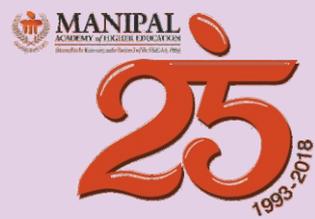




**MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES**
MANIPAL
(A constituent unit of MAHE, Manipal)



The most sought-after for pharmaceutical education and research

Ad Meliora

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Manipal is a product of Dr TMA Pai's vision', says Vice-Chancellor, MAHE during BPharm freshmen induction programme 2018-19

July 16 -17: As is the norm with every academic year, Manipal College of Pharmaceutical Sciences organized the orientation programme for freshmen of BPharm course on July 16 and 17, 2018. The programme was inaugurated on July 16 at the hands of the Chief Guest, Dr H Vinod Bhat, Vice Chancellor, MAHE, Manipal.

"Manipal has been a product of Dr. TMA Pai's vision executed by the family and generations of teachers. MAHE has produced over thousand alumni, and are in different parts of the world. The illustrious one stands out but to me, every student passed out is our ambassador and is the testimony of our success" said Dr Bhat. Cherishing the status of 'Institute of Eminence (IoE) which was awarded to MAHE by the central government,' he said, "Institute of Eminence" did not occur by chance. The status was obtained by a focused approach by measuring the past performance and evaluating future potential of the University." He welcomed the freshmen and parents to Manipal, and said "Students have ample opportunities here, which are not available elsewhere. They will have to look at things happening around, considering the university as an entity". He lauded MCOPS for being the first college in the country to have a chapter, fostering international exchanges amongst undergraduate students.

Dr C Mallikarjuna Rao, Principal, Dr M Sreenivasa Reddy, Vice Principal, MCOPS and Dr. N Udupa, Director-Research (Health Sciences), MAHE, graced the occasion. Later Dr Rao, gave an overview of the BPharm course. The two-day orientation programme provided information regarding the curriculum, campus life, and opportunities and facilities at MAHE campus. Along with the design of syllabus, students were educated about the rules and regulations, extracurricular activities and opportunities to explore their talent. The induction programme facilitated the students seamlessly through the campus facilities and helped in building a network of resources to start their academic sojourn.

'Merit is the only dictum for admissions in MAHE', says Dr Ballal during the PG orientation programme

July 18: Manipal College of Pharmaceutical Sciences (MCOPS) organized the orientation programme for MPharm freshmen on July 18, 2018. The program was inaugurated by the chief guest Dr H S Ballal, Pro-Chancellor, Manipal Academy of Higher Education (MAHE). Dr C Mallikarjuna Rao, Principal welcomed the gathering and gave an overview of the Master's programme.

Dr Ballal in his inaugural address expressed gratitude for choosing MCOPS as a destination to pursue MPharm. He mentioned about the silver jubilee celebration of MAHE in the year 2018 and cherished the status of Institute of Eminence. MAHE is at the top, both in the national and international arena, due to the quality of employees, faculty members, students and the state-of-the-art infra-structure, exhorted Dr Ballal. Merit is the only motto for getting into MAHE, he said. He advised students to utilize the facilities and to explore the opportunities in the campus.

Dr M Sreenivasa Reddy, Vice Principal, MCOPS, Dr N Udupa, Director-Research (Health Sciences) and Col Badri Narayanan, Director Purchase, MAHE graced the function. Dr D Sreedhar, faculty of pharmacy management, provided information regarding student placement. Later, sessions on paperless digital examination, student life cycle management and research activities of MAHE were conducted.

PharmD, PharmD (Post Baccalaureate) and DPharm Orientation programme 2018-19

1- 2 August: The orientation programme for the newly admitted students of PharmD, PharmD (Post Baccalaureate) and DPharm degree was conducted on August 1-2, 2018. The programme was inaugurated on August 01, 2018 by the Chief Guest, Vinod V Thomas, Registrar – Evaluation, MAHE, Manipal.

C Mallikarjuna Rao, Principal, MCOPS addressed the gathering and gave an overview of all the programmes. He also elaborated on the scope and opportunities of these courses. Dr. Thomas in his inaugural address, reflected on the architect and the founder of Manipal, Late Dr. TMA Pai and narrated the transformation of Manipal over 70 years. He added on the academic and research contributions of MCOPS to MAHE in achieving the global recognition and Institute of Eminence status of MAHE. While sensitizing the responsibilities of the students, he said, commitment, hard work, and dedication will not only help in personal and professional growth but

also in uplifting the name of the institution.

M Sreenivasa Reddy, Vice Principal and N Udupa, Director-Research (Health Sciences), MAHE, graced the occasion. The two-day orientation programme provided information regarding the curriculum, campus life, opportunities and facilities on campus. Along with the design of the syllabus, students were educated about the rules and regulations, extracurricular activities and opportunities to explore their talent. The orientation programme facilitated the students in building a network of resources to start their professional career.

Sadbhavana Diwas

20 August: Manipal College of Pharmaceutical Sciences observed the "Sadbhavana Diwas" on 20 August, 2018. Former professor of MCOPS, Dr Nampurath Gopalan Kutty was the chief guest of the programme. Dr Kutty in his speech said that several centuries ago, Indians had advocated the concept of "Vasudhaiva Kutumbakam" a philosophy that tries to foster an understanding that the whole of humanity is one family regardless of race, caste, creed, culture and religion. He exhorted to carry forward the spirit of the concept. Professor Kutty opined that progress is possible only through good feelings and he urged the audience to forget differences, focus on cohesiveness which in turn will help unite Indians and build a strong nation.

Dr. C. Mallikarjuna Rao, Principal administered the Sadbhavna Diwas pledge to the faculty members, research scholars and students. Dr G Gautham Shenoy, professor and head, pharmaceutical chemistry welcomed the audience.

Workshop on internationalisation of MAHE



22 August: Council of Internationalization, MCOPS conducted a half day workshop titled "Faculty Awareness on Internationalization of Higher Education" on 22 August 2018 in Dr. P. Gundu Rao seminar hall. Dr.C.Mallikarjuna Rao, Principal formally gave the opening remarks on Internationalization. Dr.Raghu Radhakrishnan, Director, International collaborations, MAHE delivered a talk on "Internationalization of MAHE-way forward". Later, Dr.Neetha Inamdar, Director, Centre for European studies delivered a chalk and talk on "Internationalization in practice and E+ mobility for faculty". Ms. Shanthala Pai, OIAC, spoke on the topic "The international relations office at MAHE". Finally, "Student mobility" was addressed by Dr.Anup Naha, chief coordinator VSO, MAHE.

Continuing Pharmacist Education program on Practicing Pharmacy

1 September: Continuing Pharmacist education (CPE) Program on "Practicing pharmacy" for community pharmacists was jointly organized by Department of Pharmacy Practice and Centre for Toxicovigilance and Drug safety in association with Drug Control Department, Udupi and Udupi District Chemist and Druggist Association at Manipal College of Pharmaceutical Science (MCOPS), Manipal on 1st September 2018. The goal of the CPE was to promote the knowledge and attitude of pharmacists to fulfill their duties towards patients and the community.

CPE was inaugurated by the Chief Guest Sri. K V Nagraj, Assistant Drug Controller Udupi and Guest of honor, Sri Manohar Shetty, Managing Director, Sri Sai Radha groups in the presence of Dr. C Mallikarjuna Rao, Principal, MCOPS; and Dr. Mahadev Rao, Head, Department of Pharmacy Practice, MCOPS. Dr. C Mallikarjuna Rao in his opening remarks said about the journey of the pharmacy profession in India.

Dr. Shetty in his inaugural address said, 'There is always scope for learning and scope for improvement, make a change and do things differently to show your importance as a pharmacist.' Sri. K.V Nagraj delivered a key note address on 'Responsibilities of pharmacists in the community.' Lectures covered a broad range of topics including practicing pharmacy, medication errors and counterfeit menace by Dr. Mahadev Rao, Dr. Surulivel Rajan M (Associate Professor, Department of Pharmacy Practice) and Dr. Girish Pai (Assistant Professor-Selection grade, Department of Pharmaceutics).



Dr. Mahadev Rao and Dr. Girish Thunga, Assistant professor (Selection grade), Department of Pharmacy Practice co-ordinated the program. The program received an overwhelming response from participants. Nearly 140 pharmacists attended the program from various parts of Udupi.

Department of Pharmacy Practice, MCOPS joins hands with Pharmabridge® Program

3-30 September: Department of Pharmacy Practice, MCOPS recognized as first ever clinical pharmacy training center in India for Pharmabridge® program. Pharmabridge® is a voluntary initiative supported by the International Pharmaceutical Federation (FIP), aimed at strengthening pharmacy services in developing and transitional countries with the support of established pharmacy resources from the developed world. Founded in 1999, Pharmabridge aims to foster communication and transfer of information, resources, and experiences between pharmacists, pharmaceutical scientists, and pharmacy educators from many corners of the globe, leading to the betterment of pharmacy services, and in turn improved patient care and overall enhanced community health.



More than eight faculty of the department had already undergone pharmabridge training in foreign universities and hospitals such as University of Michigan, University of Southern California, Tufts Medical Center, Boston and Children's Hospital of Eastern Ontario, Canada. Currently the department hosts two Bangladesh pharmacist delegates for Pharmabridge training at Kasturba Medical College, Manipal during 3rd -30th September, 2018.

Quality Improvement Program

17 September: Quality Improvement Program sponsored by AICTE, New Delhi on 'Strategies in Managing Quality of Biologicals & Biosimilars' organized by Departments of Pharmaceutical Quality Assurance, Pharmaceutical Biotechnology, and Pharmacy Management is being held at Manipal College of Pharmaceutical Sciences during September 17-29, 2018 to provide best opportunity for the faculty members to interact and explore new research and academic aspects.

The program was inaugurated on September 17, 2018 by the Chief guest, Dr. Poornima Baliga, Pro Vice-Chancellor (Health Sciences), Manipal Academy of Higher Education in the presence of Dr N Udupa, Research Directorate, Health Sciences, MAHE;

Dr. C Mallikarjuna Rao, Principal, MCOPS; Dr. M Sreenivasa Reddy, Vice Principal, MCOPS; Dr. Krishnamurthy Bhat, Professor & HOD, Department of Pharmaceutical Quality Assurance, MCOPS; Dr. Manthan D Janodia, Professor & HOD, Department of Pharmacy Management, MCOPS; and Dr. V M Subrahmanyam, Professor & HOD, Department of Pharmaceutical Biotechnology, MCOPS.

Dr. C Mallikarjuna Rao addressed the gathering by expressing his gratitude towards AICTE for providing the opportunity to conduct a Quality Improvement Program every year and briefed on the significance of Biosimilars. Dr. Poornima Baliga, in her inaugural address, emphasized on how the quality of students, quality of teachers and quality of research scholars influence the quality of research in an institute. She expressed her contentment towards the trust that AICTE holds in MCOPS, as AICTE has sanctioned five National Doctoral Fellowships to MCOPS, which is highest among all the pharmacy institutions in India. The inaugural function concluded with vote of thanks from Dr. Manthan D Janodia, Professor & Head, Department of Pharmacy Management, MCOPS.

QIP program will continue till September 29, 2018. Many eminent speakers from academia and industry will share their expertise with the delegates from various colleges.

AICTE Sponsored Quality Improvement Programme

17 September: Inaugural ceremony was followed by talk on 'Oral Delivery of Biological Drugs' by Dr. Swapnil J Dengale, Assistant Professor – Senior scale, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, MAHE; where he emphasized on recent techniques, challenges in delivery and mechanisms of orally delivered biological drugs. After a short break, demonstration of UV-Vis spectrophotometer and Flourimeter were conducted in pharmaceutical quality assurance sophisticated instruments laboratory by Dr S G Vasanthraju, Associate Professor, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, MAHE. Participants have actively participated in demonstration session. In the afternoon Dr. Sanjeev Nair, Associate Scientist, Lupin Limited, Lupin Research Park, Pune delivered a talk on 'Development of Biological Therapeutics: Key Challenges'. Dr. Nair discussed the steps involved in development of biological drugs and general challenges. He shared his experiences and the challenges his team faced during the development of biologicals in Lupin. His talk ended with solving the queries from the participants

218 September: Second day of Quality Improvement Program started with guest talk on 'Quality Is Free' by Dr. D Raghavendra, Head Global Quality, Mylan Pharmaceuticals, Hyderabad. Dr. Raghavendra has answered 'why Quality should be free and why it is free?' by discussing many real-life examples. The 3-hour talk was an interactive session with active participation from the participants, followed by talk on 'Hatch Waxman Act- Landmark law in drug regulation' by Dr. Sudheer Moorkoth, Associate Professor, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, MAHE. Dr. Moorkoth held an interactive session with the participants discussing the significance of the Drug price competition and patent term restoration act. Demonstration of Differential Scanning Calorimeter and Infra-red spectrometer were held in second session of the day by Dr. Jagadish PC, Associate Professor, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, MAHE. The session held by Dr. Jagadish was Hands-on as the demonstration involved preparation and processing of the samples. Participants have actively participated in demonstration and where they were able to receive practical and theoretical aspects of IR and DSC instruments.

19 September: First session of third day of Quality Improvement Program sponsored by AICTE started with a talk on 'Measurement of Quality of Biologics' delivered by Dr. S Meyyanathan, Professor, JSS College of Pharmacy, Ooty. Dr. Meyyanathan has discussed about different techniques involved in measurement and evaluation of quality and purity in biological products. He has elaborated the significance of measurement of quality by giving examples of various instruments and their working principles. Second talk of the day was on 'Good Pharmacovigilance Practice – A comparative study in USA and EU' delivered by Ms Ramya Ravi, Assistant Professor, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, MAHE. Ms Ramya has debated on Pharmacovigilance practices of USA and EU and elaborated the major differences between the both. Second session of the day was demonstration on Gas Chromatography – Mass Spectroscopy and Liquid Chromatography – Mass Spectroscopy instruments. GC-MS demonstration was conducted by Ms Elizabeth Mary Mathew, Research Scholar, Department of Pharmaceutical Quality

Assurance, MCOPS and LC-MS demonstration was conducted by Mr Shailesh, Research Scholar, Department of Gastro Enterology, KMC. All the participants have actively participated to understand the mechanism and instrumentation of the hyphenated instruments.

20 September: First talk of the fourth day was on 'Process to access and control elemental impurities in biological and biotechnological products' by Ms Athira R Nair, Assistant Professor, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, MAHE. Ms Nair explained the types of elemental impurities and significance of their assessment in the biological and biotechnological products by applying ICH Q3D guidelines as backbone. Second talk of the day was on 'Quality Control of Human Vaccines' by Mr. Madan Mohan Rao, Vice President, Quality Biological E Ltd., Hyderabad. He has elaborated on the development and quality control of vaccines and biologicals in industry. His focus on vaccines have assisted the participants in understanding the challenges in developing the biosimilars.

Last session of the day was Demonstration on High Performance Liquid Chromatography by Ms Athira R Nair, Assistant Professor, Department of Pharmaceutical Quality Assurance, Manipal College of Pharmaceutical Sciences, MAHE. Participants have actively participated in the demonstration where Ms Nair has discussed about the working principles of HPLC and challenges an analyst may face. Department of Pharmaceutical Biotechnology has coordinated the Quality Improvement Programme (QIP) for four days (21st - 25 September, 2018). Apart from the in-house speakers, eminent researchers of leading academic and research institutions of the country have delivered the lectures during these days. On the 21st of September, the session was started with the lecture on yeast diversity and industrial applications.

Dr. G.S Prasad, Director, TIE-U and Coordinator R&D, University of Hyderabad (former Head, Microbial Type Culture Collection (MTCC), Chandigarh) gave a very elaborative and informative presentation on different yeasts of industrial importance. Dr. Prasad also spoke on deposition microbial cultures under Budapest treaty to patent. He shared his personal experiences as the in-charge of International Depository Authority (IDA) under the Budapest Treaty in India. His presentation was followed by a speech on Critical issues in the manufacture of biosimilars delivered by Dr V. M Subrahmanyam, Head, Department of Pharmaceutical Biotechnology. In the afternoon session, a hands-on training on PCR for the participants was organized. The hands-on session was co-ordinated by Mr. Aditya Kiran and Ms. Sridevi B., research scholars, Department of Pharmaceutical Biotechnology, MCOPS)

On 22nd September, the morning session was started with the lecture of Dr. Anu Appaiah, a senior Principal Scientist from CFTRI, Mysore on Nutraceuticals. After the tea break, he has delivered his speech on FSSAI regulations. He enlightened the audience with his knowledge and experience in the field of nutraceuticals. The participants were very enthusiastic to interact with him and clarify their doubts. During the post-lunch session, Dr. Jesil Mathew A., Associate Professor of Department of Pharmaceutical Biotechnology given his lecture on antimicrobial sensitivity testing followed by the training session on Antimicrobial screening session co-ordinated by Dr. Raghu Chandrashekar H., Associate Professor, Department of Pharmaceutical Biotechnology and Dr. Jesil Mathew.

On 23rd of September, the session started with the speech of Dr. Ajaikumar K.B., Associate Professor, IIT-Guwahati on role of nutraceuticals in the prevention and treatment of chronic diseases. After two hours of interactive sessions, the delegates were addressed by Dr. Angel Alex on metabolic targets in cancer therapy. The third day ended with a hands-on course on enzyme kinetics by Mr. K. Ananthamurthy and Mrs. Nancy V. Phillip.

During the fourth day, Dr. Mukesh Pasupuleti, Senior Scientist, Division of Microbiology, CSIR-CDRI, Lucknow has addressed the delegates. Through his informative and interactive way explanation, Dr. Mukesh has taken the delegates to the world of Antimicrobial peptides and peptide drug discovery. Dr. Mukesh has delivered two lecturers viz., 'Exploring Innate Immunity and the Discovery of Peptides and Protein Therapeutics' and "ABC" of Biologics Discovery and Preclinical Development respectively. The next speaker, Mr. Venkatesh Kamath B., Assistant professor (senior scale), Department of Pharmaceutical Biotechnology, MCOPS has continued the session with his lecture on 'Biosimilars: Impact on Indian Pharma Industry'. During the post-lunch session, a training on in-vitro culturing of animal cells was organized for the participants. The hands-on training was co-ordinated by Dr. Raghu Chandrashekar H., Associate Professor.

National workshop on "cGMP, compliance and data integrity" in September 2018

21 -22 September: Two-day national workshop on "cGMP, Compliance and Data Integrity" was organized by GMP unit, Manipal College of Pharmaceutical Sciences (MCOPS) in association with Medorganics India Pvt. Ltd. The workshop was held during 21st and 22nd September at PGR conference hall, MCOPS.

The workshop was inaugurated on 21st September 2018 by the Chief Guest Dr. Madhukar Mallya H, Deputy Registrar – Evaluation, MAHE and Guest of Honour Sri. Pramod Hegde, CMD, Medorganics India Pvt. Ltd in the presence of Dr. C Mallikarjuna Rao (Principal), Dr. M Sreenivasa Reddy (Vice Principal), Dr. K B Koteshwara (HOD of Pharmaceutics), Dr Mahadev Rao (HOD of Pharmacy Practice), Dr Girish Thunga (Coordinator – Toxicovigilance and Drug safety Centre) and Dr Girish Pai K (Coordinator – GMP unit). Dr C Mallikarjuna Rao in his welcome address stated that workshop theme is the need of hour and explained the significance of cGMP, Compliance and Data Integrity in pharmaceuticals to the delegates.

Dr. Mallya in his inaugural address said that current Good Manufacturing Practices (cGMP) and compliance plays a major role in pharmaceutical manufacturing and are the statutory regulatory requirements. Dr Mallya also stated that practices adopted in pharma industry must be to update as per FDA guidelines. Sri. Pramod Hegde officially unveiled the logo of GMP unit, addressed the gathering and wished for the success of GMP workshop. Dr. Girish Pai K, convener of the GMP workshop briefed about the importance of this workshop and various activities of GMP unit. Dr M Sreenivasa Reddy proposed the vote of thanks.



Many eminent speakers from academia namely Dr Akhilesh Dubey, Dr Krishnananda Kamath, Dr Muddukrishna B S, Dr Venkatakrishna K (Lead QA Auditor and Industry Expert) and Mr Sateesh Karanth from Astra Zeneca Pharma India Pvt. Ltd shared their experience with the delegates from various colleges across India. Faculty, students and research scholars from other colleges across the country had registered for this workshop in large numbers. Delegates also included professionals from pharma majors like Hetero Labs Ltd and Astra Zeneca Pharma India Pvt. Ltd. The GMP workshop concluded with valedictory function. Dr Pai in his concluding remarks stressed the need to inculcate the best practice right from academic set up and wished all delegates a successful professional carrier. He also thanked all the delegates and volunteers for making first GMP workshop a grand success. Dr C Mallikarjuna Rao, Dr M Sreenivasa Reddy, Dr K B Koteshwara and Dr Girish Thunga distributed the certificates to the delegates. Ms Saara Mathews, Student, 4th year Pharm D contributed as Master of ceremony for GMP workshop.

Hetero Labs Ltd, Sun Pharmaceutical Industries Ltd and Medorganics India Pvt. Ltd sponsored the GMP workshop.

World Pharmacists Day Celebration

25 September: "It is merely a coincidence that Ayushman Bharat launched today, but the day means lots to us!" Dr. Mahadev Rao.

Kasturba Hospital (KH), Manipal witnessed a glorious moment today that both KH pharmacists and academic clinical pharmacists came together to celebrate World Pharmacist's day. Presence of staff nurses added flavour to the event. International pharmaceutical federation (FIP) designated 25th September as "World Pharmacist Day" in 2009 to encourage pharmacists to use this day to organize activities that promote and advocate for the role of the pharmacist in improving health in every corner of the world.

"Pharmacists: Your medicines experts" was the theme of this year's World Pharmacists Day. Department of Hospital Pharmacy, KH & Department of Pharmacy Practice, Manipal College of Pharmaceutical Sciences, MAHE jointly organized continuing pharmacy education (CPE) on 25th September 2018 as a part of world pharmacist day celebration at Shirdi Sai Baba Conference Hall, Shirdi Sai Baba Research Hospital, KH, Manipal. Prof. (Dr). Mahadev Rao, Head, Dept of Pharmacy Practice delivered the welcome address. During the speech he mentioned even launching of Ayushman Bharat is just a coincidence today, it remind us that we pharmacists are integral part of the healthcare system.

Mr. C. G. Muthana, Chief Operating Officer (COO), KH, Manipal said that in today's highly competent and globalized world, it is necessary to have such CPE events more frequently to enhance the skills of pharmacists. Dr. Avinash shetty, Medical Superintendent, KH, Manipal shared his thoughts about the importance of CPE program for pharmacists for effective healthcare delivery. Mr. Jibu Thomas, Senior manager - Operations at Manipal Health Systems Ltd, KH, Manipal was also present for the CPE program.

Dr. Mahadev Rao delivered a talk on "Hospital Pharmacy Practice" and Dr. Sreedharan Nair, Associate Professor from Dept. of Pharmacy Practice delivered a talk on "Communication skills". The lectures emphasized the areas with examples where and how pharmacists can actively participate in patient care. Vote of thanks was delivered by Mr. Sureshchandra Pai, Chief Pharmacist, KH, Manipal. The program was largely attended by hospital pharmacists, nurses, and administrators from KH, Manipal. Pharm.D interns, research scholars and faculty of Dept. of Pharmacy Practice, MCOPS, Manipal also participated in the event.

National Pharmacy Week

18 November: National Pharmacy Week was celebrated in the third week of November at MCOPS to spread awareness about the profession of pharmacy. The theme for this year was 'Pharmacist for a Healthy India'. Keeping this in mind, Manipal College of Pharmaceutical Sciences along with MAHE Association of Pharmacy Students hosted a week-long programme.

At the inaugural function, the welcome address was given by Rahul Konapur (President, fourth BPharm) followed by the lighting of the lamp by chief guest Sri BG. Mohan Das, Principal Dr. C. Mallikarjuna Rao and Vice Principal Dr. Srinivas Reddy, Dr. Sreedharan, and Saksham Parolia (PharmD, Vice President of the student council). Dr. D Sreedharan introduced the chief guest of the event who spoke a few words on National Pharmacy Week.

BG Mohan Das in his speech reminisced about his college days and shared few of his experiences as a Pharmacist in Manipal. The event came to an end with Saksham delivering the vote of thanks. Additionally, cultural council and students of MANCH performed a street play outside food court to commemorate and spearhead awareness on NPW. The street play focused on the various roles of a pharmacist and it was well scripted and performed.

Day two of NPW saw the Quiz Contest organized by CDC (Community Development Committee) in association with Swasth Bharath Abhyan, as a fundraiser event. The Quiz had 20 MCQ questions in the preliminary round after which six teams were shortlisted for the finals. Ultimately, Swapnil Raj, Fatimazahra Moledina and Nayonika Mukherjee of third-year PharmD bagged the first place whereas Parth Gandhi, R. Suhita and Elaine Fernandez of third-year PharmD bagged the second place.

On day 3 of National Pharmacy Week, CDC in association with Swasth Bharath Abhyan and International Alliance Of patient's organization (IAPO) as part of MAPS had organized a patient counseling session at Kasturba Hospital. The counseling session had its prime focus on the pregnant and lactating women. The session was held from morning to evening by students of various PharmD and BPharm batches. Over fifty mothers were counseled on various aspects of pregnancy and lactation such as dietary control, intake of right supplements, sterilization of feeding bottles and many such more. The head of CDC, Dr. Kanav Kehra constantly supervised the entire counseling session.

Patient counseling was an educational session for all the students who got to experience what it felt like talking to a patient in reality. The idea behind generating awareness amongst the public about the role of a hospital pharmacist was indeed a successful one.

Day four witnessed a healthy discussion by the students of various batches on the topic "E-pharmacy- a boon or bane". A lot of opinions and views were openly talked about whether or not online pharmacy

will be the future.

On a penultimate day, cyclothon was organized by the Manipal Cycling Club in association with CDC and Sports Council, MAPS. As very evidently the name suggests, Cyclothon is cycle racing over long distances. It's a very popular sport hence this time our college decided to go ahead with this event for the celebration of national pharmacy week, "Cycling for a healthier heart". This event was held on 23rd November 2018 and it was a great stress reliever and a fun activity for students and teachers.

On the final day of the NPW, Student Exchange Committee, MAPS in association with Swasth Bharath Abhyan and antimicrobial resistance program hosted a talk on 'Health of India and pharmacist's role in its upliftment', by Dr. Mohammed Zabiuddin Ahad, SRF, antibiotic stewardship programme, KMC and alumni of MCOPS. Dr. Ahad stressed on various disease burden in India like hypertension, diabetes and how it is affecting the Indian population. In addition to it, Dr. Ahad addressed the importance of rational use of antibiotics and how to prevent antibiotic resistance. 'Don't just be a Pharmacist for a Healthy India, but be a Pharmacist, as a Humanitarian for a Healthy India' quoted by Dr. Ahad at the end of the session, this was an inspiring take-home message to all gathered there and also to all other pharmacists out there. Following the talk, pledge on AMR by IPFS was taken and prize distribution to students who actively participated in various events that were held during the week. The programme was concluded by a vote of thanks by Dr. Sreedhar.

The National Pharmacy Week celebrations were a huge success and we look forward to more such innovative programs that throw light on the role of a pharmacist.

Constitution Day

26 November: As per the directives of UGC, Manipal College of Pharmaceutical sciences, Manipal, MAHE, organized a function to celebrate Constitution Day on Monday, the 26th November 2018 at 4.00pm. The program was organized by the Department of Pharmacognosy.

Ms. Vijayalaxmi, Practising advocate and the Trustee of the human rights protection foundation, Udupi was the chief guest. Mr. Vasudev R Pai welcomed the gathering and Dr. M. Manjunath Setty, Professor & Head, Department of Pharmacognosy introduced the guest speaker and invited her to deliver the talk on the Role of Constitution.



Faculty members, Research Scholars, Students of Graduate and Post graduate programmes attended the function. Mrs. Vijayalaxmi spoke on the topic and emphasized the need to know the essence of constitution of India and stressed on the role of every citizen to understand and follow fundamental rights to maintain the harmony amongst all the sections of the society. She elaborated on human rights violations in India and abroad and their protection.

Student's corner

Research Scholar visit to UniSA, Adelaide

1 June: Ms. Reema Narayan visited University of South Australia (UniSA), Adelaide, Australia for three months (01 June- 31 August, 2018) Research Internship programme as a visiting student. She worked on mesoporous silica nanoparticle formulations under the supervision of Dr. Sanjay Garg, Professor, Director of the Centre for Pharmaceutical Innovation and Development, UniSA, Adelaide, Australia.

Ms. Reema is pursuing her Ph.D. under the guidance of Dr. Usha Y Nayak, Associate Professor, Department of Pharmaceutics at

Manipal College of Pharmaceutical Sciences, MAHE, Manipal and Dr. Sanjay Garg, UniSA, Australia.



Dr. Garg and Dr. Nayak have collaborated on several research projects and published papers in high impact factor journals. Dr. Garg is also associated with MCOPS, MAHE as an Adjunct faculty.

Ms. Reema was awarded with a scholarship of AUD 5250 from UniSA for Research Internship programme.

Congratulations to Ms Reema and best wishes for your future!

Inaugural function of Student Council, MAPS 2018-19

5 September: The Inaugural function of MCOPS student's council, MAPS (MAHE Association of Pharmacy Students),- Genesis, was held on 5th September 2018

The event commenced with lighting of the lamp by chief guest, Col.B Prakash Chandra, Principal Dr. C. Mallikarjuna Rao, and Vice Principal Dr. Sreenivasa Reddy

Mr. Niranjan Ganesh, the general secretary of the student council, welcomed the gathering and briefly introduced the committees. Mr. Rahul Konapur, President of the student council, spoke about his vision for the year 2018-19 and also mentioned how important it is to be united and work as a team. He also emphasized other areas such as research and exploring new avenues.



Addressing the function, Dr Mallikarjuna talked about the importance of extracurricular activities in a student's life, followed by the unveiling of the new logo for MAPS. The chief guest, Col. Prakash in his speech, reminisced his college days and being a part of student council. He also appreciated the students of MCOPS on their exceptional performance in academics as well as extracurricular activities.

The magazine, titled 'Ab Aeterno' which means from time immemorial was launched by Anushna, former Editor-in-chief and she spoke about her journey in the editorial council.

The formal event came to an end with Mr. Saksham Parolia the Vice President of the student council delivering the vote of thanks. A variety of cultural programmes were organized by the students followed by the inaugural program.

Visit to orphanage by CDC, MAPS

22 September: On the occasion of World Pharmacist's Day and Swachhta Pakhwada, Community Development Committee, Manipal Association of Pharmacy Students (MAPS) in collaboration with Scio foundation visited Planet Mars Foundation, Udupi, Karnataka on 22 September 2018.

The orphanage with over 25 girls, greeted the team with warm smiles and commenced the programme with a lovely introduction. The event started with a brief speech by one of the volunteers followed by a short demonstration about promoting awareness on personal hygiene, prevention and management of diseases spread by mosquitos and the importance of keeping your surroundings clean. Following this session, a group of volunteers sensitized the children on the ten basic steps of hand washing and the children were asked to follow the steps along with the volunteers. The girls were then asked to gather around along with the volunteers for some fun enthralling games like passing the parcel and dog and the bone. The girls showed their active participation and everyone thoroughly enjoyed. The students organized a spectacular program, enlightening all the volunteers with their singing, dancing and martial arts performances. There was a questionnaire about basic cleanliness techniques, menstrual hygiene and feminine hygiene to which the girls responded with utmost enthusiasm.



The event concluded with the distribution of the kits which were put together by the Community Development Council, sponsored by Vijaya Medicals, Manipal. The visit to the orphanage was fun, educational and enjoyed by all. It was a great success and an extraordinary experience.

The media partners for the event were Manipal Blog, MTTN and School of Communication (SOC), MAHE.

Sushil Raut- research scholar from MCOPS visited National Chiayi University, Taiwan



Mr. Sushil Raut visited National Chiayi University (NCU), Chiayi City, Taiwan for two months to pursue his research work in the area of nano-pharmaceuticals. Sushil worked under the guidance of Dr. Hsin-I Chang, department of biochemical science and technology, NCU. He also got an opportunity to work at stem cell research laboratory of National Defence Medical Centre (NDMC), Tri-Service General Hospital, Taipei and at Taiwan National University, Taipei. Sushil received a fellowship of NTD 3200 from NCU for his visit. Currently, Mr. Sushil is pursuing his PhD under the guidance of Dr Srinivas Mutalik, professor, department of pharmaceuticals, Manipal College of Pharmaceutical Sciences, MAHE, Manipal.

Vivek Ghat receives a travel grant from Society for the Study of Xenobiotics

10-13 October: Manipal College of Pharmaceutical Sciences, MAHE congratulates Mr. Vivek Ghate, a Senior Research Fellow at the Department of Pharmaceutics for being awarded a Travel Grant from the Society for the Study of Xenobiotics (SSX), India for attending the 3rd Conference of the Society for the Study of Xenobiotics (SSX), India held at Indian Institute of Science, Bangalore from 10th - 13th October, 2018.

Mr. Vivek also had an opportunity to be mentored by Dr. Sandhya Mandekar, Head, PCO (Pharmaceutical Candidate Optimization) at Bicon Bristol-Myers Squibb Research Center, Bangalore, India during the conference.

Mr. Vivek is pursuing his Ph.D. at Dept. of Pharmaceutics, MCOPS under the guidance of Dr. Shaila Lewis, Associate Professor (Senior Scale) and Dr. B.S. Jayashree, Professor, Dept. of Pharm. Chemistry.

Bangalore Marathon

Shriram Properties Bangalore Marathon is an annual marathon held in Bangalore. This year, in its 5th edition, six runners from MCOPS participated in this running extravaganza. Rahul Konapur and Kamesh Keshri ran the full marathon (42.2km) and successfully completed it in 5hr 28 mins and 6hr 5mins respectively. Sahil Baghel, Anushka Singh, Ravi Sabnani and Syam Krishna Modugula ran the half (21.1km) marathon.



The energy in the air was absolutely infectious. Thousands of people had got out of bed on a Sunday morning at the odd hour of 4am for the same purpose i.e., running. People from all age groups, professions and walks of life ran the marathon. Women in saaris, specially angled people, barefoot runners and people dressed in various costumes ran alongside the best runners in the country. People not running the marathon had also woken up early in order to cheer all the runners and provide them with nutrition and hydration. There was music, dance and fun throughout the route. It was the perfect atmosphere to have a great time as well as push yourself physically and mentally. MCOPS put up a great show overall.

Anushka Singh stood third in her age category and managed to get a podium finish.

International Travel Grant from the Science and Engineering Research Board (SERB)

4-7 November: Manipal College of Pharmaceutical Sciences, MAHE congratulates Mr. Vivek Ghate, a Senior Research Fellow at the Department of Pharmaceutics for being awarded an International Travel Grant from the Science and Engineering Research Board (SERB), Government of India for presenting his research at the conference: AAPS PharmSci360 held at Washington DC, USA from 4th - 7th November 2018. 'AAPS PharmSci360' is one of the largest pharmaceutical conference organized annually by the American Association of Pharmaceutical Scientists (AAPS), USA.



Mr. Vivek also had an opportunity to be mentored by Dr. Priyanka Ghosh, Pharmacologist, Office of Research and Standards, Food and Drug Administration (FDA), USA during the conference.

Mr. Vivek served as a Moderator for the rapid-fire sessions and also had a unique opportunity of volunteering for the organization: Rise Against Hunger in their mission to pack more than 31,000 meals for children and families around the world.

Student and faculty achievements

30- 31 July: Manipal Academy of Higher Education (MAHE) has been recognized as an 'Institute of Eminence', which indeed is a big sense of achievement to all stakeholders. In this regard, a workshop was conducted to create a pool of trainers in Neuro Linguistic Programming (NLP), across its constituent Institutions, who will be able to utilize their experience and skills to deliver high impact training programmes at their respective institutions and take part in all consultancy assignments obtained. Three faculty members, Manthan Janodia, professor and head, department of pharmacy management, Rekha Shenoy and Angel Alex, associate professors in the departments of pharmacology and pharmaceutical biotechnology respectively were identified to participate in the two-day workshop on Neuro Linguistic Programming (NLP) which was held during 30 & 31 July at Medical Education Department, KMC Library, Manipal



21 September: Miss Kemisha Sanghvi, currently pursuing her MPharm in pharmacognosy attended an international conference in Dubai held on 21st and 22nd September, 2018 gave a presentation on the topic "Pharmacovigilance and novel drug delivery system for herbal drugs- A challenge". Ms Kemisha received the first prize for the best poster presentation.

27- 29 October: Bhavana B Bhat, assistant professor in department of pharmacy management received scholarship from International Society for Pharmacoepidemiology to attend and present her abstract in 11th Asian Conference on Pharmacoepidemiology, Xian, China from 27th to 29th October 2018.



She is pursuing her PhD under the guidance of Dr. D Sreedhar and Dr. N Udupa. Prior to this she also received travel grants from Indian Council of Medical Research and Center for International cooperation in Science to present her abstract in Herbal Summit, Chicago in the year 2015 where she received "Best Young Researcher" award for her work.

3 November: In the recent National Elocution competition, held by Indian Pharmaceutical Association (Education Division) on 3rd November, 2018 at Vivekananda College of Pharmacy, Bangalore, Karnataka; there were some positive turn of events for Manipal College of Pharmaceutical Sciences, Manipal.



This State/Zonal level competition for the provinces of Karnataka and Goa, had efficient competitors from various institutes from all over the state of Karnataka and the Union Territory of Goa, running to become the winner to represent Karnataka and Goa in the next Semi-finals to be held in the competition. After critical evaluation by the Jury consisting of eminent personalities from the fields of Pharmacy in areas from education to industry, the winner to be representing in the semi-finals was announced to be Ms. Mrinalini R, a final year B Pharm student from Manipal College of Pharmaceutical Sciences. The event concluded with acclaiming the winners and the participants.

Ms Shreya A.B, working as a Research Scholar at the Department of Pharmaceutics, MCOPS, has won Second Prize in the category of Oral Presentations for her presentation titled "Transdermal Drug Delivery Systems of an Anticancer drug, Gemcitabine hydrochloride: Development and Evaluation" in KAPTICON - 2018 (3rd Annual Convention of Association of Pharmaceutical Teachers of India, Karnataka Branch.



The conference was organized by Navodaya Education Trust at Navodaya Medical College Campus, Raichur, Karnataka from 26 to 27 October 2018. Shreya is working under the guidance of Dr. Srinivas Mutalik, Professor, Department of Pharmaceutics, MCOPS, Manipal in a research project sponsored by SERB, Government of India, New Delhi for her doctoral studies. We wish her success in future endeavours!

Dr. Sonal Sekhar M received Second best poster presentation award under original research for his research work entitled "Statin Induced Cataract in Cardiovascular Patients: a retrospective cohort study of a tertiary healthcare facility" in Manipal Cardiology Update-2018 CME on "Focus on congenital heart diseases & recent updates" on 1st November 2018 at Kasturba Medical College and Hospital, Manipal. Co-authors of the paper were Dr. Ranjan Shetty (Cardiologist), Dr. Rahul Tripathi, Dr. Kshipra and Dr. Kesia Shaji (Pharm.D graduates).



9 November: Benitta Mathews, Pharm.D(Intern), Dept. of Pharmacy Practice, MCOPS received Best paper award for research work entitled "Adverse effects of fluoroquinolones: A retrospective cohort study in a tertiary health-care facility" in 12th National Conference on Students Medical Research organized by Dept. of Community Medicine, Govt. Medical College, Trivandrum, Kerala along with Kerala University of Health Sciences on 9th & 10th November 2018. (Co-authors: Ms.Ashley Thalody, Dr. Kavitha Saravu and Dr.Sonal Sekhar M)

11 November: Krishna Gandhi, V Pharm.D student received Third Prize for the poster entitled "Steroid induced Diabetes- Preventable or inevitable?" in MEDISAFECON'18-An International Conference on Patient Safety Practices held on Nov.11, 2018 at Dr.TMA Pai International Convention Centre, Mangalore. (Co-authors:Nishma Khetia, John Preshant KP, Mahadev Rao, Manjunath Hande)



Visitors and guest lectures

Qassim University Faculty interacted with Pharmacy Practice Students

26 July: Dr. Suhaj Abdulsalim, Assistant Professor, Dept. of Pharmacy Practice, Unaizah College of Pharmacy, Qassim University, Qassim, Kingdom of Saudi Arabia and former faculty of Department of Pharmacy Practice, MCOPS has graced Pharm.D and M.Pharm-Pharmacy Practice students with his presence on 26th July, 2018 at Department of Pharmacy Practice, MCOPS. During the talk, he has enlightened the students regarding the educational approaches practiced in Saudi Arabia such as the use of team-based learning and simulations. Following which he had given an overview of the differences in the pharmacy education of both countries. He highlighted the importance of preparing for their career after the completion of PharmD course. Dr. Suhaj has provided them with information on the necessary steps to be taken after internship completion and the possible directions for those who want to partake in further studies/teaching. Several years of experience in the pharmacy field has enabled him to impart the immense knowledge and understanding about the various opportunities available to his students who can use his professional guidance to attain various benefits in the pharmacy field.

Resource person from Glaxo Smith Kline



3 August: Department of pharmaceutical quality assurance in association with Centre of Excellence in Drug Regulatory Affairs conducted a guest lecture on 3 August 2018. Mr Abhijit Pingalikar from Glaxo Smith Kline (GSK) Bengaluru, delivered a lecture on 'Marketing Authorization Procedures/Channels in ROW Markets' to post graduate students from pharmaceutical regulatory affairs and pharmaceutical quality assurance departments. Later, faculty members of department of pharmaceutical quality assurance had fruitful discussions with Mr Pingalikar about the current trends of regulatory filings.

Importance of Communication

8 August: A guest lecture on "Importance of Communication" was organized on 8 August, 2018 by D Sreedhar, faculty, department of pharmacy management. Ms Tanuja Maben, Director, Forrader, Manipal was the resource person. Ms Maben briefly described her professional experience. Later, she spoke about the importance of communications skills. She dealt with minute details to be noted while communicating with others like body language, gestures, situation and tone. Ms Maben further related how people's perception is based on communication of an individual. It was a fruitful session for MPharm students of pharmaceutical administration.



Branded Generics – Meeting medical needs in emerging market

11 August: Dr. Raviraj Pillai, senior director and site head, Pharmaceutical Development India, Innovations and Development, Abbott Healthcare Pvt. Ltd., Mumbai illustrated on brands of Abbott which were products of innovations. A detailed explanation on “insight driven innovation of branded- generics” was delivered by Dr Pillai, which was further divided into three segments, viz., product innovation, packaging innovation, digital innovation. Product innovation was explained with the help of surge dose technology that helps in faster dissolution rate. He also spoke of hydroswellable drop technology (HSD) which can be used topically and cyclodextrin complexation technology (CDT) which helps in formulating sparingly soluble drugs. Packaging innovation was further detailed on drug device innovation like LIDOCON that emphasizes on liquid dose concept for accurate dosing, that led to introduction of Phensedyl BR (a brand of Abbott). Further, he addressed the G'DoGon-The Granule Dosing Concept for accurate dispensing of granules. Dr Pillai also talked about the concept of novel applicator which helps in hands free topical administration. Lastly, digital innovation which is still in its infancy in the Indian context, Dr. Raviraj gave an insight about the possibility of introducing smart pill and digital therapeutics based on software that reminds the patient to take their regular doses. He further added that an Indian company has developed an ingestible sensor made of magnesium incorporated in the tablet. This can be traced by a patch placed on the torso of the patient that further transmits signal to the smart phone application (previously downloaded). Dr Krishnamurthy Bhat, head, department of pharmaceutical quality assurance introduced the speaker. An extensive interaction followed the talk. Both students and faculty members of MCOPS showed keen interest in the new developments and clarified their queries.

Guest Lecture by Dr Ramgopal Rao, Academic Manager, Biocon Academy, Biocon, Bengaluru

23 August: Dr Ramgopal Rao, the academic manager of Biocon Academy, Bengaluru, visited MCOPS on 23rd August 2018, and addressed the students regarding Indian Pharmaceutical Industry and its growth. He elaborated on the opportunities in the pharma industry for graduates and post-graduate students. He shared his knowledge and experience in academia-industry gaps. He highlighted a few courses offered by Biocon Academy for graduates and post graduates which could serve to bridge the gap. According to Dr Rao, the courses offered at Biocon Academy are designed to prepare the students industry ready. He also emphasized on the importance of bioinformatics and related areas and the opportunities provided by the pharma industries for higher education and sponsorship, with recent examples. The students received guidance about the companies who encourage and sponsor their employees to take up a few courses to improve their skills with the caution that the companies would do so with an agreement with such sponsored employees. Overall, the interaction benefitted the students immensely, which would guide them while seeking placements and career opportunities. Dr D Sreedhar, Associate Professor and Placement Coordinator have introduced Dr Ramgopal Rao and made the initial remarks pertaining to placements. Before interacting with students Dr Rao had a brief interaction with Dr Mallikarjuna Rao, Principal, MCOPS, Dr Sreenivasa Reddy, Vice-Principal, MCOPS and Dr VM Subrahmayam, Professor and Head, Department of Pharmaceutical Biotechnology.

Guest talk by Dr. Vassilios Papadopoulos, Dean of the School of Pharmacy, USC, USA

3 September: Dr. TMA Pai endowment chair on translational research and Department of Pharmacy Practice, MCOPS jointly organized a Guest talk by Dr. Vassilios Papadopoulos, Dean of the School of Pharmacy, University of Southern California (USC), USA on the topic “Regulation of steroid hormone biosynthesis by

hormones, drugs and the environment” on 3rd September 2018.



Dr. Papadopoulos emphasized the epigenetic regulation of steroid hormone biosynthesis and action. He explained some core points related to the reduction of testosterone level in men over last decades, testosterone replacement therapy and its associated risk. He narrated the disruptive effect of plasticizers like DHEP on the reproductive and endocrine systems of children and adults. Followed by the talk, the students interacted with Michael Curtis, Chief of International Business Development, USC on career advancement in pharmacy at USC. The talk received an overwhelming response from the participants. Concluding remark was given by Dr. Mahadev Rao, Professor and Head, Department of Pharmacy Practice, MCOPS.

Guest talk by Dr. Dinesh Shenoy

8 September: Department of Pharmaceutics, MCOPS organized a guest lecture by Dr. Dinesh B. Shenoy, Head – Pharmaceutical Development Novartis Healthcare Pvt. Ltd, India on September 08, 2018. Dr. Shenoy delivered a talk on the topic “Collaborative Research: Industry Vs Manipal Model - A Perspective” where he highlighted the necessity of collaborative research at the institution level.



While mentioning the Institute of Eminence status of MAHE, he noted that ‘Mandate – mindset – collaborative spirit – leadership are the essential components to run a company. He also elaborated on the opportunities in the pharma industries for post-graduate students and advised them to explore the given opportunity. Post-lecture, he interacted with the students of the Department of Pharmaceutics while he emphasized on the importance of moral and ethical values. Being a proud alumnus of MCOPS, he also shared his memoirs of student life at Manipal and cherished his bonding with the Professors. Overall, the interaction benefitted the students immensely, which would guide them while seeking placements and career opportunities.

Dr. Shenoy is as serving adjunct faculty in the Dept. of Pharmaceutics, MCOPS. Dr. KB Koteswara, Head, Department of Pharmaceutics coordinated the program.

Guest talk by Dr. Umesh V Banakar

20 September: Department of Pharmaceutics, MCOPS organized a guest lecture by Dr Umesh V Banakar, Professor and President, Banakar Consulting Services, Carmel, IN 46032 USA on September 20, 2018. Dr. Banakar delivered a talk on the topic “Understanding Basics of Intellectual Property for Scientists: The IP Generators”. He emphasized on translating research into intellectual property rights (IPR) and said “patentability is an afterthought”. Dr Banakar spoke about the protection of IPRs. The talk with live case studies was an eye opener to the budding researchers including post graduate students and research scholars.



Dr. Banakar had a discussion with the faculty members of department of pharmaceuticals about the current research areas and its scope. Dr. KB Koteswara, professor and head, department of pharmaceuticals coordinated the programme.

Dr Girish Pai K delivers guest lecture at KMC Mangalore during World Pharmacist Day celebration

25 September: Dr Girish Pai K, Faculty, Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, MAHE, delivered an invited guest lecture (CPE) on the topics "Pharmaceutical packaging and its significance, and Awareness on counterfeit products" during World pharmacist day held in KMC Hospitals, Mangaluru.



Dr Pai was invited as the Chief Guest and Dr Nuthan Kamath, Associate Dean, KMC Mangaluru presided as Guest of Honour during the programme. Dr Anand Venugopal, Medical Superintendent, KMC Hospitals Mangaluru, honoured Dr Pai with a memento. The programme was organized by Chief pharmacist Mr Prasanna Kumar K, Department of Pharmacy, KMC Hospitals, Attavar, Mangaluru. The CPE was attended by Pharmacists and Healthcare professionals in large number. The CPE session concluded with discussion and clarifications for the queries raised by delegates.

ISPOR Manipal Student Chapter – Guest Lecture Series

28 September: ISPOR Manipal student chapter in association with department of pharmacy management, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal organized its fifth guest lecture as a part of guest lectures series on Sep 28, 2018. Dr Uday Venkat Mateti, Head, department of pharmacy practice, School of Pharmacy, NITTE deemed-to-be University, Mangalore was the speaker for the event. Dr Mateti highlighted the importance of pharmacoeconomics and outcomes research for pharmacy graduates

Dr Mateti encouraged students to benefit from the ISPOR student membership. He emphasized on availing benefits offered by ISPOR for learning. He spoke about pharmacoeconomics being a new field of study in India with a huge potential to develop further. He specifically stressed upon carrying out studies in the field of pharmacoeconomics and the opportunities ISPOR provides to students to present their papers in international conferences through travel grants.

Dr Mateti narrated his own experiences of carrying out PhD in the field of Health Economics and how he collected data from available records for further analysis. Some students expressed their interest to take up HEOR studies.

Surgical Strike Day

28 September: Manipal College of Pharmaceutical Sciences organized a guest lecture on the occasion of national "Surgical Strike Day" on September 28, 2018. Surgical Strike Day was celebrated throughout India, to commemorate the cross-border operation, India had carried out against terror camps in Pakistan two years ago.



The guest lecture was delivered by Col B Prakash Chandra (Retd.), Director-General Services, MAHE, Manipal. He spoke about Indian army, the strikes and the bravery of Indian army. He emphasized on need of patriotism among the youth. Dr. C Mallikarjuna Rao, Principal and Dr. M Sreenivasa Reddy coordinated the program.

Environment and Health at the National Conference on Youth in Social Change

25 – 26 August: Mr. Vivek Ghate (Dept. of Pharmaceutics) of MCOPS has bagged the Best Poster Award under the category of Environment and Health at the National Conference on Youth in Social Change organised by MAHE, Manipal and Volunteer Services Organisation, MAHE during August 25 - 26, 2018.

Mr. Vivek is a CSIR - Senior Research Fellow at Dept. of Pharmaceutics, MCOPS pursuing his doctoral research work under the guidance of Dr. Shaila Lewis, Associate Professor (Senior Scale) and Dr. BS Jayashree, Professor, Dept. of Pharm. Chemistry.

Publons Peer Review Awards 2018 for Dr. Sonal Sekhar M

Dr. Sonal Sekhar M, Asst. Prof.-Selection Grade, Dept. of Pharmacy Practice received Publons Peer Review Awards 2018 for placing in the top 1% of reviewers in assorted category on Publons' global reviewer database, determined by the number of peer review reports performed during the 2017-18 award years. Publons peer review awards honor the elite contributors to scholarly peer review and editorial pursuits internationally. Recipients have demonstrated an outstanding expert commitment to protecting the integrity and accuracy of published research in their field.

Delhi-NCR Alumni meet

22 September: MCOPS' 1st Delhi-NCR Alumni meet was organized at Hotel Lemon Tree, Gurgaon, on September 22, 2018. Mr. Prasanna Kailaje, Director, Alumni Relation, MAHE and Dr. D. Sreedhar, Alumni Relations Coordinator, MCOPS, represented the Manipal Academy of Higher Education. 50+ MCOPS alumni from 20+ different organizations attended the meet. Alumni were not only present from Delhi-NCR, but also from far across cities like Kolkata, Jaipur, Lucknow, Agra, etc. Batch distinction in the meet varied from 1987 to 2016.



The meet embarked at 7.20 PM after advent of eminent Manipal Alumnus and the Chief Guest Dr. S. Eswara Reddy, DCGI. Dr. D. Sreedhar delivered the welcome address, followed by a video address by Dr. C. Mallikarjuna Rao, Principal, MCOPS. This was followed by felicitation of chief guest by Mr. Prasanna Kailaje. Dr. Reddy addressed the gathering and inspired all alumni and asserted on the importance of smart work followed by exhilarating and entertaining Manipal Quiz conducted by Mr. Rohit Lakhmani.



All alumni rejuvenated their Manipal memories and felt jubilant. Afterwards, Mr. Kailaje elucidated about MAHE alumni portal and showcased portal's importance in building network across industries. To conclude, Mr. Naman Bhardwaj proposed the vote of thanks, and the crowd dispersed for dinner and networking session. Dr. Sanchari Basu Mallik, alumnus of MCOPS, was the master of ceremony for the program.

The program was organized by the alumni team members including Mr. Naman Bhardwaj, Mr. Rohit Lakhmani, Dr. Sanchari Basu Mallik, Mr. Praveen Kadwey, Mr. Love Kumar, Mr. Bodhisatwa Das, Mr. Sandeep Kumar and Mr. Kunal Paul.

Novartis Biotechnology Leadership Camp

23 September: Mr. Vivek Ghate, a Senior Research Fellow at the Department of Pharmaceutics was selected as one of the 50 participants among ~1,700 students of leading Universities all over the country to be a part of the 10th Novartis Biotechnology Leadership Camp (BioCamp) which was held at Novartis, Hyderabad during 23 to 26 September 2018.



BioCamp is a great opportunity provided by Novartis, India to students and researchers to interact with leading experts in the pharmaceutical/biotech fields, learn about breakthrough medicines to address patients' unmet medical needs, understand trends and challenges in the pharmaceutical sector, receive first-hand experience about starting and running a biotech company, explore career opportunities in the pharmaceutical and biotech industries and network with talented students from other universities.

Mr Ghate is pursuing his PhD in the department of pharmaceutics, MCOPS under the guidance of Dr. Shaila Lewis, associate professor (senior scale) and Dr. B.S. Jayashree, professor, department of pharmaceutical chemistry.

Teaching Learning Processes and Innovative Pedagogical Tools in Pharmaceutical Sciences

26 September: Dr K Sreedhara Ranganath Pai, professor and head, department of pharmacology, MCOPS, delivered a talk in Pharmacy Council of India sponsored Continuing Education programme for Pharmacy Teachers on "Teaching Learning Processes and Innovative Pedagogical Tools in Pharmaceutical Sciences" on September 26, 2018 organized at Institute of Pharmacy, Nirma University, Ahmedabad, Gujarat.



He also delivered a talk during the orientation programme for BPharm freshmen organized on September 26 at Institute of Pharmacy, Nirma University.

Strategies in Managing Quality of Biologicals and Biosimilars

26 September: Dr. Mukesh Pasupuleti, Senior Scientist, Division of Microbiology, CSIR-CDRI, Lucknow after his talk with the workshop participants Department of Pharmacy Management, Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, Manipal was given responsibility to conduct AICTE sponsored Quality Improvement Program on "Strategies in Managing Quality of Biologicals and Biosimilars" during Sep 26-29, 2018. The program had insightful lectures by in-house and external speakers along with demonstrations for the participants.



On Sep 26, 2018 Dr Sreedhar Associate Professor – Senior Scale, Dept. of Pharm. Management, MCOPS, Manipal gave a market overview of fixed dose combination of biosimilars. Dr Ajay Pise, Entrepreneur and Chairman, Lifeon Healthcare Ltd, Nagpur enthralled the audience with his lecture on entrepreneurship. Dr Chytra Rao, Associate Professor, Dept of Community Medicine, Kasturba Medical College, Manipal gave insights into importance of studying pharmacoepidemiology for pharmacists. Dr Sreedhar engaged the participants for management activity in the afternoon session.

Dr Virendra Ligade, Dr Virendra S Ligade, Associate Professor, Dept pf Pharmacy Management, MCOPS, Manipal was the first speaker on Sep 27, 2018. He deliberated on emerging concepts of biocosmeceuticals. This was followed by a talk on Pharmaceutical Marketing: The New Rules of a Multi-channel Marketing Strategy by Dr Smitha Nayak, Associate Professor, School of Management, MAHE, Manipal. Dr Manthan D Janodia, Professor and Head, Dept of Pharmacy Management, MCOPS, Manipa explained the concepts of Intellectual Property Management. Dr Virendra Ligade demonstrated about evaluation of pharmaceutical advertisements to participants in the afternoon session.



The first talk on Sep 28, 2018 was on Future of Biologics and Biosimilars by Dr Uday Venkat Assistant Professor & Head, Pharmacy Practice, NGSM, NITTE, Mangaluru. Mr Arshad Jamil, Head, Intellectual Property, Biocon Ltd. spoke on BPCI Act of USA and Complexities in Biosimilar filings. Dr Ramkumar P, Vice President – Catalogue, Netmeds India Pvt Ltd, Chennai narrated the changing landscape of online marketing and highlighted about the draft on online pharmacies by the Govt of India. In the afternoon session, Dr Pradeep M Muragundi, Associate Professor, MCOPS, Manipal engaged the participants for hands on training in Creation of Audio-Visual Advertisement for Public Awareness.

Ms Bhavana Bhat, Assistant Professor, Dept of Pharmacy Management, MCOPS, Manipal began the session on Sep 29 with a talk on Cost Effectiveness of Biosimilars in the management of Rheumatoid Arthritis. Dr Pradeep M Muragundi, Associate Professor, MCOPS, MAHE, Manipal spoke on the topic titled Pharmacoeconomic research considerations for drug evaluations in India. Mr Jayachandra Reddy, Phamax, Bengaluru emphasized on importance of Commercialization of Biosimilars. Participants were given hand on training in carrying out prior art/patent search using free databases by Dr Manthan D Janodia, Professor and Head, Dept. of Pharm. Management, MCOPS, Manipal.

Participants expressed that the four days session by Dept of Pharmacy Management, MCOPS, Manipal as a part of QIP were extremely beneficial to them.

Faculty of Manipal College of Pharmaceutical Sciences receives Dr APJ Abdul Kalam Award for teaching excellence

13 October: Dr D Sreedhar and Dr Richard Lobo, faculty of Manipal College of Pharmaceutical Sciences, Manipal Academy of Higher Education, have received Dr APJ Abdul Kalam Award for teaching excellence. Award was instituted in the year 2015 by Marina Labs, Chennai, in the memory of the late Dr APJ Abdul Kalam, a renowned scientist and teacher par excellence. A total of three awards were instituted, namely, Life Time Achievement Award, Award for Teaching Excellence, Award for Scientific Excellence and Young Scientist Award. The awards ceremony was held on 13th October, 2018 in Chennai. Mr N Sabaapathy, Former Managing Director, Rani Mangammal Transport Corporation, Madurai, Guests of Honor, Smt V Parvathi, Former Head, Department of Botany, Meenakshi College for Women, Chennai, Dr C Arul Vasu, Hon. Director and ENVIS Coordinator, Ministry of Environment Forest and Climate Change and Dr K P Kannan, Head, Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam, Erode, honored the awardees. Chief Guest Mr N Sabaapathy lauded the achievements of Marina Labs and appreciated for the institution of awards. While congratulating all the awardees, he said awards motivate awardees to aim big.

Overall, award ceremony was a grand success with awardees from across the country.

AFFORDABLE AND EFFECTIVE DRUG DELIVERY, edited by Dr N Udupa

30 November: The 144th publication of Manipal Universal Press, "Affordable and Effective Drug Delivery" edited by Dr N Udupa, Director-Research (Health Sciences), was held on 30th November 2018, at 2:30 PM in Professor P Gundu Rao conference hall of MCOPS. The Vice Chancellor of MAHE, Dr H Vinod Bhat released the book during the function, in the presence of Dr C Mallikarjuna Rao, Principal MCOPS, Dr Neeta Inamdar, Chief Editor, MUP and Head, Department of European studies and Dr N Udupa. Dr Manthan Janodia, Professor and Head of Department of Pharmacy Management, MCOPS, welcomed the audience and presented an overview of the book. The book release was followed by a reflection on the journey of the book by Dr K S Aithal, Professor, MIT, MAHE, Manipal, and distribution of book to the contributors by Dr H Vinod Bhat.

The book is a compilation of the research work executed under the guidance of Dr Udupa. He is a prolific researcher and author of more than 500 articles with over 5000 citations, eight patents, nine books, research guidance of over one hundred students, recipient of research grants amounting over four crore rupees and recipient of numerous awards and recognitions. During the function, Dr Udupa and Mrs Vijayalakshmi Udupa were felicitated by his students and the team MUP.

The program was coordinated by Dr Usha Nayak and Dr Angel Alex served as the master of ceremony. Dr Srinivas Mutalik, Dr D Sreedhar, Dr Usha Nayak and Dr Angel Alex were involved as associate editors.

Upcoming events

5 January 2019: 4th International Conference on Clinical Pharmacy
16 January 2019: Commencement of certificate course in translational research
8 to 10 February 2019: 6th International Congress of Society for Ethnopharmacology