



# PUSHPAGIRI

*We care God cures*

## PHARMA ECHO

**OFFICIAL  
PUBLICATION  
OF PUSHPAGIRI  
COLLEGE OF  
PHARMACY**

MEDICITY CAMPUS, PERUMTHURUTHY P.O., TIRUVALLA-689 107. Tel.: 0469-2645450, 2645900. Fax: 0469-2645460

Affiliated to KUHS, Thrissur and approved by AJCTE and PCI, New Delhi

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### Vision :

"We care..... God cures....."

### Mission :

To work towards a knowledge society with a life in abundance, through science and technology, improving health care of our immediate community, state, country and the world at large.



### FROM THE EDITOR'S DESK

New year Greetings to all !!!

The year 2015 ends up with a colourful and nostalgic memories. A new hope is arising along with the New Year 2016. If we turn the pages of the year 2015, several colourful imprints are left behind in the history of Pushpagiri College of Pharmacy which always glorifies the name of our institution. The word of "Thank You" is not enough to express all the well-wishers of PCP who have been worked with this institution to achieve the mile stones. Pushpagiri College of Pharmacy always upholds the students for their well – being. The Management, Principal, HOD's, faculties, administration staff, non – teaching staff and our dear students portraits their well-being in their arena. This issue of Pharma Echo brings about achievements of PCP during the last six months. We, the PCP family are welcoming the year 2016, warmly with great enthusiasm to achieve more goals.....

## REPORT ON PHARMACY PRACTICE MODULE – NEW MODULE ON CARDIOVASCULAR DISEASES

### INTERNATIONAL SEMINAR

**Ms. Bincy K Ckacko**  
Assistant Professor,  
Department of Pharmaceutics

**P**harmacy practice module –New module on cardiovascular diseases was organized by Pushpagiri College of Pharmacy in association with IACP and co sponsored by DST New Delhi from 6<sup>th</sup> August 2015- 8<sup>th</sup> August 2015 at Mar Theophilos Annexe Auditorium. The three day conference provided an insight into the objectives and diseases of cardiovascular system and focused on International Certification Programme which benchmarks the pharmacy programme of the applicant institution on the International seminar set by Cardiovascular Diseases and provides certification to the effect.

The seminar was led by Dr. Krishna Kumar, Professor of Biopharmaceutics and

Pharmacokinetics, Howard University College of Pharmacy, Washington DC, USA, Dr. J. Christopher Lynch, Pharm D , BCACP, Southern Illinois University, USA and Dr. Douglas Jennings, Pharm D, AACC BCPS- AQ Cardiology, Clinical Pharmacy Manager, Presbyterian Columbia University Medical Centre New York.

There was an overwhelming response to the programme with an approximate no. of 235 and almost 15 Institutions took part in the seminar.

The inaugural function conducted on 6<sup>th</sup> August 2015 at 11.00 am, and inaugurated by Shri. K Jayakumar, Deputy Superintendent of Police, Tiruvalla, Pathanamthitta. The presence of other eminent personalities from various fields also made this event a memorable one. The valedictory function conducted on 8<sup>th</sup> August 2015 at 02.30pm blessed with the presence of H.G Dr. Thomas Mar Koorilos, Metropolitan Archbishop of Tiruvalla and was inaugurated by Shri. K.C Joseph, Minister for Rural Development Planning & Culture,

Information & Public Relation, Non-Resident Keralities Affairs, Govt. Of Kerala .The honorable minister was received from the college gate with the band set. Unveiling of special edition of Pharma Echo and second edition of Drug Formulary was performed during the function. All guests and speakers were honored with traditional ponnada. In addition, distribution of mementos and gifts to all in the dias as a token of love and

gratitude added colour to the function. With the support and guidance of Prof. Dr. Mathew George, Principal & Chairman, Prof. Dr. Lincy Joseph, Programme Co-ordinator and all the committee members including staff and students made the event as grand success and memorable one in the history of Pushpagiri College of Pharmacy.



WELCOMING OUR GUESTS DURING PHARMACY PRACTICE MODULE - 2015



INAUGURATION OF PHARMACY PRACTICE MODULE BY **SHRI. K JAYAKUMAR**, DEPUTY SUPERINTENDENT OF POLICE, TIRUVALLA.



UNVEILING OF STUDY MATERIAL OF MODULE BY **PROF. DR. T. K RAVI**



BISHOP HONORING **MS. JENNIFER C LYNCH**



## AN INVESTIGATION ON SOLUBILITY ENHANCEMENT BY USING MICROWAVE TECHNOLOGY

**Ms. Kanaka V S**

Lecturer, Department of  
Pharmaceutics

### Abstract

In the present review, an attempt has been made to go for an investigation on microwave technology and to highlight the current scenario of microwave technology in pharmaceutical sector. Microwave radiation, an electromagnetic radiation, widely used as a source of heating in organic synthesis. Microwaves have enough momentum to activate reaction mixture to cross energy barrier and complete the reaction in short period.

**Keywords:** Microwave radiation, Biopharmaceutical Classification System (BCS), Solid dispersion, PEG 4000, PEG 6000, Hot Melt Method.

### Introduction

A microwave is a form of electromagnetic energy, which falls at the lower end of the electromagnetic spectrum and is defined in a measurement of frequency as 300 to 300,000 Megahertz, corresponding to wavelengths of 1 cm to 1 m.

The biopharmaceutical classification system divides drugs into four classes depending on *in vitro* solubility and *in vivo* permeability data.

Four classes of compounds can be distinguished:

BCS Class I (high solubility, high permeability), BCS Class II (low solubility, high permeability), BCS Class III (high solubility, low permeability) and BCS Class IV (low solubility, low permeability). In the selection process, new chemical compounds with low aqueous solubility and low permeability are preferably filtered out since they might pose problems during pharmaceutical development.

It is obvious that class II drugs have low ability to dissolve is a more important limitation to their overall rate and extent of absorption than their ability to permeate through the intestinal epithelia. Poorly water-soluble drugs are expected to have dissolution-limited absorption.

It has been reported that microwave energy can influence the crystalline status of the drug and the time of exposure plays an important role in achieving amorphous state of the drug, thus improving its dissolution rate. Poorly water soluble crystalline drugs, where in the amorphous state tend to have higher solubility. Amorphous solids exhibit higher transient solubility, dissolution rate, vapor pressure and molecular mobility. The application of microwaves represents a promising alternative to conventional preparative methods of solid dispersions of drugs as the microwave induced method involves much shorter preparation time.

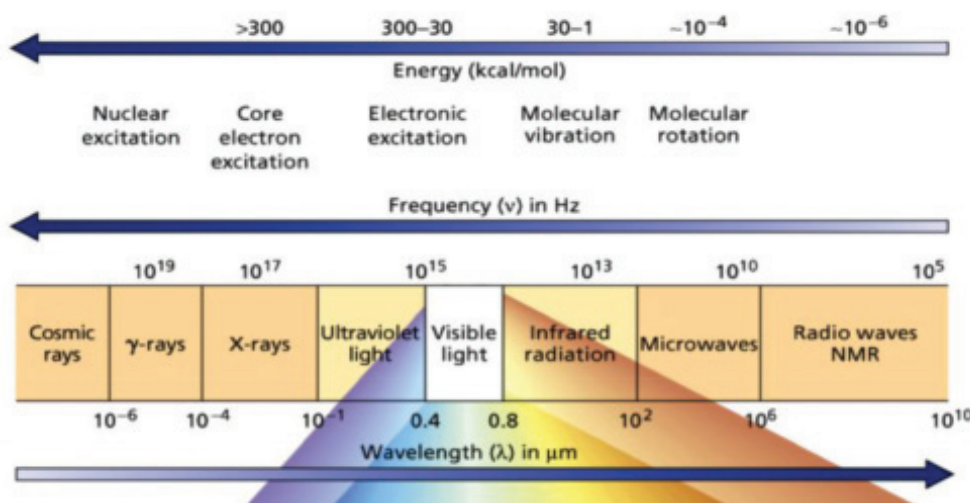
**Laxmikant Zawar et al (2013)** designed Microwave Induced Solid Dispersion as a Novel Technique for Enhancing Dissolution Rate of Repaglinide. The dissolution rate was improved by using its solid dispersions (SDs) with polyethylene glycol (PEG) 6000. Solid dispersions were prepared by kneading, solvent evaporation, conventional fusion method and microwave induced fusion methods. Microwave induced solid dispersions exhibited significant improvement in solubility and dissolution rate compared to that of pure drug.

**Monika Sharma et al (2013)** had designed and formulated solid dispersion of Atorvastatin Calcium. Solid dispersion of Atorvastatin Calcium using carrier PEG 4000 was formulated in different ratios by conventional fusion and Microwave Induced Fusion method. Their

physicochemical properties and dissolution properties were compared. The microwave assisted method was found to be better in dissolution than conventional fusion method.

**Mukhiya Umesh et al (2012)** had studied the dissolution behavior of Meloxicam / Poloxamer. Solid dispersion prepared by Hot Melt method and Microwave Assisted method. All the batches showed higher solubility and dissolution rate as compared to pure drug. Maximum solubility was exhibited by Microwave assisted method and consisted of drug and polymer in 1:5 ratio.

**Neha parmer et al (2012)** designed a strategy for improving the dissolution rate of Simvastatin by using Microwave Induction Technique. For solid dispersion, different methods have been used like Kneading method, Fusion method and Microwave Induction method. In the



Microwave Induction method, the drug showed higher increase in solubility with Gelucire 44/14 in the ratio of 1:5 as compared to Poloxamer 407.

### Advantages of microwave technology

Microwave include following advantages, over the conventional heating:

- 1) Uniform heating occurs throughout the material as opposed to surface and conventional heating process.
- 2) Process speed is increased.
- 3) Desirable chemical and physical effects are produced.
- 4) Floor space requirements are decreased.
- 5) Better and more rapid process control is achieved.

### Conclusion

Microwave technology which opens a new era in the pharmaceutical sector. Nowadays it is the most leading and attractive field with many advantages over conventional methods of solubility enhancement. The use of microwave

open new route to control the physiochemical properties and drug delivery profiles of the pharmaceutical dosage forms.

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## REPORT ON PHARMACIST'S DAY CELEBRATIONS 2015

### Ms. Christy K Jose

Assistant Professor, Department  
Of Pharmaceutical Chemistry

Pharmacists' day 2015 was celebrated at Pushpagiri College of Pharmacy on 23<sup>rd</sup> Sept. 2015. All the staff and students assembled in the auditorium at 09.45 am and the celebrations began by declaration of oath under the leadership of Prof. Dr. Lincy Joseph, HOD, Dept. of Pharmaceutical Chemistry. Thereafter all the staffs and students assembled in front of

the college and flag was hoisted by Prof. Dr. Mathew George, Principal, Pushpagiri College of Pharmacy. It was followed by rally which was conducted from Kalyan Junction, Tiruvalla to Bishop's House, Tiruvalla. Flag off ceremony for rally was performed at 11.00 am by Mrs. Desly Sam, Municipal Chairperson, Tiruvalla. At Bishop's House a talk was delivered by His Grace Most Rev. Dr. Thomas Mar Koorilos, The Metropolitan Archbishop of Tiruvalla. The theme of Pharmacists' Day 2015 was unveiled to the staff and students by His Grace Most Rev. Dr. Thomas Mar Koorilos, The Metropolitan Archbishop of Tiruvalla, which was followed by a cake cutting ceremony. All staff and students returned to college by 01.00 pm and refreshments were provided.



DURING OATH TAKING CEREMONY



FLAG-OFF CEREMONY DURING THE RALLY



UNVEILING CEREMONY OF THE THEME OF PHARMACIST'S DAY-2015



AFTER THE ARRIVAL AT MARYGIRI BISHOP'S HOUSE DURING THE RALLY

## PUBLICATIONS OF OUR FACULTIES:

1. **Mathew George , Lincy Joseph, Vasudha Abbhi, Ashish Kumar Jena .,** Anti-inflammatory and Analgesic activity of Mehanolic and hydroalcoholic extract of *Myrsine Africana* L.fruits, *The Natural Products Journal* 2016,6,56-61
2. **Lincy Joseph, Mathew George.** Anti-bacterial and in vitro Anti-diabetic Potential of Novel Isoxazole Derivatives. *British Journal of Pharmaceutical Research* 9(4): 1-7, 2016.
3. **Leena P N, N.A. Aleykutty.** Isolation and spectral identification of Quercetin from alcoholic root extract of *Clerodendrum paniculatum* Linn. *International Journal of Pharma Sciences and Research*, Volume:6, Issue 13, January 2016, 1458-1462.
4. **Anjana M N, Jipnomon Joseph, Sreeja C. Nair.** Solubility and Bioavalability enhancement of Albendazole by complexing with hydroxylpropyl  $\beta$ -cyclodextrin *Journal of Chemical & Pharmaceutical Research*. 2015,7(4): 1131-1141.
5. **Lincy Joseph, Mathew George, Sreelakshmi.R.** Phytochemical and Pharmacologic studies on *Zingiber Zerumbet* hydroalcoholic extracts for anticonvulsant activity. *International Journal of Therapeutic Application.*, 2015, Vol 29: 19-23.
6. **Lincy Joseph, Mathew George and Prabha Mathews.** Synthesis and characterization of novel 1, 3, 4- thiadiazole derivatives and screening for certain biological activities. *International Journal of Pharmaceutical, Chemical and Biological sciences.* 2015, 5(4), 928-937.
7. **Lincy Joseph, Mathew George and Prabha Mathews.** A Review on Various Biological Activities of 1,3,4-Thiadiazole Derivatives. 2015; 3(3):329 -345.
8. **Mathew George, Lincy Joseph, Ashitha .K .S. Garcinia Gummi Gutta;** A Pharmacological update. *International Journal of Universal Pharmacy and Biosciences.* 2015 4(6):1-17.
9. **Jisha Geevarghese, Jisha Annie, Emmanuel James, Vivek Nambiar .** Impact of clinical pharmacist's interventions on Health. *International Journal of Pharmaceutical Research.* 2015 :112-116



FACULTY AND STUDENTS OF PCP, INTERACTING WITH Dr. G.N.Singh, DRUGS CONTROLLER GENERAL OF INDIA, NEW DELHI



FACULTY AND STUDENTS OF PCP, INTERACTING WITH **Prof. Dr. B. Suresh, PRESIDENT, PHARMACY COUNCIL OF INDIA, NEW DELHI**



FACULTY AND STUDENTS OF PCP, INTERACTING WITH **Dr. Eswara Reddy, DEPUTY DRUG CONTROLLER GENERAL OF INDIA, NEW DELHI**



FACULTY AND STUDENTS OF PCP, INTERACTING WITH **Prof. Dr. Krishnakumar, PROFESSOR, HOWARD UNIVERSITY, WASHINGTON D.C, USA**

### **VIGILANCE AWARENESS PROGRAMME**

As per the AICTE guidelines a vigilance awareness programme was organised by Pushpagiri College of Pharmacy on 29<sup>th</sup> October 2015 at Mar Theophilos Annexe Auditorium. Teaching, non teaching staff and all students were gathered in the auditorium at 3.30 pm. Rev. Fr. Mathew Vadakkekuttu, Medicity Director, delivered a message to the gathering. Final B-Pharm students performed a skit regarding the vigilance programme. A slideshow from AICTE was displayed during the event. The programme ends up with National Anthem



MESSAGE BY **Rev. Fr. Mathew Vadakkekuttu** & FINAL YEAR STUDENTS DURING THEIR PERFORMANCE...



## REPORT ON SPORTS FEST -2015

**Dr. Sujith K**, Assistant Professor, Department of Pharmacology

Two day sports day was conducted at Pushpaagiri College of Pharmacy on 12<sup>th</sup> & 13<sup>th</sup> November, 2015. The event was inaugurated by Rev. Fr. Mathew Vadakkekuttu, Medicity

Director. Prof. Dr. Mathew George-Principal, all the staff, Hostel wardens & students were assembled in the ground. The event commenced with a grand opening of March Past of the students. The students actively participated in all the events. The winners are announced and the prizes were distributed during the college day-2015.



DURING THE INAUGURAL CEREMONY.....



INAUGURAL TOSSING.....

STUDENTS PERFORMING IN THE SPORTS FEST 2015....



## REPORT ON QUAMI EKTA CELEBRATIONS-2015

**Ms. Bincy K Ckacko,**  
Assistant Professor, Department of Pharmaceutics

Pushpagiri college of Pharmacy organized QUAMI EKTA celebrations with National Integration Pledge on 19<sup>th</sup> November 2015 at Mar Theophilos Annexe Auditorium as per

the directions of KUHS. Teaching, non teaching staff and all students were gathered in the auditorium at 11.00 am. An introduction to the programme has given through a short video presentation prepared by II Pharm D students. This is followed by a short skit focusing the necessity of communal harmony in our country. Finally, National Integration Pledge was taken by gathering which was headed by Prof. Dr. Lincy Joseph, HOD, and Dept. of Pharmaceutical Chemistry. The vote of thanks proposed by student representative. The celebrations ended up with National Anthem.



FACULTIES & STUDENTS DURING THE QUAMI EKTA PROGRAMME.....

## HORIZON -2015

**Ms. Naina Sara Sabu**  
Lecturer, Department of Pharmacology

Two day arts fest , Horizon-2015 was conducted at Pushpagiri College of Pharmacy, on 25<sup>th</sup> & 26<sup>th</sup> November, 2015. The event was inaugurated by the Idea Star singer Fame, Music Album composer Shri.Jayakrishana. The off stage programs were

carried out before a week. All the on stage programmes (solo & group items) were conducted during 25<sup>th</sup> & 26<sup>th</sup> November. By the end of event, final B-Pharm students (2012-13 batch) won the overall championship. Mr. Praise Sebastian (3<sup>rd</sup> Pharm D) & Ms. Femi Liz Babu (3<sup>rd</sup> Pharm D) won the Mr. Horizon and Ms. Horizon title respectively. The prizes for the winners were distributed during the College Day 2015.

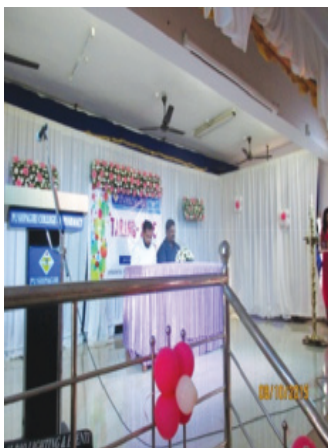


STUDENTS PERFORMING DURING HORIZON-2015.....



## FRESHER'S DAY & FAREWELL CEREMONY OF 2015

The freshers day “Tarang-2015” for Pharm D & B Pharm (2015-16 batch ) was conducted on 08<sup>th</sup> October,2015 at Mar Theophilos Annexe Auditorium . The gathering was welcomed by Prof. Dr. Mathew George, Principal, Pushpagiri College of Pharmacy. The event was inaugurated by Rev. Fr. Mathew Vadakkekuttu. The fresher students showcased their talents during the event. The programme ended up with refreshment.



INAUGURATION CEREMONY OF FRESHER'S DAY “TARANG-2015”....

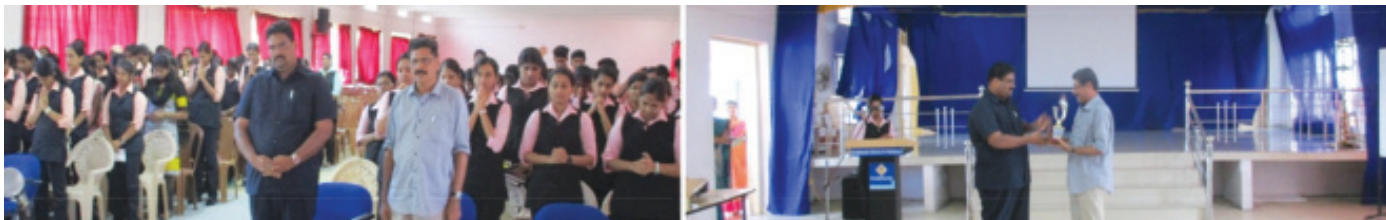
**Saynora -2015** , the farewell programme for the second batch of KUHS B-Pharm & M-Pharm, was organised on 20<sup>th</sup> October 2015 at Mar Theophilos Annexe Auditorium. Prof. Dr. Mathew George, Principal, Pushpagiri College of Pharmacy welcomed the gathering. Rev. Fr. Varghese Manalel, Spiritual Director inaugurated the event. Rev. Fr. Mathew Vadakkekuttu, Medicity Director, delivered Director’s message to the gathering. The class representatives of each batch felicitated during the event. The outgoing students were presented with mementoes as a token of appreciation. Various cultural events and games were arranged by the students of Pushpagiri College of Pharmacy. Ms. Jesline Raju (B-Pharm) and Ms. Prabha Mathews (M-Pharm) from the outgoing batches proposed vote of thanks.



DURING THE FAREWELL CEREMONY “SAYNORA-2015” (Second Batch of KUHS B PHARM & M PHARM)

## ORIENTATION PROGRAMME FOR FRESHER'S

One day orientation programme for fresher Pharm D & B Pharm batches (2015-16 admissions) was organised at Mar Theophilos Annexe Auditorium on 07<sup>th</sup> October 2015 .Prof. Dr. Mathew George welcomed the gathering .The orientation class was taken by Shri. B Rajan, President, Kerala State Pharmacy Council, Thiruvananthapuram. This programme helps the students to acquire an awareness in the field of Pharmacy. Prof Dr. Lincy Joseph, HOD , proposed vote of thanks.



DURING THE ORIENTATION CEREMONY PROGRAMME..... BY Sri. B. Rajan, PRESIDENT, KERALA STATE PHARMACY COUNCIL, THIRUVANANTHAPURAM

## ACHIEVEMENTS



PCP PROFESSORS WITH PROF. IVARS KALVINS, COORDINATOR & DR. MAIJA DAMBROVA, MANAGER, INNOVA BALT, EUROPE

Prof. Dr. Mathew George, Principal and Prof. Dr. Lincy Joseph, Head of the Department, Pharmaceutical Chemistry of Pushpagiri College of Pharmacy participated "The Drug discovery conference" during August 27<sup>th</sup>-28<sup>th</sup> 2015 ,held at Europe. The research paper of Prof. Dr.Lincy Joseph has been accepted and presented at Riga, Europe. In continuation to conferences they were invited in Switzerland, Italy, Germany, Latvia ,France (European countries) and interacted with many Scientists and Professors of Medical and Pharmaceutical Sciences.

Prof. Dr Mathew George published more than 75 articles and Prof. Dr.Lincy Joseph carries 70 research articles in reputed Indexed Journals. Currently Prof. Dr. Lincy Joseph carry out granted research funded project which has been sponsored by Govt.of India, New Delhi.They have authorized a few text books in the pharmacy field and guided more than 50 candidates so far. Prof. Dr. Mathew George has received Best Teacher Pharmacist Award from Kerala State Pharmacy Council, Trivandrum 2014. Both of them are Former Directors from the University

## SEMINARS & WORKSHOPS ATTENDED BY STUDENTS AND STAFF OF PUSHPAGIRI:

1. Jess Jose & Umesh Kumar, (1st M Pharm –Pharmacology) attended National Symposium on Medicine Safety "Medsafe-2015" on 26<sup>th</sup> September, 2015.
2. Prof. Dr. Mathew George , Prof Dr. Lincy Joseph, Ms. Prabha Mathews, Ms.Ashitha K S along with 21 students attended 67<sup>th</sup> IPC-2015 at JSS University, Mysore from 19<sup>th</sup> to 21<sup>st</sup> December, 2015

## REPORT ON 54<sup>TH</sup> NATIONAL PHARMACY WEEK AND COLLEGE DAY CELEBRATION ON -2015

**Dr. Sujith K**, Assistant Professor, Department of Pharmacology

54<sup>th</sup> National Pharmacy Week and College day celebration was held in our institution on 27/11/2015. Social awareness programme on cancer and hair donation by college students in association with Amala medical college hospital, Thrissur was significant event of this function. The programme started with reception ceremony from college entrance for the chief guest, Smt. Gayatri Arun (Tele Artist) and other invited dignitaries which was accompanied by the band set. The programme in the auditorium started with the welcome dance by second year pharm D students.

Prof. Dr Mathew George, Principal Pushpagiri College of pharmacy welcomed the gathering. Presidential address was delivered by Rt. Rev. Dr. Msgr. Antony Chethipuzha, Vicar General, Archdiocese of Tiruvalla. Smt Gayathri Arun, tele artist inaugurated the programme and delivered inaugural address. Rev. Dr. Shaji Mathews Vazhayil, CEO, Pushpagiri group of institution and Rev. Fr. Mathew Vadakkekuttu, Director, Medicity campus delivered the respective messages during this programme. The jubilarian, Rev. Dr. Shaji Mathews vazhayil, CEO, Pushpagiri group of institution was

honoured. The felicitation speech was given by Dr. Jose Joseph, HOD medical college hospital, Kottayam and Shri Christopher Philip, Vice president, Preingara gram panchayat. The first edition of pharmacy practice bulletin of pushpagiri college of pharmacy was unveiled during the function. The Mr horizon and Miss horizon prize 2015 was also given to students for their best performance in horizon event. The Certificate of merit and endowment cash prize was given to students for best performance in academics during the function.

About seven students from the college donated their hair on the stage in presence of beautician and was officially inaugurated by Dr. Shaji Mathews vazhayil, CEO, Pushpagiri group of institution and Smt Gayathri Arun, tele artist and their donated hair was sealed in polythene bags and send to Amala medical college hospital for preparation of wigs for cancer patients. The students were honoured with memento by the chief guest, Smt Gayathri Arun for their hair donation service. The programme ended with vote of thanks by Prof Dr Lincy Joseph, HOD Dept of pharmaceutical chemistry.



WELCOMING THE GUESTS FOR THE COLLEGE DAY CELEBRATION & 54<sup>TH</sup> NPW-2015



INAUGURATION OF COLLEGE DAY CELEBRATION & 54<sup>TH</sup> NPW-2015



**INAUGURAL ADDRESS BY THE CHIEF GUEST & HONOURING CEREMONY OF JUBILARIAN, REV.DR.SHAJI MATHEWS VAZHAYIL, CEO, BY RT. REV. DR .MSGR.ANTONY CHETHIPUZHA,VICAR GENERAL, ARCHDIOCESE OF TIRUVALLA**



**UNVEILING OF FIRST EDITION OF PHARMACY PRACTICE BULLETIN- CLINICAL PHARMA PRACTICE NEWS ECHO**



**INAUGURATION OF HAIR DONATION CEREMONY IN ASSOCIATION WITH AMALA CANCER INSTITUTE, THRISSUR & THE STUDENTS WHO DONATED THEIR HAIR TOWARDS THE PROGRAMME.**



STUDENTS PERFORMING DURING THE COLLEGE DAY CELEBRATIONS -2015



### CHRISTMAS CELEBRATIONS-2015



Christmas celebration at PCP, on 23<sup>rd</sup> December, 2015. The winners (1st Prize) of Carol competition performed during the celebration.

**VISIT TO SHALOM KARUNYA TRUST**

As a part of charity during National Pharmacy Week Celebrations-2015, the staff and students of Pushpagiri College of Pharmacy, visited Shaolom Karunya Trust ON 2<sup>nd</sup> Decenber, 2015 with few free medicines and daily consumables to the inmates.



HELPING HANDS TO THE NEEDY – DURING SHALOM KARUNYA TRUST VISIT

**INDUSTRIAL VISITS DURING 2015**



STAFF AND 4<sup>TH</sup> B –PHARM STUDENTS(2012-13 BATCH) DURING INDUSTRIAL VISIT AT CIPLA, VERNA, GOA



STAFF AND 3<sup>RD</sup> B –PHARM STUDENTS(2013-14 BATCH) DURING INDUSTRIAL VISIT AT SAMI LABORATORIES, BENGALURU, KARNATAKA



STAFF AND 2<sup>ND</sup> YEAR PHARM - D STUDENTS(2014-15 BATCH) DURING INDUSTRIAL VISIT AT BIOCON, BENGALURU, KARNATAKA

**CELEBRATION OF NEWYEAR WITH REFRESHED THOUGHTS AND COLOURFUL NEW DREAMS**



Welcomed New year 2016 with one hour message from our Director, Rev. Fr. Mathew Vadakkekuttu, with all teaching staff together followed by lunch.