. Scholars, PG Students were participated in the workshop. During One Day workshop combination of presentations and activity-based learning sessions organized in order to help the participants to improve their scientific data presentation and interpretation skills.

IQAC coordinator Prof. Dr. Omprakash Bhusnure, Prof. Ram Pentewar, Dr. Vinod M.Thakare , faculties, administrative & support staff were taken efforts to make the workshop a grand success.

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Sinhgad Technical Education Society's Sinhgad College of Pharmacy (SCOP), Vadgaon, Pune organised Savitribai Phule Pune University (SPPU) sponsored **one day state level seminar** on **"Recent advances in Research, Development and Testing of anti cancer agents"**. The seminar was aimed to apprise different aspects of research and development in the area of novel anti-cancer agents. Faculty members from all over Maharashtra and PG students interacted with renowed resource persons. Chief guest Dr. Subhash Padhye, Director ISTRA, SPPU & visiting professor, Kansas University Cancer Center, Kansas city, USA alongwith Dr. K. N. Gujar, Principal of college, inaugurated the seminar. Dr. Subhash Padhye gave an overview about "Privileged phytochemicals & genealogical pathways for drug design & discovery".

Dr. Jayant Khandare, Professor, Maharashtra Institute of Pharmacy, Pune and co-founder and Chief Scientific Officer at Actorius Innovations and Research, National Chemical Laboratory, Venture Centre, Pune talked about "Lab to clinic Oncodiscovery". Dr. Kshama Pansare, Research associate at International Cancer Genome Consortium, Advanced centre for treatment, research & education in cancer, Tata Memorial Centre gave an overview of anticancer drug testing tools-targeting the trojan horse.

Dr. Gourishankar Aland, Principal Scientist at Actorius Innovations and Research Pvt. Ltd. shared his experience about cancer biology and therapeutics. Prof. Manisha Phoujdar, Professor and Head of department of Pharmaceutical chemistry, Sinhgad college of Pharmacy, Vadgaon, Pune nicely elaborated on Targeting scientific kinase & tubulines for anticancer activity. Prof. Manisha Phoujdar coordinated the seminar.

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A visit to interdisciplinary research institute is one of the key parts of curriculum at **RJSPM's College of Pharmacy**, during which students visit various research institutes and get insight regarding the research environment and how one should start research work, as well as useful information related to the practical aspects of the educational course which cannot be visualized in lectures. RJSPM's Innovation and Incubation Cell students along with faculties visited top research institutes of the world 'National Chemical Laboratory, Pune' and 'Indian Institute of Science and Research (IISER), Pune'. During the visit, students approached to various department viz., Biochemical and Biological Engineering division, Plant tissue culture (PTC), National collection of Industrial Micro-organism(NCIM), Center for Material Characterization (CMC).

Biochemical and Biological Engineering division encompasses a range of basic and applied research activities from stochastic modelling of individual intracellular reactions to development of industrial fermentation processes. Students learnt various tissue culture techniques, various innovations carried by NCL, with latest one about Saffron cultivation. PTC division has developed various user friendly technologies for farmers. Furthermore, students also learned collection, incubation, preservation of industrial micro-organism as well as latest PCR (Polymerase Chain reaction) technology in NCIM division. They are having around 4500 cultures of various micro-organisms. The NCIM is one of the oldest biological resource centers holding especially industrially important microorganisms in the country. We also got good opportunity to visit CMC department, where theoretical as well practical information about working of the various sophisticated instruments like HR LC/MS, SEM, TEM, UPLC, Powder XRD and single crystal XRD. It was rich experience for the students as a round of question and answer showed that they are very curious with respect to research work. NCL is the first choice for students who wish to pursue an interdisciplinary course in pure sciences with a basic as well as applied research base. A visit to IISER was very explorative as it gave an understandable view on their various departments, their research activities and opportunities for Pharmacy students. This visit was very fruitful as students aware about various seed subject for research, excel their scientific and technical skill with expansion of knowledge and how to opt research funding from research agencies for execution of research project.

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Department of Pharmaceutical Science & Technology Satna (M.P.) has Organized **First Three Days Entrepreneurship Awareness Camp** (EAC) Workshop Sponsored by DST-NIMAT and Coordinated by EDI, AHMEMDABAD & Co-Sponsored by AKS University, Satna. Around 150 participants – comprising; Pharmacy, Science & Technology were participated in this programme.

The inaugural function starts immediately after registration. Presidential address was given by Dr. Harshwardhan, Pro Vice-Chancellor (Development), AKS University, Satna. The Chief Guest of the Inaugural session of the Workshop was Mr. Anil Nayak, Chairman, Pioneer Industries, Satna. The Guests of Honor were Er.A.K.Soni, Chairman, AKS University, Satna and Dr. R.S.Tripathi, Pro Vice-Chancellor (Administration), AKS University, Satna. Other guests on the Dias include Prof. R.N.Tripathi, OSD & Dean (I/c) FPST, & Dr. Surya Prakash Gupta, Associate Professor & Head, Department of Pharmaceutical Science & Technology & Programme Coordinator. Dr. Surya Prakash Gupta, Programme Coordinator welcomes the guests & Participants. Various guests off the stage includes our Management Team of the University, Deans of various faculties, Directors & HOD's of various Departments of AKS University, Speakers, participants and faculty members. Prof. M.K.Pandey, Director, TPO, AKS University, proposed the Vote of Thanks.

The session of first day started with the lecture about the Inauguration-Camp Objective, Entrepreneurship by Mr. Anil Nayak, Chairman, Pioneer Industries, Satna. It was followed by the lecture of Mr. Yogesh Tamrakar, Chairman, Tamrakar Industries & Social worker on Historical background-Indian values vis-a-vis Entrepreneur ship and the present scenario. The second session was followed by the lecture of Mr. A.P.Singh, General Manager, District Industries Coordinator on Identification of business opportunities for entrepreneurs and Mechanism of product selection. The lecture on Technology-assistance from R&D labs and others on choice of technology was given by Mr. Sanjay Shrivastava, Trainer, CEDMAP.

In second day, third session started with the lecture of Mr. Sanjay Shrivastava, CEDMAP How to start a SSI unit followed by the Lecture on practicing entrepreneur's success stories-common problems phased by entrepreneurs by Mr. Manveendar Oberoi, Chairman, Sachin Industries, Satna. Fourth session of second day started with the talk on Financial aspects of SSI unit including salient features of a project report by Mr. Vikey, Project Head, Allahabad Bank, Satna (MP) followed by his lecture on Support and financial assistance from Govt. agencies, banks, financial institutions, SFCs and others-securities demanded by FIs/banks etc.

In third day, session five started with the talk on Creativity and business-the man behind the venture -the behavioural scientist's approach by Mr. Mahan Gupta, Charted Accountant, Satna and the last lecture on Communication skills was given by Mr. Rajnish Tiwari, Trainer, Soft Skill, AKS University, Satna followed by Factory visit. The visit was done in Adarsh Plywood, Satna (MP).

Last session was the feedback session and discussion with participants for their reactions about the camp. In this, participants had submitted their feedbacks and received certificates and dispersed after enjoying high tea. The workshop was successfully coordinated by teaching members namely Dr. (Mrs) Madhu Gupta, Mr. Prabhakar Tiwari, Mr. Ankur Agarwal,

Mr. C.P.Singh, Ms. Priyanka Gupta, Mr. Pradeep Tripathi, Ms. Neha Goel, Mrs. Priyanka Namdeo and Ms. Shashi Chaurasiya. The participants expressed their satisfaction over the quality data presented at the various sessions. The workshop ended with a vote of thanks from Dr. Surya Prakash Gupta, Associate Professor & Head, Department of Pharmaceutical Science & Technology & Programme Coordinator and National Anthem.

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M. P. Council of Science & Technology sponsored **one day National Seminar** on **"Challenges towards implementing CPCSEA Guidelines in Pharmacy Institutions"** was organized by **School of Pharmacy & Research, People's University, Bhopal** (M.P.). The seminar was inaugurated by Dr. V. K. Pandya, Vice-Chancellor, People's University, Dr. Papiya Bigoniya, Director, Radha Raman College of Pharmacy, Bhopal (M.P.) and presided over by Dr. Neeraj Upmanyu, Principal, School of Pharmacy & Research, Bhopal (M.P.). Welcome speech was delivered by Dr. Neeraj Upmanyu, Convener of this seminar & Key Note Lecture was delivered by Dr. Papiya Bigoniya.

The morning technical Session-I started with the lecture of Dr. Papiya Bigoniya who gave insights on "Implementation of CPCSEA Guidelines in Pharmacy Institutions". Her interactive Lecture was followed by Mr. Manoj Aswar, Asso. Prof. Sinhgad Institute of Pharmacy, Pune. He enlightened us on "Animal Experimentations Ethics in India". The afternoon session was begun with informative and interactive talk on "Designing & writing a good protocols as per CPCSEA" by Dr. Vijay Thawani, Director, Centre for Scientific Research & Development, People's University. The day came to end with lecture by Dr N. Ganesh from Jawahar Lal Nehru Cancer Institute on "Protocol violation Viz & Viz systematic acceptance of CPCSEA Guidelines".

The one day seminar was concluded with vote of thanks by Mr. Anup Chakraborty, Organizing Secretary of this Seminar. For this programme nearly 100 students and staff delegates from different institutions had participated. Research scholars, UG and PG students presented their research and reviews in the form of Poster Presentation. Poster was judged by Dr. Sukhwant Singh, Assoc. Prof., SIRTS-Pharmacy & Mr. Manoj Aswar. First prize won by Ms. Tasneem Hussian Truba Institute of Pharmacy, Bhopal, Second prize won by Ms. Priyanka Tiwari Dept. of Pharmacy, RGPV University, Bhopal and the third prize won by Ms. Shreya Khanna School of Pharmacy & Research, People's University Bhopal. Dr. Vijay Thawani & Dr. N. Ganesh distributed the prizes and certificates to the awardees.

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Pacific College of Pharmacy, Pacific University, Udaipur organized **Pharmacy week**. In this, six-day programme many academics and extra-curricular activities were organized. This event was aimed to refresh the minds of our teachers and students and aware them about scope and challenges in pharmacy profession.

The program was inaugurated by lighting the traditional lamp by the Prof. (Dr.) Indrajeet Singhvi, Director, Pacific College of Pharmacy, Udaipur followed by Saraswati vandana. Subsequently various events like Pharma Quiz, One Minute, Treasure Hunt and Antakshari were organized. Students participated actively in these events. Blood donation camp was organized by college. About 30 volunteers donated their blood for the needy individuals. Pharmaceutical Industrial tour was organized for the betterment in understanding of students. It helped them to understand the practical working of an industry. Sehat Pharma, Himmatnagar was selected for visit. Student learnt about tablet, syrup and semisolid manufacturing and processing.

Valedictory function was celebrated in the form of cultural activity. Prof. (Dr.) Indrajeet Singhvi, Director, Pacific College of Pharmacy, Udaipur inaugurated the function by lighting the lamp and gave the welcome address. He lightened the need and importance of pharmacist in the development of a healthy nation. Students were participated in dance and skit. After function various prizes were then distributed to the winners of different activities conducted during the week. Finally vote of thanks was given by Dr. Jayesh Dwivedi, Vice President, APTI, Rajasthan and advised the student for their dedication and hard work in order to improve the quality of the teaching-learning process.

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Malla Reddy College of Pharmacy (MRCP), Secunderabad has conducted a **two weeks short term training course** (STTC), on

Innovative Concepts and New dimensions in Pharmaceutical Sciences sponsored by **Department of Biotechnology (DBT).** Dr. K.Vijaya Sri Course Director of STTC sponsored by DBT received the grant amount of 2.44 lakhs for STTC Program.

The inaugural session of the STTC began at 10:30 am in MRGI mini auditorium, with the Invocation song and Lightning of lamp by dignitaries R. Madan Mohan (Malla Reddy Group of Institutions- Academic Director). Dr. M. Sudhakar welcomed the gathering and encouraged the participants and discussed about the importance of STTC program. Dr. K.Vijaya Sri (HOD of pharmaceutical analysis & Quality Assurance) as a Course Director thanked DBT for giving this opportunity to organize the program for 2 weeks. The main objective of this STTC program is to generate awareness and provide hands on training related to modern pharmaceutical, biotechnology, analytical and innovative techniques used in teaching and research in pharmaceutical sciences. In DBT sponsored STTC program 16 delegates were participated. Delegates were selected based on the DBT protocol and this program served for teacher/research scholar. The delegates were teachers (Asst. professors and Associate professors) from various Pharmacy colleges of Telangana/Andhra Pradesh states and Research Scholars from Jawaharlal Nehru Technological University, Hyderabad & Kakinada, Andhra University, Visakhapatnam and Vels University, Chennai. Dr. A. Ravinderanath [(Chief guest) Dean, Academic affairs and OSD (planning and development) MANUU Hyderabad]; Dr. R. Shyam Sunder [(Guest of Honor), Professor, College of Technology, Osmania University, Hyderabad] other eminent dignitaries made the inaugural function triumph. The dignitaries urged on need of pharmaceutical industry in the state and promised to convey the deliverables of the convention to the higher authorities to motivate the entrepreneurship among students. Key note speakers of program Dr. K. Nagaiah (Senior Principal Scientist IICT Hyderabad); addressed the gathering of event to improve their knowledge & skills to enter into pharmaceutical and biotechnological research fields for better human health. B. Sai Phani Teja, (Executive Managing Director, Ocean Pharma Coat Pvt. Ltd. Hyderabad) was discussed his experience to be a pharma enterpreneur. Dr. Royal Reddy (Senior Scientist, Ocean Pharma Coat Pvt. Ltd., Hyderabad). The convention had a day long deliberations on various topics of interest, which is followed by a talk on importance of basics in chemistry and pharmaceuticals in academic research and industrial Research. Dr .M.Yasmin Begum (HOD, Pharmaceutics) proposed vote of thanks.

The Following Are Guest Lecuters Invited for STTC Program:

- Dr. Nagaiah (Principal Scientist IICT, Hyd) gave lecture on importance of Ayurvedic plants as Natural antioxidants
- Dr. A. Ravindera Nath (Dean, MANUU Hyd) quoted his speech on cutting edge technologies by the Pharmaceutical Development of Drugs.
- V.R.K. Sireesha (Nitty Labs Pvt Ltd, Hyd) delivered a lecture on Multi Unit Pellets methods of pelletization and application of MUPS.
- Dr. S. Gananadhamu (NIPER, Hyd) delivered a speech on Bio-analytical method validation in pharmaceutical development and practical session on spectral problems and Wood ward Fischer rules for calculating absorption maxima.
- Dr. A. Veera Reddy (Vice president of Suven life sciences,Hyd) has given a seminar on topic identification of impurities.
- Dr. K.Vijaya Sri from MRCP delivered a speech on ICH quality guidelines and then on Nano sponges, about the importance of Nano sponges with Cyclodextrins and finally conducted practical on Preparation of Selective Drug Nano suspension.
- Dr. M.L.V Setti (DR.Reddy lab, Hyd) delivered a seminar on pediatric formulation development and gave a practical session on determination of CMC Surfactant.
- Dr. S. Padmaja (Ipropat Solutions,Hyd)) delivered a speech on intellectual property rights, patents and patent filling.
- Dr. V.G.M Naidu (NIPER, Hyd) gave a seminar on Recombinant DNA Technology and Production of Growth Hormones by r-DNA technology.
- Dr. S. Banja (MRCP, Hyd) delivered a seminar on Bioavailability and Bioequivalence.
- Dr. Aravind (IIT Hyd) gave a lecture on importance of Nano medicines.
- Dr. N. Satheesh Kumar (NIPER, Hyd) delivered a talk on metabolite profiling by LC-MS/MS and applications in Basic Biomedical Research.
- Dr.Venkateshwari Muthukrishnan (Sr.Scientist of Certara USA,Hyd) spoke on PK/PD modelling on drug discovery and development.

- Miss. M. Madhuri (Hetero, Hyd) gave conducted a practical session on drug excipients compatibility studies using FT-IR and HPLC.
- Dr.M.M.Annapurna (Gitam University,Viskhapatnam) delivered a lecture on Calibration, Standardization, and blank correction and also on X-ray Diffraction studies and finally a practical session was also conducted on Handling and trouble shooting of HPLC.
- Dr. M. Sudhakar (MRCP, Hyd)delivered a lecture on immunogenicity and quantitative analysis.
- Dr. Asthoush Kumar (NIPER, Hyd) gave a speech on Bio similar hurdles and opportunities.
- Dr M. Bhagavan Raju(SVCP, Hyd) gave a talk on New therapeutics from cell signaling pathway.
- Dr. L. D. Srinivas (Sr. Manager of Mylan,Hyd) delivered a talk on Applications and examples of QBD (quality by design) development of a drug product and a practical session was headed on Strategy for GLP complaint development and validation of spread sheets in regulated laboratories.
- V. Niranjan (Dr.Reddy lab,Hyd) gave an eminent seminar on Different models for selection and dosage form design.
- Dr. M. Vijaya Jyothi (RIPER, Ananthapur) gave a seminar on types and applications of computer aided drug design (CADD).
- Dr. M.P. Kusuma (R.B.V.R.R Hyd) delivered a speech on targeting the diseases using synthetic oligonucleotides.
- Dr. M.Sindhura (Oliva, Chennai) delivered a lecture on diagnosis and treatment of skin fungal infections.
- Dr. B.Sreedhar (IICT, Hyderabad) delivered his views on importance of identifications on surface of Nano particles.
- Dr. A. Rangana pantulu delivered a seminar on FDA and drug master file.
- Dr. C. Parthiban from MRCP conducted a practical session on Calibration of Analytical Instruments UV, IR and HPLC.
- Professor Dr.J.Vijaya Ratna (Andhra University, Visakhapatnam) gave lecture on Formulation of Oral controlled drug release systems with enhanced bioavailability.
- R.Nageswararao (Former Principal scientist of IICT,Hyd) delivered a lecture on topic drug safety.
- Dr.S.S.Apte (Vice president, NATCO, Hyd) delivered a lecture on Solid dispersions – Newer insights.
- All the delegates were taken to an Industrial visit to Hetero pharmaceuticals and Suven life sciences, Hyderabad.

Feedback forms are distributed to delegates for their feedback about the DBT sponsored the STTC program. On December 3, 2016 Valedictory function was inaugurated by Professor Dr. J. Vijaya Ratna, Dr. R. Nageswara Rao; Dr. S. S. Apte; Dr. M. Sudhakar, Dr. K. Vijaya Sri. The report reading of STTC was done by Dr. K. Vijaya Sri. One of the delegates from the program named G. Sai Rajesh from Govt. Polytechnic College; Tirupati expressed his views on STTC Program by interacting with eminent speakers from various organizations and gained good network from other fellow delegates. This STTC program is useful to budding teachers as well as research scholars. The chief guests were honored by mementos and participation certificates were issued to delegates of DBT sponsored teacher/research scholar short term training course. Dr. B.V.S. Lakshmi (Vice principal of MRCP) proposed vote of thanks and the program was concluded by National Anthem.

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2nd – 5th Desmber, 2016

Periyar College of Pharmaceutical Sciences, Tiruchirappalli organized **two days Periyar Science Expo -2016** on 2nd, 3rd & 5th December 2016. Prof. Dr. R. Senthamarai, Principal delivered the welcome address. Dr. V. Nandagopalan**,** Associate Professor & Dean of Science, National College (Autonomous), Trichy, inaugurated the "Periyar Science Expo – 2016" and delivered the inaugural address. In his speech he emphasized the role of Pharmacy students in drug research & new inventions. More than 150 students displayed their exhibit in different Titles like Laser via voice transmission device, Eco treatment, Polycystic Ovarian Syndrome, Stem Cell research, Waste Products used as Vacuum cleaner and Home Made Air cooler etc.,

Thiru Gnana Sebastian, Correspondent, Prof Dr. A.M. Ismail, Emeritus Professor and Prof. Dr. G. Krishnamoorthy, Vice Principal of the college offered felicitations during the programme.

More than 1500 students were visited from different schools and colleges. Mr. K. Sakthivel, Head i/c, Department of Pharmacy Practice proposed vote of thanks.

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3rd December, 2016

"Time has come to prove the importance and role of Pharmacist in healthcare system to protect society" by Chief guest Sri. Shankar Naik, Asst. Drugs Controller, Mangalore while addressing the students during **valedictory function of National Pharmacy week 2016** organised by **Indian Pharmaceutical Association, Dakshina Kannada District Local Branch,** Mangalore in association with Srinivas College of Pharmacy Mangalore held on 3rd December 2016.

Guest of honour, Sri. Dhananjay H, Drugs Inspector, Mangalore advised the budding pharmacists to cope up with the changing scenario of our nation.

Dr. A.R. Shabaraya, President, IPA & Principal & Director Srinivas College of Pharmacy, Valachil, Mangalore in his presidential remarks called upon the students to involve actively in organizing professional awareness programmes and appreciated the council members for their active involvement. Mr. Jayachandra, Physical Education Director, Srinivas Group of Colleges, Mangalore was felicitated in recognition of his meritorious performance in 36th National Masters Athletic Championship (2016) organised by Uttar Pradesh Veterans Athletic Association held at Guru Govind Singh College ground, Lucknow, Uttarpradesh held on 10th to 13th March 2016.

Dr. Animesh Gupta, Asst. Professor, Department of Community Medicine, Srinivas Institute of Medical Sciences, Mukka, Surathkal gave a talk on Prevention and management of Diabetes.

Dr. E.V.S Subrahmanyam, Vice President, IPA & Professor Srinivas College of Pharmacy, Valachil, Mangalore and Dr. Shaul Hameed, Asst. Professor, Department of Community Medicine, Srinivas Institute of Medical Sciences, Mukka, Surathkal were present during the function.

Mr. Viresh K Chandur presented the report of the National Pharmacy Week celebration. Prizes were distributed to all the winners participated in curricular and extracurricular activities.

Ms. Savitha Bhat, Vice-President Student Council welcomed the gathering. Ms. Diana Lolita and Mirium Paul anchored the program, Mr. Shreyas K.N, Student Council President proposed vote of thanks.

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9th December 2016

Indian Pharmaceutical Association local branch, Mangalore in association with **Srinivas College of Pharmacy**, Valachil, Mangalore has observed **"World Patients Safety Day"** by donating blood on 9th December 2016 at Srinivas Institute of Medical Sciences and Research Centre, Mukka, Surathkal. On this occasion, Dr. Pramod Kumar, Medical Superintendent, Srinivas Hospital highlighted the significance of Pharmacovigilance cell and studies, reports of adverse drug reactions. He has announced that he would arrange interactive sessions with physicians once in a month, regularly to discuss these issues.

Dr. A. R.Shabaraya, Principal & Director, Srinivas College of Pharmacy and President, IPA, Local branch, Mangalore welcomed the gathering and explained the rationale of Pharm D qualified persons in the fast changing scenario of health care system.

Dr. A. Srinivas Rao, Vice President, A. Shama Rao Foundation, Mangalore and Dr. Uday Kumar Rao, Dean, Srinivas Institute of Medical Sciences and Research Centre, Mukka were present on this occasion.

Pharm D students of Srinivas College of Pharmacy in large numbers have actively participated in this programme by donating blood. They were also involved in counseling the patients about various types of precautions and safety aspects to be taken by them.

Dr. E. V.S. Subrahmanyam, Vice President, Indian Pharmaceutical Association, local branch, Mangalore proposed vote of thanks.

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9th - 11th December, 2016

Dr. Rama Rao Nadendla conveyed that **Chalapathi Institute of Pharmaceutical Sciences** (CLPT) conducted t**hree days Pharmacy Vidya Vygnanika Pradarshna – 2016** from 9th December to 11th December 2016 at the campus. This exhibition was inaugurated by Dr. D .Raju Naidu, superintendent, Government General Hospital, Guntur; Sri. Y.V.Anajaneyulu, Chalapathi Educational Society, Guntur at the Chalapathi Institute of Pharmaceutical Sciences (CLPT) said Prof. Rama Rao Nadendla, principal were present. During three days, a total of 192 exhibits were visited by five thousand and odd number of

students from several schools and junior colleges located in and around Guntur district. The motive of this exhibition was to showcase the innate talent in the pharmacy students and to exhibit their creativity. The exhibition embraced not only pharmaceutical production, pharmaceutical analysis or health aspects but also socio-economic, pollution and sanitation aspects were included keeping in view of swacch Bharath campaign raised by Hon'ble Prime Minister Sri Damodar Das Narendra Modi, of India. In which the Pharmacist role in prevention of Diseases, smoking and alcoholism, Global Warming, radiation health hazards due to dengue Fever- Prevalence and Prevention, Eco-Friendly and Yoga practices for making life healthier. Live demonstrations about acupuncture, function of heart, eye, ear, nerve impulse transmission, respiration in lungs were enlightened to the visitors. Special outlook of microbial world, DNA isolation from banana modern pharmacy setup was given. In the valedictory, Dr. Appasani Krishna Rao, Vice-Chairman and CEO, Science city of Andhra Pradesh, at Amaravati, Dr.K.Panduranga Rao garu, CEO, SPARK BIOTEK, Chennai, Sri.Emani Durga Prasad, Assistant General Manager, Srichaitanya Schools and Colleges, Guntur, , Dr.A.Krishna Rao personally interacted and evaluated all the exhibits showcased in the exhibition. In this context, a total of 12 first prizes and two second prizes were won the by the students who demonstrated the exhibits. The 12 prizes were being bagged by Mr. I.Amar Sandeep and Ms. I.Haripriya of M.Pharmacy pharmaceutics for demonstration of oral dissolving films whereas Mr.K.Srinivasa Rao and Ms.K.LJyothirmail received 1st prize for floating tablets under Industrial Pharmacy section. Ms.J.Neeharika (M.Pharmacy pharmaceutical analaysis) won 1st prize for depict gas chromatography model; Ms.Y.Sowjanya (3rd B.Pharmacy) got 1st prize for water purifier in physical pharmacy section; Mr.Ch.Krishna Sowjanya and Ms.M.Mounica got 1st prize for live demonstration of DNA isolation under pharmaceutical biotechnology section and Ms.K.Roja for explaining Microbes We eat in Microbiology wing. In addition, under physiology branch Ms.K.Kamalika Chowdary (1st Pharm.D) and Mr.M.Dineesh got 1st prize for depicting and showcasing viral capacity and robotic model for understanding respiration. Further, in pharmacy practice division, Ms.Ch.Priyanka and Ms.P.Indira Sowjanya received for delivering importance of free radicals and Ms. P.Olive Navaneetham and Ms.A.Rachana pregnancy and related incidences. Incase of pharmacognosy division, Ms.SK.Amreen sultana got for 1st prize for natural cultivation techniques and in pharmacology division, Mr.B.Vijay Kumar got for experimentation of behavioural parameters for animal models in anti anxiety and eventually, Mr.Sk.Mastan Vali for parallel synthesizer. The second prize being secured by Ms.K.Nagasri and Ms.G.Gayathri for demonstration of renal function of kidneys and Ms.V.lakshmi chaitanya for techniques of handwash and Ms.K.Ambika and Ms.K.Vinaya for health hazards for electronic gadgets radiation under pharmacy practice division and A.Manvitha chowdary for detailing about utility of medicinal plants and conservation of biodiversity.

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12th December, 2016

Department of Pharmaceutics and NSS Unit, BLDEA's SSM College of Pharmacy & Research Centre, Vijaypur, On 12/12/2016 visited and conducted **Health Awareness Camp** on "**Storage and usage of medicine**" at Siddapur village of Vijaypur taluk and district. NSS Volunteers and faculties of Dept. of Pharmaceutics were actively involved in the camp. The program was coordinated by Mr. Nanjappaiah H M, NSS program officer and Dr. C C Patil, Prof. and HOD of Pharmaceutics.

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16th December, 2016

The 77 member team comprises of **74 B. Pharmacy 6th Semester students and 3 faculty from Rungta College of Pharmaceutical Sciences and Research** (RCPSR) managed by Santosh Rungta Group;

has returned to Bhilai after attending the **68th Indian Pharmaceutical Congress (IPC-2016) held at Visakhapatnam**. The conference was organised by Indian Pharmaceutical Congress Association – Bangalore and hosted by Indian Pharmaceutical Association – Mumbai. The theme of this year's conference was "Quality Pharmaceuticals and Patient Welfare"and the venue was University College of Pharmaceutical Sciences, Andhra University, Visakhapatnam. The Chief Minister of Sun Rise State Andhra Pradesh Shri N. Chandrababu Naidu inaugurated the 3-day conference on 16th December, 2016.

In IPC-2016, Seminar, Expo and research paper presentation were organized, where renowned Scientists, Research Scholars, Pharmacy Students and Industrialists associated with the production of pharmaceuticals from all over the country and also from abroad actively participated. The students and faculty members were familiarized about the latest developments in the field of pharmaceuticals and advances in research, along with the newly introduced machines and equipments for manufacturing medicines and further possibilities in this field.

Director (F&A) of Santosh Rungta Group Mr. Sonal Rungta said that with the active participation in IPC-2016, the students from RCPSR were familiarized with the changing scenarios of pharmaceutical science, research, technology and industry. The experience and exposure gained by pharmacy students during their visit to Visakhapatnam would be beneficial for them in their future career. Principal of RCPSR, Dr. D.K. Tripathi said that our college has always been the research center for the latest in pharmacy sector. Presently four research project approved by Department of Science and Technology, New Delhi are underway at the college level. The participation in the IPC-2016 would be proved highly beneficial for the students to improve their subject knowledge. Vice Principal Dr. Ajazuddin informed that the pharmacy students were actively participating in the Indian Pharmaceutical Congress held every year. They have already participated IPC's held at Mysore, Hyderabad, Bangaluru, Manipal University-Udupi and Nirma University-Ahamadabad during the previous years. College faculty Dr. Amit Alexender, Mukesh Sharma and Mukta Agrawal contributed their valuable efforts for the successful tour of Visakhapatnam for IPC-2016.

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20th December, 2016

As per the guidelines of Ministry of Human Resource Development, Government of India, a seminar was organized at SGSPS Institute of Pharmacy, Akola on the topic entitled, 'Vittiya Saksharta Abhiyan' on 20th Dec 2016. The programme was inaugurated and Chaired by Dr. Nitin S. Bhajipale, Principal of the Institute with lamp lightening and Sant Gadge Baba Pratima Poojan. In his speech, he guides and encourages the students to become volunteers of this Abhiyan. The students, faculty and

non-teaching staff were actively participated in seminar. The seminar was delivered by Dr. Suresh Sudke, Associate Professor, SGSPS Institute of Pharmacy, Akola. In the seminar he enlighten on various modes, objectives and precautions that to be taken in cashless transactions. The program was co-ordinated by Prof. Shankul Kumar and vote of thanks was given by Prof. Satish Padgiwar. The programme was concluded with National Anthem.

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24th December 2016

Sinhgad Institute of Pharmaceutical Sciences, Kusgaon (Bk) Lonavala Dist Pune organized **ALUMNI MEET** named **"SIPSAA"** on Saturday 24th December 2016 at Auditorium hall, of the institute. The meet was inaugurated by Dr. R. N. Kane, Principal. On this occasion, launch first SIPSAA e-bulletin. Many alumni have attended the meet. In this meet institute awarded distinguished alumni named Anil Khedkar, Manish Soni, Tarang Bhatt, Taral Lunavat and Megha Saraswat by giving mementoes for their contribution to pharmaceutical field. This meet was organized with purpose to provide opportunity to current pharmacy students to interact with alumni working in different arena of the pharmacy field and share their knowledge and experience. Students expressed their views about the facilities offered by the institute. Dr.S.B.Bumrela has given vote of thanks.

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24th December, 2016

Smt.Sharadchandrika Suresh Patil College of Pharmacy, Chopda NBA Accredited and ISO certified institute had recently conducted the

One Day Seminar on "Innovation in Parenteral Packaging and Drug Delivery" under the Department of Pharmaceutics on 24.12.2016. Hon. Dr. Suresh Patil ,Founder President MGSM,Chopda was the patron in chief,while Hon. Adv. Sandeep Suresh Patil ,President MGSM,Chopda was Patron and Chairperson of the seminar whereas Hon.Dr.Smita Sandeep Patil Secretary MGSM as guest of honor along with Principal R.N.Patil, Council member of MGSM, Prof.D. B. Deshmukh. Prof. Umesh Gupta, of central university, Rajasthan along with Dr. Prashant Argade of Govt. College of Pharmacy, Jalgaon were the main resource person to enlight the above tittle of seminar around 150 delegates attended the seminar .

Dr. Gupta conducted the first session on Parenteral, packaging innovations followed by second session by Dr.Argade on packaging innovations in parenteral with some videos clips on prefilled syringes and packing materials. The session was chaired by Dr. A.V.Patil and Dr. G.P.Vadnere (Principal), Dr. Parag Jain, Mr. Bharat Jain, Mr. Sandeep Pawar, Mr. Kiran Baviskar, Mrs. S.Mahajan and Mrs.Prerna Jadhav were coordinators of the seminar Md.Rageeb Usman, Mrs. Salgar Surekha, Dr.Lodhi S, Dr.Hundiwale, Mr. Tushar Patil of Deptt. of Pharmacognosy, Pharmacology helped for success of seminar. The Chief Coordinator Dr.Bhushankumar Sathe and Convener of Seminar Dr. Gautam Vadnere looked after the success of the mega event.The Seminar was concluded with the vote of thanks by Dr.Bhushankumar Sathe, HOD of Pharmaceutics Deppt.and chief Coordinator of the seminar.

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26th December 2016 & 25th January 2017

Dr. Rama Rao Nadendla, President, Indian Pharmaceutical Association – Lam local branch and principal of **Chalapathi Institute of Pharmaceutical Sciences** (CLPT) detailed that IPA-lam local branch has conducted the outreach activity **Health Screening Tests and Patient Counselling** on **25th January 2017 at Koretipadu Tank Band Walking Tracks** and also on **26th December 2016** at **Sri Venkateswara Walking track** in and around Guntur town from 5.30 am to 8.30am. In these two camps a total of 513 joggers and walkers at public walking track and neighborhood resident visited the camp and availed the services rendered by IPA lam local branch members on various diseases and counseled on the self-medication, drug abuse/misuse, significance of biochemical and clinical laboratory diagnostic tests, life-style modification, yoga practices, use of medications and their dosing schedule etc through display of palmphlets, posters. IPA lam office bearers Dr.Rama Rao Nadendla, president, Prof. K.N. Rajinikanth, vice-president; Mr.S.S.ManiKiran, secretary, Mr.V.Pradeep kumar, hon. Treasurer and executive council member's viz., Mr.B.Valli Manalan, Mr.G.Madhu and Ms.N.Santhi Priya along with Pharm.D staff viz.Mr.K.Manesh kumar reddy Mr.K.Nani babu, Mr.G.Premkumar and Pharm.D students rendered community for. In this community service people were tested free for the glucose levels, educated about life-style modification, yoga practices, use of medications and their dosing schedule etc through display of palmphlets, posters,. The college acknowledged the Sri.Y.V.Anjaneyulu, president, Chalapathi Educational society for support and patronage of this event.

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27th & 28th December, 2016

The **International Conference** on, **"Artificial Intelligence in Health Care"** was organized jointly by **School of Pharmacy and Technology Management**, Shirpur, **Shobhaben Pratapbhai Patel School of Pharmacy and Technology Management** (SPP-SPTM), Mumbai, **Mukesh Patel School of Technology Management and Engineering** (MPSTME), Mumbai & **Shirpur and SVKM's Bhanuben Nanavati College of Pharmacy**, Mumbai. The conference was also supported by ICMR, India; CST India.

Dr. Shailendra Saraf, Vice President Pharmacy Council of India, New Delhi was the chief guest for the inaugural session. Shri Rajgopal Bhandari presided over the function. Dr. Sharad Mhaiskar, Pro-VC, SVKM's NMIMS; Dr. R. S. Gaud, Director Pharma institutions & MPTP Shirpur; Dr. Bala Prabhakar, Dean SPP SPTM; Dr. Aaquil Bunglowala Associate Dean MPSTME, Shirpur and Dr. Ashwini Deshpande, Associate Dean SPTM, Shirpur were present on dais for this inaugural ceremony. There was an overwhelming response for the conference with 320 delegates from India and abroad participated in the event.

Several distinguished speakers from industries shared their views, experience and current status of artificial intelligence in their industrial sector. Dr. Narendra Gore, IBM – USA, delivered a lecture on "Applications of Block chains in Healthcare industry". Dr Vijaykumar, University of Missouri-Kansas City, USA spoke on Electronic Health Record Management (EHR): How to Deal with It? Dr. Parag Kulkarni, Founder, Chief Scientist iknowlation, Pune, India unfolded his expertise in Building machine learning based products. Dr. P. K. Chande, Ex-Director MANIT Bhopal, India talked about "Efficacy of AI & knowledge management in healthcare" Dr. Balaji Ganeshan University of Sussex UK, described "Quantifying tumour heterogeneity with texrad texture analysis on computed tomography and magnetic resonance imaging". Prof N. S. Chaudhari, Director, VNIT, Nagpur, India on "Language structure using fuzzy similarity, briefly reviewed a few important results, especially concerning regular language learning. An interactive talk on "Virtual and Augmented Reality in Life Sciences" by Dr. Tom Verhelst, Associate Director, New Medicine IT UCB Pharmaceuticals London UK. Dr. Anjali Jaiprakash, Queensland University of Technology, Australia extended her views about "Bringing disruptive technologies to medicine and healthcare". Dr. Parth Dey, Healthcare Leader and SME IBM India/SA India delivered a very interesting talk on "Digitization in Healthcare servicing". Dr. Shubhangi V Rathkanthiwar, YCCE, Nagpur, India discussed Computational intelligence in wireless communications through artificial neural networks.

There were oral presentations from around fifty participants where they presented their research in the areas like Breast Cancer, Cardiovascular diseases, diabetics, future of medicines and healthcare, Drug Manufacturing, etc.

Dr. V. K. Kapoor Professor Emeritus, Punjab University was the Chief Guest for Valedictory Function. Organizing Secretary Dr. Bala Prabhakar summarized the activities of these 2 days. Dr. Gaud in his address discussed the conceptualization of this conference and need of AI in the future. Dr. Aaquil Bunglowala Associate Dean MPSTME, Shirpur proposed vote of thanks. The conference proved to be grand success and a great platform for networking amongst delegates from across the globe with conducive atmosphere, excellent weather and delicious food.

A very positive feedback and appreciation was received from all participants as well as speakers.

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2nd- 3rd January, 2017

Sinhgad Institute of Pharmacy, Narhe, Pune organized SPPU sponsored **Two Days National level Seminar** on **"Drug Discovery through Enhanced Drug Targeting"** between 2nd-3rd January 2017. This seminar was aimed to the area of Drug Discovery from preclinical to clinical realms by the renowned scientist from the field of Drug Discovery.

An overwhelming of 42 participants from different Institution and 38 students of UG and PG from our Institute was seen in the seminar (Total 82 participants). Two days session was divided into Total five Lecture sessions, hands on experiment on cannulation of carotid artery, measurement of IBP and NIBP in rats and National Level Poster presentation as per the planned agenda.

The seminar was inaugurated by the hands of Hon. Dr. Raman Gangakhedkar Sir, Director In-charge and Scientist-F, National AIDS Research Institute, NARI, Bhosari, Pune. Distinguished speakers from the field of Drug Discovery shared their experiences and outputs to the delegates Dr. N. K. Subhedar, Prof, IISER, Pune; Dr. Mohan Wani, Scientist-F from NCCS, Pune; Dr. S. L. Bodhankar, Prof Emeritus, Poona College of Pharmacy., Pune; Dr. Urmila Aswar, Asso Prof, SIOP Pune; Mr. Sandeep Pawar, Head Strategy and Marketing, Piramal Critical Care, Mumbai and Dr. Prasad Thakurdesai, General Manager, Indus Biotech, Pune. On the last day of the seminar, National Level Poster Competition was organized, Ms. Pallavi Shirsat from AISSMS

College of Pharmacy, Pune stood Runner-up and Mr. Chetan Doshi, Dept of Biotechnology, SPPU, Pune declared as winner in the poster competition. Both the awardees were felicitated with trophy and certificate. The program was compered by Ms. Utkarsha Deshpande, Ms. Hrudaya Shende and Ms. Priyanka Nale. The seminar was co-ordinated by Prof. Manoj Aswar, Head, Dept of Pharmacology under the guidance of Dr. K. G. Bothara, Principal, SIOP, NArhe, Pune.

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3rd January 2017

The **Pradhan Mantri Jan Aushadhi Kendra** was inaugurated at **Kalyani Charitable Trust's R.G.Sapkal college of Pharmacy,** Anjaneri, Nashik on 3rd January 2017. This Pharmacy outlet is the result of joint efforts of the Bureau of Pharma PSUs of India (BPPI), Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Pharmacy Council of India and Food and Drug Administration. Senior Journalist Shrimant Mane and Marathi actress Tejaswini Lonari graced the event as chief guest. Chairman of Sapkal Knowledge Hub Dr. Ravindra Sapkal, Vice President Mrs. Kalyani Sapkal were also present for inauguration of Jan Aushadhi Kendra.

R.G.Sapkal college of Pharmacy is the first college under Savitribai Phule Pune University to establish this Centre. Principal of R.G.Sapkal college of Pharmacy, Anjaneri, Nashik Prof Dr.R.B.Saudagar highlighted that through this generic medicine Centre, Anjaneri,Trimbakeshwar Taluka and Tribal villagers will be able to purchase medicines at discounted rates of 60-70 % than the branded marketed formulations.

Speaking on the occasion, Shrimant Mane said, Spending on medical treatments and medicines is a big deal in tribal areas. It is a high time that villagers and people from every spectrum of the society are informed and educated about generic medicines and its benefits. Such initiatives are a good start to propagate awareness. Dr. A.B. Darekar anchored the event and Prof.S.B.Gondkar proposed vote of thanks. Staff members, students and employees of Sapkal Knowledge Hub attended the event in large numbers.

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6th-7th January 2017

A two day **National Level Conference** on **Quality by Design (QbD)**-Approach in Pharmaceuticals was jointly organized by **Kalyani Charitable Trust's R.G.Sapkal College of Pharmacy**, Anjaneri, Nashik and **Savitribai Phule Pune University** on 6th-7th January 2017.

The Conference was inaugurated on at the hands of Prof. Dr.Shailendra Saraf, Vice President, Pharmacy Council of India (PCI),New Delhi, Prof. Dr. S.J.Daharwal, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur , Prof. Dr. R.P.Marathe, Government College of Pharmacy, Aurangabad, Prof. Dr.P.S.Gide, Principal Dr.L.H.Hiranandani College of Pharmacy, Ulhasnagar, Mumbai, Mr.Prashant Hande, Anchrom Enterprises Private Limited, Mumbai, Dr. Ravindra Sapkal, Chairman of Sapkal Knowledge Hub, and Prof Dr.R.B.Saudagar ,Principal of R.G.Sapkal College of Pharmacy, Anjaneri, Nashik.

At the beginning, Prof Dr.R.B.Saudagar welcomed the guests and gave introductory speech. He said through this type of conference, students will be able to get Current knowledge on Quality by Design (QbD) which will benefits them in future working field.

In Two Day National Conference, Prof Dr.Shailendra Saraf, Vice President, Pharmacy Council of India (PCI), New Delhi focus on students contribution in present pharmacy field. He gave special guidance to students about fast growing pharmacy world and appealed to identify opportunity, contribute it from student's life for society benefits.Poster Presentation was inaugurated by the hands of Prof Dr.Shailendra Saraf.

Prof. Dr. S.J.Daharwal, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur discussed methods for estimation of Plant Marker used in Homoeopathic medicament.

Prof. Dr.P.S.Gide, Principal Dr.L.H.Hiranandani College of Pharmacy, Ulhasnagar, Mumbai highlighted on optimization technique used in Pharmaceutical Research work with the help of case study.

Prof. Dr. R.P.Marathe, Government College of Pharmacy, Aurangabad focus on Importance of Quality by Design (QbD) Approach in Pharmaceuticals.

Mr. Prashant Hande,Anchrom Enterprises Private Limited, Mumbai discussed about HPTLC Instrumentation, Application in Pharmaceuticals. He also discussed how to overcome problems and difficulties arise in Spectroscopy and Chromatography Techniques.

Chairman of Sapkal Knowledge Hub Dr. Ravindra Sapkal appealed students to take maximum benefits from facilities provided by Sapkal Knowledge Hub and make their own position in the society by serving the patients.

More than 192 Delegates from the Maharashtra and other states participated in the conference.

Prof.S.B.Gondkar proposed vote of thanks.

Prof S.S.Aher and all Staff members coordinated for successful organizing the National Conference.The conference was concluded by National Anthem.

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6th January, 2017

Two Day National Conference on Transpiring Novelty and Hi-tech Knowledge in **Advanced Research in Pharmaceutical Sciences** (TKRPS-2K17) Sponsored by **Science & Engineering Research Board**, Ministry of Science & Technology Government of India organized by **Teegala Krishna Reddy College of Pharmacy** in Association with **Scientific & Applied Research Center.** Sri Konda Vishweshwar Reddy Garu MP, Chevella constituency was the chief guest and Sri Teegala Krishna Reddy Garu MLA (Maheshwaram constituency), Dr. T. Harinath Reddy, Mr. T.Amaranth Reddy, Dr. S.R. Ramaswamy, Dr. Vijaya Kuchana, Principal of Teegala Krishna Reddy College of Pharmacy, Principals and Directors of other TKR Group of institutions were present at the Inaugural Function. Principal of Teegala Krishna Reddy College of Pharmacy welcomed the dignitaries and participants of TWO DAY NATIONAL CONFERENCE. Students from various colleges of pharmacy participated in large number to present their posters in the scientific session. Souvenir CD of TKRPS -2K17 containing about 300 scientific abstracts was released in the inaugural function of the conference.

Konda Vishweshwar Reddy Garu described the role of teacher and student on nurturing knowledge and development of Pharmaceutical Industry which made Hyderabad as one of the leading producers of formulations. He emphasized on the general measures to be adapted to minimize undesired drug interactions and adverse effects which is the key responsibility of the pharmacist who is equivalent to scientists and doctors in the health care system, he mentioned that Government of Telangana is planning to take necessary steps to develop greater Hyderabad as Pharma city.

Sri Teegala Krishna Reddy Garu encouraged and motivated students of various Pharmacy Colleges attended the conference that they have bright future a head for which Government of Telangana is striving hard for the employment of pharmacy students in various areas of Pharmacy field.

Director of TKRES urged the students of Pharmacy to develop the required research skills in the direction of advanced technology.

Dr. V. Gopal of Puducherry delivered key note address on Nature Conserves, Prefers Novelty to the gathering regarding development of Pharmaceutical products which are widely used and familiar to the common man narrating real life stories of scientists which followed by a plenary lecture by Dr. Alagarsamy on Designing of Anti-HIV Agents in the forenoon session.

Scientific poster presentation took place in the afternoon session of day I which were evaluated for best poster by various pharmacy college principals.

A plenary lecture on Drug Discovery Using Natural Sources by Dr. Ciddi Veeresham & Lipid Nanoparticle Drug Delivery System by Dr. V. Venkateshwarlu followed by skits based on theme of pharmacy and cultural programmes during valedictory function held on day II of Two Day National Conference.

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15th January, 2017

Konkan Gyanpeeth Rahul Dharkar College of Pharmacy and Research Institute, Karjat had organized **First Maharashtra State Pharmacists' Convention** in association with **Indian Pharmaceutical Association**

(IPA MSB), **Maharashtra Registered Pharmacists Association** (MRPA), **Association of Pharmaceutical Teachers of India** (APTI), **Maharashtra Pharmacists Association** (MPA), Food and Drug Administration (FDA) dated 15th January 2017. The theme for this event was **"Phramacist: Vital component of health care"** Vision 2020. The eminent guests Dr. Milind Umekar, Vice President APTI, Mr. Amar Damle Psychologist, Mr.B.E Khomne, Retired Joint Commissioner FDA, R.T. Lohiya Professor, Kailash Tandale President MRPA, Shashank Mhatre President Raigad Forum, were present for this event.

The program was inaugurated by Dr Umekar, along with all the dignitaries with "Deep Prajwalan" ceremony. Dr. Mohan Kale, Principal welcomed guests and briefed about the objectives of the convention. He urged pharmacist to be Patient oriented with proper counseling, education and awareness to develop a rapport with patients. Dr. Milind Umekar in his inaugural speech gave detail information about pharmacist profession. In this he explained awareness about profession, abilities of pharmacist and their role in community and also informed about role of PCI and uniform syllabus implementation.

Mr. B.E Khomne had given brief talk on the strength of pharmacists, regulation of pharmacy field, role of pharmacist in today's world. He urged all qualified registered pharmacists to be on one platform for uplifting the profession.

Mr. Amar Damle gave Key note address on the theme and addressed the gathering on the qualities of pharmacists, psychological behavior, emotional intelligence and to work with positive thoughts and insisted to start loving whatever good things you do in life. In this he also said that pharmacist image should be not as like traders, but should be like a counselor and caretaker of the patients.

Mr. Zulkarnain Dabhiya, Treasurer inaugurated Poster presentation competition and felicitated Dr Milind Umekar, Mr. Vijay Mande, LMC Member and Dr.P.Y.Shirodkar shared their wishes. All teaching and nonteaching staff graced this event. R.T.Lohiya delivered on opportunities for pharmacist in different career field. Shashank Mahtre addressed the delegates to purchase medicines from registered qualified Pharmacists only. Kailash Tandale briefed about the present scenario of pharmacy profession. About 300 pharmacy delegates from Maharashtra were present for this programme. In this convention Pharmacist issues, concerns, interactions were held amongst all in open session and several resolutions were taken for future implementation. Important are 1. They demanded compliance of Drug Controller General of India (DCGI)'s notification making it mandatory for pharma companies to appoint pharmacist at manufacturing facilities, for regulatory complains of norms stipulated to ensure quality of the products. 2. The convention also noted that despite regular appeals, the MSPC, were yet to fill in vacant posts of registered pharmacist in state hospitals as per the pharmacy practice regulation 2015. The poster competition held on this occasion is won by Aishvarya Barshi from K.G.R.D.CP&R.I. Karjat. Mr.Pritam Juvatkar anchored the event.

Mr. Sandeep Waghulde, Mrs. Priyanka Kalamkar, Mr.Pritam Juvatkar, Mr. Pravin Naik were convener of this event. All teaching and nonteaching staff with their valuable support, participation of pharmacists and blessings of eminent personalities made this event a grand success.

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18th January, 2017

Dr. Bhushankumar Sathe was invited to speak on NBA Accreditation by MSBTE, Mumbai sponsored **One Week Faculty Development Training Programme** on **"Health Care System AndPharmacy: New Avenues And Application"** From 16th -20th January 2017, at **Govt. Polytechnic, Department of Pharmacy,** Jalgaon. Dr. Sathe was invited to speak and clear the concepts of NBA Accreditation process for whole day from 10.00 am to 5.30pm on 18 January 2017.

All participants cum delegate for the workshop came from various colleges of Pharmacy throughout Maharashtra.The faculty training workshop was limited for only 30 participants .Dr. Sathe covered various aspects of NBA process and also conducted separate hour on SWOT Analysis and had detailed discussion about Strength, Weakness, Opportunity and Threats for the development of any institution and up gradation of the institution. He focused that NBA is not only the generation and maintaining the documents but how the system and process had to be defined, implemented and maintained. Dr. Sathe also added that NBA is not only continuous but continual process. Dr. Sathe during his talk discussed in detail all 9 criteria of NBA portfolio and how we have to prepare for achieving the target.

Dr. Sathe focused and cleared doubts about Vision, Mission, PEO's and Mapping of PO's, CO's, PEO's and also Assessment tools. His discussion during the sessions was appreciated and welcomed by Hon.Nandedkar Sir HOD of the Dept., Hon. Tarode Sir, Dr.Argade Prashant.

Dr. Bhushankumar Sathe is presently working as HOD, Smt.Sharadchandrika Suresh Patil College of Pharmacy, Chopda Dist.

Jalgaon .He is working here since 2003 and had successfully worked as a NBA coordinator of the College of Pharmacy, Chopda who recently faced the NBA Accreditation team. Dr. Sathe had published 36 research papers and attended 37 conferences of which presented his research in 25 conferences. Also he had received Best research Oral presentation award at International conference and National conference, were as had authored one book and resource person for Maharashtra State Pharmacy Council Drug information Centre, research supervisor for University.

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20th January 2017

Shri Sarvajanik Pharmacy College, Mehsana had organized an **industrial visit** on 20th January 2017 with the students of **B.Pharm. semester-6** & **semester-8** under the guidance of Dr. S.T. Prajapati and Dr. Hitesh D. Karen at Shashi Pharma of Kalol. The trip started at 9am and reached at 10.30am to the tablet and capsule manufacturing unit of Shashi Pharma where the industry personnel introduced about the various departments of the industry. The visit started from raw material room along with various sections. Manufacturing unit of ibuprofen tablet and vitamin B12 hard gelatin capsule were the main points of learning. Working condition of fluidized bed dryer, chain conveyer and double cone bladder have been demonstrated.

Details of quality control and quality assurance lab have been explained nicely by industry personnel that how people work in these labs. One alumni of SSPC Miss Mona Patel is working here. The packeging section gave nice ideas on packing materials used in strip and blister packing, Alu-Alu packing and pouch packing. Next industry visit on the same day was Vedica pharma, the industry of ointment manufacturing unit. A lunch break was after that. Vedica Pharma showed the manufacturing process of ointment, gel and cream with working procedure of instruments and manufacturing process. They showed the manufacturing of methyl salicylate the counter irritant. Next trip was for Thol Bird Sanctuary and reached there at 5pm. Natural beauty made all relaxed and left the place at 8pm. Industrial visit experience made all students helpful for routine practicals and theoretical classes. Overall the visit was successful for all students.

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21st - 22nd January, 2017

Gujarat State Pharmacy Council Sponsored **Two Days Refresher Course** for Registered Pharmacists organized by **Shri Sarvajanik Pharmacy College**, Mehsana at Mehsana on 21st& 22nd January, 2017. Around 175 Pharmacists attended from different fields (academia, industry, marketing, community pharmacy etc.) from various corners of Gujarat. Guests of inaugural & valedictory functions; Dr. Ragin R. Shah, Director General, Venous Group of Institutions, Shri Babubhai R. Patel, Treasurer, Mehsana Chemists Association, Shri Pravinbhai R. Patel, Treasurer, North Zone (FGSCDA), Mr. Gilbert Macwan, Registrar, Gujarat State Pharmacy Council (GSPC), Mr. Bharatbhai Patel, Member, GSPC and Dr. J.B. Dave, Director (PG), SSPC gave informative and inspiring messages. Presidents of the above functions were Shri Dilipbhai J. Chaudhary, Hon Secretary, Shri Sarvajanik Kelavani Mandal (SSKM) and Shri Ramanbhai Khamar, President, SSKM.

Inaugural day 21st January started with registration and Sarasawti Vandana and lectures were delivered on "Adverse drug Reaction & Pharmacovigilance Project of India" by Dr. J.B. Dave, "Role of Pharmacist in Contagious Diseases Management" by Dr. H.U. Patel, "Drug incompatibilities" by Dr. S.T. Prajapati and "Prescription Handling" by Dr. H.D. Karen. On 22nd January there were lectures by Dr. Kamlesh Thakkar, (cardiologist) on "Therapeutic Updates on Hypertension", by Dr. Gitesh N. Shah, (Physician) on "Therapeutic Updates on Diabetes" and by Dr. Pankaj H. Prajapati on "Self medication & its Demerits" in morning session. Afternoon session has Objective test for the participants and ended with Valedictory Function and Certificate Distribution. Appreciable feedback by the participants supported morally. Two announces were made during program: (1) The institute has applied to PCI to start B.Pharm. (Pharmacy Practice) course from June 2017 & (2) The institute is going to organize Pharmacist registration renewal work shop to be sponsored by GSPC on 19th February, 2017 for the interest of Pharmacists of North Gujarat. The course was directed by Principal Dr. C.N. Patel and coordinated by professors; Dr. H.U. Patel and Dr. P.H. Prajapati.

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23rd January, 2017

BLDEA's Shri Sanganabasava Mahaswamiji College of Pharmacy and **Research Center Vijaypur** in collabration with Shri B M Patil Medical College Hospital And Research Centere Vijaypur organised "**General Health Checkup Camp**" on Monday 23/01/2017 at siddapur village. Organised by **Department of Pharmaceutical Chemistry and NSS Unit**.

In this camp many patients from siddapur village are taken benfits like blood glucose test, body weight and height measurement and blood pressure measurement etc and patients are more interacted with our doctors and clarified their doughts and in this camp all age 1year to 75 year patients taken benfits and suggestions from doctors. Total around more than fifty patients are benificiries from this camp and people of siddapur more happy and appriciated lot for our effort. The program was coordinated by Mr. Nanjappaiah H.M. NSS coordinator.

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27th January, 2017

Sinhgad Technical Education Society's Sinhgad College of Pharmacy (SCOP), Vadgaon, Pune organised a Savitribai Phule Pune University-Board of Student Welfare -sponsored **One day Workshop on Student's Personality Development -**Vidyarthi Vyaktimatva Vikas Karyashala on 27th January, 2017.

Dr. Mrs. Amita Pradhan, Student Welfare Officer and Chief Librarian, Sinhgad Technical Education Society, Pune along with Dr. K. N. Gujar, Principal of College, and Co-ordinator Mrs. Madhuri Nagras inaugurated the workshop. Mrs. Amita Pradhan stressed the importance of Personality Development for success in career and life.

Dr. Hemant Jain, HOD of Quality Assurance Dept., Sinhgad College of Pharmacy (SCOP), Vadgaon, Pune delivered a talk on Benefits of Yoga and Pranayam and gave few demonstrations of Yogasanas.

Dr. Prasanna Gadre, Dermatologist and DVD specialist, Kothrud, Pune had an interactive session with students on Issues related to Youth in Adolescent Years and how to overcome these difficulties. Dr. Gauri Godbole, HOD, Pulmonary Dept., Smt. Kashibai Navale Medical College & General Hospital, Narhe, Pune shared her thoughts how to work toward developing a Right Personality. Mrs. Nirmala Kaldelgaokar, Founder of VIVAM, Solid Waste Management Group, Baner, Pune, spoke on Recycling Waste Material and how to do Vermiculture for achieving the goals of Swatch Bharat Abhiyan.

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27th - 30th January 2017

Every year **Savitribai Phule Pune University** (formerly University of Pune) conducts the **Research Project Competition "AVISHKAR"** at four different levels i.e. Zonal, University and State in the categories of UG, PG, Ph.D. and Teacher. The final level of competition was held at Swami Ramanand Tirth Marathwada University, Nanded, from 27th to 30th January 2017. Dr. J. P. Bhat, Head-Department of Intellectual Property Rights, CSIR, addressed the participants on research orientation and enlightened on the problems faced during publications of research work. Two participants, Mrs. Shilpa N. Shrotriya and Mrs. Smita S. Kale were shortlisted from teacher's category in the discipline of Medicine and Pharmacy for final State Level from Sinhgad College of Pharmacy. Mrs. Shilpa Nilesh Shrotriya, Asst. Professor, Department of Pharmaceutics was declared as runner up in teachers category. The participants in teacher's category were from across 19 universities. Her work on Nano-lipid gel: one treatment for three skin ailments was well appreciated. Total 48 participants from Savitribal Phule Pune University (SPPU) participated in various categories. The overall championship for AVISHKAR 2016 was won by SPPU. Prof. Manisha Phoujdar, Academic Research Co-ordinator, Dr. (Mrs). N. S. Ranpise, research guide and Dr. K. N. Gujar, Principal, SCOP guided her.

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28th January, 2017

IPA Industrial Pharmacy Division with the active support of **IPA Gujarat State Branch** organized **Technical Conference on Quality Metrics** – Future need of the pharmaceutical industry for marketing drug products in US market on 28th January 2017 at Hotel Hyatt Regency, Ahmedadad. Pharmaceutical Export Promotion Council of India

(Pharmexcil) and Food & Drug Control Administration, Gujarat also served as co organizers. The highly successful event witnessed a fine blend of Industry, Academia and Regulatory participation at all levels.

Speaking as guest of honour, Mr Arvind Kukreti, Deputy Drug Controller, CDSCO, Ahmedabad office set the tone of the event by sharing a fine couplet- Umra bhar galib yahi bhul karta raha; dhul chahere pe thi, aaina saf karta raha. He equated Galib with all personnel of Pharma Company, mirror with all monitoring systems, dust with all non-conformances and act of cleaning mirror with our misplaced priorities born out of ill perception. Dr. Navin Sheth, newly appointed Vice Chancellor of Gujarat Technological University, other guest of honour hinted at stepping up innovations and filing patents and securing intellectual property rights taking a cue from China. Dr. H. G. Koshia, Commissioner, Food & Drug Control Administration graced the inaugural function as Chief Guest and dwelt on various non-conformances and how USFDA proposes to objectify them using Quality Metrics calculation for improved monitoring and control. Dr. Gaurang B. Shah, President IPA Gujarat State Branch delivered welcome address and Dr. S. B. Rijhwani, Chairman- IPA Industrial Pharmacy Division conveyed the theme and objectives of the conference. Mr. Vinit Shah delivered vote of thanks and Dr. Jayant Dave served as master of the ceremony.

In the afternoon session Mr. Arunava Ghosh, Cluster Head, Quality Intelligence from Zydus Cadila Healthcare talked about the reporting of Quality Metrics calculations to USFDA and emphasized the importance of analytics and statistics in exploratory & descriptive studies and their monitoring. Dr Mukesh C Gohel, Reseach Director from Anand Pharmacy College and noted academician touched upon the pathway from Quality by testing, Quality by design and Process analytical technology to Quality Metrics meaning measurement. He showed the calculation of mandatory Quality Metrics and voluntary metrics like CAPA effectiveness, stable process etc using Minitab software and other statistical tools. Lastly, Mr Shailesh Patel, Head- Quality & RA from Cadila Pharmaceuticals gave a detailed account of various key performance indicators (KPI) to be discussed in Management Review Meeting for continued process and product quality monitoring and compliance. Lastly, about hundred participants took active part and obtained valuable tips and guidance in panel discussion program at the end moderated by Dr. Jayant Dave. All in all, the conference was a very enlightening and satisfying experience for one and all.

IPA- Pharmexcil- FDCA co-organized Technical Conference on Quality Metrics as per USFDA Guidance document recently held at Ahmedabad was a grand success. Dr. J. B. Dave has played a vital role in organizing the event right from planning to execution as Vice-President of Indian Pharmaceutical Association Gujarat State Branch. He served as master of ceremony in the inaugural session and moderated the concluding panel discussion with the learned six speakers at the end of the program.

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2nd February, 2017

The students of **BIT Mesra**, Ranchi and IPA Jharkhnad State branch organized **'Public Speaking' on** 2nd February' 2017 for pharmacy students in the auditorium of **Department of Pharmacy, Birla Institute of Technology,** Mesra. Ranchi.13 students were participated. Miss Asiya Khan, Mr Asutosh Sengupta and Gaurav were coordinators of programme. Dr. R.N.Gupta Ex Zonal Coordinator, APTI and Ex Vice-President, Indian Pharmaceutical Association and Dr Animesh Ghosh Faculty of Department of Pharmaceutical Sciences & Technology , BIT, Ranchi were judges. After programme the prizes were disributed to the winners by Dr. R.N.Gupta Professor of Department.The prize winners were Ist position -Namrata Sinha, 2nd position - Dharmik Joshi, 3rd position -Yashaswee Raman & Gali Punit Kumar and 4th Position -Rupa Seth. Dr. R.N.Gupta addressed on this occasion and inform about importance of becoming IPA member.

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2nd- 3rd February, 2017

Sinhgad Technical Education Society's Sinhgad College of Pharmacy (SCOP), Vadgaon, Pune, organised **Savitribai Phule Pune University sponsored two days National level seminar** on **"Advances in molecular biology & Biotechnology"** on 2nd and 3rd Feb. 2017. The seminar was aimed to explain different aspects of Pharmacogenomics & Proteomics. Faculty members from all over Maharashtra and PG students interacted

with renowed resource persons. Chief guest Dr. Kalpana Joshi, Professor & head of biotechnology, Sinhgad College of Engineering, Pune alongwith Dr. K. N. Gujar, Principal of college, inaugurated the seminar. Dr. Kalpana Joshi gave the overview of "Molecular & genomics approach".

Dr. Asha Salunke, Techical director, Bioera life science Pvt. Ltd. talked about "Molecular interventions in pharmaceutical sciences". Dr. Swati Shukla, Technology lead, Biomed innovations Pvt. Ltd, Pune explained "Basic technique in molecular biology". Dr. Sameer Chaudhary, CSO & cofounder, RASA Life Science Informatics, Pune shared "Structural studies of proteins for drug discovery".

Dr. Abhay Harsulkar, Professor of pharmaceutical biotechnology & scientist, IRSHA, Bharati Vidhyapeeth Deemed University, Pune nicely elaborated "Genomics & Netrigenomics: The emerging Science". Dr. Anjali Apte-Deshpande, Central Dogma Pvt. Ltd, Pune explained "Roadmap of Biotherapeutics: R&D to Clinical Trial". Dr. Millind Choudhari, Founder & CEO, Weinnovate biosolutions PVT. LTD, Pune elaborated "Molecular Biology: A Gateway to Future". Dr. Sandeep Kale, Associate Professor, Department of Biotechnology, ICT, Mumbai shared views on "Scalable Bioprocesses for Production of Biotech & Bio-based Products". Mr. Aniruddha Karve, Research Associate Dana-Farber Cancer Institute, Harvard School of Medicine talked on "Recent Advances in Molecular Biology Research". Prof. Rajkumari Sahane, Asst. Professor, Department of Pharmacology, coordinated the seminar.

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3rd- 4th February, 2017

Department of Pharmaceutical Science & Technology Satna (M.P.) Organized **2-Days National Conference** On **"Frontier Research in Natural Products: Opportunities And Challenges" Sponsored by Indian Council of Medical Research—New Delhi & MP Council of Science & Technology-Bhopal and Co-Sponsored by AKS University**, Satna on 3rd-4th February 2017. Around 300 participants – comprising; research scholars, under graduate and post graduate students and faculty members from Pharmacy, Science, Medical colleges and Ayurvedic colleges were participated in this program.

The inaugural function starts immediately after registration & breakfast. Presidential address was given by Shri. B. P. Soni, Hon'ble Chancellor, AKS University, Satna. The Chief Guest of the Inaugural session of the Conference was Dr. Ramesh K Goyal, Vice-Chancellor, Delhi Pharmaceutical Sciences & Research University (DPSRU), New Delhi. Dr. Paritosh K Banik, Vice-Chancellor, AKS University, Satna & Er. Anant K Soni, Chairman, AKS University, Satna were the Guests of Honor. Dr. Harshvardhan, Pro Vice-Chancellor (Dev.), AKS University, Satna & Dr. R.S.Tripathi, Pro Vice-Chancellor (Admn.), AKS University, Satna were the Special Guests. Other guests on the Dias include Prof. R.N.Tripathi, OSD & Chairman (Organizing Committee) & Dr. Surya Prakash Gupta, Associate Prof & Head, Department of Pharmaceutical Science & Technology (DPST) & Organizing Secretary. Prof. R.N.Tripathi, Chairman (Organizing Committee) welcomes the guest & delegates. Dr. Surya Prakash Gupta, Associate Prof & Head, DPST & Organizing Secretary briefed about the Conference. Various guests off the stage include our management team of the university, Shri Awnish Kumar Soni, Shri Ajay Kumar Soni & Shri. Amit Kumar Soni, Deans of various faculties, Directors & HOD's of various Departments of AKS University, Speakers, Guests, Delegates, participants and faculty members. The Souvenir Cum Scientific Abstract book was also released during the inaugural session of the National Conference. Organizing Secretary, proposed the Vote of Thanks.

There were four technical sessions. The Keynote lecture was delivered by Dr. Ramesh K Goyal, Vice Chancellor, Delhi Pharmaceutical Sciences & Research University (DPSRU), New Delhi On "From Concept To Reality In Herbal Medicine: Challenges and Opportunities". His lecture was followed by the first talk of 1st technical session of Dr. Vinod D. Rangari, Professor & Head, S.L.T. IPS, Guru Ghasidas University, Bilaspur on "Medicinal Plant Research and New Drug Discovery for Sickle Cell Disease: From Ethnopharmacological Claims to Commercialization".

Post lunch session started with the talk of Dr. Neeta Shrivastava, Assistant Director, Department of Pharmacognosy and Phytochemistry, B. V. Patel Pharmaceutical Education and Research Development (PERD) Centre, Gujarat On "Metabolomics: an Emerging Tool for

Efficacious Herbal Drugs". Her talk was followed by talk of Dr. Arun Gupta, Head, Medical Affairs & Clinical Research, Dabur Research & Development Centre, Dabur India Limited, Ghaziabad On "Herbal Drug Development: Regulatory Overview".

Second Day started with the 3rd technical session, in this, talk started with Dr. Richa Shri, Professor, Dept. of Pharmaceutical Sciences and Drug Research, Punjabi University, Patiala on "Search for Neuroprotective agents from plants-our journey", her talk was followed by talk of Dr.A.K.S. Rawat, Scientist & Head, Dept of Pharmacognosy & Ethnopharmacology, CSIR-National Botanical Research Institute, Lucknow on "the recent developments in herbal drug and role of quality in herbal formulations". Our next Speaker of this technical session was Dr. Ch V Rao, Principal Scientist, Dept of Pharmacognosy & Ethnopharmacology, CSIR-National Botanical Research Institute, Lucknow. He delivered his talk on "Herbal technologies and IPR for entrepreneurs development". After this, Dr. Sayeed Ahmad, Assistant Professor & In Charge: Bioactive Natural Product Laboratory, Department of Pharmacognosy and Phytochemistry, Faculty of Pharmacy, Jamia Hamdard, New Delhi gave his invited talk on "Chromatography in quality control of herbal drugs and botanicals".

Our post lunch session of second & concluding day started with the talk of Dr. Prasoon Gupta, Sr. Scientist, Natural Product Chemistry Division CSIR - Indian Institute of Integrative Medicine, Jammu on "Discovery of Marine Natural Products that Impact Human Embryonic Stem Cell Growth". Last speaker of this session was Dr. Ashootosh Tripathi, Research Investigator, Life Sciences Institute I University of Michigan, Ann Arbor, MI, USA. He delivered his talk on "Microbes to Medicine: Development of a Millennial Drug Discovery Platform".

In valedictory function, Dr. Sanjay Maheshwari, Director, Birla Hospital, Satna was the Chief Guest. The function was presided by Dr. P.K. Banik, Vice-Chancellor, AKS University, Satna. Er. A.K.Soni, Chairman, AKS University, Satna was the Guest of Honor. Dr. R.S.Tripathi, Pro Vice-Chancellor (Admn.), AKS University & Dr. Harshvardhan, Pro Vice-Chancellor (Dev.), AKS University, Satna were the Special Guests. Prof. R.N. Tripathi, OSD & Chairman (Organizing Committee) & Dr. Surya Prakash Gupta, Associate Prof. & Head, Department of Pharmaceutical Science & Technology & Organizing Secretary were also present on the stage. Research scholars, UG and PG students presented their research and review in the form of Oral & Poster Presentation. The winners of Oral & Poster competition received awards and certificates from the guests of the valedictory session.

Delegates had submitted their feedback and received certificates and dispersed after enjoying high tea. The Conference was successfully coordinated by teaching members namely Dr. (Mrs) Madhu Gupta, Mr. Prabhakar Tiwari, Mr. Ankur Agarwal, Mr. C.P.Singh, Ms. Priyanka Gupta, Mr. Pradeep Tripathi, Ms. Neha Goel, Ms. Shashi Chaurasiya, Mrs. Priyanka Namdeo and non-teaching staff members. Dr. Surya Prakash Gupta, Organizing Secretary, LOC summarized the events of two days National Conference and thanked all LOC members for their enormous contribution. The delegates expressed their satisfaction over the quality data presented at the various scientific sessions. The conference ended with a vote of thanks from Organizing Secretary and National Anthem.

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4th February, 2017

Sinhgad Technical Education Society's Sinhgad College of Pharmacy (SCOP), Vadgaon, Pune organised **Savitribai Phule Pune University** sponsored **one day state level seminar** on **"Design of experiments: bridging the gap between academic & industry"** on Feb. 4th, 2017. The seminar was aimed to explain different aspects of statistics in pharmaceutical field. Faculty members from all over Maharashtra and PG students interacted with renowed resource persons. Chief guest Dr. David Hanagal, Professor & head of department of Statistics, SP Pune University, Pune alongwith Dr. K. N. Gujar, Principal of college, inaugurated the seminar. Dr. David Hanagal gave the overview of "Applications of Statistics in Design of Experiments".

Dr. Jayant Bhinge, Scientist, QbD - Pharma Research, Lupin Research Park, Pune talked about "Design of Experiments(DoE): Overview of Industrial Practice". Dr. Remeth J. Dias, Professor & Director, Yashoda Technical Campus, Satara explained "DoE in Pharmaceutical Research". Dr. Piyush Chudiwal, Manager, Formulations, Sun Pharma, Mumbai shared "Business, R&D and Academics Perspectives of DoE".

Mr. Saurabh Sharan & Ms. Akshata Sapkal, Technical Managers, SYSTECH Technocraft Services, Mira Road (E), Thane-401107 nicely elaborated "DoE software Demonstration". Prof. Satish Mandlik co-ordinated the seminar.

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4th February, 2017

On occasion of **World Cancer** Day on 4th Feb 2017, **PSGVPM'S College of Pharmacy**, Shahada successfully organized **Public Awareness Rally & Street Act**. The motive of the rally was to create awareness about the prevention and management of cancer. Over 200 Students and staff members wholeheartedly participated in the rally. Rally was inaugurated by President of Mandal Hon. Dipak Patil. On this eve, Coordinator of Mandal Prof. Makarand Patil, Former Secretary of Trading Union Mr. Jadhav Patil, Secretary of Market Panel Mr. Hemant Chaudhari, and Principal Dr. S.P.Pawar were present. The rally evoked very good response amongst the local residents. Dipak Patil guided the residents about the cancer. He said, it is very ponderable that addiction is most commonly rising in young generation which may take him close to cancer and addiction is the main reason of family misery.

Pharmacy students started the rally from the main street of Shahada and also played street act on various residencies in Shahada. Through this street act, students delivered a great message about prevention of cancer among public. Chief Officer of Municipality, Shahada Dr. Sudhir Gavali & Assistant Police Commissioner Mr. Sanjay Chavan was present during the street act.

Principal Dr. S.P.Pawar guided & introduced the event. Programme Co-ordinator Dr. Laxmikant Borse anquered the event & vote of thanks by Mrs. Sandhya Borse. Mr. Rajesh Ahirrao, Mr. Vipul Jain & Madhuri Kanhere assisted to make this event successful. All teaching & nonteaching staff took an effort for this event.

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6th - 7th February, 2017

Sinhgad Technical Education Society's Sinhgad College of Pharmacy (SCOP), Vadgaon, Pune organised **Savitribai Phule Pune University** sponsored **Two days International level seminar** on **"Therapeutic Proteins: Challenges & Opportunities"** on Feb 6 & 7, 2017. The seminar was organised in view to understand the present scenario of Therapeutic Proteins in Health Care Profession. The different sessions in the seminar explained various aspects related to stability, quantitation, purification and formulation of biopharmaceuticals. The seminar received

an overwhelming response from faculty members and PG students. Chief guest Dr. Manjula Das, Managing Director at Beyond Antibody, Bangalore, India alongwith Guest of Honour Dr. Sandeep Kale, Associate Professor of Bioprocess Technology, DBT-ICT-Center for Energy Biosciences, Institute of Chemical Technology, Mumbai & Dr. K. N. Gujar, Principal of college, inaugurated the seminar. Dr. Manjula Das gave the overview of "A brief history of biotherapeutics". Dr. Sandeep Kale, gave a talk on "Bioprocessing for production of sale & efficacious Bio-pharmaceuticals.

Dr. Abijar bhori, Scientist, Enzene Biosciences Ltd. Bhosari, Pune talked about "Approaches for process characterisation in biopharmaceutical processes" and Dr. Gourishankar Aland, Scientist, Actorius Innovation & Research Pvt. Ltd., National Chemical Laboratory Innovations Park explained various aspects of "Antibody drug conjugates".

Prof. Jitendra Rajput, Dept. of Biotechnology (Engg.), Sinhgad College of Engineering, Pune shared his thoughts on "Stem Cells as Biotherapeutics" and Mr. Amit Lokhande, Ph.D. Tech. Research Scholar at ICT, Mumbai nicely elaborated points related to "Challenges in Protein formulation development"

Dr. Mahalakshmi Andheria, Vice President- Intellectual Property Cell, Panacea Biotec. Ltd., Navi Mumbai , explained " IP protection of Biopharmaeutical innovations". Dr. Smita Kale, co-ordinator of the seminar expressed her thoughts about "Excipients mediated stabilisation of therapeutic proteins".

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8th February, 2017

Loknete Hon. Hanmantrao Patil Charitable Trust, Vita sponsored **'One Day Workshop on Personality Development & Interview Techniques'** was conducted by **Adarsh College of Pharmacy**, Vita dated on 08th Feb 2017. The workshop was arranged with aim of developing competent and skilled Pharmacists for the first batch students of the college. All the students and teaching staff were actively participated in the workshop.

The workshop was inaugurated by Chief Guest Dr. Atul Shirgaokar,

Director, Insight Systems Inc. Pune., Guest of Honor Dr. R.J Dias, Principal, Yashodha Technical Campus, College of Pharmacy, Wadhe, Satara., Hon. Adv. Vaibhav Patil, President & Hon. P. T. Patil, Executive Director, Loknete Hon. Hanmantrao Patil Charitable Trust, Vita. Prof. N.S. Mahajan welcomed, felicitates and introduced all the dignities and speakers of the day. He also gives brief introduction and significance of workshop.

In the morning session Dr. Atul Shirgaokar delivered a lecture on different areas of Pharma jobs after completion of degree. Further Dr. R.J. Dias summarized requirements of values and characters to boosts the positive attitude amonst the students. In the afternoon session Dr. Shirgaokar explained about the facts how to write application letter in industry, meaning of Biodata, CV & Resume, Dressing sense, effective communication, how to face and what to prepare for interview whereas Dr. Dias delivered talk on how to grow confidence, strategies to find good qualities in people, how to set a goal of career and key way to become successful even after failures. At the end simple experimental demonstrations were conducted and motivational video clips were shared.

The workshop ends with acknowledging vote of thanks and High Tea.

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10th February, 2017

Third year B. Pharm. about 40 students of **Bharati Vidyapeeth College of Pharmacy,** Kolhapur, Maharashtra, were visited **VerGo Pharma Research Pvt. Ltd. Corlim.,** Goa on 10/02/2017. Mr. Prasil Kolhapurkar HR Head, and other officials of company has briefed the students about overall functioning of various departments including online registration of healthy human volunteers, Selection criteria of volunteers, Dosing schedule, collection, Testing & preservation of blood or urine samples. Patients hospitalization, providing food and necessary requirement during study. Interpretation of results. Regulatory guidelines for approve study protocol from Institutional Ethics Committees. The interactions with production incharge and their sub-ordinate were much informative to explore the students in real practical world of manufacturing. The department head at VerGo Pharma Research were also impressed with curiosity of our students to learn the subject related problems and how to deal with each. The students were accompanied by faculty of college Dr. Anilkumar Shinde (Training and Placement Officer), Prof. Firoj Tamboli, Mr. Sunil Mali & Mrs. Rameshwari Kulkarni. We are thankful to Mr. Prasil Kolhapurkar HR Head, for allowing a visit to their plant.

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11th February, 2017

Third year B. Pharm. about 40 students of **Bharati Vidyapeeth College of Pharmacy,** Kolhapur, Maharashtra were visited **Cipla Ltd**, Verna, Goa on 11/02/2017. Ms. Ranjita Marwaha, HR Manager and other officials of company has briefed the students about overall functioning of various departments including Quality control, Quality assurance, Store department, Granulation (Shifting, Blending, Milling, Drying, Screening),Tablets compression, Inspection of defective Tablet, Tablet coating, Packaging of Tablets in container, Blister type of packaging and Layout of Tablet department. The interactions with production incharge and their sub-ordinate were much informative to explore the students in real practical world of manufacturing. The department head at Cipla Pharma were also impressed with curiosity of our students to learn the subject related problems and how to deal with each. The students were accompanied by faculty of college Dr. Anilkumar Shinde (Training and Placement Officer), Prof. Firoj Tamboli, Mr. Sunil Mali & Mrs. Rameshwari Kulkarni. We are thankful to Mr. Ijaj Khalif Technical II Manager, Mr. Gurudatta Satarkar, Technical IV Manager & Ms. Ranjita Marwaha for allowing a visit to their Unit III plant.

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11th February, 2017

Vivekanand Education Society's College of Pharmacy had organised its **5th Annual Alumni Meet** on Saturday, 11th February, 2017. The Formal Function was initiated with Lighting of the Lamp which was followed by the felicitation of our Chief Guest Mr. Sushant Raorane, Director, Adroit Biomed Ltd.

Welcoming and greeting everyone Dr. Supriya Shidhaye addressed the gathering. She requested the alumni members to share their experiences and make their young pharmacist friends aware about the present professional market and research. This was followed by an emotional appeal by Shri. B. L. Boolani, founder trustee in-charge, to all alumni to frequently visit their alma mater and interact with students.

This was followed by a thought provoking speech by Mr. Sushant Raorane a young entrepreneur himself. He emphasised the need for goal planning by students at an early stage, which is very essential for future endeavours. He cast a spell over the audience with his simple, precise, easily understandable and dynamic style of interaction. He also advised the students to improvise their interpersonal skills and tactfully make decisions pertaining to their career.

The highlight of the meet was the release of Fifth edition of Newsletter "Alma Matters" by the dignitaries along with Dr. Sandip Zine and our Alumni Cell Members.

The Formal Function was followed by a session named as the 'Alumni Talk' where six of our most experienced Alumni Members shared their journey. Namely, Mrs. Suvarcha Sood Shah our first batch student, currently working as a senior scientific assistant at Aristo Pharma, Mr. Vivek Singh, an analyst at Value Edge, Adrian Sequeira a Medical Representative at Sanofi, Mr. Vishal Rokade, Ms. Priya Damani medical representative with Sanofi and last speaker being Mr. Rajas Karnik who worked as a Business Development Manager for one of the world's biggest pharma giants, Glaxo SmithKline and currently pursuing his MBA. All the alumni had nostalgic memories and thanked all the faculty members profusely for shaping their careers. All they felt that faculty of VESCOP treat students as their own children and inspire them. Because of their excellent formative years at VESCOP they are growing well in their professional career. Ms Damani even told that how women should come out of their stereotypes and enter male bastion like she had done to get into a career in sales.

This was followed by announcement of best Alumnus of the year in Undergraduate category. The award went to Mr. Nilesh Badhe for his noteworthy achievements in profession and contribution towards the Institute.

Towards the end of the formal function Miss. Nida Memon, Alumni cell member thanked all Alumni and Dignitaries for their presence and encouraged to strengthen their ties with VESCOP.

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11th February, 2017

On the eve of World Leprosy Eradication day, an invited lecture was arranged by Periyar Health Club of Periyar College of Pharmaceutical Sciences, Tiruchirappalli, TamilNadu on 11th Feb. 2017. Prof. Dr.R. Senthamarai, Principal welcomed the gathering. Dr. A. Shanthi, M.B.B.S., DD., Deputy Director of Medical Services, Trichy delivered an awareness lecture on leprosy - one of the oldest recorded diseases in the world. She enunciated that leprosy is an infectious disease that has been known since biblical times. It is characterised by disfiguring skin sores, nerve damage and progressive debilitation which affects relatively few people globally. The bacteria Mycobacterium leprae causes leprosy which has an incubation period of upto seven years, making the spread much harder to predict. Effective multi-drug therapy is provided by the Government at free of cost and it is completely curable. Dr. A. M. Ismail, Emeritus Professor, PCPS, Mr. K. Perumal, District Health Educator (Leprosy), Trichy and Health Inspectors Mr. Vijaya Guruvu, Mr. Zakir Hussain and Mr. Kumar graced the programme. Faculty & Students of the institution attended the programme. Dr. T. Shri Vijaya Kirubha, Secretary, Periyar Health Club proposed vote of thanks.

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11th February, 2017

Manipal College of Pharmaceutical Sciences organized "Manipal IPCs (23rd IPC 1972, 42nd IPC 1990 and 62nd IPC 2010) funded

MCOPS Golden Jubilee Commemoration lecture" and Alumni meet on 11 February 2017 forenoon.

Dr George Patani, Director, Inga Laboratories Pvt. Ltd., Mumbai delivered the Commemoration Lecture on "Industry-Institute Interaction for Pharmaceutical skills development" and highlighted the nature of ongoing industry-institute interactions and the challenges in collaborative research. He emphasized on the necessity of training and practice based education at the institutes. The program was chaired by Dr MK Unnikrishnan and Dr CS Shreedhara, Professors, MCOPS.

The lecture was followed by the Alumni Meet, wherein Dr Patani, being the alumnus addressed the gathering and shared his Manipal experience. He stressed on the need for discipline and adequate preplanning in students to excel in life. The Alumni Meet was coordinated by Dr D Sreedhar, Associate Professor, MCOPS.

Alumni, faculty and students of MCOPS attended both the events.

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"**Purpose is more important than need**" said Shri Ganesh Nayak, COO & Executive Director – Cadila Healthcare Ltd.

MCOPS celebrated its 54th Awards and Annual Day 2017 on Saturday, February 11, 2017 evening at TMA Pai Hall, KMC, Manipal. The function was presided by the Chief Guest Shri Ganesh Nayak, Cadila Healthcare Ltd., Ahmedabad. Dr George Patani, Director – Inga Laboratories Pvt. Ltd, Mumbai was a Guest of Honor.

Dr C Mallikarjuna Rao gave a brief account of the events of significance of the year 2016. He said it is the time for evaluation and reflection. Dr Vinod Bhat, Vice Chancellor, Manipal University graced the occasion with his presence. In his address, he appreciated the remarkable achievements of MCOPS in research output.

Shri Nayak said consistency of purpose, commitment to effort and responsibility for results are the three themes that lead the organization to top level. Further he added that competence, confidence, communication, consistency and consciousness are the keys for the success of an individual. He advised the students and the gathering, to give more importance to the purpose saying "Purpose is more important than need".

Dr M K Unnikrishnan (Professor and Head, Department of Pharmacy Practice, MCOPS) was given the 'Life Time Achievement Award' at the function for his long, distinguished service in MCOPS. Dr George Patani was conferred with the 'Outstanding Alumnus Award' for his success as a pharmaceutical researcher and administrator. Good Teacher Awards for excellence in teaching went to Dr K Sreedhara R Pai, Dr M Surulivel Rajan and Dr Alex Joseph. Dr Srinivasa Mutalik secured the "Teacher of the Year" Award. Ms. Shwetha Shetty received the "Best Supporting Staff" Award. Students who excelled in academics in various programs received endowment awards and certificates.

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11th February, 2017

One day State level Seminar on "**Quality Management and Quality Assurance in Pharmaceutical Industry**" Sponsored by **Savitribai Phule Pune University**, Pune was organized by Dept. of Pharmaceutical Chemistry, Dr. D. Y. Patil Institute of Pharmaceutical Sciences & Research, Pimpri on 11th February, 2017.

The Seminar was focused on the Quality assurance and quality management of different Pharmaceutical Products. Around 70 delegates from the various institute actively participated in the seminar. The Seminar began with the inauguration by Mr. Shailesh Darakh, Manager (Quality Assurance), Gennova Biopharmaceuticals Limited, Pune and Principal, Dr. S. S. Chitlange. Dr. S. B. Wankhede, gave the Keynote address and briefed the Seminar's theme. The first session begins with Mr. Shailesh Darakh, on "Quality assurance of biologicals". He emphasized on, Biosimilar Production and quality assurance of Biosimilars. He also

discussed about the functioning of quality management systems in biotechnology industries. First session was followed by the session by Mrs. Princy Achankunju, Dy. General Manager - Project Management, Lupin Research Park, Pune. She delivered a talk on "Project Management and the Triple Constraints". She focused on the role of Tripal Constraints - Scope, Time and Cost in the project management and its usefulness on the Quality assurance and Quality management of the final product. The post lunch session articulated by Mrs. Priti Jamkar, Manager, Lupin

Limited, Pune. She spoke on "Quality Management and Quality Assurance for API Manufacturing in Pharmaceutical industry". Her emphasis was on API manufacturing and applying Tripal Constraints - Scope, Time and Cost for the same. She correlated the effect of Tripal constraints on quality management and quality assurance of API manufacturing. The last session was delivered by Mr. Vaibhav Kulkarni, Assistant General Manager, Sai Life Sciences, Hinjewadi, Pune. He delivered a talk on "Drug Regulatory and Patent Linkage in the United States". He mentioned the importance of Patents of the quality products manufactured in Pharmaceutical Industry. He described the detail procedure and costs involved in patentin of products in India and USA. Seminar concluded with vote of thanks by Dr. S. B. Wankhede and certificates distributed to delegates.

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16TH February, 2017

VES College of Pharmacy (VESCOP) is the 24th jewel in the crown of prestigious **Vivekanand Education Society** (VES), Chembur, Mumbai. The college was founded in 2007 with a goal to impart quality education in pharmacy. Very recently, the B Pharm programme of the college received NBA accreditation for academic yrs. 2016-17 and 2017-18. As part of celebration of 10th year of VESCOP, the IQAC of the college had organised one day seminar entitled, "Let's Do NBA Accreditation" in collaboration with APTI, Maharashtra State Branch to increase awareness about NBA and motivate all professional courses to go for NBA accreditation on 16th February 2017.

The seminar was inaugurated by Dr C D Upasani, President, APTI, MS state branch. In his inaugural address, Dr. Upasani highlighted the importance of outcome based education. He emphasized that any education which is student centric and focuses on development of the student can be termed as outcome based education. He appreciated the efforts taken by VESCOP to impart quality education, industrial collaborations and research in the short span of 10 years. He further revealed his vision and activities to be planned by APTI in the years to come. Dr. Jharana Das, Chief Coordinator of the college, felicited Dr Upasani for being elected as the President of the state APTI. Principal, Dr Supriya Shidhaye briefed the developmental activities being undertaken by college and expressed her views on the organizing this seminar. She further acknowledged Founder trustee Shri. B.L. Boolaniji for his constant support and guidance to the institution to move forward.

The resource persons included Dr Supriya Shidhaye, Dr Rakesh Somani, Mrs Ashwinin Wani and Mrs Vidhi Bhatia, all of them belonging to VESCOP. They shared their experiences and elaborated on various criteria as per the SAR. A panel of VESCOP staff was also present for the discussion during Q and A session, which was very appreciated by the attendees.

The seminar was attended by more than 30 teachers from various Pharmacy colleges affiliated to University of Mumbai and it was great success as participants expressed their satisfaction during the valedictory function. Vote of thanks was proposed by Dr Rakesh Somani, Coordinator of the seminar. The programme ended with National Anthem.

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21st February, 2017

Vignan Pharmacy College in Collaboration with UCO Bank, Vadlamudi conducted an **awareness compaign on digital financial literacy** program for cashless transaction on 21.02.2016 to all its students and employees. During this Program bank officials Mr. Sibaji Tripati and Mr. Bhargava enlightened the student son internet banking facilities POS, transactions, Micro, ATM services, GMPS, NEFT & RTGS facilities, UPI Gateway and mobile wallet services. The program was focused on registering and enrolling for Cashless transactions. The importance of demonitisation and the high need of cashless transactions was emphasized with AV presentations. The students were taught to

conduct cashless transactions in a safe & secure manner with both feature & Smart Phones. The students and faculty are encouraged to be careful with cashless transactions by not disclosing OTP, PIN Number, Passwords and Card Information.

Principal Dr. P. Srinivasa Babu thanked the bank officials for creating awareness among the students.

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Ph.D AWARDEES

Dr. G. Prakash Yoganandam, M.Pharm, Ph.D., Assistant Professor, Department of Pharmacognosy, College of Pharmacy, Mother Theresa Post Graduate and Research Institute of Health Sciences (MTPG&RIHS), A Government of Puducherry Institution, Pondicherry was awarded Ph.D degree in the Faculty of Pharmacy of Sri Ramachandra University, Porur, Chennai on the 21.12.2016. The title of his thesis "**Pharmacognostical, Phytochemical, Pharmacological and Phytopharmaceutical studies on an official Siddha anti-diabetic kudineer formulation**". He worked under the guidance of Prof. Dr.V.Gopal, Principal, College of Pharmacy, MTPG&RIHS, Puducherry. He has 52 numbers of papers to his credit; he has presented more than 70 papers in various national and international conferences. He has filed a patent (Ref.No: E-2/2344/2016-CHE. Application no. 201641026719) based on his research.

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Mr. Tambe Vijay Dnyandeo, working as an Assistant Professor, Department of Pharmacognosy, Pravara Rural Education Society's, Pravara Rural College of Pharmacy, Pravaranagar, Maharashtra has been awarded the degree of Doctor of Philosophy (Ph. D) in Pharmacy by Vinayaka Missions University, Salem, Tamilnadu on 06 January, 2017 for his research work entitled "**Analgesic, Anti-inflammatory ointment formulation from** Hibiscus tiliaceus and Hibiscus cannabinus linn". The research work was carried out under the guidance of Prof. Dr. R. S. Bhambar, Principal, MGV'S College of Pharmacy, Panchavati, Nasik. Dr. Tambe has more than 11 years of teaching and industrial experience. He is approved as a PG Teacher by Savitribai Phule Pune University, Pune. He has guided 41 students of UG and 06 students of M.Pharm (Pharmacognosy) for their dissertation. He has 23 published research and review articles in various indexed, peer-reviewed national and international journals. He is life member of Association of Pharmaceutical Teachers of India (APTI). Dr. V. D. Tambe serves as a reviewer of reputed scientific journal. He is heartly thankful to his Guide, well-wishers and colleagues for their motivation, kind support and cooperation.

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Ajay Bilandi, working as Assistant Professor, Department of Pharmaceutics, Seth G.L. Bihani S.D. College of Technical Education, Sri Ganganagar, Rajasthan, has been awarded the degree of Doctor of Philosophy (Ph.D) in Pharmacy in April 2016 from Bhagwant university, Ajmer, for his research work entitled "**Design and Evaluation of Ion Exchange Resin Based Taste masked Drug Delivery System**". The research work was carried out under the guidance of Prof. (Dr.) Amiyakanta Mishra, Principal, Puri College of Pharmaceutical Sciences, Puri, Orrisa. Dr. Ajay Bilandi has more than 9 year of research & teaching experience. He has more than 50 publications with high impact factor journals. He is the life member of APTI. He sincerely acknowledges to Family, Guide, the Management, Principal, teaching and nonteaching staff members of Seth G.L. Bihani S.D. College of Technical Education, Sri Ganganagar, Rajasthan, for their help, encouragement and co-operation during course of research work.

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Dr. Shivshankar D Mhaske, working as an Assistant Professor, Department of Pharmacology, IBSS, Dr Rajendra Gode College of Pharmacy, Malkapur Maharashtra has been awarded the degree of Doctor of Philosophy (Ph.D.) in Pharmacy by Pacific Academy of Higher Education and Research University (PAHER) th Udaipur, Rajasthan on 17 Sep 2016, for his research work entitled "**Development and Evaluation of Novel Topical Formulations for Skin Diseases**". The research work was carried out under the guidance of Dr. Syed Ayaz Ali, Associate Professor,

Department of Pharmacology, Y. B. Chavan College of Pharmacy, Dr. Rafiq Zakaria Campus, Aurangabad. Dr.Shivshankar D Mhaske has 04 years of teaching with 02 years industrial experience , He has 22 scientific publications and one book in international publication to his credit. He is a life member of Association of Pharmacy Teachers of India. Dr.Shivshankar D Mhaske serves as a reviewer of several reputed scientific journals. He is heartily thankful to his Guide, well-wishers and colleagues for their motivation, kind support and cooperation.

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Rajesh B. Patil, working as Assistant Professor, Sinhgad Technical Education Society's, Smt. Kashibai Navale College of Pharmacy, Kondhwa (Bk), Pune, Maharashtra, has been awarded the degree of Doctor of Philosophy (Ph.D) in Pharmaceutical Sciences by Jawaharlal Neharu Technological University, Hyderabad, (T.S.) for his research work entitled "**Design, Synthesis and Pharmacological Evaluation of Chromenones and Related Analogues**". The research work was carried out under the guidance of Dr. Sanjay D. Sawant, Principal & Professor, Smt. Kashibai Navale College of Pharmacy, Kondhwa (Bk), Pune-48. Dr. Rajesh B. Patil has more than 19 year of research & teaching experience. He has 13 publications in peer reviewed and high impact factor journals. He successfully carried out Board of College and University Development, Savitribai Phule Pune University funded research projects (2012-14) as a principal investigator. He is life member of APTI. He sincerely acknowledges Hon'ble Prof. M. N. Navale, Founder President, Sinhgad Technical Education Society, Pune for constant encouragement and support. He also acknowledges faculty at Department of Pharmaceutical Sciences, JNTU, Hyderabad; teaching and nonteaching staff members of Smt. Kashibai Navale College of Pharmacy, Pune, for their help, encouragement and co-operation during his Ph. D work

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Dr. Sandeep Shivaji Pathare, Assistant Professor, Department of Pharmaceutical Chemistry, Poona College of Pharmacy, Pune, Maharashtra has been awarded the degree of Doctor of Philosophy (Ph. D.) in the subject of Pharmaceutical Chemistry under the faculty of Pharmaceutical Sciences by Bharati Vidyapeeth Deemed University, Pune.

He has carried out research work entitled, "**Design and Synthesis of New Antifungal Agents**" under the guidance of Dr. V. M. Kulkarni,

Professor Emeritus, Department of Pharmaceutical Chemistry, Poona College of Pharmacy, Bharati Vidyapeeth Deemed University, Pune & Formerly, Professor and Head of Pharmacy Division, UDCT/UICT, Mumbai.

He has total 13 years of teaching experience and has published 12 research papers in international journals. He has attended and presented research work in various conferences, symposia and workshops. He is a life member of APTI and a Registered Pharmacist in Maharashtra State Pharmacy Council.

He deeply acknowledges to Dr. V. M. Kulkarni, research guide, Dr. Shivajirao Kadam, Vice-Chancellor, Bharati Vidyapeeth Deemed University, Dr. K. R. Mahadik, Principal, Dr. A. P. Pawar, Dean & Vice-Principal, Management, all staff of Poona College of Pharmacy, Pune and his wife, Mrs. Yogyata for their support and cooperation during the entire course of research work.

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Miss. Vaishali Madhukar Mute has been awarded with the Degree of Doctor of Philosophy (Ph. D) in Pharmaceutical Sciences by Bharati Vidyapeeth Deemed University, Poona college of Pharmacy, Pune,under the quality improvement Programme by All India Council of Technical Education,New Delhi. Dr. Vaishali Madhukar Mute has completed her research work entitled **"Study of antidepressant activity of some synthetic compounds in laboratory animals"** under the guidance of Dr.Subhash L. Bodhankar.She has enriched with more than 11 years of research and teaching experience. Currently, she is working with, JSPM's Rajarshi Shahu College of Pharmacy & Research, Tathawade, Pune. She has 19 scientific national and international publications to her credit. She has presented various papers in national and international seminars & conferences

She deeply acknowledges Prof. Dr. K.R.Khandelwar, Principal, Rajarshi Shahu College of Pharmacy & Research, Tathawade, Pune. and Hon. Shri. T.J. Sawant, Secretary, Jayawant Shikshan Prasarak mandal.

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KUDOS

Felicitation of **Dr. Naresh Gaikwad**, former Professor & Head of Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University was organised at Tuli International Hotel, Sadar, Nagpur on 2nd January, 2017.

The "Jeevangaurav Sanman' was awarded to Dr. Gaikwad at the hands of Chief Guest Hon'ble Dr. Vedprakash Mishra, Chancellor, Krishna Institute of Medical Sciences, The function was presided by Hon'ble Dr. Siddharthivinayak Kane,Vice Chancelllor,Rashtrasant Tukadoji Maharaj Nagpur University, The Guest of Honor were Dr.P.G.Yeole, Pro-Vice Chancelllor, Shri Puranchandra Meshram,Ragistrar, Hon'ble Dr.G.S.Parashar, Vice Chancellor,Indian Maritime University,Chennai .Dr.(Mrs.) J.G.Avari,Head Pharmacy Dept..Dr.V.V.Parashar, Ex-Head, Pharmacy Dept.,,Dr.Anwar Daud,Chairman,Feliciatation Committee,Dr.Mohan Kale,Co chairman shared the dias.

Replying to felicitation, Dr.Gaikwad said that he was inspired by Dr.Babasaheb Ambedkar who stressed on study,organisation and fight for justice and one should follow these ideals at any cost.These ideals lead to the development of Individual and inturn Nation and Society at large.He said that he worked for the development of the Dept as a mission The Dept. was accredited in his tenure by National Board of Accreditation AICTE,New Delhi,the only accredited University Dept. in India. He gave credit of his success to Dr.Vedprakash Mishra,Dr.G.S.Parashar,Dr.V.V.Parashar,all the Teachers,Ph.D.Scholars,Students and Non teaching staff.

Dr. Maya Gaikwad,wife of Dr.Gaikwad, enlightened the gathering about the work and dedication of Dr.Gaikwad for the development of Dept.and her life journey in details.

Introductory speech was delivered by Dr Mohan Kale.In his speech he spoke on the important role played by Dr.Gaikwad for motivating,guiding and encouraging the Teachers, Students,Non teaching staff and Pharmacy professionals. Dr.(Mrs.) Walde highlighted the life sketch of Dr.Gaikwad..

All the Speakers expressed their views regarding his ideals, work ,determination and contribution for the development of the Dept.His excellence related to academic, research and administration was applauded which brought glory to the Dept.

The program were compared by Mrs. Ashmita Deshpande and vote of thanks was given by Dr, Suresh Motwani,Secretary of felicitation Committee.

All the members of the Organizing Committee, Students,Teachers, friends and colleagues were taken efforts for the success of the program.

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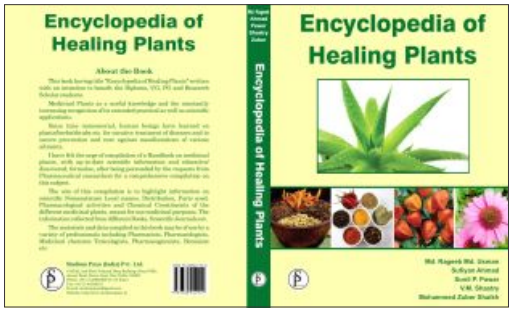

Mohammed Zuber Shaikh written International book entitle "**Encyclopedia of Healing Plants**" Published from Studium Press (India) Pvt. Ltd. New Delhi, ISBN: 978-93-80012-91-9 Available at Online etc.

This book having title "Encyclopedia of Healing Plants"written with an intention to benefit the Diploma, UG, PG and Research Scholar students.

Medicinal Plants as a useful knowledge and the constantly increasing recognition of its extended practical as well as scientific applications.

Since time immemorial, human beings have learned on plants/herbs/shrubs etc. for curative treatment of diseases and to secure prevention and cure against manifestations of various ailments.

I have felt the urge of compilation of a Handbook on medicinal plants, with up-to-date scientific information and educative/discovered, formulae, after being persuaded by the requests from Pharmaceutical researchers for a comprehensive compilation on this subject.

The aim of this compilation is to highlight information on scientific Nomenclature Local names, Distribution, Parts used. Pharmacological activities and Chemical Constituents of the different medicinal plants, meant for use medicinal purposes. The materials and data compiled in this book may be of use by a variety of professionals including Pharmacists, Pharmacologists, Medicinal chemists Toxicologists, Pharmacognosists, Botanists etc.

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Md. Rageeb Md. Usman, Mrs. Surekha D. Salgar, Dr. Navneet Nagpal & Dr. Mohammed Zuber Shaikh written International book entitle **"Poisonous Herbal Plants"** Published by Educreation Publishing having ISBN-10: 1618135465, ISBN-13: 978-1-61813-546-9. Available at amazon, flipkart, Google play, bookscamel, infibeam, INGRAM, amazonkindle etc.

This book acknowledged importance study of Medicinal Plants and the constantly increasing recognition of its extended practical as well as scientific applications.

Since time immemorial, human beings have learned on plants/herbs/shrubs etc. for curative treatment of diseases and to secure prevention and cure against manifestations of various ailments.

In this context the goal at this book is to provide the update knowledge to the students in the professional programmed at their study.

The discovery of drug is tremendously increasing due to the great advancement bioassay screening isolation techniques and structure elucidation.

The objective of this book is to spot a light on the brief introduction of about Poisons herbs and plants to the students and researchers.

In the present global scenario, natural medicines are gaining prominence; because they are available at economical prises and relatively free from most of adverse drug effects or so called side effects. We have made every effort to avoid errors, clarify unmeaning words, and printing errors, but sometimes at then may arise in present edition, we would correct and/or omit hem in subsequent editions.

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Dr. Jayvadan Patel, Professor of Pharmaceutics, Nootan Pharmacy College and Dean, faculty of Pharmacy, Sankalchand Patel University, Visnagar, Gujarat and President of APTI, Gujarat State has attended International Conference on Nanomedicine and Nanobiotechnology-2016 held at University Pierre and Marie Curie, PARIS during 28th to 30th September-2016. Dr. Patel orally presented a research paper entitled "Enhanced antifungal activity of Itraconazole by the supercritical antisolvent technique" in this conference and received fruitful comments and words of appreciation from the international research fraternity gathered for this in demand event. He has received international travel grant form SERB/DST for presentation (ITS/3263/2016-17). He has more than 20 years of academic and research experience, has published more than 225 research and review papers in international and national peer reviewed journals and 28 books/chapters. He has presented more than 150 research papers at various international and national conferences as author and coauthor. Dr. Patel has presented 31 research papers at various international conferences (overseas). Dr. Patel has guided 32 PhD; 88 M Pharm students for dissertation work and 08 students are currently pursuing their PhDs under his guidance. Dr. Patel is recipient of very prestigious "**APTI Young Pharmacy Teacher Award-2014**" by Association of Pharmaceutical Teachers of India and Fast Track Young Scientists Award by SERB (Department of Science and Technology), Government of India. He holds one patent. He has completed 10 research projects of Rs. 13 Million sponsored by AICTE/GUJCOST/DST/SERB/DBT/BRNS, India. He has organized twelve National seminars/workshops/ conferences, one staff development programme, two popular lectures on biotechnology and two refresher course organized as coordinator sponsored by AICTE /GUJCOST /DST/SERB/DBT/GSPC, India.

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Office executive and accountant by profession, **Mr. Jaspal Chaudhary** has scaled new heights in his passion for sports by claiming **HALF IRONMAN** status awarded to some selected sport adventures by Chennai trekking club on 17/12/16. Mr. Chaudhary in mid thirties participated in a national sport event Chennai triathlon 2016 and ranked 15 among 52 successful participate. The challenge was to complete triple task of 1900 meter swimming, 90 km cycling & 21 km running in less than 9 hrs. time in all. (1.9 K swim, 90 K cycle, 21 K run). Jaspal swimmed unknown water Quarry in just 55 minutes, Cycled his way in 3 hrs and ran the track in 3.30 hours. All put together in 7.30 hrs out of 9 hrs. maximum allotted time. This is a brave mans task. We sincerely appreciate his spirited achievement and take due pride in our colleague's feat. SSPC family wish him all the best to become ironman in the times to come.

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B.Pharm. students of **Shri Sarvajanik Pharmacy College**, Mehsana have attended The Ramanbhai Foundation 8th International Symposium on

Astha Sanyal

Yash Patel

Saurabh Patel

Rajat Chaudhary

Kinsuk Sarker

Current Trends in Pharmaceutical Sciences "Advances in New Drug Discovery & Development" at Zydus Research Centre, Ahmedabad, Gujarat on 2-4 February 2017 and presented their scientific works under the guidance of Prof. Dr. Dhrubo Jyoti Sen: (a) Astha P. Sanyal, Yash B. Patel; Bioisosteric synthesis and U.V. spectral behaviour of tetra-azo fused ring pyrazolo-tetrazine and pyrazolo-triazine moieties having variable hetero atoms oxygen/sulfur/nitrogen potential for partition coefficient (Published in World Journal of Pharmacy and Pharmaceutical Sciences in 2016: Impact Factor: 6.647) (b) Saurabh Patel; Get slim to fulfill the dream (Published in World Journal of Pharmacy and Pharmaceutical Sciences in 2016: Impact Factor: 6.647) (c) Rajat Chaudhary; Chemistry of dark red coloured liquid tissue having deep metallic odour through oxygenated α,β-unsaturated aldehyde (Published in European Journal of Pharmaceutical and Medical Research in 2015: Impact Factor: 4.161) (d) Kinsuk Sarker; Posological dose of therapeutics over prophylaxis in toxicological serendipity (Published in International Educational Scientific Research Journal in 2016: Impact Factor: 4.471, DOI: 10.21276/2455-295X)

The RBF Symposium, with its unique focus and format has over the past several years that created an unparalleled knowledge-sharing platform for scientists across the globe from both academia and industry engaged in drug discovery & development. Distinguished lectures and information exchange that have been hallmarks of the event continued for three days. Interactive panel discussions at the end of each day made a key feature this year as deliberated on the unmet medical needs and key learnings from the sessions.

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Mohammed Rageeb Mohammed Usman, Bharat Vijaykumar Jain, Dr. Neelesh Chaubey, Dr. Upendra Nagaich & Dr. Deenanath written

International book entitle "GATE/GPAT Pharmaceutical Sciences (PY) Solved Q. Papers (1988 TO 2012) With Model Exercise Papers" ISBN 978-93-24457-16-2 Published from Success Publication PVT. Ltd. Available at Website and Social Media etc.

Releasing of Book by Dr. Dinesh Jaiswal (Senior Partner/VP Pharmaceutical Operation-Achlis Group, New York, USA), Dr. Pradeep Visen (Nutra V. Inc., Toronto, Cadada), Dr. Upendra Nagaich (SPER Secretary), Tarseem Jain (Pharma Pramarsh, Rohtak) in International Conference and Exhibition at Jaipur National University, Jaipur on 3-4 March 2017.

Due to reliability and objective nature the Multiple Choice Questions (MCQs) are widely used in entrance tests, competitive examination and at some places in certifying examinations. However, MCQ items have been criticized mostly for their lack of relevance to the core or essential learning objectives, because they mostly tend to emphasize on the rare or the unusual. It is therefore of utmost importance to induct MCQ items which test knowledge, understanding and application ability of the student in relevant areas. This book attempts to introduce a series of GATE/GPAT Q. Paper from 1988 to 2012 with Model Exercise Paper. MCQs are also an important method of self study and self assessment.A mental exercise in the considerations that underlie choice of one drug over the other in specific situations has to be practiced.

We got gradually involved in the interesting task of guiding the B. Pharm. students for GATE, GPAT, PET, MH-CETan exam which shapes the life of students. The person with good technical "know how" can make abright career that is for sure. Hence Students are strongly recommended to pursue M. Pharm. of course M. Pharm. is just a stepping stone in a long career path. For doing M. Pharm. from a good reputed institute one needs to have good GATE, PET, CET percentile score.

GATE, GPAT, PET, MH-CET is a competitive exam involving Multiple Choice Questions (MCQs). Normally students are not trained to solve (MCQs).

The third and final year B.Pharm. students who wish to work hard for GATE, GPAT, PET, MH-CET can pick up this book.

1) You know the correct answer and hence you select correct option.

2) You do not know the correct answer. Therefore you try to eliminate the options which appear to be wrong. Thus by process of elimination (wrong options) you rich to the most probably correct option.

3) You do not have faintest idea what the question and options are.

Writing this book is modest enough to produce a test pattern guide for B. Pharm. student who are appearing for GATE, GPAT, PET examination. Pharmacy education is continually evolving most colleges and schools of pharmacy are now appearing M. Pharm. program appearing at GATE, GPAT, PETis a must to secure admission into a good PG college.

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Md. Rageeb Md. Usman Conferred with Young Teacher Award by Dr. Alok Khunteta (Registrar, Rajasthan State Pharmacy Council) & Dr. Upendra Nagaich (SPER Secretary) in International Conference and Exhibition at Jaipur National University, Jaipur on 3-4 March 2017.

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Md. Rageeb Md. Usman was invited as a **Chairperson for Scientific Session** during the Conference.

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Prof. Anant Hardas, Life member of various National Pharma Associations, including yours , and founder director of Indian Pharma Guidance Academy, Nagpur has presented slide show on history of Indian Pharmacy – Pharmacopoeia & Pharmacology , at the recently concluded – annual general Indian Pharmacology conference (Golden Jubilee) celebrations held at Indira Gandhi Institute of Medical Sciences held at Patna .

The slide show was highly appreciated by all the august audience and were delighted to see the first graduate in pharmacy (Mr. Subhadra Kumar Patni) first Post Graduate – Prof. G.P. Srivastava) and first PhD in pharmacy (Mr. Sheo Vihari Lal) and also he narrated the story of LSD and how it was experienced and narrated by Prof. P.C. Dandiya , when he was Prof. and HOD of department of Pharmacology at SMS Medical college, Jaipur.

Prof. Hardas also outline the pharmacological development in India and explained the contribution done by late Prof. Sir, Ram Nath Chopra and his associates . Prof. Hardas was felicitated on this occasion with the presentation of Madhuban painting of Bihar and was honord with special gift. The program ended with vote of thanks proposed by the secretary Indian Pharmacology association , Bihar branch.

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ACHIEVEMENTS

Dr. Sushil Kumar Kashaw honored with APP Young Scientist Award-2016, for his significant scientific output, Dr. Sushil Kumar Kashaw, Assistant Professor (Stage-III), Department of Pharmaceutical Sciences, Dr. Harisingh Gour University (A Central University), Sagar, M.P.-India, was felicitated with 'APP Young Scientist Award 2016' by Prof. George B. Corcoran, Chair, Department of Pharmaceutical Sciences, Eugene Applebaum College of Pharmacy & Health Sciences, Wayne State University, Detroit and Dr. Arun K. Iyer, Director, Use-inspired Biomaterials & integrated Nano Delivery (U-BiND) Systems Laboratory, Department of Pharmaceutical Sciences, Wayne State

University, Detroit, on January 12, 2017 on the occasion of National Pharmacist Day at Wayne State University, Detroit, Michigan, USA.

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Association of Pharmacy Teachers of India (Karnataka Unit, KAPTICON) has selected Dr. A.R. Shabaraya, Principal & Director, Srinivas College of Pharmacy, Valachil, Mangalore for the prestigious "BEST PRINCIPAL OF THE YEAR AWARD 2016".

His selection is based on dedication, duty mindedness, research skills administrative acumen and his overall contribution in the development of the College. He was felicitated on 14.10.2016, during the national annual convention of Association of Pharmacy Teachers of India held in Manipal (APTICON 2016).

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Subham Banerjee completed his PhD from Department of Pharmaceutical Sciences and Technology, Birla Institute of Technology, Mesra, Ranchi and Defence Research Laboratory, Tezpur, Assam under the joint guidance of Dr. Animesh Ghosh and Dr. Pronobesh Chattopadhyay in the year of 2015. The work was selected for the prestigious BIRAC-SRISTI Gandhian Young Technological Innovation (GYTI) Award 2017 for the research project entitled "Prophylactic Transdermal Patch against Neurotoxin Poisoning in Biological Warfare Situations", under Socially Relevant Innovation category. The Scholar and both the Guides have been felicitated during the Festival of Innovation on 05 March, 2017 at Rashtrapati Bhavan, New Delhi. The award carries a citation and a Award grant of INR 15 Lakh for two years to extend the research work ahead from BIRAC; a Government of India enterprise under DBT.

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Barbara McClintock

(June 16, 1902 – September 2, 1992)

was an American Scientist and Cytogeneticist who was awarded Nobel Prize in Physiology in the year 1983 for her discovery of Genetic Structure of Maze

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Role of Forest woods in mitigation of climatic change

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Abstract

Changes in global climate are already stressing forests through higher temperatures, altered precipitation patterns and more frequent and extreme weather events. At the same time, forests and the wood they produce trap and store carbon dioxide, playing a major role in mitigating climate change. Trees and forests help alleviate these changes through forest management by removing carbon dioxide from the atmosphere and converting it during photosynthesis to carbon, which they store in the form of wood and vegetation. The process is known as "carbon sequestration."

Introduction

Forest ecosystems play an important role in the global biochemical cycles. Forests act both as sources and sinks of greenhouse gases (GHG) especially carbon dioxide (CO_2), through which they have significant influence on the climate on earth. They absorb carbon dioxide from the atmosphere and store it as carbon. Furthermore, Forests have also many other environmental roles viz. water from rainfall is absorbed by forests, slowly filtered and regularly released, protect biodiversity, prevent from landslides and soil erosion, protect landscape values, soil fertility and downstream agricultural land. Air is being moisturized, filtered and pollutants removed within forests. Water and desertification can be prevented by forests and other wooded land. On other side, the climate induced impacts on environmental and socio-economic functions in large scale and plays a major role in balancing ecosystem but global warming is increasing gradually due to some reasons of climatic change. Climate change could affect the growth of trees and the frequency and intensity of fires and the incidence of forest pests, and it could increase damage caused to forests by extreme weather conditions such as drought, floods and storms. Adaptation and mitigation are the two main responses to climate change, mitigation strategies comprise reducing emissions from deforestation; reducing emissions from forest degradation; increasing the role of forests as carbon sinks; and product substitution and adaptation aiming to reduce its impacts i.e encompasses interventions to decrease the vulnerability of forests and forest-dependent people to climate change. The world has an estimated 850 million hectares of degraded forests, which could potentially be restored and rehabilitated to bring back lost biodiversity and ecosystem services and contribute to climate change mitigation and adaptation. There are various types of forest and they are categorizing as per the leaf density of trees. The degraded forest lands which have a Canopy density of less than 10% are called Scrubs. The Lands with Canopy density of 10-40% are called Open Forests. The Land with forest cover having a canopy density of 40-70% is called the Moderately Dense Forest (MDF)[1]. The Lands with forest cover having a canopy density of 70% and more are called Very Dense Forests (VDF)[2]. Statistical data says, total forest cover as percentage of geographical area is 21.34% in which total forest cover in India is 7,01,673 sq km (increase of 3775 sq km). There after total tree cover as percentage of geographical area is 2.82 % in which total tree cover in India is 92,572 sq km (increase of 1306 sq km)[2]. It was recorded that the very dense forests in India are in just around 2.5% of total geographical area of the country[2]. India's top five states with maximum forest cover (in km²) are as follows: Madhya Pradesh (77,462) Arunachal Pradesh (67,248) Chhattisgarh (55,586) Maharashtra (50,628) Orissa (50,354). The maximum forest covers as percentage of their own geographical area are as follows: Mizoram (88.93%) Lakshadweep (84.56%) A&N islands (81.84%) Arunachal Pradesh (80.30%) and Nagaland (78.21%) (Figure-1). FAO studies said forests store enormous amounts of carbon: in total, the world's forests and forest soils currently store more than one trillion tons of carbon, twice the amount found floating free in the atmosphere. Forests can store as much as 15 tonnes of carbon per hectare per year in their biomass and wood[3].

Forest management plays a prime role in mitigation of climatic changes with increase carbon sequestration and decrease greenhouse gas emissions, especially non-CO_2 green house gases (such as CH_4, N_2O) that possess much higher warming potential than the equivalent mass of CO_2[4]. In this policy, mitigation is possible through three major avenues: carbon sequestration in new forests, use of wood products to displace more greenhouse intensive products and use of forest biomass for bioenergy, displacing fossil fuels. Carbon sequestration by forests has attracted much interest as a mitigation approach, as it has been considered a relatively inexpensive means of addressing climate change

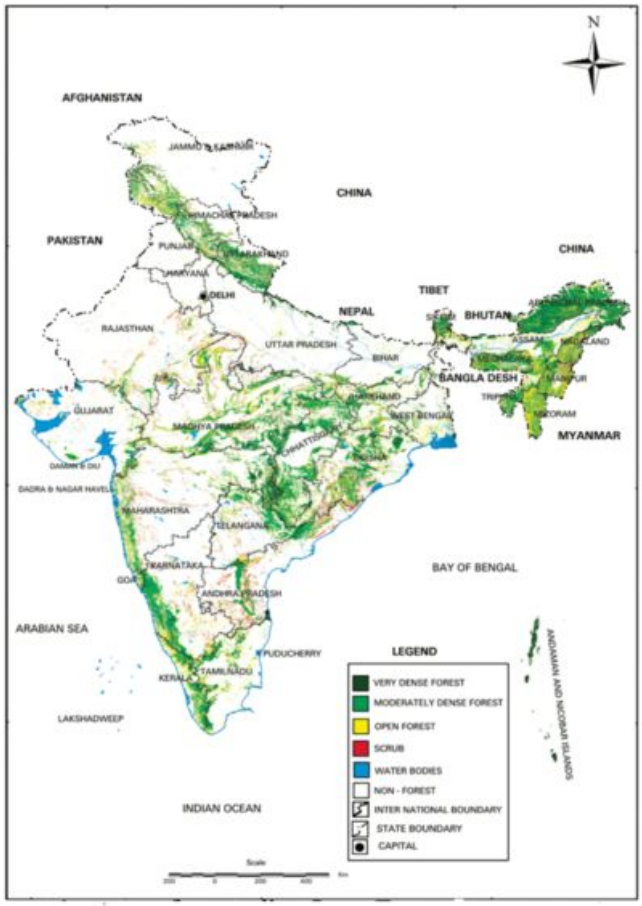

Fig. 1: Forest lands in India

immediately[5]. Carbon sequestration is the process that involves carbon capture and the long-term storage of atmospheric CO_2[6] that results to mitigate global warming (Figure-2). It has been proposed as a way to slow the atmospheric and marine accumulation of greenhouse gases, which are released by burning fossil fuels. Forest woods play an important role in carbon balance and the details mechanism showed in figure-3. Forests can switch between being a source and a sink of carbon over time, with the stock of the forest referring to the absolute quantity of carbon held within a forest component at a specified time. The transfer of carbon between carbon pools is represented in Figure 2.

Hence forest management plays a key role in mitigation of climate change by effective adaptation of environmental policy objectives. In which Carbon sequestration process is most effective means in mitigation of climate change.

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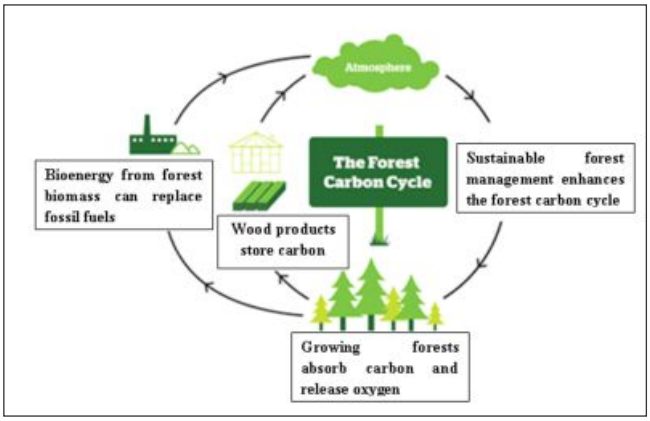

Fig. 2: Carbon sequestration Process

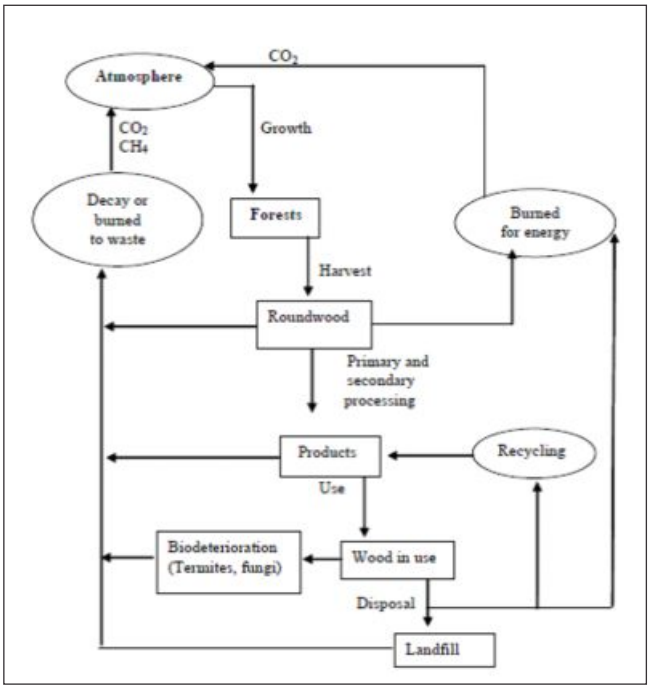

Fig. 3: Life cycle of CO_2 in wood products

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