EDITORIAL

Dear Readers and Pharmacy Teachers. The APTI is strong association of Pharmacy Teachers which has been serving teachers and pharmacy profession, since last 53 years. Since its inception it has been striving hard for the betterment of Pharmacy profession in India. It has arrayed it all, from the scientific contributions in its reputed journal IJPER and IJOPP, news, achievements, programs conducted and upcoming events in APTI Bulletin and contributions as well as issues related to women teachers in Women's Forum and News letter. APTI has been recognizing the outstanding work done and accomplishments made by Pharmacy teachers by conferring them with the glorious awards under various categories during APTICON every year.

APTI has been an ideal platform for all the pharmacy professionals including teachers, scientists, researchers and other stakeholders to interact, unravel issues and bring out the best for the sunnier future of the profession. It has been organizing various professional activities across the nation for the upgradation of knowledge, progress and cognizance of Pharmacy professionals. Every year during APTICON brain storming sessions, deliberations and lectures on dedicated theme are conducted by connoisseurs. I must admit and admire that all the state branches of APTI are doing brilliant work and are working untiringly for the benefit at large. APTI has always believed in and worked for security, safety and above all stability of Pharmacy teachers. My dear friends, our mission should be bigger than just disseminating academic or even professional courses. And thus I congratulate APTI and DIT for successfully organizing 24th APTICON on very much coveted theme “Holistic Contribution of Pharmacy Gurus for Future Global Leaders – Vision 2047”, which needs to be implemented for brighter future of the Pharmaceutical sector and of the country.

There has been tremendous increase in membership since last few years, which resembles the trust of pharmacy professionals in APTI.
I also take this opportunity to thank senior teachers who have been guiding light for people like and have immensely supported and inspired us to give our best.

Innovative ideas and suggestions if any are most welcome by all the readers. Let us unite and work for profession and Nation at large.
Hope To see you all in the Silver Jubilee Celebration of Annual National Convention of APTI: APTICON 2020 at JSS Mysore under the dynamic leadership of respected Dr. B. Suresh.
Together we can make wonders!
Wish you all A very happy, healthy and prosperous New Year 2020.

Thank you

Prof (Dr) Milind Umekar
Vice President
INSTITUTIONAL NEWS

Silver Jubilee Alumni Meet was Celebrated at B. R. Nahata college of Pharmacy

On Successful completion of 25 years, “BR Nahata College of Pharmacy”, Mandsaur University, successfully celebrated its Silver Jubilee Alumni Meet along with one day national seminar on topic “Future prospects of pharmacy education and its role in society” under the leadership of Prof. Amit Kumar Jain Principal, BR Nahata College of Pharmacy.

Chief guest Prof. Shailendra Saraf, Vice President, Pharmacy Council of India, enlightened the alumni and students on immense possibilities of employment in the pharmacy world.

Chief Speaker Prof. Swarnalata Saraf, Vice President, National APTI, and Guest of Honor Prof. Pawan Dubey spoken on emerging opportunities in the pharmacy filed such as pharmacovigilance and clinical trials, genomic projects, medical coding and highlighted the role of pharmacists in society.

Special Guest Dr. Ajay Sachan, Assistant Drug Controller of India, New Delhi, highlighted the new amendment in policy related to pharma sector.

The Honorable Chancellor, Er. Narendra Nahata discussed regarding strategies for all-round development of the institution in future.

Other guest were Prof. Anurekha Jain, Dr. Surendra Jain, Dr. Deepti Jain, Dr. Hemant Joshi, Dr. Kamlesh Dashora, Mr. Avnish Jain and Dr. Rakesh Sagar.

During the alumni meet, students from the first batch to the current batch met with their mentors, teachers and old friends and shared their old memories and experiences.

The round of meeting, photography, sports, and food continued throughout the day.

Giving detailed information, the Prof. Amit Kumar Jain, told that more than 400 alumni participated in the event with full of enthusiasm and shared their view for further development of their alma mater.

KVSR Siddhartha College of Pharmaceutical Sciences (KVSR SCOPS), Vijayawada, Amaravati, Andhra Pradesh has organized One Day National Seminar on 27th February 2020 on “Innivations From Medicinal Plants: A Move Towards Mother Nature”. It was inaugurated by Sri N V Bhaskara Rao, Joint Chief Environmental Engineer (JCEE), AP Pollution Control Board (APPCB) Vijayawada Zonal Office, Vijayawada, Andhra Pradesh. In his inaugural speech, Sri N V Bhaskar Rao has informed that nature has gifted us thousands of Plants with excellent Medicinal Values and it is thy duty of Pharmacy people to explore and utilize in a proper manner. Currently due to the indiscriminate use of Antibiotics, resistance has developed and by 2050 more deaths may be due to this only than Cancer. Therefore, every Pharmacist has to work in this direction to exploit the natural Products. This seminar was chaired by Dr Chadalavada Nageswara Rao, Vice-President, Siddhartha Academy of General and Technical Education (SAGTE) and Convenor of the college. The College Principal, Dr Devala Rao Garikapati has categorically informed that Mother Nature is very friendly and we have to carefully use the medicinal Products available. In nature several plants with wonderful Medicinal Activity are available. Some common examples include Tulasi, Aloe Vera, Senna, Peppermint, Coriander, Dill etc. All the students are advised to have a thorough knowledge on Medicinal plants and their benefits. In total 250 students from various colleges of AP and Telangana Participated and presented their research Papers.

As a Part of this seminar, the following Guest lectures are arranged:

1. “Turmeric Supplementation On Cancer-A case study from Our Clinical Pharmacognosy experience” Dr K Mangathayaru, Professor, Sri Ramachandra Institute of Higher Education And Research, Porur, Chennai, Tamilnadu

2. “Medicinal Plants-For A healthy Nation”, Dr P Uma Maheswara Rao, President, Sri Umamaheswara Sevapadam, Anuvamsikaayurvedam, Khammam, Telangana.

This programme was organized by Pharmacognosy Department of the college under the guidance of Dr V Karuna Sree, HoD, Department of Pharmacognosy.
Campus Placement Drive at Annamacharya College of Pharmacy

Campus Placements were conducted by AGS HEALTH CARE Tirupati, for the students of B.Pharmacy and M.Pharmacy, in the renowned campus of Annamacharya College of Pharmacy, Rajampet, Kadapa dist, Andhra Pradesh.

Mr. Rajesh Ayya, HR, Team Leader, AGS HEALTH CARE, conducted this placements through Written test, Group Discussion and Interviewing for the qualified students.

Principal, Dr. D. Swarnalatha, assured the institution will maintain a warm association with the AGS HEALTH CARE for future selection of skilled students in the health care profession.

The Secretary, Sri.C. Gangi Reddy, Vice-Chairman, C. Yella Reddy, Treasurer & executive director, Sri. C. Abhishek Reddy, Chairman, Dr C Ramachandra Reddy said the students studying NBA and NAAC accredited institution like Annamacharya College of Pharmacy can be assured that they will receive a quality education and they would become a very good citizen with good morals.

Targetting the Hallmark's of the Cancer Cells- A Guest Lecture at Annamacharya College of Pharmacy

The Guest Lecture Program titled “Targetting The Hallmark’S of The Cancer Cells, was conducted for the students of B.Pharmacy in the commendable campus of Annamacharya College of Pharmacy, Rajampet, Kadapa District, Andhra Pradesh, India.

Dr. Suresh Kumar Rayala, Associate Professor, Department of Biotechnology, Indian Institute of Technology, Madras, Speaker of today lecture explained the seven Hallmark’s, Selective growth and proliferative advantage, altered stress response favoring overall survival, vascularization, invasion and metastasis, metabolic rewiring, an abetting microenvironment and immune
modulation of cancer cells and their target through Vaccines and monoclonal antibodies.

Dr. D. Swarnalatha, Principal, ANCP, expressed her gratitude for being a valuable lecture today in the premises.

The Secretary, AET, Sri. C. Gangi Reddy, Vice-chairman, Sri. C. Yella Reddy, Treasurer, Sri. C. Abhishek Reddy, Chairman, Dr. C. Ramachandra Reddy said the students studying NBA and NAAC “A” accredited institution like Annamacharya College of Pharmacy can be assured that they will receive a quality education and they would become a very good citizen with good morals.

Pool-Campus Interview Of “Episource Healthcare Solution, Mumbai” Organized at Bharati Vidyapeeth, College of Pharmacy, Kolhapur, Maharashtra

Bharati Vidyapeeth, College of Pharmacy, Kolhapur (Maharashtra) Training and Placement Cell had organized pool-campus interview of Episource Healthcare Solutions, Mumbai for B. Pharm., M. Pharm, BSC Nursing, BSC DMLT, BAMS, & BHMS (Passed out from 2012 to 2019) students of all pharmacy colleges affiliated to Shivaji University, Kolhapur and other regions of Maharashtra for the post of Medical Coding on 16th January 2020 at Bharati Vidyapeeth College of Pharmacy, Kolhapur.

The inaugural function started with the recitation of the Saraswati Vandana, followed by the lamp lighting ceremony by the dignitaries on the dais, Episource Team leaders, Dr. H. N. More (Principal and Chairman Board Of Studies, Shivaji University, Kolhapur), Dr. Anilkumar J. Shinde (Co-ordinator Training and Placement Cell, Bharati Vidyapeeth College of Pharmacy, Kolhapur).

In this Campus Interview near about 150 students were enrolled for interview from Kolhapur, Pune, Aurangabad, Amravati, Sangli, Satara, Solapur & Ratnagiri region. In Aptitude Test total 64 students were selected for HR round, TR Round and Managerial round. In Final round finally 28 students were selected and immediately appointment order given to them. Selected students were placed in company in February 2020.


The Campus interview was conducted by Episource team managers, Ms. Prajita Kamble HR, Mr. Amol Doke Manager, Ms. Namrata Balgude Manager. Pool Campus Drive was co-ordinated by Dr. Anilkumar J. Shinde (Co-Ordinator, Training and Placement Cell). Dr. H.N. More (Principal), Prof. R.J. Jarag and all the faculty members and students were present on the occasion.

Workshop on “Experiments in CVS Pharmacology”

A one-day Workshop on “Experiments in Cardiovascular Pharmacology” was organised by the department of pharmacology, NGSM Institute of Pharmaceutical Sciences on 13th September 2019. Dr. C S Shastry, Principal, wel-
comed the resource persons Mr. JKL Prasad, BDM-North and East India and Mr. Sumant Bhat, Technical Manager, A.D Instruments, Bangalore.

Introducing the resource persons, Dr. C S Shastry, Principal, advised the young gathering to engage in research that is useful to society. He enlightened the participants on automation in the cardiovascular pharmacology and stressed upon the non-invasive techniques for recording blood pressure and ECG. In this context he also mentioned some of the technological innovations useful for conducting research on animals with advanced instruments.

Dr. Sumanth Bhat presented the technical overview on the high performance power lab data acquisition and a live demonstration of recording blood pressure, ECG and other important parameters using the experimental animal rat. Mr. JKL Prasad co-ordinated the demonstration and explained the instrumentation to the audience.

The participants actively involved themselves in the Q&A session to gather more information about the automated tool for recording BP, ECG and pulse.

Dr. Prasanna Shama Khandige, H.O.D-Pharmacology conducted the proceedings and Dr. Vijay Kumar proposed the vote of thanks.

Entrepreneurship Awareness Camp at Annamacharya College of Pharmacy

A Three Day entrepreneurship awareness sponsored by DST-NIMAT (Department of science and Technology-National Implementation and Monitoring Agency for Training) was conducted in the formidable campus of Rajampet, Kadapa District, Andhra Pradesh.

Chief guest, Prof. C. Shoba Bindu, Director, Skill Development and Incubation Centre, JNTUA, Anantapur as speaker of this program delivered a key note on Entrepreneurship as a Career Option and role of different skills such as communication, employable, leadership, interpersonal to the participated students.

Dr. M. S. Shiva Kiran, Incubator manager, ATAL Incubation centre, SKU, Anantapur explained on Entrepreneurship – Start up Ecosystem.
Guest of honour, Sri. C. Gangi Reddy, The Secretary, AET, called upon all the participants to be an Entrepreneurs and also advised to students to offer jobs for many people.

DR. Kasigari Prasad, Associate Professor, Graphologist, writer, motivational speaker, ECE Department, AITS, Rajampet, explained on the topic titled “Leadership to lead Entrepreneur”.

Dr. D. Swarnalatha, Principal, Annamacharya College of Pharmacy, expressed her gratitude to reverence personalities for engaging in this program. She could reveal her expectation on the students of intermediate, degree, polytechnic to be a role model in the designation of ENTREPRENEUR.

Camp Coordinator of this program, Dr. P. Dwarakanadha Reddy, discussed on Pharmacists as Entrepreneurs or Employees: The Role of Locus Of Control.

The Chairman, Dr. C. Ramachandra Reddy, Vice-Chairman, Sri. C. Yella Reddy, Treasurer, Sri. C. Abhishek Reddy, said the students studying NBA and NAAC “A” accredited institution like Annamacharya College of Pharmacy can be assured that they will receive a quality education and they would become a very good citizen with good morals.

KVSR Siddhartha College Of Pharmaceutical Sciences Organized One-Day National Seminar On “Medication Misadventures: Pharmacist For Quality In Healthcare”

KVSR Siddhartha College of Pharmaceutical Sciences (KVSR SCOPS), Vijayawada, Amaravati, Andhra Pradesh has organized One Day National Seminar on 28th January 2020 on “Medication Misadventures: Pharmacist for Quality In Healthcare”. It was inaugurated by Prof K Krishna Reddy, Registrar, Krishna University, Machilipatnam, Krishna District. In his inaugural speech, Prof Krishna Reddy has mentioned that Pharmacy is an area having lot of scope for innovation and Research. Always there will a need for the development of newer drus or Technologies. Therefore, everyone should have the interest of innovative thinking for better growth in life. The College Principal, Dr Devala Rao Garikapati has categorically informed that all adverse drug events (ADEs), Adverse Drug reactions (ADRs) and medication errors come under the umbrella of Medication Misadventures. It is a very broad term, referring to any iatrogenic hazard or incident associated with Medications. All the students are advised to have a thorough knowledge on Proper Medication methods. This seminar was Chairerd by Dr Chadalavada Nageswara Rao, Convenor of the College. In his speech he has informed that, seminars are highly useful to learn subject out of Curriculum. In total 250 students from various colleges of AP and Telangana Participated and presented their research Papers. As a Part of this seminar, Two invited guest lectures are also arranged by Dr Karthik Pakam, Medical Advisor, HealthCloudAI, Hyderabad and Dr G V Prateek, Indo-American Cancer Hospital, Hyderabad. This programme was organized Pharmacy Practice Department of the college under the guidance of Dr Ghanta Vijay Kumar, HoD, Department of Pharmacy Practice.
Bangalore. The objective of this workshop was to familiarize research scholars and students working in the area of nanotechnology with the principles of Dynamic light scattering (DLS) and electrophoretic light scattering (ELS) on which the working of the Zetasizer is based as well as handling of the instrument itself. The Zetasizer is an important tool that can be used in the determination of particle size, polydispersity index (PDI), zeta potential and molecular weight of all types of nanoparticle dispersions.

The workshop began with a short inaugural ceremony. Dr. Rekha P.D - Professor and Deputy Director of Yenepoya Research Centre was the Chief Guest and Dr. Harsha Halahalli, Director (Curriculum Development), NitteDU was the Guest of Honour. The guest speakers were Mr. Dwijendra Trivedi, Asst. Business Manager, Malvern Panalytical and Mr. Sandeep H.B, Application Specialist, Malvern Application Centre of Excellence. The ceremony was presided over by the Principal, Dr. C.S. Shastry. Dr. R. Narayana Charyulu, Head of the Dept. of Pharmaceutics, delivered the welcome address. Dr. Rekha stressed on the importance of having a thorough knowledge of the fundamentals on which the working of an instrument may be based and as a result it would be possible to use the instrument for varying applications. Dr. Harsha Halahalli said that the growing importance of nanotechnology has permeated into all possible commercial applications and is making the use of instruments such as the Zetasizer essential in the area of research.

The morning session consisted of three lectures delivered by Mr. Sandeep H.B which covered the fundamentals of DLS and ELS and their applications in nanoparticle characterization. The afternoon session was exclusively devoted for hands-on training with the Zetasizer and for interpretations of the data obtained. The delegates who attended from different institutions posed several queries related to the interpretations and expressed their appreciation of the workshop with some encouraging and positive feedback. The participants were presented with a certificate of participation. The workshop was concluded with vote of thanks proposed by Dr. R. Narayana Charyulu.

National Pharmacy Week Celebrations 2019
Narasaraopeta Institute Of Pharmaceutical Sciences NIPS

58th National Pharmacy Week (NPW-2019) was celebrated at Narasaraopeta Institute of Pharmaceutical Sciences (NIPS) -Narasaraopeta, Guntur district, from 21st to 23rd November 2019 in line with directions of the Indian Pharmaceutical Association. The theme of this year was “Pharmacist: Your Medication Counsellor”. The celebrations began with the Inaugural Programme on 21/11/2019 during which a guest lecture was organised in which Dr G. Sai Krishna, Research scholar university of Manitoba, Canada. He spoke on Systematic reviews Pharmacoeconomics & Research.

Sri M.V Koteswarao Chairman, NIPS chaired the occasion and narrated the roles and responsibilities of a clinical pharmacist in the current scenario.

Sports competitions were held in cricket, Volley ball & Tennikoit etc for both girls and boys separately.

On day 2: A Pharmacy awareness rally was including the graduates of other pharmacy colleges. Mr K. Anil Kumar, Asst. director in drug control department & Mr E. Samba Siva Rao, Drug inspector Narasaraopeta has participated in the rally.

Short film making, leaflet making and comic poster making competitions were held on the theme
“Pharmacist- your medication counsellor” and Pharma Rangoli on the theme “Save Environment”.

On day 3 Pharma Quiz & Patient counselling sessions were conducted at NIPS seminar hall. Pharm. D. 5th year students, Pharm. D. interns and B. Pharm, students, along with the faculty of the Department of Pharmacy Practice, have participated actively in these sessions.

The Valedictory ceremony of National Pharmacy Week celebration 2019 was held on 23rd November 2019, at the seminar hall of NIPS. Mr. Kishore Kumar director of NEC group of institutions, in his speech, has highlighted the role of pharmacy professionals in the current world and enlightened the young professionals about the importance of unity in the profession, irrespective of the difference in academic degrees followed by distribution of prizes to the winners of the events.

Dr. J.N. Suresh Kumar, Principal, Sri M. V. Koteswar Rao Chairman, Mr. M. Kishore Kumar, Director, Mr. M.S. Chakravarthi Vice President, Mr. M. Ramesh Babu Secretary NIPS have participated. Dr. T. N. Ravi Kiran and Dr. Somnath De, Mr. Hari Prasath.K have followed up the stage.

Road Safety Week at PCPS!

Periyar College of Pharmaceutical Sciences, Tiruchirappalli organised the 31st Road Safety Week on 20th January 2020. The K.K. Nagar Traffic Police Mr. Thangappu Raj associated with and trained the NSS students of the institution to raise awareness about road safety. The NSS Volunteers involved in controlling the traffic outside the Periyar Centenary Educational premises. Earlier the traffic Police addressed the volunteers and stressed on the importance of following the traffic rules. He also educated the participants on how to use roads and the purpose of white and yellow lines on the road. He advised the youngsters to avoid rash driving and overtaking in turnings. He emphasised about the need to safe roads by applying a few simple rules.

- Always wear a helmet when you ride a bicycle or a bike
- Ensure that the pillion rider also wears a helmet
- Be aware of your surroundings
- Keep your vehicle fit
- Make sure you and co-passengers are wearing a seat belt while travelling in a car
- Avoid speaking on the phone and playing loud music while driving a two-wheeler or car
- Do not drink and drive and never let anyone else in your company do so
- Do not over speed above the recommended speed levels on roads. A mishap could come in the form of a living object or a pothole which could endanger your life and the others on the road.

The programme was coordinated by Dr. T. Shri Vijaya Kirubha, NSS Programme Officer.

KVSR Siddhartha College Of Pharmaceutical Sciences Organized One Day National Seminar On “Role Of 3D Printing In Healthcare”

KVSR Siddhartha College of Pharmaceutical Sciences (KVSR SCOPS), Vijayawada, Amaravati, Andhra Pradesh has organized One Day National Seminar on 7th February
2020 on “Role of 3D Printing in Healthcare”. It was inaugurated by Sri Nalluri Venkateswarlu, President, Siddhartha Academy of General & Technical Education (SAGTE), Vijayawda, Andhra Pradesh. In his inaugural speech, Sri Venkateswarlu informed that Medical 3D Printing was once an ambitious Pipe dream. Nowadays, the 3D Printing Technology represents a big opportunity to help Pharmaceutical and Medical Companies to create more specific drugs, enabling rapid production of medical implants and changing the way that doctors and surgeons can plan procedures. The College Principal, Dr Devala Rao Garikapati has categorically informed that every year 3D printing offers more and more applications in the healthcare field helping to save and improve lives in ways never imagined up to now. In fact, 3D printing has been used in wide range of healthcare settings including cardiothoracic surgery, cardiology, gastroenterology, neurosurgery, oral and maxillofacial surgery… etc. All the students are advised to have a thorough knowledge on usefulness of 3D printing in Healthcare system. In total 250 students from various colleges of AP and Telangana Participated and presented their research Papers. As a Part of this seminar, the following Guest lectures are arranged:

1) “Role of Advanced Manufacturing in Healthcare” Dr Ravi Sankar M, IIT Tirupati, Andhra Pradesh.
2) “Pharmaceutical & Medical Applications of 3D Printing: Achievements, Opportunities and Challenges”, Dr Sreekanth, VIT-AP, Amaravati
3) “3D Printing in Healthcare”, Prof Shiv Kumar Narayanaswamy, Visiting Professor, SRM-Amaravati, AP
4) “Personalised Healthcare using 3D Printing and Practical Applications” Mr T U Vishnu, CEO, Macheen Innovations, Coimbatore, Tamilnadu
5) “Additive Manufacturing/3D Printing: A game-changer in the manufacturing industry, its impact on our society and its future”, Dr Jayaprakash Sharma, SRM-Amaravati, AP

This programme was organized by Pharmaceutics Department of the college under the guidance of Dr Dr N Buchi Naidu, HoD, Department of Pharmaceutics.

Marri Laxman Reddy Institute Of Pharmacy – 58th National Pharmacy Week Celebrations

The Department of Pharmacy Practice, Marri Laxman Reddy Institute of Pharmacy, Dundigal, Hyderabad, Telangana State had celebrated the 58th National Pharmacy Week which was witnessed an enthusiastic participation of students and staff. The celebrations include medical awareness programs for nearby school and college students, medical camp and inspirational speeches by eminent speakers.
On Day 1, our celebrations were started with health awareness sessions by students of Doctor of Pharmacy (Pharm. D) to the 9th & 10th class school children of CMR International School, Shapur Nagar and Sri Sloka School of Excellence, Gandimaisamma in Hyderabad on “Prevalence of Anaemia And Its Prevention by Following Proper Diet Plan In Girl Children” (exclusively for girl students) and “Types of Seizures and its First-Aid Techniques”.

On Day 2, in the morning session, a free medical camp was organized in association with Maxivision Super Speciality Eye Hospitals and Clove Dental Hospital to the school students of Zilla Parishad High School, Dundigal and also to the students of Marri Laxman Reddy Institute of Technology, Management & Pharmacy. The camp was inaugurated by Dr. K. S. Murali Krishna, Principal, MLRIP. In this medical camp, around 300 school and college students had undergone free Dental and Eye check-up by doctors from these hospitals and medicines were prescribed.

True to the theme of 58th National Pharmacy Week - “Pharmacist: Your Medication Counsellor”, students of Doctor of Pharmacy (Pharm. D) have counselled the school students regarding the regular habits and diet to be followed for maintenance of good oral hygiene and about medications prescribed for preventing the serious eye and dental problems.

On Day 2, during Post-Lunch session, Dr. Hafsa Basheer Ahmed, B.D.S, Dental Surgeon, from Clove Dental Hospital, had delivered a guest lecture on "Dental Hygiene and Awareness" to the students of B. Pharm & Pharm. D.

On Day 3, Mr. Nisar Ahmed, M. Pharm, former Senior Pharmacist, Johns Hopkins Aramco Healthcare, Dhahran, Saudi Arabia, has enlightened the prospective of Pharm. D course and the role and responsibilities of Clinical Pharmacist in a health care team for providing a better health to the patient.
DAY 3: Guest Lecture

The celebrations were aptly concluded on day 4, with similar health awareness programmes (like on day 1) for 10th class & intermediate students of NSKK (Naveena Samskarika Kala Kendram) High School & Junior College, Gagillapur in the forenoon session and 10th class students of Zilla Parishad High School, Dundigal in the afternoon session.

All the events were monitored by the staff of the Department of Pharmacy Practice.

DAY 4: Awareness Programme (Forenoon Session)

AICTE Sponsored Two Weeks FDP At Nootan Pharmacy College, Gujarat

Nootan Pharmacy College, Faculty of Pharmacy, Sankalchand Patel University has organized the All India Council for Technical Education (AICTE) sponsored two weeks Faculty Development Programme on “CONCEPTS OF QUALITY BY DESIGN (QbD) AND STATISTICS IN PHARMACEUTICAL SCIENCES” from 24th June 2019 to 06th July 2019. The programme was inaugurated by Dr. Mukesh Gohel, Research Director, Anand Pharmacy College, Anand, Dr. V .K Shrivastava, the Provost, Sankalchand Patel University and Dr. Jayvadan K. Patel, Dean, Principal and Coordinator. The various sessions on Quality by Design (QbD) and importance of statistics in Pharmaceutical sciences were discussed by renowned experts from academia and industries. The program was one of the most comprehensive courses and it has covered almost all relevant aspects of QbD and statistical analytics in Pharmacy. In program Industrial visit, Research lab visit and hands on training of various design and statistical software were also organized. Participants were also visited AIC-GUSEC (Atal Incubation Center, Gujarat University Startup and Entrepreneurship Council) center and PERD. Total 50 participants from academia and industries were participated in the program.

DAY 4: Awareness Programme (Afternoon Session)
Drug Abuse Awareness Campaign  
By Laureate Institute Of Pharmacy,  
Jawlamukhi, Himachal Pradesh

Realizing that the age of drug addicts is coming down and an early preventive intervention is required, the Laureate Educational Society under its constituent college, Laureate Institute of Pharmacy started Drug Abuse Awareness Campaign.

During this programme the teaching staff members of Laureate institute of Pharmacy visited different schools in the periphery of District Kangra from 28/11/2019 to 13/12/2019. During this total about 30 Sr. Sec. schools were visited explicitly. During the school assembly, students were made aware about various ailing effects of drugs and various laws and penalties against the use of such drugs. During the Campaign, various competition viz., quiz, painting and poster competition were held and prizes were distributed in the schools. During the camp Managing director Dr Ran Singh, Principal Dr. M S Ashawat, Vice Principal Dr. Vinay Pandit and Dean Student welfare Prof. C P S Verma has congratulated the staff for their efforts to spread message of Drug free India in the Hilly region of Himachal Pradesh. Further, coor- 
dinator Mr Tarun Sharma, Red Ribbon Club and NSS Officer Mr. Shammy Jindal has committed to do such more eradication programmes in future for benefit of young generation.

Seminar On “IPR And Patents” – NGSMIPS

A one day seminar on “IPR and PATENTS” was organ-ised by the department of pharmacology, NGSM Institute of Pharmaceutical Sciences on 10th August, 2019 at the university auditorium, Paneer Campus, Deralakatte, Mangalore. Prof. Dr. M. S. Moodithaya, Pro Vice Chancellor, NitteDU inaugurated the seminar. Dr. Sharana Gowda, Asst. Controller of Patents & Designs, Patent Office, Chennai and Prof. Dr. Iddya Karunasagar, Research Director NitteDU were the resource persons.
Introducing the resource persons, Dr. C S Shastry, Principal of the college urged the young gathering to engage in research that is useful to society. He said it is not enough to publish papers with high impact factors but muster the nerve and zeal to apply for patents and thus facilitate the high quality research work to move from the confines of racks in the library to be transformed into useful technology for the benefit of mankind.

Addressing the young research scholars and faculty Dr.Moodithaya said: - In the light of shift in philosophy of the academia from collaborative growth to competitive growth stimulated by rating institutions like NAAC, NIRF, etc, it has become mandatory for academic institutions and research scholars to move from the leisurely mindset to an urgent and fast paced mode in creating and sustaining a vibrant research ecosystem and competitive advantage not in the long run but in the immediate future. Elucidating this significant message with an escalator analogy he said: - “If you want to reach the top of an escalator which is moving downwards, you need to walk upwards faster, perhaps at double the speed of that of the escalator”.

Dr. Sharana Gouda lucidly explained the procedures and steps involved in patenting such as Checking for the patentability of the invention, filing patents in India and filing in foreign jurisdictions, costs involved during the patent process, Inventions not patentable in India and so on. He also said that applications filed annually for patenting in India is about fifty thousand which is substantially lower in comparison to the applications filed in countries like US, China and Japan which range from 3 to 5 lakhs per annum.

Speaking on the topic “Resources for moving from research to technology”, Dr. Karunasagar explained about the resources, support and grants extended by Public Sector Enterprise such as Biotechnology Industry Research Assistance Council (BIRAC), set up by Department of Biotechnology (DBT) to strengthen and empower the emerging Biotech enterprises to undertake strategic research and innovation.

Dr.Vijay Kumar, asst. Prof conducted the proceedings and facilitated the Q & A session. Mrs.Zeena Fernandes, asst. Prof. anchored the programme and Dr.Prasanna Shama, HOD – Pharmacology proposed the vote of thanks.

Industrial Visit by Ashokrao Mane College of Pharmacy
Ashokrao Mane College of Pharmacy, Peth-Vadgaon arranged Industrial visit to Piramal Enterprises Limited, Mahad for B. Pharm students on Saturday 18th January 2020. Total 75 students (Boys-28+ Girls-47) along with 10 staff members were present during visit. Mr. Shantaram Ray (General Manager, production & logistics) greeted us with warm welcome note at conference hall. He has given introduction of Piramal group with profile, vision & popular products. He discussed about expectations of Pharma Industry from students during interview, regarding basic knowledge of core area, data integrity etc. Mr. Sachin Shelake (HR), Mr. Ashish Patil (Manager Production), Mr. Suhas Bandgar (Manager, Production, Premix Section) were present during introductory note. Students and Faculty were visited to General tablet unit (Saridon), Packaging, Premix, Liquid oral pedigree & storage department in two groups. Each leader from department gave lot of respective information. Visit was successfully organized with moral support of Hon. Shri. Vijaysinh Mane, President Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap, Mrs. Manisha V. Mane, Member, Zilla Parishad Kolhapur and Principal of Institute Dr. S. S. Patil. The visit was coordinated by Incharge of Industry Institute Interaction Cell Ms. S. S. Suryawanshi and Academic Co-ordinator Mr. S. A. Bandgar.

Celebration of National Pharmacy Week

Faculties and Students of Smt Vidyawati College of Pharmacy, Jhansi celebrated 58th National Pharmacy Week on November 23, 2019 in the college premises on the theme ‘Pharmacist: your medication Counsellor’ with great enthusiasm. Various events were organized: Essay competition, quiz competition, leaflet competition, poster presentation, Rangoli competition as well plantation. Various medicinal plants like Hibiscus, Neem, Vinca were planted. Students were vibrant to generate discussion on the importance of the theme. Various points about the pharmacist counseling were seeded among the students: starting with doctor-patients interaction during medication, counseling by Pharmacist as well as post medication follow-up. The event also emphasizes the role of pharmacist to instill trust into patient to begin using the medication according to direction, as well to remain alert on the events like delayed use, incompatibility with certain dosage form, reluctance.... in such cases counseling by meeting patient on daily basis, telephonic courtesy call as well necessity of implementing computer based compliance monitoring is also discussed. All Branches of students (D Pharma as well B Pharma) celebrated together, trophies and certificates were distributed among the winners of various events. Finally, the event was ended by the Valedictory address of Director, Vidyawati College of Pharmacy.

One Day Interactive Orientation Programme on the Theme “Women Health and Social Well-Being” by APTI Women Forum and Shakti Mahila Vigyan Bharti, Chhattisgarh

One day Interactive orientation programme on the theme “Women health and social well-being” was organized at M.L. Schroff Hall, University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur, (C.G.) on 28th of January 2020 from 1.00 p.m onwards. This programme was organized under the aegis of APTI Women Forum and Shakti Mahila Vigyan Bharti Samiti Chhattisgarh. Programme was graced by renowned women pharmacist Dr. Archana Mudgal, Registrar, Pharmacy Council of India, New Delhi as Chief Guest. Other special invited guests were Mrs. Seema Suresh, Mrs. Alpana Chauhan, and many social activists working at grass root level for women in the state of Chhattisgarh and nationwide also graced the event. Programme marked the presence of all the women faculties in the state of Chhattisgarh belonging to pharmacy and other streams like psychology, health science, economics, Medicines, Life Science, Nutrition and Sociology etc. Dr. Mudgal highlighted the importance of womens’ mental and physical health to keep the society healthy. She emphasized on importance of family in maintaining complete health.
All invited guests were felicitated by APTI women representatives from state with Shawl and Sriphal. In this sequence Prof Swarnlata Saraf, Vice-president APTI central zone also stressed on the need to look after the physical, social and mental issues of women for complete health. Dr. Manju Rawat Singh, co-convener APTI women forum introduced the various initiatives taken to create common platform for all women pharma fraternity to discuss and sort their issues. The open interactive session was witnessed by enthusiastic participation from women teachers from various regions of Chhattisgarh.

All women faculties were motivated to interact with each other and planned to organize more events on monthly basis where they can meet and interact for resolving various issues confronted at personnel and professional facade. The program undoubtedly motivated and encouraged the women to keep themselves healthy so as to get a healthy and cherished society.

National Workshop On “Outcomes Research Methodologies And Data Analysis Using SPSS”

A two-day National Workshop on “Outcomes Research Methodologies and Data Analysis Using SPSS” organized by the Department of Pharmacy Practice, NGSMIPS was inaugurated by the Chief Guest, Prof. (Dr.) Satheesh Kumar Bhandary, Honourable Vice-Chancellor of Nitte (Deemed to be University), Mangaluru.
The workshop was completely interactive with sufficient demonstration on the concerned topics on epidemiological study designs and Pharmacoeconomic methods such as Cost of Illness, Cost Minimization, Cost-Benefit, Cost-Effective, and Cost-Utility Analysis. The workshop received an overwhelming response. About 62 participants including research scholars and staff from health sciences and pharmacy colleges of Karnataka and Kerala attended the workshop. Dr. Uday Venkat Mateti, Organizing Secretary gave a brief introduction about the need and purpose of the workshop as an introductory note. Prof. (Dr.) C. S. Shastry, Principal, NGSMIPS, welcomed the gathering and introduced the speakers: Dr. Praveen Kulkarni, Associate Professor, Dept. of Community Medicine, JSS Medical College, JAHES, Mysuru, Dr. Kapil Gudala, Manager-Health Economic Modelling Team, Novartis, Hyderabad, and Dr. Krishna Undela, Asst. Professor, Department of Pharmacy Practice, JSS College of Pharmacy, JAHES, Mysuru. He also highlighted the importance of the workshop. Presiding over the function, Prof. (Dr.) Satheesh Kumar Bhandary, the Honourable Vice-Chancellor of Nitte (Deemed to be University), enlightened the importance of SPSS software and its implications in the health science research. Dr. Juno J Joel, HoD, Dept. of Pharmacy Practice delivered the vote of thanks.

During the two-day workshop, three sessions were conducted on the theme of “Outcomes Research Methodologies and Data Analysis Using SPSS”.

First Session on 06th December 2019 (Day 1)
Dr. Krishna Undela started the session with Principles of Pharmacoepidemiological Study Designs and provided hands-on training on calculations and interpretation of Incidence, Prevalence, Absolute risk, Relative risk, Attributable risk, Odds ratio and Number needed to treat analysis.

Second Session on 06th December 2019 (Day 1)
Dr. Praveen Kulkarni provided hands-on training on parametric (Paired t-test and Unpaired t-test, Pearson's correlation, ANOVA) and nonparametric (Sign test, Wilcoxon Signed Rank test, Mann Whitney test, Kruskal-Wallis test, and Friedman) tests of significance in SPSS software. He also demonstrated the testing difference between two proportions and Chi-square test analysis in SPSS.
Third Session on 07th December 2019 (Day 2)


The interactive and hands-on training sessions allowed students, research scholars and faculty members to broaden their interest and knowledge in different aspects of “Outcomes Research Methodologies and Data Analysis Using SPSS”.

Feedback of the workshop was collected from delegates at the end of the three sessions and certificates were issued. Dr. R. Narayana Charyulu, Vice-Principal, NGSMIPS concluded the workshop with closing remarks during the Valedictory function. Dr. Treesa P Varghese conducted the proceedings who was ably sponsored by Mr. Bharath Raj, Mr. Nandakaumar, Dr. Anjaly, Dr. Vinay, and Dr. Sharad.

World Cancer Day

On the occasion of world cancer day on 4th February, 2020 Faculty of Pharmacy, DIT University, Dehradun, Uttarakhand in collaboration with Aarogya club Organised awareness drive on cancer. The event was organized in the campus by holding Stem Cell donation camp by DATRI club and Guest lecture on Highly Effective Habbits by Dr. Rajesh Dangwal, Corporate trainer and motivational speaker. Faculty and students of the department visited Him Jyoti School, Sahastradhara Road, Dehradun where awareness drive was conducted through lectures, activities and games. More than 350 students, teachers and staff have participated in the event.
World Leprosay Day

On 27\textsuperscript{th} January, 2020 Faculty of Pharmacy, DIT University, Dehradun – Uttarakhand organized World Leprosy Day. Leprosy, also known as Hansen's disease, is a chronic infectious disease caused by \textit{Mycobacterium leprae}. The disease mainly affects the skin, the peripheral nerves, mucosal surfaces of the upper respiratory tract and the eyes. Leprosy is known to occur at all ages ranging from early infancy to very old age. Leprosy is curable and early treatment averts most disabilities. The programme has begun with photoshoot with faculties and members of Aarogya club. Faculties also share their knowledge about leprosy. On this occasions M. Pharm, B. Pharm and D. Pharm students visited Holy Child School, Rajkiya Vidyalaya and Rajkiya primary school in and around Dehradun to spread knowledge on leprosy and the message of Mahatma Gandhi on leprosy. They distributed pamphlets, leaflets and posters among school children, staff and teachers of the school. Children were educated on preventive measures to avoid contact with pathogen.

Swachh Bharat- A Part Of NSS Special Camp Program @ Annamacharya College Of Pharmacy

The SWACHH BHARAT, a part of NSS (National Service Scheme) SPECIAL CAMP PROGRAM Inauguration was conducted by NSS team of Annamacharya College of Pharmacy in Attirala Kammapi Mandala Parishath School, a upper primary school, Rajampet.
The NSS staff and student volunteer team participated in this program and cleaned the premises in and around the Famous temple attirala lord shiva temple.

The various programs such as yoga, Meditation, Plantation, etc will be conducted in the special camp program duration.

Dr. D. Swarnalatha, Principal, Dr. K. Adinarayana, NSS Coordinator, Mr. Y. Pradeep Kumar, Assistant Professor, ANCP, B.Venkata Rami Reddy, Head Master of the school participated in this event.
The Secretary, Sri C. Gangi Reddy, Treasurer Sri. C. Abhishek Reddy, Chairman, Dr C Ramachandra Reddy and Vice-chairman, Sri. C. Yella Reddy said the students studying NBA and NAAC “A” accredited institution like Annamacharya College of Pharmacy can be assured that they will receive a quality education and they would become a very good citizen with good morals.

**PhD Awards**

Dr. Nataraj GR, Assistant professor, Department of Pharmacology at SJM College of Pharmacy, Chitradurga has been awarded the degree of Doctor of Philosophy in Pharmacology, Pharmacy faculty by Rajiv Gandhi University of Health Sciences, Bengaluru, Karnataka. The Ph. D research work was entitled with “A Study on Drug use evaluation in Geriatric Population in Chitradurga District”. He has carried out the research under the guidance of Dr. Bharathi DR Professor and Head, Department of Pharmacology, SJM College of Pharmacy, Chitradurga. He has 11 years teaching and 01 year Pharma regulatory Industrial experience. Obtained Best poster Award at 69th Indian Pharmaceutical Congress held at Chitkara University, Rajpura, Punjab, during December 22-24, 2017. Published more than, 26 research articles in several National and International journals. Guided 29 Pharm D and co-guided 05 M. Pharm Pharmacology research projects. He is Life time member of APTI.

He acknowledges his sincere pranamas to His Holiness Poojya Dr. Shivamurthy Murugha Sharanaru, President, S J M Vidyapeetha, Chitradurga, and Dr GN Mallikarjunappa and Dr E Chitrashkar, Ex-Executive Directors and board of management of SJM Vidyapeetha for providing the best available avenues.

He also admires Dr Bharathi D R, guide, mentor & scout, Professor and Principal, SJM College of Pharmacy, Chitradurga, for her immense, excellent and continuous encouragement for during research work.

Dr. Kailas Krishnat Mali currently working as Professor, Department of Pharmaceutics, Adarsh College of Pharmacy, Vita, Maharashtra has been awarded with the Degree of Doctor of Philosophy (Ph.D.) in Pharmacy from Shivaji University, Kolhapur under the faculty of
Science and Technology for his research work entitled “Delivery of drugs using tamarind seed polysaccharide”. The research was carried out under the guidance of Prof. (Dr.) S. C. Dhawale, Director, School of Pharmacy, Swami Ramanand Teerth Marathwada University, Nanded. Based on his research, he has published nine research articles in highly reputed journals such as International Journal of Biological Macromolecules (Elsevier) and Indian Journal of Pharmaceutical Sciences. He has 20 years of teaching experience. He has published 64 papers in national and international journals and presented 10 research papers in various conferences. He has authored four books and published 1 patent. He has guided 49 M. Pharm students. His area of interest includes solubility enhancement, drug delivery and pharmacokinetic studies. He is a life member of various professional bodies like ISTE, APTI, KPSF, etc.

Dr. Abubaker Siddiq, currently working as Assistant professor, Department of Pharmacology at SJM College of Pharmacy, Chitradurga has been awarded the degree of Doctor of Philosophy (Ph.D) in Faculty of Pharmacy by Rajiv Gandhi University of Health Sciences, Bengaluru, Karnataka for his research work entitled “Drug Utilization Evaluation and Cost Analysis of Management of Diabetes Mellitus”. He has carried out his research work under the guidance of Dr. Bharathi D.R, Professor and Principal, SJM College of Pharmacy, Chitradurga. He has 10 years teaching experience and published more than 29 research articles in several National and International journals of repute. He is a Life member of APTI and Executive Committee Member of APTI, Karnataka State and guided 30 M.Pharm and Pharm.D Students for their research work. He has attended and presented research works at various National Conferences and received First place in scientific poster presentation at ICMR Conference at Nitte University, Mangalore.

Dr. Abubaker Siddiq, currently working as Assistant professor, Department of Pharmacology at SJM College of Pharmacy, Chitradurga has been awarded the degree of Doctor of Philosophy (Ph.D) in Faculty of Pharmacy by Rajiv Gandhi University of Health Sciences, Bengaluru, Karnataka for his research work entitled “Drug Utilization Evaluation and Cost Analysis of Management of Diabetes Mellitus”. He has carried out his research work under the guidance of Dr. Bharathi D.R, Professor and Principal, SJM College of Pharmacy, Chitradurga. He has 10 years teaching experience and published more than 29 research articles in several National and International journals of repute. He is a Life member of APTI and Executive Committee Member of APTI, Karnataka State and guided 30 M.Pharm and Pharm.D Students for their research work. He has attended and presented research works at various National Conferences and received First place in scientific poster presentation at ICMR Conference at Nitte University, Mangalore.

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Dr. KS Rathore honored with “Outstanding Scientist Award”

Udaipur: Director, Career Counseling and Placement, BN University and Senior Assistant Professor of Faculty of Pharmacy, Bhupal Nobles College of Pharmacy, Dr. Kamal Singh Rathore received the Best International Scientific Award in the field of Pharmacy at the Second International Scientific Awards Seminar organized by the VDGOOD Professional Association for Engineering, Medical and Science Scientists in Visakhapatnam. This information was provided by Dr Mahendra Singh Ranawat, Dean, Faculty of Pharmacy.

Dr. Kamal Singh Rathore of Bemla village has made significant contribution in the field of education and research for the last 21 years and has shine the college and university name several times at the international level. The Principal of the college, Dr. Yuvraj Singh Sarangdevot said that about 100 papers of Dr. Rathore have been published in national and international repute journals, about 18 books have been published in the field of pharmacy at the international level, many times he brought laurels to college and university and he has presented papers in about 50 national and international seminars. His Google citation index is also very good. Along with this, Dr. Rathore also gave a guest lecture on the topic “Recent Advances in Pharmaceutical...”
Sciences and New Frontiers” at Sri Vidyaniketan College of Pharmacy, Tirupathi. B. N. University Chairperson Gunwant Singh Jhala, President Prof. Jeevan Singh Ranaut and Registrar Dr. Raghuveer Singh Chauhan congratulated Dr. Rathore and wished a bright future.

Dr. U.S. Sharma Conferred “Best Director Award 2018”

Dr. U.S. Sharma, Professor and Director at Sir Madanlal Institute of Pharmacy, Etawah, Uttar Pradesh received “Best Director Award (Pharmacy)” in recognition of his contribution in the field of academic and administration in a national conference sponsored by National Commission for Women, Govt of India, New Delhi and organised by Shobhit University, Gangoh, Saharanpur, Uttar Pradesh on February 15, 2020, in the gracious presence of Prof. DK Kaushik, Vice Chancellor, Prof. Ranjit Singh, Pro Vice Chancellor, Dr. Rashmi Sharma, Scientist-E, DST, Dr. Parveen Bansal, Joint Director Research, Baba Farid University of Health Sciences, Dr. Sanjiv Kumar, Assistant Director, Ayush and Smt. Shashi Singh Chairperson, CWEI.

Earlier to this honor, Dr. Sharma has received some other prestigious awards such as “Young Scientist Award” in an International Conference held at Oriental University, Indore (M.P.), “Best Academician Award (Pharmaceutical Sciences) in an international conference and award organized by Society of Academic Scholars at Taj Hotel, Guwahati, Assam. “Jewel of India Award” and a “Certificate of Excellence” organized by Indian Solidarity Council, New Delhi, “Rashtra Vibhushan Award” organized by Foundation for Accelerated Community Empowerment, New Delhi, “Bharat Vidhya Shiromani Award” and a “Certificate of Education Excellence” organized by International Institute of Education & Management, New Delhi.

Dr. Sharma has many completed projects funded by DST, ICMR & CPCSEA and has published 42 scientific papers in national and international journals. He has presented 98 papers at national/international conferences. He has successfully guided 21 M. Pharm and 03 Ph.D. students.

Dr. Sharma is actively involved with the educational regulatory boards of the country like Pharmacy Council of India, AICTE, AKTU, UGC, CPCSEA and Directorate of Technical Education.

He is also playing a vital role in the financial literacy of the country governed by Security and Exchange Board of India (SEBI).

Honorable chairman Mr. Vivek Yadav, administrative, teaching and non-teaching staff of the institution congratulated Dr. Sharma for receiving Best Director Award.

The team of Babaria Institute of Pharmacy, BITS Edu. Campus, Vadodara won “student open Innovation Challenge” in Pharmacy domain for the project “Transethosomal topical gel of Apremilast for treatment of Psoriasis” and received a project grant of Rs 1.5 Lakhs. The team received the award from honorable Education minister of Gujarat Shri. Bhupendrasinhji Chaudasama and the Principal Secretary, Higher and Technical education, Govt. of Gujarat, Smt. Anju Sharma in the event “Startup-Mentor Meetup” on 15th November, 2019 at Gujarat SSIP- Hub, KCG Campus, Ahmedabad. The team comprised of students of M.Pharm 3rd semester, Ms. Mrunal Rahangdale and Ms. Jeel Kakasania along with Project mentor Dr. Prachi Pandey.

Dr. G. Saravanan, M. Pharm., Ph.D., working as Professor in Department of Pharmaceutical Chemistry, MNR College of Pharmacy, Sangareddy, Hyderabad, participated & got Best Achiever Award in APP 12th Indo-Malaysian Conference on “Innovations & Updates in Pharmaceutical Sciences” held at Samskruti College of Pharmacy, Ghatkesar, Hyderabad on 8th November 2019 for his outstanding contribution in both research & teaching.

Views And Reviews- 4


Professor Harkishan Singh of Panjab University, Chandigah is a well known Medicinal Chemist by profession but he is now known as historian of eminance. In the last three decades, ie; after superannuation he has dedicated his life in researching and documenting the history of pharmacy in India and other contemporary developments of the profession, its practices, men, institutions and industries. His works have been extensively published in professional journals in India. But APTI has taken the yeoman’s task of compiling his works in the form of ‘volumes’ for posterity.

The present ‘Volume-4’ is the latest (2019) in the series. It is divided in to 17 chapters covering nearly 170 pages. For one who has closely followed Professor Singh’s works, most of the pages of the volume-4 are earlier published elsewhere but the chapter-1 ‘Making of an archival collection and its utilization’ gives his personalized account of how he began his journey of researching and documenting the history of science in general and pharmacy in particularly- a pains taking journey for a
retired University professor. He documents year wise or step by step (1998-1994; 1995-97; 1998-2000; 2001-08; 2009-11; and the rest) journey, though some it has been covered in as many of his earlier articles. The historical aspects of drugs and pharmacy statutes, status of Indian pharmaceu- tical industries, the unsung Heros of pharmacy including some Britishers who contributed to drug industry have been aptly covered, something Universities do not teach in their curriculum. It is evident from the description that the author has derived inspirations from stalwarts like Professor GP Srivastava, Professor ML Schroff, Professor Ramanath Chopra and the likes. In the digital world, the old titles or even the existing Indian Journals have lost their relevance as they have not kept up with times, much to be blamed to Indian academia. But one thing I have observed that in his selection of individuals (his preroga- tive) at places misses, quote 'set him/her in the context of time', unquote (page-13). Intersting enough, he writes about three contemporary Indian professionals (late DK Jain, BD Miglani and PR Pabrai) and about one living leg- end (nonagenarian PC Dandiya). The volume has been dedicated to late Mrs Gian Kaur, the lady behind the com- mitted scientist and historian.

The publishers, APTI, Bengaluru deserve rich compliments for their efforts to bring out such invaluable works to the attention of the profession. The book is recommended for the University libraries, more so to libraries of Pharmaceutical institutions, a valuable collection.

**Professor S.K. Kulkarni**, Emeritus Professor (skkulkarni46@gmail.com)

**A Textbook Chemistry of Natural Products (First Edition)**


This book is auothered by

**Dr. Sunil S. Jalalpure** M. Pharm, Ph.D.
**Professor**, Department of Pharmacognosy & Phytochemistry, KLE College of Pharmacy, KLE Academy of Higher Education and Research, Belgaum, Karnataka

**Hasni Sayyed Hamid Yahiya** M. Pharm
Assistant Professor, Department of Pharmacognosy & Phytochemistry, P.S.G.V.P. Mandal's College of Pharmacy, Shahada, Dist. Nandurbar, Maharashtra

**Dr. Javesh Kashinath Patil** M. Pharm, Ph.D.
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Authors have made great effort to provide information about the chemistry of natural products in simple way. As academician I believe that there is no single textbook available for the students of pharmacy to get in detail Chemistry of Natural Products and have provided a one-stop solution to the students of pharmacy regarding natural product chemistry.

The book is written with intention to cover almost all the chemistry aspect of natural products, and the information of natural products is been provided through the scheme of different chapters in simple language. The book includes informative introduction of natural product chemistry, also a chapter dealing with the structural elucidation of natural products and the technique in brief used for the same. The secondary metabolites like terpenoids, glycosides, alkaloids, flavonoids, carotenoids, lignans and antibiotics are explained in details using suitable and important constituents. Individual drugs of each class are explained in detailed and description includes introduction, chemistry, stereochemistry, pharmacological properties and biosynthesis in lucid language and easy to understand flow charts.

The every chapter of the book is useful to the pharmacy students of undergraduate and postgraduate. The information presented in the book is quite useful for other than pharmacy professionals serving in different segments and departments of pharmaceutical industries. Also information provided in the book is helpful to the students and professions working on natural products and herbal/Ayurvedic drugs. Authors have taken utmost care to keep this book free from errors.
The book is excellent value for money and I consider it essential reading for undergraduate and post graduate students. I also recommend this book for practicing pharmacist, medicinal practitioners, herbalist and anyone interested in scientific aspects of medicinal and aromatic plants.

Dr Praveen Chaudhari,

President, Association of Pharmaceutical Teachers of India and Principal, Progressive Education Society’s, Modern College of Pharmacy, Pune

Herbal Drug Technology

The present textbook of herbal drug technology, is based on the curriculum of Pharmacy prescribed by the Pharmacy Council of India, caters to VI semester students of Bachelor course in Pharmacy. This book provides a solution to pharmacy students with consideration of a new PCI syllabus for herbal drug technology.

This book is written with intention to include all information regarding the chapters, all the practical aspects involved in the herbal drug technology along with important questions and MCQs. We find that there is no single textbook of herbal drug technology available, which includes all these information in a single book. The present book contains six chapters and sixteen experiments which can explain all information with consideration to syllabus of herbal drug technology.

This book provides in detail systemic information with simple language for easy understanding to undergraduate pharmacy students. The first chapter provides role of herbal raw materials in herbal drug preparations and also focuses on biodynamic agriculture. The second chapter deals with the Indian systems of medicines and different ayurvedic formulations. Third chapter explains the use of different nutraceuticals in various diseases. The different interactions related with herbs are also explained. The fourth chapter includes herbal excipients and raw materials used in herbal cosmetic formulation along with herbal formulation. Fifth chapter provides the information on WHO & ICH guidelines for the assessment of herbal drugs along with patenting and regulatory requirements of natural products. The last sixth chapter deals with the good manufacturing practice of Indian systems of medicine.

About the Authors

Prof. Sunil S. Jalalpure presently working as a Principal & Professor, Department of Pharmacognosy, College of Pharmacy, KLE University, Belagavi. He completed his B. Pharm. from Karnataka University, Dharwad (1996) and obtained his M. Pharm.(1998) and Ph.D.(2005) degrees from Rajiv Gandhi University of Health Sciences, Bangalore, Karnataka. He has undergone research training at Rhodes University, (2010) Grahamstown, South
Africa, on analytical instruments used in the standardization and quality assurance of pharmaceuticals.

Dr. Sunil Jalalpure is the recipient of the prestigious “APTI Pharmacy Teacher of the Year Award – 2017” and the Best Research Publication Award for the year 2017 and also received APTI Young Pharmacy Teacher Award” for the year 2012 by the Association of Pharmaceutical Teachers of India (APTI). He received “ISP Eminence Award-2018” by Indian Society of Pharmacognosy for distinguished contributions to the society of Pharmacognosy& recognition in teaching & research in Pharmacognosy stream. Dr Jalalpure received STARS (Sri Subbaraya Setty Teachers and Research Students) award 2017 in recognition of his merit in academic research and motivating young Pharmacy students instituted by American Association of Government College of Pharmacy (Bengaluru) Alumni, New York, USA.

Dr. Sunil Jalalpure is also recipient of Young Scientist and Best teacher awards by KLE University, Belagavi. He has received financial support from various funding agencies like UGC, AICTE, DST, DBT and ICMR for research projects, to organize and attend conferences/workshops. He is member of several pharmacy professional societies and has chaired several scientific sessions at national and international conferences. He has worked as organising secretary for several national and international conventions. He has been invited to visit Australia, Thailand, Malaysia and South Africa to attend and present research papers at conferences.

Prof. Jalalpure has published over 110 scientific papers in national and international journals. He has 3 intellectual property rights to his credit. He has successfully guided 40 M. Pharm. and 14 Ph.D. students and one Post Doc fellow towards successful completion of their research. Prof. Jalalpure authored a Text Book of Pharmaceutical Biotechnology published by Elsevier Publications and also authored a book chapter on “HERBOSOMES” which is published in book, NanoBioMedicine volume-6 (Drug Nano Carriers).

Mr. Bhaskar K. Kurangi presently working as a Research Associate, Department of Pharmaceutics, Dr. Prabhakar Kore Basic Science and research centre, KLE Academy of Higher Education, Belagavi. He completed his B.Pharm. (2011) and M. Pharm. (2013) from Shivaji University, Kolhapur and pursuing Ph.D. (2017) from KLE Academy of Higher Education, Belagavi. He has undergone short course work in Educational Methodology (2015) from Rajiv Gandhi University of Health Sciences Karnataka, Bangalore and also ICMR-NPTEL course in health research fundamental (2018). He has been awarded with best poster in National conference on Advances in drug discovery and development (2018). He is a member of many pharmacy professional bodies and has participated in many national and international conferences. He has also published scientific papers in national and international journals.
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Collector's Album

Caleb Davis Bradham

Born: 27 May 1867, Chinquapin, NC, USA
Died: 19 Feb 1934, Bern, NC, USA

Caleb Davis Bradham was an American pharmacist, best known as the inventor of soft drink Pepsi®.

Picture courtesy: Dr. Rajendra SV, Professor & Head, Department of Pharmacology, Krupanidhi College of Pharmacy, Bangalore