Dr. Hemchandra Tipnis (1933-2016)

The development of pharmacy education and the emergence of a strong research base in pharmaceutical sciences in India during the 60s to 90s can be attributed to the contribution of a few highly dedicated academicians, whom we fondly address to as doyens or stalwarts. These stalwarts converted the pharmacy institutions that they are associated with into the powerhouses that churned out high caliber graduates and postgraduate students who made a huge difference to pharmacy profession all over the globe. They established newer research areas in pharmaceutical sciences, authored books, which subsequently became desk references and developed the pharmacy institutions that they headed to international repute. Indian pharmaceutical fraternity lost one such stalwart recently leaving a huge void that cannot be filled for ages to come.

Dr. Hemchandra P. Tipnis, retired Principal of the Bombay College of Pharmacy (BCP) and Central Executive Council Member of the Indian Pharmaceutical Association (IPA) passed away on May 23, 2016 after a massive cardiac arrest. He is survived by his wife, Vinodini and daughter Reshma. Born on July 7, 1933, he completed his BSc (Tech) and MSc (Tech) from the University Department of Chemical Technology (UDCT), Mumbai in 1958. Dr. Tipnis then went on to complete his masters from the University of California School of Pharmacy, San Francisco and his doctorate from the University of Nebraska, Omaha in 1968. Dr. Tipnis then went on to complete his masters from the University of California School of Pharmacy, San Francisco and his doctorate from the University of Nebraska, Omaha in 1968. After briefly working at the UDCT as a reader, he joined the Bombay College of Pharmacy as the principal in 1971 and led BCP during the ensuing 25 years to new heights and international fame till his retirement in 1995. His research contributions were immense and some are listed here. He pioneered...
the initial bioavailability studies in human volunteers and his research papers formed the basis for amendments to Drugs & Cosmetics Act, with the ultimate inclusion in to Schedule Y in the Act. Dr. H. P. Tipnis, was amongst the first to understand the importance of industry tie-ups in the growth of academic institutes and sew-up partnerships between the pharma industry and BCP, a move that propelled BCP into the big league of pharmacy colleges not just in the country but internationally as well. He has over 180 research papers and review articles, written 10 books and produced 35 Ph.D., and over 100 M asters G raduates. His vision and acumen helped the Indian pharma industry get attuned to the global regulatory requirements and opened the doors to Indian A N D A filings with the U S FDA.

Dr. Tipnis had been just as active in the professional activities of IPA right since 1966. He was elected President of 59th Indian Pharmaceutical Congress (IPC), in 2007, held at Varanasi. He was also the Scientific Convener of IPCs in 1988, 1989, 1990 and 1991. Dr. Tipnis rendered his services to IPA’s official scientific publication, the Indian Journal of Pharmaceutical Sciences (IJPS), as its Associate Editor from 1997 to 2006. Dr. Tipnis has contributed immensely to the development of scientific journals in our country as well as to the development of scientific writing skills among Indian research students and academicians. He was instrumental in organizing scientific writing workshops inviting editors from United Kingdom.

After his retirement from BCP, Dr. Tipnis took up the assignment as Corporate A dvisor-Pharmacy Practice, in Medicine Shoppe where he ensured implementation of Good Pharmacy Practice concept in several of the stores of Medicine Shoppe. He formulated many leaflets, educational materials, articles in newspapers on the subject of patients’ understanding of taking medicines and compliance. In this crusade he gave many presentations in remote areas of Maharashtra, Gujarat, Karnataka, Kerala to introduce the concept of Community Pharmacy.

For his yeoman services to the association and the pharmacy profession IPA bestowed the prestigious IPA Eminent Pharmacist Award and the IRF Lifetime Achievement Award on Dr. Tipnis, in 2004 and 2013, respectively. He also won many other honours, including Lunsford-Richardson award (USA), Dr. G. P. Srivastava award, Prof. M. L. Khorana M emorial Lecture A ward (1993), PA M DA L A ward and IDMA awards for best research papers. He was also awarded the A ICT E Emeritus Professorship. He also received the prestigious A charya P. C. Ray G old medal of IPA Bengal Branch in November 2015 for his outstanding contributions to the overall development of the profession of Pharmacy.

I would like to narrate a few incidents from my observations as well as from my personal interactions with him, which bring out the simplicity and caring nature of his personality. Dr. Tipnis always dressed formally and wore a tie to work and rarely wore casuals. He took a bus to work and attended the college, even on the bad weather days during monsoon in Mumbai. I had the wonderful opportunity of working with him as a faculty member in BCP during 1989-1990. He went out of the way to make me apply for this position by personally sending a photocopy of the advertisement that appeared in a local newspaper that I could not have noticed myself. Just when I completed one year at BCP, I received an exciting job offer from the Hoechst India Limited, which I could not refuse. I approached Dr. Tipnis with the letter of resignation and was quite nervous to face him. He read the letter, wished me all the best with a smile, but imposed a condition to accept my resignation; he would relieve me only if I agree to continue to teach the M. Pharm students at BCP as a visiting lecturer on Saturdays, and I did that for the next 12 years. In 1997, he invited me to speak at a seminar organized in the Bombay College of Pharmacy on the occasion of completion of 50 years of Indian Independence and when I was a bit hesitant to accept the invitation, he told me that it is time that I start speaking on larger platforms. His constant encouragement to me to take up challenging things had a profound effect on me. Earlier this year he called me when the IPA C entre elections were announced and nominations were invited to tell me that he would like me to run for a second term but he would not nominate me if I am not interested. He was very happy when I informed him about my intention to run for a second term. He attended the central executive meeting in April 2016 to wish me all the best for my second term as IPA President. I never imagined that it would be my last personal meeting with him. The unforgettable moments for me in the capacity of the president of the Indian Pharmaceutical A ssociation is my good fortune and privilege to present him with the IPA-Ramanbhai Foundation’s (IRF) Lifetime Achievement award in the IPA Convention 2014, as well as the A charya P. C. Ray award of the IPA Bengal Branch in January 2016.

Rao V. S. V. Vadlamudi  
President, Indian Pharmaceutical A ssociation  
Director, St. Pet’s Institute of Pharmaceutical Sciences

20th May 2016 was a red-letter day in the history of APTI, as the day was earmarked for the inauguration of construction of The APTI-BM Reddy Innovation, Incubation and Education Centre.

The venue was Acharya Institutions, where the plot of one acre land has been identified for the same. This plot has been donated by Shri BM Reddy, Founder and President, JMJ Education Society.

The chief guests and guests of honour were present on time that included:

Ms. Shobha Karandlaje-MP, Udupi and Chickmagalur Constituency - Chief Guest
Dr. Muhammed Majeed, Founder and MD-Sami Labs and Chemicals Ltd. - Guest of Honour
Shri Raghuram Bhandary, Drugs Controller, Karnataka - Guest of Honour
Shri BM Reddy-Chairman, JMJ Institutions - Guest of Honour
Shri Gundu Rao DA-President-KSPC - Guest of Honour
Shri Dileep Kumar, President- AIDCOC - Guest of Honour
Dr. TV Narayana-Chairman-Education Divn IPA - Guest of Honour

APTI office bearers who were present on the dais along with the Chief Guest, and Guest of Honour were Dr. Burande MD-President, Dr. Rajendra Bhambar, Vice-President, Dr. N agori, Vice-President, Dr. M rs. Vandana Patrawale-Convener, APTI Women's Forum, Prof.BG Shivananda-Secretary and Dr. P Chaudhari-Associate Secretary.

The program began with chanting of mantras for inauguration, and performing of pooja at the site identified for the same. All members participated in the pooja, and formally performed the bhoomi pooja by digging earth at the site, with brand new tools. The stones and tools used for bhoomi pooja will continue to be used for construction.

Dr. Burande in his inimitable style and with passion, welcomed all dignitaries, through his welcome address.

The program began with chanting of mantras for inauguration, and performing of pooja at the site identified for the same. All members participated in the pooja, and formally performed the bhoomi pooja by digging earth at the site, with brand new tools. The stones and tools used for bhoomi pooja will continue to be used for construction.

Dr. Burande in his inimitable style and with passion, welcomed all dignitaries, through his welcome address.

The universal feature of the welcoming ceremony was that all the dignitaries on the dais were welcomed with a medicinal plant dedicated to them, which will, in turn, get planted at Acharya BM Reddy College of Pharmacy's medicinal garden.

The masters of ceremonies-Dr. Gayathri and Ms. Sushmita gave a brief introduction about APTI, JMJ Institutions, and on the project-the APTI-BM Reddy Innovation, Incubation and Education Centre.

Starting with a note on the Indian Pharmaceutical industry and its current status, the connect was established with the teaching fraternity, and outcome of good research for the success of the industry through APTI.

The objectives of the project, the conceptualisation of the same, the structure of the proposed building, the activities that the building will provide for, the proposed built up area, the uniqueness of the building, the cost estimate, and the timeline by which the building will be completed, were communicated to the audience. i.e., It will be scientifically designed with due consideration to all existing and future activities of APTI - including promotion of an entrepreneurial ecosystem through in-house dedicated incubation centre - the salient features of the proposed structure are:

- Floors that house incubation centre, seminar halls, museum, library, a hall of fame lounge, auditorium, amphitheatre, and the most important-labs.
- The entire structure will be well interconnected with open spaces / ramps and stairs. It will be a smart building with broadband Wi-Fi connectivity, Disabled-friendly and packed with academics-friendly features.
- An architectural marvel of 1,40,000 sqft, it is aimed at creating a free mind and cohesive working environment.
- The total cost of the Project estimated is Rs. 60.00 crores to be spent over a 2-year period.

Proposed usage of the new structure will be:
- To train 1000 to 1500 teachers every year in advanced knowledge and teaching techniques
- To enable Research activities in the in-house Research Laboratories
- To hold Interactive Seminars and Workshops with Corporates and Academic Institutions for placements, consultancy and research purposes
- To encourage industries to conduct their intellectual programmes such as Seminars and Presentations to teachers and students
- To encourage advanced academic pursuits by enabling knowledge and research resources
Afer communication of objectives of the program, M s. Shobha Karandlaje-M P, Udupi and Chickmagalur Constituency was invited to release the 50th year edition of IJPER (Indian Journal of Pharmaceutical Education and Research). She released the same, and distributed copies of the same to all dignitaries on the dais.

Dr. Majeed, Founder and M D-Sami Labs and Chemicals Ltd., then released the 100th Edition of APTI bulletin.

Shri Raghuram Bhandary, Drugs Controller, Karnataka released IJOPP (Indian Journal of Pharmacy practice).

Shri Dileep Kumar, President- AIDCOC released the brochure pertaining to APTI-BM Reddy IIE, which will then be used for collection of funds.

M s. Shobha Karandlaje in her address, praised the idea of one such Innovation centre. She also hailed Shri BM Reddy for his selfless thought and contribution of land to APTI. She also used the opportunity to make aware to the audience, that there were cases of distribution of spurious drugs in the state, and that the same needs to be curbed.

Dr. Majeed too, in his address, hailed Shri BM Reddy for his contribution, and wished the construction to progress at a fast pace.

Shri Raghuram Bhandary, through a simple calculation mentioned that considering the membership that APTI enjoys, of over 10,000 members, collection of funds should be a cakewalk. He also assured that audience that spurious drug manufacturers in Karnataka were under check.

Shri Gundu Rao also spoke about his long association with APTI, and wished the erection of the IIE Centre all success.

Dr. Vandana Patrawale impressed upon the need for Research, and the possible utilization of the IIE Centre for research activities.

Shri BM Reddy too addressed the audience, owing to popular demand.

The dignitaries on the dais were then honoured with Mementoes and fruit bowls.

Dr. Nagori used a couple of Sanskrit adages to reiterate the noble thought and action that has been contributing towards the erection of IIE Centre. He thanked all people who directly and indirectly contributed to the success of Bhoomi Pooja program.

A total of 300 invitees attended the program, which included APTI members, faculty and students from various Pharmacy colleges, Heads of Institutions, representatives from the Industry, community pharmacy, students, and members of the Press. The delegates represented the entire cross section of India, and covered invitees from all four zones.

The event was formally closed through singing of National Anthem, which was immediately followed by a sumptuous lunch.
Releasing of ijper

Releasing of APTI Bulletin

Releasing of ijopp

Releasing of APTI Brochure
A one-day national seminar on “Nano particulate system: Establishing a new paradigm to drug delivery, therapeutics, diagnostics and imaging in Medical sciences” was organised by S.K. Patel College of Pharmaceutical Education & Research, Gujarat University, Gujarat on 31st March 2016. The seminar was aimed to provide a challenging forum and vibrant opportunity for researchers and academicians to share their original research results and practical development, experiences on specific new challenges and emerging issues in Nanotechnology. About 70 delegates were registered for the seminar across India. The program was inaugurated by the chief guest Prof. Dr. A.N. Misra, Faculty of Pharmacy, M.S. University of Baroda, Baroda, Gujarat.

The convener of program Dr. R.K. Patel, Principal, S.K. Patel College of Pharmaceutical Education & Research welcomed the gathering and gave opening remarks, whereas Dr. Rajesh M. Patel, an organising secretary of seminar briefed about motto of the seminar. The seminar book was released by the chief guest of the seminar.

The first session began with informative and interactive talk on “Role of Nanotechnology in delivery of Protein and peptides” by Prof. A.N. Misra. Prof. Misra explained how different classes of proteins and peptides are used as drugs through nano particulate system. In the second session, Dr. Tejal Mehta, Professor, Nirma University gave insights on “Innovations in Nano-carrier based nose to brain targeting drug delivery”. In the afternoon session Dr. Sonal Bakshi, Professor, Institute of sciences, Nirma University and Dr. Anita Lalwani, Professor, K.B. Institute of Pharmacy delivered lectures on “Nano particles: A study of effect on human genetic material in vitro” and “Trends in Nanosizing technologies” respectively.

The one-day seminar was concluded by valedictory function and organising secretary, Dr. Rajesh M. Patel proposed vote of thanks. Feedback from participant was noted and participation certificate was issued to all delegates.

********

Sinhgad Technical Education Society’s, Sinhgad Institute of Pharmacy, Narhe, organized two-days State Level seminar on “Scientific Writing: For Funding and Research Communication”. The seminar was sponsored by Savitribai Phule Pune University and inaugurated by Dr. Krishna Iyer, Professor of Pharmaceutical Chemistry at Bombay College of Pharmacy, Mumbai and Assistant Editor of Indian Journal of Pharmaceutical Sciences, Dr. K. G. Bothara, Principal and Dr. C. R. Kokare, Vice-Principal of the institute. The seminar was aimed at faculty, researchers and PG students to discuss the importance of scientific writing for funding and research communication.

This two days State Level Seminar comprised series of plenary lectures by eminent personalities from different fields of scientific writing. The first lecture was delivered by Dr. Krishna Iyer on “Secrets of getting research work published” followed by informative and interactive talk by Dr. K.S. Jain, Principal, RM Institute of Pharmaceutical Education and Research, Pune on “The craft of writing a research paper”. In the afternoon session, Mr. Manish Bhujbal, Sr. Manager, Sci-Edge Information and Scifinder talked on “Scienfinder for Pharma research.”

At the end of day, Dr. C.R. Kokare, Professor in Pharmaceutics, Sinhgad Institute of Pharmacy, Pune nicely explained the do’s and don’ts of research paper.

On the second day of seminar Dr. Pradeep Patil, Sr. General Manager, Global IP & Corporate Strategy, Wockhardt Research Centre delivered lecture on importance of science and laws in patentability. Thereafter Dr. P. R. Vavia, Dean, Academic Section, UICT, Mumbai talked on “Collaboration for research funding”. In the afternoon session Dr. Jayant Khandare, professor in pharmaceutics, Maharashtra Institute of Pharmacy, Pune enlightened the audience on research methodology and writing of good research paper. Dr. Gaurishankar A land, Senior Scientist, Acorus Innovations and Research Pvt. Ltd., Pune, talked on “Decoding Art, Science and Commerce in getting research funding. The concluding lecture of the seminar was delivered by Dr. N. K. Subhedar, Visiting Faculty, Biology, Indian Institute of Science Education and Research, Pune talked on designing of experiment.

The seminar was concluded by distribution of certificates of participation to the delegates at the hands of Dr. N. K. Subhedar & vote of thanks by Dr. Urmila Aswar. This seminar was coordinated by Dr. Amol Tagalpallewar.
V. V. Institute of Pharmaceutical Sciences, Gudlavalleru had successfully organized one day National Seminar titled “Future Perspectives in Pharmaceutical Research”. Around 400 delegates including students, research scholars and faculty from various institutions attended and participated in the seminar. The inauguration ceremony commenced with lighting of lamp by Chief Guest Dr. K.V.S.R.G. Prasad, Professor, Institute of Pharmaceutical Technology, Sri Padmavathi Mahila Visvavidyalayam, Tirupathi, and Guest of Honour Dr. P.L. Mohan Kumar, Deputy Director, Aizant Drug Research Solutions Private Limited, Hyderabad. The Convener and Principal of the college Dr. A. Lakshmana Rao welcomed the resource persons and delegates. He addressed the gathering by emphasizing the primary objective of national seminar and importance of communication in day to day life. Later the CD containing scientific abstracts was released by chief guest. The seminar was enriched with plenary lectures of Chief Guest Dr. K.V.S.R.G. Prasad and Guest of Honour Dr. P.L. Mohan Kumar on topics “Translational Research” and “Application of LC-MS in Pharmaceutical Research” respectively. The convener presented mementos to the guests and inaugural function ended with vote of thanks. In the afternoon, scientific session was carried out where 100 research and review papers were presented. The valedictory session was started with inspired speeches of Chief Guest and Guest of Honour. After then the best presenters of oral and e-poster presentations of each department were encouraged with prizes. Mementos were presented to the guests by convener of the seminar. The program was curtain downed with vote of thanks and concluded with photo session.

K.L.E University’s College of Pharmacy, Belagavi, organized Two days National Convention on “Newer Approaches for developments & Promotion of N atural Products” in association with Society of Pharmacognosy. Dr. Prabhakar B. Kore, Hon’ble Chancellor, KLE University & Chairman, KLE Society, inaugurated the convention with lighting the lamp. In his inaugural speech he urged to research scientists and professors to utilize the existing technology for the production of quality and effective medicines. Dr. V.K. Dixit, President Society of Pharmacognosy, gave his presidential remarks on this occasion. The program was curtain downed with vote of thanks and concluded with photo session.

Sinhgad Technical Education Society's, Sinhgad Institute of Pharmacy, Narhe, organized one-day State Level seminar on “IPQC in Herbal Products”. The seminar was sponsored by Savitribai Phule Pune University and inaugurated by Dr. C. K. Kokate, Vice-Chancellor, KLE University Belagavi, Karnataka, Dr. K. G. Bothara, Principal and Dr. C. R. Kokare, Vice-Principal of the institute. The seminar was aimed at faculty, researchers and PG students to discuss the IPQC in herbal products. The preamble of the seminar was given by the coordinator of the state level seminar Prof. A. A. Bidkar. At this time the release of college magazine “SUSHRUT” was done by the auspicious hands of Dr. C. K. Kokate.

The seminar started with the keynote address of the chief guest Dr. C. K.
The first plenary lecture was delivered by Dr. R. Y. Nandedkar, Director, Anuyash Diabetic Research Center, Pune on “Herbal preparations, a consumer perspective.” In the afternoon session, Mr. G. G. Varma, Director, Everest Pharmaceuticals, Pune talked on “Quality control of herbal raw materials and IPQC of various Ayurvedic formulations.” At the end of day, Dr. S. S. Jalalpure, Deputy Director, Dr. Prabhakarrao Basic Science Research Center, Belgavi delivered a lecture on “Standardizations and In-Process Quality Control Parameters for Herbal Medicine.”

The seminar was concluded by distribution of certificates of participation to the delegates at the hands of Dr. J. B. A bhyankar, Director, Sharangdhar Pharmaceuticals Pvt. Ltd, Pune who was the chief guest for valedictory function. The vote of thanks was given by Prof. M. S. P. Dhat, Asistant Professor in Pharmacognosy. This seminar was coordinated by Prof. A. A. Bidkar, H O D, Dept. of Pharmacognosy.

********

MAKE IN INDIA TOUR

Prime M inister O ffice on 12 th A pril 2016 Congratulated A shokrao M anne C ollege of Pharmacy, Peth V adgaon, Kolhapur for successful execution of ‘M ake in India Tour’ to celebrate ‘M ake in India W eek’ 13 th to 18 th February 2016. The Institute has received an appreciation letter from Deputy Secretary of PM O congratulating for this unique initiative, said Dr. S. S. Patil, Principal of this Institute. In addition, Ministry of Industry and Commerce has directed this institute to seek assistance from Invest India Federation, New Delhi to promote this activity.

A s a part of G overnment of India’s ‘M ake in India C ampaign’ and ‘N ational Skill Development Program’, the institute has executed a seminar on ‘Impact of M ake in India & FDI on Indian Pharmaceutical Industry’ in the Pharmaceutical Institutes of Kolhapur, Satara, Ratnagiri, and Belgaum region to make aware Pharmacy graduates about the C ourrent Prospects and Impact of M ake in India C ampaign on Pharmaceutical Sector. The entire program was executed by the Training & Placement O fficer of the Institute and C hef C oordinator of this ‘M ake in India Tour’ M r. S. R. Kumbhoge. The seminar was based on the O pportunities and Skill Development required for Indian Pharmaceutical Sector in upcoming years. It has explored the facts and figures of IPM, detailed M ake in India program and opportunities ahead for the Pharma graduates. The appreciation from Prime M inister O ffice has led to expand this activity in maximum Pharmacy Institutes in upcoming days.

********

O ne day R egional L evel W orkshop organized on “C onservation of M edicinal Plants” was organized by C hannabasweshwara Pharmacy college, Latur (M aharashtra) Sanjeevani H ill W adwal T q. Chakur District Latur. W orkshop was organized in collaboration with Young Inspiration N etwork (Y IN ) of leading N ewspaper Sakal group which comprising literate youth involved in social activities & in building the N ation. O ne day workshop was organized as taking field activity at Sanjeevani H ill at W adwal of Latur District. H ill is well known for availability of variety of M edicinal Plants. A s per belief of people residing this region medicinal plants available in this region will be more potent and medicinally or therapeutically more effecte in the month of S eptember in U tara N akshatra. M edicinal Plants available in this region like A shwagandha, G okhru, Saraspurila, B rhami, G ymnema, L okhandi, V asaka, Shatavari, Ipecac etc are used in huge quantity by H akims & V aidyas to treat different illness & ailments at state & national level also. But uses of plants are not in proper quantity and manner, this leads to natural wastage and destroying the natural wealth by mankind. By considering importance of M edicinal plants available in this region & for creating awareness on conservation of these plants said one day workshop was organized taking as field activity.

The workshop was inaugurated by Shri A amsab Patil, V ice President, Z. P. Latur Shri A mbadasrao Patil Leader of V illage Panchayat, W adwal, V arsha G akwad, C o-ordinator of Y I N of Sakal N ewspaper Paper, W orkshop C oordinator Prof. S unil H indole, H akims & V aidyas, faculties and support staff of C hannabasweshwara Pharmacy college, Latur, faculties & students of nearby Pharmacy colleges, Science, Biotechnology & A griculture colleges were present on the occasion. A wareness rally was organized in the village W adwal in order to create awareness on Importance of M edicinal Plants of this region & conservation of these plants followed by presentations from the H akims, V aidyas & students. G reen signal to awareness rally was given by Shri H on. A amsab Patil, V ice President, Z. P. Latur as a C hef guest. Shri A amsab Patil in his speech he pointed out the importance of personal, social & environmental cleanliness relating to health & highlighted the efforts taken by local authority for creating awareness on plants available in this area. The H akims & V aidyas residing in near vicinity Shri N illappa S wami & Shri V inayak P awar in their presentations introduced the plants available on the hill, expressed the therapeutic effects and techniques in conservation of these plants.

********
In the afternoon session of One day workshop as a part of Mission “Swacha Bharat” all dignitaries, faculties, students, member of YIN took active part in cleaning the entire Sanjeevani Hill in order to conserve and keep up to date our precious national wealth. During cleaning waste material, polythene bags, plastic containers, and empty bottles were collected & disposed properly.

About 200 students from different Intuitions, faculties from various fields, members of Young Inspiration Network, Hakims, Vaidyas, local people were taken part in the one day workshop. The workshop was successfully organized by Pharmacognosy Dept. of Channabasweshwar Pharmacy College under the leadership of Principal Dr. S. S. Thonte, Coordinator of the Workshop Prof. S.S Indole, Prof. P. H. Bhosale, Prof. R. V. Sugave, Prof. R. M. Rajurkar, Prof. S. G. Zingade, Prof. A. R. Jadhav, Prof. M. Oin A ttar, Prof. N. Asher Shaikh, YIN coordinator M. Iss. Varsha G. Akwad, Support staff M. Iss. S. K. Pawar & M. Iss. V. B. Kumthekar and M. R. Darshan Bhosagaonkar, M. R. M. Ayur Purwat and Student members Potdar Shrikant, Kallure Priya, C. Hakure Shital, C. Chavan Sushmita, Linge Monika, G. Unale A. Peksha, Swami Prerna, Kore Sunil, Todgire Pradeep, Ballure Mahesh, Pandole Sagar, G. Hodake Kedar, Kalal Rahul, M. Ahajan Pramod, took efforts to make workshop grand success. Programme was concluded with National anthem.

A one day national level seminar was conducted at J.K.K.Nattraja College of Pharmacy, Kumarapalayam on the “Role of Clinical Pharmacist in India towards Safe and Better Medicines” on 07.04.2016. The seminar was sponsored by Indian Pharmaceutical Association Mumbai, IPA Tamilnadu State Branch & TANIPA Trust and was organized by Indian Pharmaceutical Association Bhavani-Kumarapalayam Local Branch.

The Inaugural session of the seminar commenced with the welcoming of the guests and speakers on the dais. In the inaugural session, Mrs. N. Sendamaraai, Chairperson, J.K.K.Nattraja Educational Institutions, welcomed the resource persons and delegates M. R. S. Ommsharravana, Director, J.K.K.Nattraja Educational Institutions delivered key note address. The theme of the seminar was based on the Role of Clinical Pharmacist in India. M. R. M. M. Yousuf, President IPA - Taminladu State Branch invited for the inaugural session as a chief guest. In his speech he emphasized responsibilities of Pharmacists towards public health. Different pharmacy colleges students and staff were participated in the seminar.

The speakers came also from different backgrounds and presented the audience with different practical experiences, insights, and views, both at an organisational and national level. It provided an excellent platform in understanding of the many perspectives in the field of clinical trials and pharmacovigilance. There were three plenary sessions exclusively devoted to clinical pharmacist in India towards Safe and Better Medicines. One was related to an update on global pharmacovigilance programmes - comparative status of pharmacovigilance in India and other countries delivered by Dr. Justin Kurian, Lecturer & Clinical Pharmacist, JSS University, Mysore.

A special address was delivered by Mr. A. Vijayakumar, Manager- Inpatient Pharmacy Services KMCH Adverse Drug Reaction Monitoring Center (PvPI), Coimbatore. In his speech he highlighted therapeutic advances in drug safety. Mr. R. R. Vijayaraj, Associate Manager, Pharmacovigilance, Accenture, Chennai. Mr. R. Vijayaraj, Associate Manager, Pharmacovigilance, Accenture, Chennai pointed out the importance of role of pharmacists in Pharmacovigilance programmes. The feedback of the participants confirmed that the seminar was very much appreciated. The seminar was structured in a way that helped participants to know the role of pharmacists. Dr. M. Senthil Raja, Professor, J.K.K.Nattraja College of Pharmacy proposed the vote of thanks.

Dr. Rama Rao Nadendla, Principal of Chalapathi Institute of Pharmaceutical Sciences (CIPS) conveyed that an International Seminar on “Recent frontiers in Drug discovery” was conducted by the Institute in association with of Royal Society of Chemistry (London) - India Deccan Local Section (IDLS) on 7th April 2016. The dignitaries graced the
occasion were, Dr. Kodela Venkata Rao, Executive council member, A charya N agarjuna University (A N U), G untur; Dr. Un durti. N. Das, professor and chief editor of International Journal Lipids in health and Disease, London, Dr. M. V. Basaveshwara Rao, Professor and chief Executive council member and Special officer, Krishna University, A chilli patnam, Sri. T. V. A njeyulu, president, Chalapathi Educational Society, G untur and principal. D r. U. N. Das garu delivered a lecture on the topic “G amma-linolenic acid (LA) therapy of glioma and other cancers”. In his lecture he addressed that most poly unsaturated fatty acids which are consumed through diet viz, dry fruits like walnuts, flax seeds were able to circumvent many types of brain, liver and kidney cancers. He explained the role of vitamin-E in the cancerous patients in relation to LA. Later all the dignitaries were felicitated. In addition, Indian Pharmaceutical Association (IPA) – Lam local branch of Chalapathi Institute of Pharmaceutical Sciences (CIPS) at G untur celebrated the 125th birth anniversary of Dr. B. R. A mbedkar at the campus Essay writing competition on the theme “Dr.B.R.A mbedkar- The maker of modern India” to the students all the courses at campus participated. The student’s viz., M r. G. Rajendra Prasad Reddy (3rd B. Pharmacy), Mr. T. Poornachand (4th Pharm. D) and M s. M. Lakshmi swapna Sai (4th B. Pharmacy) won 1st prize and M s. A. Sai Mounika (3rd B. Pharmacy), M s. K. N. Aga Swathi Sri (2nd Pharm. D) and M s. R. N. Aga sai Rupa (3rd B. Pharmacy) won 2nd prize in pharma quiz-2016 respectively. M s. P. Sowjanya and M s. R. Ramya Sri won 1st and 2nd prizes in the essay writing. Winners and runners up received prizes and merit certificated from Dr. Rama Rao N adendla, principal of Chalapathi Institute of Pharmaceutical Sciences (CIPS) and the Director, Sri. V inay garu, C halapathi engineering college.

********

8th A pril, 2016

Prof. N eville Punchard, Dean, School of Pharmacy, Dr. M icahel, Senior Lecturer in Pharmacy and Dr. M ukhlesur Rahman, Senior Lecturer in Pharmacy from University of East London, Straford Campus, London, UK visited G. Pulla Reddy College of Pharmacy on 8th A pril 2016.

Prof. N eville Punchard explained the “Academic programs, courses offered at University of London, UK.”

Dr. M ukhlesur Rahman presented a lecture on the topic “Development of Natural products as Lead molecules”. He discussed about natural products importance in treatment of various diseases and natural products as lead molecules.

Students of B. Pharm, M. Pharm, Pharm. D and Staff (Total 50) participated for seminar.

********

9th A pril, 2016

On April 9th 2016, School of Pharmacy, Lloyd Institute of Management & Technology, organized first ever M EG A PH AR M A JO B FEST 2016 on Career Opportunities for the B. Pharm., M. Pharm., Pharm. D., Diploma in Pharmacy and PhD Students from all over the country in association with Indian Pharmacy Graduates’ Association.

School of Pharmacy at Lloyd Institute of Management & Technology, established in 2004 is a centre of excellence for pharmaceutical education. The B Pharmacy & M Pharmacy courses are approved by Pharmacy Council of India (PCI) & AICTE and our students are amongst the rank holders in the entire U Niversity. Our Institute is affiliated to Dr. A P J A bdul Kalam Technical U niversity, Lucknow (Formerly U P Technical U niversity).

This was an innovative concept to organize the “PH AR M A JO B FEST 2016” which will bring together the employers in pharma industry and connect them with a wide range of talent available among students of this lucrative profession. It will be a great opportunity for the students of various pharma institutions to be face-to-face with bigwigs of the industry. The areas of interest could be Manufacturing & Production, Quality Control & Quality Assurance, Research & Development, Sales & Marketing, Hospital Pharmacists or any other suitable position in Drugs & Pharmaceutical, Cosmetics, Medical Devices and FMCG segments.

Chief Guest of the event Dr. G. N. Singh planted a tree in the LLOYD YD campus. Dr. G. N. Singh was felicitated by the President, Lloyd G roup, Mr. M. Anurag Thairani. Mr. Thairani in his welcome address thanked all the dignitaries for sparing their valuable time to make this event a grand success.

Dr. G. N. Singh emphasized on the quality education system with more of
practical orientation and internships. He informed the audiences about the various initiatives taken by CDSCO. Mr. Singh shared about the global presence of Pharmaceutical Industry of India and ample opportunities waiting for budding pharmacists. He also insisted on mutual respect for each and everyone with honesty and commitment in all deliverables. Mr. Singh also insisted that such activities are very necessary and important in today context for making students aware about the current expectations of industries from the aspirants.

The main attraction of the event was distribution of participation certificates to 28 participating Pharmaceutical Industries. 730 students (8-PhD, 3-Pharm M BA, 1-Pharm D, 10-Biotech, 27- Diploma in pharmacy, 252- M Pharmacy & 429- B Pharmacy) fresher & experienced from 106 different Pharmacy Institutions from all over the country registered for the interviews in different organizations as per their aspirations in key areas of Pharmacy Profession like Production, QC & QA, Research, & Development, DRA, Clinical Research, Hospital Pharmacist and Sales & Marketing. Following companies participated in the event. Each student was given opportunity in minimum of 2 organizations. Companies like Nestle offered a package of 4.8 Lakh PA after probation and shortlisted 6 students, Unichem and Panacea Biotec also shortlisted 5 and 6 students respectively. In totality more than 100 students were shortlisted and 6 companies has yet to declare their results after final screening.

Mr. Atul Nasa interacted with students and informed about the various career opportunities available in Pharma regulatory affairs and also briefed the students about importance of joining professional associations and participation in mega event like this.

Mr. S.L. Nasa also congratulated the institute for maintaining such high standards of teaching in the Department of Pharmacy. He told the audience about the various initiatives that he, as the registrar of the Delhi Pharmacy Council had undertaken for the upliftment of the pharmacy profession.

In the end, Dr. Vijay Bhalla thanked the guests and the entire team of Lloyd for making the event successful.

********

22nd and 23rd A pril 2016

KV SR Siddhartha College of Pharmaceutical Sciences, Vijayawada in collaboration with ISPO- R-A-P Chapter, Riper, A nanthapuram has conducted a Two-day 7th National Symposium on Pharmacoeconomics and outcomes Research with a theme "Improving Health Outcomes through Evidence Based Practices" during 22nd and 23rd A pril 2016. It was inaugurated on 22nd A pril 2016 by Smt. M. Krishna Kumari, Deputy Director, All India Radio, Vijayawada and presided by Dr. C. Chadelevada Nageswara Rao, Vice-President, Siddhartha Academy of General & Technical Education and Convener of the college. Totally 5 invited guest lectures were arranged on the theme and the resource persons are from Chennai, Coimbatore, Pune, A nanthapur and G untur. 50 research papers were also presented by Pharm.D and Pharm.D (PB) students. This was graced by Sri. N. Venkateswarlu, President, SAGTE, Dr. Devala Rao G. arakapati, Principal, Dr. Buchinalu N alluri, P.G. Director, staff and students. In this Two-Day Symposium, more than 200 Pharm.D and Pharm.D (PB) students have participated.

********

24th A pril, 2016

Devaki Amma Memorial College of Pharmacy and the Hospital Pharmacy Division, Indian Pharmaceutical Association jointly organized One Day Workshop on "Clinical Pharmacy Skills Development For Pharm D Students" at Devaki A mma M emorial College of Pharmacy, Chelembra, M alappuram on 24th A pril 2016. Dr. G. Babu, Principal of Devaki A mma M emorial College of Pharmacy gave the welcome address. Dr. Ramesh A depu, Chairman, H ospital Division, Indian Pharmaceutical Association and Dr. Justin Kurian, Lecturer and C linical Pharmacist, JSS C ollege of P harmacy, M ysore were the speakers for the workshop. Vote of thanks was given by Dr. Siraj Sundaran, H ead of the Department, Pharm. D.

Dr. Ramesh A depu inaugurated the newly built Department of Pharmacy Practice. Staffs of Pharmacy Practice and Students of IV Year Pharm. D and V Year Pharm. D actively participated in the workshop.

********
The concept of competitive games is imperative in the development of educational institutions. Jaya College of Pharmacy have been putting their best efforts in imbibing knowledge and imparting skills to students in various sports to develop them to higher level of expertise. B.Pharm course students actively participated in the Intercollegiate sports meet – 2015 held at Mohamed Sathak A.J. College of Pharmacy from 28.4.2016 – 30.4.2016 and won First prize for Throw ball and second prize for Volley ball competition. The Management, Principal, Director, Class Incharges and all Faculty members congratulated the students for their fabulous performance.

********

6th May, 2016

Dr. Rama Rao Nadendla, Principal, Chalapathi Institute of Pharmaceutical Sciences (CIPS) conveyed that on 6th May 2016, the 1st Annual Convocation for the award of B.Pharmacy degree was bestowed by the chief guest was, Sri. Ravela Kishore Babu, M inister of social welfare, tribal welfare and empowerment, A ndhra Pradesh to the students. In addition, on 5th May 2016, Annual Academic Excellence awards were awarded to the students who topped for the academic year 2014-15 in the year-end and semester-end examinations of B.Pharmacy, M .Pharmacy and Pharm.D courses. The awards were presented by the chief guest, Sri. D. N arendra Kumar, Ponnur constituency, M .L.A., A P. Dr. K.R.S. Sambasiva Rao, Rector, A charya N agarjuna U niversity ( A N U), G untur, T. G opala Krishna Reddy garu, Ramakrishna M ission, preceptor for meditation, G untur division, Sri.D.V inay Kumar, director, Chalapathi Institute of Engineering and Technology (C.I.E.T) Sri. Y.V. A njeyulu, president, Chalapathi Educational Society (C.E.S), G untur. An academic excellence awards to students. In the M .Pharmacy course, M s. Ch.Sai Charitha ( M .Pharm-Pharmaceutics); M s.P.Sai G eeravani ( M .Pharm-pharmaceutical A nalysis); M s.S.Kavya ( M .Pharm-Pharmacology); M s.S.Kavitha ( M .Pharm-Pharmaceutical M anagement and Regulatory A ffairs (P M R A)); M s. Ch. L akshmi B harathi, M r. D.Ayasagar, M s. G .Dolly, M s. M . M ounika and M r. R. Spandana Yassawini (1st year B .Pharmacy); M r. G . R ajendra Prasad Reddy, M r. G . T rivikram, M s. T. Poojitha, M s. K. N aga M ounika, M r. M . A neesh, M s. R. N aga S ai Rupa, M r. S. K. A slam H ussain, M r. S. V enkatesh and M s. U. J hansi S ni. ( 2nd Y r B .Pharmacy); M s. V. N isitha (3rd B .Pharmacy); M s. S. K. N aga S wathi S ree (1st Pharm.D), M s. R. B hayya R age D eepika (2nd Pharm.D), M s. M . J yosthna and M s. Y. D ivya (3rd Pharm.D) and M s. G. M ounika and M s. K. S ucharitha (4th Pharm.D), M s. B. M ounika (5th Pharm.D) received cash reward of Rs.5000/- each respectively. Moreover, on 24th April 2016, CIPS celebrated its 12th annual day function. The dignitaries graced the occasion were the chief guest Hon’ble M inister of A .P. Sri. Prathipati Pulla Rao, M inistry of agriculture and agri-processing, M arketing and ware-housing, A nimal husbandry, dairy development and fisheries, A ndhra Pradesh; Hon’ble S ni. T.Sravan Kumar, M .L.A., T afraid M andal; distinguished guests, Dr. N. M urali Krishna, G G H, G untur; Dr. Posani Srinivasa rao, Sravani hospitals; Dr. R. J agadish Babu, C E O, B iophore pharmaceuticals, H yderabad, Dr. Prasanna S agar, G emeral manger, R&D, G land Pharma Ltd., H yderabad, Sri.G.Peddappa Ch owdary, Director-Production, Dr. Reddy’s Laboratories Ltd., H yderabad, Sri. Y.V. A njeyulu, president, Chalapathi Educational Society (C E S), G untur principal...
Prof. Rama Rao Nadendla the press and media. The chief guest, hon'ble Sri. Prathipati pullar rogarao expressed that just like pushakaram, CIPS having secured autonomous status from UGC after completion of 12 years is something like with new aims, raised spirits, vibrant horizons will move ahead and be elite institute on international platform.

6th – 11th May, 2016

Department of Pharmaceutical Science & Technology Satna (M.P.) had organized National Workshop on “Recent Trends in Scientific Instrumentations with Skill Innovations & Skill Employability” Sponsored by M P Council of Science & Technology-Bhopal & Co-Sponsored by A KS University, Satna on 06-11 May 2016. The one Week National Workshop was organized in Association with Chromatographic Society of India, Mumbai & PG Tech Research Institute, Indore. On this occasion, the Memorandum of Understanding (M O U) between the A KS University, Satna, M.P., India and PG Tech Research Institute, Indore, India was signed in the inaugural session. The M O U shall promote the interdisciplinary research, impart vocational and skill oriented training and other programs for the benefit of the students and staffs of both organizations. Around 200 participants - comprising: research scholars, under graduate and post graduate students and faculty members from Pharmacy and Science were participated in this program.

The inaugural function starts immediately after registration & breakfast. Presidential address was given by Shri. B.P.Soni, H'onble C chancellor, A KS University, Satna and the Chief Guest of the Inaugural session of the National Workshop was Dr. Vipin Kumar, Director, National Innovation Foundation, Ahmedabad. The Guests of Honor were Dr. P.K.Banik, Hon'ble Vice-Chancellor, A KS University, Satna, Sh. Ashish Tiwari, Director, PG Tech Research Institute, Indore, Dr. R.S. Tripathi, Pro Vice-Chancellor (Administration), A KS University, Satna, and Dr. Harshwardhan, Pro Vice-Chancellor (Development), A KS University, Satna were other guests on the Dais include Dr. R.P.S. Dhakarey, Chairman (Organizing Committee) & Prof. Surya Prakash Gupta, H'ead, Department of Pharmaceutical Science & Technology & Organizing Secretary. Prof. Surya Prakash Gupta, H'ead, Department of Pharmaceutical Science & Technology & Organizing Secretary welcomes the guests & delegates. Various guests off the stage include O ur M anagement Team of the University, Er. A.K.Soni, Shri A/Assistant Professor, A KS University, Satna, was the Chief Guest. The function was presided by Shri. B.P.Soni, H'onble C chancellor, A KS University, Satna. The Guests of Honor were Dr. P.K. Banik, H'onble Vice-Chancellor, A KS University, Satna, Sh. Ashish Tiwari, Director, PG Tech Research Institute, Indore, Dr. R.S. Tripathi, Pro Vice-Chancellor (Administration), A KS University, Satna, and Dr. Harshwardhan, Pro Vice-Chancellor (Development), A KS University, Satna. The inaugural function started with the valuable talk & practical demonstration of Mr. Ashish Tiwari, Director, PG Tech Research Institute, Indore. He delivered his talk on HPLC and gave live demonstration on HPLC.

Second day: technical session starts with the invited talk of Dr. Kamal Shah, Assistant Professor, Institute of Pharmaceutical Research, GLA, Mathura, India. His lecture was followed by talk and practical demonstration of Mr. Ashish Tiwari, Director, PG Tech Research Institute, Indore who demonstrated the experimental part of HPLC instrument.

Third day: was kept for HPTLC lecture & Instrumentation. Dr. R. Manoj Tripathi, Incharge, Deendayal Research Institute, Chitrakoot, U.P., India gave his informative talk on abovementioned topic. Fourth day was absolutely devoted for PCR, gel electrophoresis lecture & Instrumentation. Dr. Kamlesh Chaure, Associate Professor & H'ead, Department of Biotechnology, A KS University and M'r. Sadanand Borkar from ependorf, Hyderabad enlightened us with their valuable talk on abovementioned topic. Fifth day was devoted for FT-IR, U V-V is Spectroscopy, G C lecture & Instrumentation. Dr. Neeraj U manyu, Professor & H'ead, School of Pharmacy and Research, Peoples University, Bhopal and M'r. Amit Sharma from Perkin elmer, Mumbai enlightened us with their valuable talks on abovementioned topic. Dr. Kamlesh Chaure, Associate Professor & H'ead, Department of Biotechnology, A KS University also coordinated with the hands on of UV-V is instrument. Sixth day was absolutely devoted for valuable lecture on “The Importance of Chromatography and Hyphenated Techniques in our Daily Life and the Role of Educational Institutions in the Skill Development” by our learned speaker Dr. G. Ramakrishnan, President, Chromatographic Society of India, Mumbai.

The National Workshop had registered almost 200 participants from various parts of country. The participation included faculties, research scholars & graduate students too. The participants & Students have undergone rigorous trainings on abovementioned instrumentation and technologies.

In valedictory function, Dr. P.K. Banik, H'onble Vice-Chancellor, A KS University, Satna, was the Chief Guest. The function was presided by Shri. B.P.Soni, H'onble C chancellor, A KS University, Satna. The G'uests...
of Honor were Dr. G. Ramakrishnan, President, Chromatographic Society of India, Mumbai, Er. A. K. Soni, Chairman, A KS University, Satna, Dr. R.S. Tripathi, Pro Vice-Chancellor (A dministration), A KS University, Dr. Harshwardhan, Pro Vice-Chancellor (D evelopment), A KS University, Dr. R.P.S. Dhakarey, C haiman (O rganizing C ommittee) & Prof. Surya Prakash G upta, Head, Department of Pharmaceutical Science & Technology & O rganizing Secretary were also present on the stage. Delegates had submitted their feedback and received certificates and dispersed after enjoying high tea. The workshop was successfully coordinated by teaching members namely Dr. (M r) M adhu G upta, M r. Prabhakar Tiwari, M r. A nkur A garwal, M r. C . P. Singh, M s. Priyanka G upta, M r. Pradeep Tripathi, M s. N eha G oel, M r. R eni I gam, Dr. D eepak M ishra, Dr. S amit K umar, M r. A hid U smani, M s. S andhya P andey and non-teaching staff members. Prof. Surya Prakash G upta, O rganizing Secretary, L O C summarized the events of O ne w eek N ational workshop and thanked all L O C members for their enormous contribution. The delegates expressed their satisfaction over the quality data presented at the various scientific sessions. The workshop ended with a vote of thanks from Prof. Surya Prakash G upta, O rganizing Secretary and N ational A nthem.

********

26-28th May, 2016

A D I N A Institute of Pharmaceutical Sciences, Sagar (M.P.) had organized Instrumental Training Programme cum Workshop from 26th to 28th May, 2016 on HPLC, U V, F TIR and Bioanalyzer. Twenty five participants from different states of India like M aharastra, Rajasthan, G ujarat, M.P. etc. attended this programme and benefited by the demonstration and hands on training of these four modern analytical instruments. This programme has been co-ordinated by Dr. Prateek J ain, Dr. Rupesh G autam and M r. V ivek J ain, faculty of A D I N A Institute of Pharmaceutical Sciences, Sagar. C haiman Shri Rajesh J ain and D irector Dr. Sunil J ain declared the next two training schedule from 23rd J une to 25th J une, 2016 and 21st J uly to 23rd J uly, 2016 on the same instruments.

********

2nd June 2016

Pravara Rural College of Pharmacy, Pravaranagar, A/P- Loni organized Campus Recruitment Drive for B. Pharmacy final year students by Sun Pharma Ltd., Mumbai in Quality Control & Quality Assurance departments on 2/6/2016.

M r. Ujval J ahita, H R M anager and M r. A hesh Thakare, Senior M anager Sun Pharma Ltd., Mumbai highlighted about job profile and various career opportunities in Q uality lab Department of Sun Pharma Ltd. O nline A ptitude test was conducted initially to screen the candidates followed by final interview.

07 students were offered the job in the final round for the various posts at Sun Pharma Ltd, Mumbai.

The campus drive was successfully organized by Dr. S . A . N irmal, Principal & co-ordinated by Dr. N. S. D ighe & Prof. R . B. L aware. Dr. A shok V ikhe P atil, E xecutive C hairman, Pravara Rural Education Society supported the activity and congratulated selected candidate.

********

21st June, 2016

N ational Service Scheme unit of Sinhgad Technical Education Society’s, Sinhgad Institute of Pharmaceutical Science, Kusgaon (Bk) Lonavala Dist., Pune 410 401 had organized “2nd International day of yoga” on 21st J une 2016 in College. International day of yoga is also called as the world yoga day. United N ations General A ssembly has declared 21st of J une as an International Yoga Day on 11th of December in 2014. Yoga in India is considered to be around 5,000 year old mental, physical and spiritual practice. This Event was organized by Prof. N arenra M. G owekar, Programme officer, N ational Service Scheme. Dr.
R. N. Kane, Principal of the institute addressed the gathering and told about that Yoga is very necessary and beneficial for all human being if it is practiced by all on daily basis in the early morning. Prof N. M. Goweiker have votes of thanks.

********

ACHIEVEMENTS

Dr. U. S. Sharma, Professor and Director Sir Madanlal Institute of Pharmacy, Etawah, UP, conferred "Financial Education Resource Person", by Stock Exchange Board of India (SEBI), subsequent to successful completion of strenuous interview and training at Radisson Hotel, Varanasi, UP.

Dr. Sharma apart from Doctorate & Post-G raduation in Pharmacy is also having post-graduation in Management and among 1467 resource person across India. He is having to his credit various awards like “Jewel of India Award” and a “Certificate of Excellence” by Indian Solidarity Council, New Delhi, “Rashtrabishnu Award” by Foundation for Accelerated Community Empowerment, New Delhi, “Bharat Vidhya Shiromani Award” and a “Certificate of Education Excellence” by International Institute of Education & Management, New Delhi.

Dr. Sharma is a life and fellow member of various professional organizations like Association of Pharmaceutical Teachers of India, Indian Pharmacological Society, Indian Council of Chemist, Rural Health Syndicate, Indian Red Cross Society, and Society of Pharmaceutical Education & Research.

He has published 40 and presented 87 review/research articles in various national & international journal and conference/seminar of repute. He is acting as a reviewer of various national and international journal of high reputation and also as an Editor In Chief for the “Journal of Phytopharmacology”.

Dr. Sharma has fetched grants from Department of Science and Technology, Indian Council of Medical Research, CPCSEA, N ew Delhi and Council for Science & Technology, Lucknow for organizing IN SPIRE Science Camp, Conference/Seminars and Entrepreneurship Development Programme etc.

********

Mohammed Rageeb Mohammed Usman conferred with Young Talent Award 2016 by Prof. (Dr.) S. H. Ansari (Jamia Hamdard University, Delhi), Prof. (Dr.) V ikas Singh (Campus Director, CGC, Landran, Chandigarh), Prof. (Dr.) U pendra Kumar Jain (Principal, C CP, Landran), Dr. U pendra N agaich (S P E R Secretary) from Society of Pharmaceutical Education and Research in International Conference and Exhibition at Chandigarh College of Pharmacy, Chandigarh on 4-5 March 2016.

********

Ph.D AWARDEES

Dr. V. Palanivel M. Pharm PhD Pharmacology working as a Professor & H O D in the department of pharmacology in Padmavathi college of pharmacy and research institute. I have been awarded the degree of Doctor of philosophy (Ph.D) in Pharmacology on January 2016 by PRIST University, Thanjavur, TamilNadu. On the research work entitled "Evaluation of antidiabetic activity of some herbal plants in diabetes induced animal model" under the guidance of Dr. K. L. Senthilkumar. Membership in the professional bodies A P T I M embership ID: T N /L M - 5 6 4, Tamilnadu State Pharmacy Council Life M ember M embership ID: 1 0 2 7 5 /A 1 , Editorial board member in international journal (Asian Pacific Journal of Pharmacy & Phytochemistry) i have more than 11 years experience, i have more than 12 national and international publication in the reputed journals, i guided more than 10 post graduate projects and more than 10 under
graduate projects, I thank to my research guide cum principal and my colleagues staff members, my friends and my family members.

********

**Dr. Reena Gupta**, Assistant Professor, Institute of Pharmaceutical Research, G.L.A. University, Mathura has been awarded the degree of Doctorate of Philosophy (Ph.D.) degree in Pharmaceutical Sciences on a topic “Pharmacognostical & Antitussive Activity of Some Herbomineral Formulations” under the supervision of Prof. M.K. Gupta, Jodhpur National University (J N U), Jodhpur. She published more than eleven research papers in an international journal which is covered in SCI, PUB M ED, Scopus & EM BA SE Elsevier. She has fellowship of FIC PH S and FRSH. She awarded “Best student Ph.D. award” by the Society of Pharmaceutical Education & Research (SPER) in 3rd Annual conference which was organized by Lovely Prof. University, Jalandhar on March 2014. She has two “Best Paper” award. She also awarded “Young Scientist Award” by the Society of Research Scholar Hub, Gujarat. She also has “Best Paper Presentation” award in C Handigarh College of Pharmacy, C handigarh. She has 18 research papers out of this 12 papers are published in international journals. She has more than twelve years of teaching and research experiences; and presented several papers in National and International Conferences. She has guided three M. Pharm. students. She is a life member of A PTI. She is editorial board member of more than eighteen international/national journals. She is also reviewer in Pakistan Journal of Pharmaceutical Sciences (SCI, Scopus), A J PRH C (ESCI index), J PT. (SAGE), I J DDR (Scopus) & I J P B S (Scopus) etc.

********

**Md. Rageeb Usman** Invited as a Guest and acting as a “Judge for Scientific Poster Session” during National Conference on Regulatory Affairs, Patenting and Future Prospects for Pharmacists’ Sponsored by A PTI M. Maharashtra State and Organized by N E S’s G angamai College of Pharmacy, N agoan, Dhule, M aharashtra, India on 20 February 2015.

Hon. Balasaheb M. D. Bhadane (Secretary, N agoan Education Society), Hon. M aisahed D. M. Bhadane (Member, N agoan Education Society) act as ‘Patron’ (Dr. U mekar M ilind J., President, A PTI M. S. & Principal, S. K. B. College of Pharmacy, Kamptee, M aharashtra) act as ‘Guest of Honors’ Dr. V ijay M . Shastry (Principal, N ES’s G angamai College of Pharmacy, N agoan) act as ‘Convener’ and M r. G . K. Bhool, Dr. L andge A mol D, Dr. Sufiyan A hmad (G angamai College of Pharmacy) act as ‘C o-ordinator’.

Conference was initiated with lecture by M r. Y ogesh Bhide (G ener a M anager, F ormulation and Development Indoco Remedies M umbai, M aharashtra) and Prof. Shantanu Kale (S andee p Institute of Pharmaceutical Science, M ahirawani, N ashik, M aharashtra).

********

**Dr. D.Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune**, a renowned institution of the country imparting Quality Education in pharmaceutical sciences since two decades has been awarded with Grade “A” accreditation by the N ational A ssessment and A ccreditation C ouncil (N A A C). The institute has achieved this status in its first cycle of N A A C with highest CG PA score of 3.29 amongst all the pharmacy colleges. The peer team headed by Dr. C. K. Kokate, V ice - C hancellor, KLE University, Belgaum, Dr. S. S. Pandya (M ember C o-ordinator), Former Principal, K. B. Insititue of P harm. Education and Research, G ujarat and Dr. B. M ishra (M ember) , Professor I I T - B anaras H indu U niversity, Varanasi had conducted the assessment from 25th A pril to 27th A pril 2016.

**Secretary A PTI.**

Dear Members,

The contributors to A PTI Bulletin who require hard copy of the bulletin must send their postal address along with the write up. This will enable us to post hard copy to the contributors. The A PTI Bulletin soft copy is mailed to all the A PTI members as a link and uploaded on www.aptiindia.org

A PTI Members are invited to contribute for the collectors Album and the Continuing Education sections of the A PTI Bulletin. Kindly send your write ups and the collection to be shared by all the members at aptienquiry@gmail.com, or dangraman2000@yahoo.co.in.
Dr. T.V.N arayana, Vice President, IPA and Chairman IPA Education Division, Mumbai, has been selected for the prestigious 'JCP Inspiring Leader and Role Model Award for the year 2016'. Given annually to a renowned Pharma professional who made significant contributions in the area of Pharmaceutical Education by the Journal of Comprehensive Pharmacy (JCP), based on the recommendations of the advisory committee, the award was conferred at the 1st Indo-U.K Seminar on "Pharmaceutical Education and Research: Challenges and Opportunities" organized by Gokula Krishna College of Pharmacy (in association with IPA Education Division) at Sullurpet, Nellore, Andhra Pradesh held on 9th July, 2016. JCP acknowledges his contributions by conferring the award to Dr. T.V.N arayana.

The institute has already been reaccredited by National Board of Accreditation (NBA), New Delhi for the period of five years, the only pharmacy institute from the state to achieve this status and is also recognized by University Grants Commission (UGC), New Delhi under the section 2(f) & 12(b) and is eligible to apply for research grants and student related schemes.

Dr. P. D. Patil, Chairman; Mrs. B. P. Patil, Vice Chairman and Dr. S. P. Patil, Secretary, Dr. D. Y. Patil Vidyaprathishthan Society, congratulated Principal Dr. S. S. Chitlange, Teaching staff, N on teaching staff and students of the institute for this achievement.

********

A P T I  M E M B E R S are invited to contribute for the collectors Album and the Continuing Education sections of the APTI Bulletin. Kindly send your write ups and the collection to be shared by all the members at aptienquiry@gmail.com, or dangraman2000@yahoo.co.in.
Emil von Behring
(15 March 1854 – 31 March 1917)

A German Physiologist received Nobel Prize in Medicine in 1901, for his discovery of a diphtheria antitoxin

Contributed by
Dr. Kuntal Das
Professor
Krupanidhi College of Pharmacy
Bangalore
Introduction

India is the vast source of medicinal plants that are mainly procured from the forest zone and due to the different soil climatic zone many medicinal plants are cultivated in the field for the abundant availability of the raw materials which is a most advantageous than other country in the world. This cultivation system gives us economical benefits by exporting raw herbs in many countries and the healthy growth of these medicinal plants are mainly depends on the newer cultivation methods as per Good Agricultural Practice. But healthy plant growth is mostly depends on the soil nature which is a biotic factor. Several literature revealed that the sources of heavy metals in the environment include geogenic, industrial, agricultural, pharmaceutical, domestic effluents, and atmospheric sources. Soil nature is a major concern as of the geogenic source. In that, heavy metal plays a key role in soil which is the major cause of health problems in recent era. Plants are contaminated with heavy metals during cultivation in the field, processing and during handling. It is essential and prime important to have quality healthy medicinal plants in order to protect consumers from these heavy metals contamination. Heavy metals are those metal who having relatively high density, or of high relative atomic weight and have a specific gravity of more than about 5 g/cm³. Some heavy metals are essential in very low concentration that are known as trace metals because of their presence in trace concentrations (ppb range to less than 10 ppm) in various environmental matrices and some are not require which are known as nonessential heavy metals. Trace heavy metals are important in daily diets, because of their essential nutritious value.

Abstract

Medicinal plants are the main source in recent ear for treatment of many complicated diseases and isolated lead compounds from the medicinal plants are the sources of drug discovery which are useful in the treatment of human and animal diseases. But sometimes due to several environmental factors these medicinal plants show adverse effect in human health. In that many factors one of the essential factors are heavy metal accumulations in soil zone. There are essential and nonessential heavy metals which are uptake by the plants along with the ground water and minerals and accumulated in the medicinal plant. Hence the objective of article is to identify different sources, various causes of diseases, different mechanisms, limits, different determination methods and their control through various methods for removal of excess essential and non-essential heavy metals present in the medicinal plants.

General mechanism:

In biological systems, heavy metals have been reported to affect cellular organelles and components such as cell membrane, mitochondrial, lysosome, endoplasmic reticulum, nuclei, and some enzymes involved in metabolism, detoxification, and damage repair. Metal ions have been found to interact with cell components such as DNA and proteins, DNA damage and conformational changes that may lead to cell cycle modulation, carcinogenesis or apoptosis.

Heavy metals disrupt metabolic functions in two ways:

1. They accumulate and thereby disrupt function in vital organs and glands such as the heart, brain, kidneys, bone, liver, etc.
2. They displace the vital nutritional minerals from their original place, thereby hindering their biological function. It is, however, impossible to live in an environment free of heavy metals. There are many ways by which these toxins can be introduced into the body such as consumption of foods, beverages, skin exposure, and the inhaled air.

Treatment of heavy metals: Mechanisms proposed to be involved in transition metal accumulation by plants are phytoaccumulation, phytoextraction, phytovolatilization, phytodegradation, and phytostabilization which is depicted in Fig.1. Phyto remediation is one more method which is defined as an emerging technology using selected plants to clean up the contaminated environment from hazardous...
contaminant to improve the environment quality. Uptake mechanisms of both organics and inorganics contaminants through phytoremediation technology is shown in figure 2. For organics, it involves phytostabilization, rhizodegradation, rhizofiltration, phytodegradation, and phytovolatilization. These mechanisms related to organic contaminant property are not able to be absorbed into the plant tissue. For inorganics, mechanisms which can be involved are phytostabilization, rhizofiltration, phytoaccumulation and phytovolatilization.

Determination of heavy metals:
Different methods are applied to determine heavy metals such as:
1. Atomic Absorption Spectrophotometer (AAS)
2. Inductively coupled plasma atomic emission spectrophotometer (ICP/AES)
3. Inductively coupled plasma mass spectrophotometer (ICP/MS)
4. Neutron Activation analysis (NAA)
5. X-ray Fluorescence (XRF)
6. Ion chromatography (IC)

Generally AAS is used for determination of all kind of heavy metals present in the medicinal plants.
## Permissible limit of non essential heavy metals in few medicinal plants:

<table>
<thead>
<tr>
<th>Name of herbs</th>
<th>Botanical name</th>
<th>Permissible limits (in ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amalaki</td>
<td>Emblica officinalis</td>
<td>20</td>
</tr>
<tr>
<td>Amla</td>
<td>Mangifera indica</td>
<td>20</td>
</tr>
<tr>
<td>Acharis Oil</td>
<td>Anarhac hygana</td>
<td>10</td>
</tr>
<tr>
<td>Ajwain</td>
<td>Terminalia arjuna</td>
<td>20</td>
</tr>
<tr>
<td>Ashwagandha</td>
<td>Withania somnifera</td>
<td>20</td>
</tr>
<tr>
<td>Bhibhitaki</td>
<td>Terminalia belica</td>
<td>20</td>
</tr>
<tr>
<td>Bhingraj</td>
<td>Eclipta alba</td>
<td>20</td>
</tr>
<tr>
<td>Bhuamla</td>
<td>Phyllanthus amarus</td>
<td>20</td>
</tr>
<tr>
<td>Brahmi</td>
<td>Bacopa monieri</td>
<td>20</td>
</tr>
<tr>
<td>Colcals</td>
<td>Coleus forskohlii Briq</td>
<td>20</td>
</tr>
<tr>
<td>Garcinia</td>
<td>Garcinia cambogia</td>
<td>20</td>
</tr>
<tr>
<td>Godhru</td>
<td>Tribulus terrestris</td>
<td>20</td>
</tr>
<tr>
<td>Guaj Gum</td>
<td>Cyanopsis tetragonolobus</td>
<td>20</td>
</tr>
<tr>
<td>Guinar</td>
<td>Gymnema sylvestre</td>
<td>20</td>
</tr>
<tr>
<td>Guudchi</td>
<td>Tinospora cordofora</td>
<td>20</td>
</tr>
<tr>
<td>Hinda</td>
<td>Curcuma longa</td>
<td>20</td>
</tr>
<tr>
<td>Haptali</td>
<td>Terminalia chebula</td>
<td>20</td>
</tr>
<tr>
<td>Hydrogenated</td>
<td>Ricinus communis</td>
<td>10</td>
</tr>
<tr>
<td>Castor Oil</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of herbs</th>
<th>Botanical name</th>
<th>Permissible limits (in ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kalmegh</td>
<td>Andrographis paniculata</td>
<td>20</td>
</tr>
<tr>
<td>Kuti</td>
<td>Picrorhiza kurro</td>
<td>20</td>
</tr>
<tr>
<td>Lasuna</td>
<td>Allum salivum</td>
<td>20</td>
</tr>
<tr>
<td>Mandukaparni</td>
<td>Centella asiatica</td>
<td>20</td>
</tr>
<tr>
<td>Manjusha</td>
<td>Ruda cordofora</td>
<td>20</td>
</tr>
<tr>
<td>Maricha</td>
<td>Piper nigrum</td>
<td>20</td>
</tr>
<tr>
<td>Pippali Big</td>
<td>Piper longum</td>
<td>20</td>
</tr>
<tr>
<td>Pippali Small</td>
<td>Piper longum</td>
<td>20</td>
</tr>
<tr>
<td>Punarnava</td>
<td>Bhringa diffusa</td>
<td>20</td>
</tr>
<tr>
<td>Shati</td>
<td>Hedychryum spicatum</td>
<td>20</td>
</tr>
<tr>
<td>Shellac</td>
<td>Laccifer laccifer kerri</td>
<td>20</td>
</tr>
<tr>
<td>Santhi</td>
<td>Zingeria officinacea</td>
<td>20</td>
</tr>
<tr>
<td>Tulsi</td>
<td>Ocimum sanctum</td>
<td>20</td>
</tr>
<tr>
<td>Vassaka</td>
<td>Adhatoda vasicia</td>
<td>20</td>
</tr>
</tbody>
</table>

## Few heavy metals and their toxic effects in human health

<table>
<thead>
<tr>
<th>Heavy metals</th>
<th>Major sources</th>
<th>Effect on human health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arsenic (As)</td>
<td>Pesticides, fungicides</td>
<td>bronchitis, poisoning, dermatitis</td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>Electroplating, fertilizers, pesticides</td>
<td>Renal dysfunction, Lung disease, Lung cancer, Bone defects, kidney damage, GI disorder</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>Pesticides, smoking, hunting of coal</td>
<td>Mental retardation in children, developmental delay, fatal infant, kidney and liver damage</td>
</tr>
<tr>
<td>Manganese (Mn)</td>
<td>Fuel addition, Welding</td>
<td>Inhalation problem, CNS disorders</td>
</tr>
<tr>
<td>Zinc (Zn)</td>
<td>Metal plating, plumbing</td>
<td>Corrosive effect in skin, nervous membrane damage</td>
</tr>
<tr>
<td>Chromium(Cr)</td>
<td>Mines, mineral sources</td>
<td>Nervous system damage, fatigue</td>
</tr>
<tr>
<td>Copper (Cu)</td>
<td>Pesticides, metal piping, chemical industry</td>
<td>Anaemia, liver and kidney damage, stomach irritation</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>Thermocells, batteries, dental amalgam</td>
<td>Damage of nervous, digestive and immune systems, fatality of lungs and kidneys.</td>
</tr>
<tr>
<td>Nickel (Ni)</td>
<td>Coins, magnets, jewelry, stainless steel, electronics</td>
<td>Lung cancer, cardiovascular disease, neurological defects, developmental defects in childhood, and high blood pressure</td>
</tr>
<tr>
<td>Cobalt (Co)</td>
<td>Soil, water, alloy, rocks</td>
<td>asthma, pneumonia, and wheezing, skin rashes</td>
</tr>
</tbody>
</table>
Conclusion: Contamination of heavy metals represents one of the most pressing threats to an environment especially to water and soil resources that effects largely in human health. Therefore, plants growing on polluted soils show a reduction in growth due to changes in their physiological and biochemical activities and shows various health hazards in human and animals. Hence, there is a need to determine proper method to quantify the level of accumulation and removal of heavy metals from medicinal plants and AAS is one of the suitable methods for the determination of the same. WHO has given a limit for heavy metals in all the plants and therefore phytoremediation is the suitable method that can be potentially used to remediate metal contaminated sites and provide healthy environment.

References: