

CERTIFICATE

This is to certify that the details furnished in this report of the activities of Physics Association is an authentic description of the events held in the academic Year 2016- 17

Dr. Sindu Jones
*Head of the Department
Department of Physics*

Dr. Misha Hari
*Teacher in charge
Physics Association*

Office Bearers

President*Prof. Alexander V. George*
Principal

Vice President.....*Dr. Sindu Jones*

Teacher in Charge.....*Dr. Misha Hari*

General Secretary*Mr. Sanju Raju*

Joint Secretary.....*Ms. Malavika Soman*

Documentation Officer*Mr. M. S. Suryan Sivadas*

| <i>Sl. No.</i> | <i>EVENTS</i> | <i>DATE</i> |
|----------------|--|--------------------|
| 1 | <i>ORIENTATION CLASS FOR FINAL YEAR STUDENTS</i> | <i>01-08-2016</i> |
| 2 | <i>PHYSICS ASSOCIATION INAUGURATION AND FRESHERS DAY</i> | <i>03-08-2016</i> |
| 3 | <i>ALL KERALA INTERCOLLEGIATE PHYSICS QUIZ COMPETITION</i> | <i>23/08/ 2015</i> |
| 4 | <i>ALL KERALA INTERCOLLEGIATE PHYSICS POWER POINT PRESENTATION COMPETITION</i> | <i>25/08/2015</i> |
| 5 | <i>ONAM CELEBRATION</i> | <i>07/10/2016</i> |
| 6 | <i>21st INCEPTION DAY OF OUR DEPARTMENT</i> | <i>15/11/2016</i> |
| 7 | <i>WORKSHOP ON NUCLEAR ENERGY PROGRAMME</i> | <i>24/11/2016</i> |
| 8 | <i>EDUCATIONAL VISIT- VSSC, THIRUVANANTHAPURAM</i> | <i>21/12/2016</i> |
| 9 | <i>SEMINAR ON PLASMA PHYSICS ON NATIONAL SCIENCE DAY</i> | <i>28/02/2017</i> |

1. ORIENTATION CLASS FOR FINAL YEAR STUDENTS

An orientation class for final year B.sc. students was conducted on 1st August 2016 at 10 am at Mrs. Mamen Mappila Hall. Prof. Mary Mathews, Retired wise principal of Baselius College, Kottayam lead the class. She spoke on the qualities of a good student and how to become a good human being in the society. Her class was highly energetic and interactive from the beginning to the end.



2. PHYSICS ASSOCIATION INAUGURATION FRESHERS DAY

The activities of the Physics association for the year 2016-17 was started with the formal inaugural function on 3rd August at 10 am in Mrs. Mamen Mappila Hall. The meeting commenced with a prayer song by Saranya S. of D3 Physics. Association in charge Dr. Misha Hari gave the welcome speech. Head of the department of physics, Dr. sindu Jones presided the gathering. Dr. K. Indulekha , Director of school of Pure and Applied Physics, Mahatma Gandhi University , inaugurated the association by lighting the lamp. The college principal Prof.Alexander V. George felicitated the the function. Association secretary Sanju Raju proposed the vote of thanks. After the inaugural function, Dr. Indulekha delivered a lecture on “gravitational waves”, followed by an interactive section with the students.



Physics association rendered a warm welcome to the first year degree students on August 3rd after the function at Mrs. Mamen Mapila Hall. The new comers were entertained with various cultural events conducted by third year and second year students. The icebreaking event became a platform to unleash the hidden talents and to form a strong bond between seniors and juniors.

3. ALL KERALA INTER-COLLEGIATE PHYSICS QUIZ COMPETITION

All kerala inter collegiate Quiz competition was conducted on 23rd August 2016 in memory of Late Prof. Susan John K. She was a dedicated teacher and constant inspiration for her students as well as colleagues. She served her role very well in her short life span of 48 years till 15th August 2008.



Dr. Santhosh Potharay, Associate Professor, BPC College Piravom served as the quiz master. About 30 teams from all over kerala participated in the competition. M. S. Suryan Sivasdas and Amal George Cheriyan of D3 physics, Baselius college bagged the first prize which included a cash prize of Rs. 3000 and ever rolling trophy. Abhishek C P and Jeena Rose Jose of St. Dominic's College, Kanjirapally was the first runner up and the second runner up was Sanjay Sabu and Aswin V, of Government College, Kottayam.

The prizes were distributed by Prof. Alexander V. George and the memorial speech was rendered by Prof. Varghese John , retired professor of department of physics Baselius college. Mr. Anish , a former student of Prof. Susan John K. spelled out his memory with her. There was a short documentary on the memories of Prof. Susan John. The session ended by the proposal of Vote of thanks by Mr. Sanju Raju, Association Secretary.

4. ALL KERALA INTER-COLLEGIATE PHYSICS POWER-POINT PRESENTATION COMPETITION

All kerala inter collegiate power-point presentation competition was conducted on 25th August 2016 in memory of Late Prof. V John. He is remembered as as an extremely sincere and dedicated teacher.

Dr. Jinchu I , Research Associate, Government College, Nattakom, Dr. Nibu A George , Asst. Professor, Dept. of Physics, Baselius College, Kottayam, . Ambika D , Asst. Professor, Dept. of Physics, Baselius College, Kottayam served as the judges. About 15 teams from all over kerala participated in the competition. Ms. Snita Rose Benjamin and Abhijith of K. E. College , Mannanam bagged the first prize which included a cash prize of Rs. 2000. Ms. Maria George and Ms. Maria Thomas of Assumption College, Changanassery was the first runner up.



The prizes were distributed by Prof. Alexander V. George and the memorial speech was rendered by Prof. Nibu A George, Asst. Professor of department of physics Baselius college. The session ended by the proposal of Vote of thanks by Mr. Sanju Raju, Association Secretary.

5. ONAM CELEBRATION



The members of Physics association actively participated in the Onam celebration conducted by Baselius College on 7th October 2016. A beautiful athapookkalam was decorated in the classroom and the students participated in the 'Onappattu' competition. After the competitions, the onasadya was served for students and teachers at D3 classroom. After the Onam feast, the students and teachers together sang Onappattu, which reminded the great history of the festival.

6. INCEPTION DAY



15th November 1995, the department of Physics was flagged off to mark its beginning in the academic arena. Every year, the physics association commemorates the inception day of physics department in the month of November. This year the association celebrated the inception day 15th November 2016. Former HOD of Physics department, Prof. K Mathew was the chief guest of the day. He shared the pains and experiences to bring up the department to the present status. There was a talk on “Super Moon” by Dr. Sindu Jones, HOD of Physics.

7. WORKSHOP ON NUCLEAR ENERGY PROGRAMME



The Physics association organized a workshop on ‘Nuclear Power Programmes’ on 24th November 2016 at Dr. A. P. Mani Media centre. Dr. Jose P. Panackal, Scientist, Baba Atomic Research Centre was the invited speaker. He covered all the aspects of Indian nuclear power programme. The class was highly inspiring for the students. Students from nearby colleges also participated in the workshop.

8. EDUCATIONAL VISIT – VSSC, THIRUVANANTHAPURAM

A group of 107 members including teachers, students and nonteaching staff, visited Vikram Sarabhai Space Centre (VSSC), Thiruvananthapuram on 21st December 2016. VSSC is the lead Centre of Indian Space Research Organisation (ISRO) under the Department of Space (DOS), Government of India. Every 3rd Wednesday of the month there is sounding rocket launch that public can witness. It was an unforgettable event for all the Physics aspirants who participated.

They demonstrated the amazing journey to the space and rockets. There was a chance to see the progress and development made by Indian Scientists into the research into space technology.



After witnessing the rocket launch at the space centre, there was a chance to visit the historical museum. Situated near the northern boundary of Thumba Equatorial Rocket Launching Station (TERLS), a few meters from the coastline, St Mary Magdalene Church, lined with high-tech artifacts and visuals, speak the tell tales on the birth of Indian Space Programme.

It was in this church that the first rocket systems were assembled and integrated in 1962. The Bishop House, forming part of the church, functioned at that time as the office of the Director, TERLS. As the scientific activities gathered momentum, new projects came up, which necessitated the construction of new buildings. The first in the line were the Control Centre and then the R&D complex on the Veli Hills, all of which relegated the church building into the background. The museum has full-scale model of PSLV and PSLV heat shield on its premises. The museum also has scaled down (one fifth in size) models of GSLV, GSLV Mk-III and ATV.

Space Museum provides a tell-tale account of the Indian Space Programme from its infancy. The story of the Indian Space Programme is unfurled in six sections, comprising of history, education, technology, applications, global and the future. A movie theatre with surround sound system screens specially tailored movies on Indian Space Programme.

9. SEMINAR ON PLASMA PHYSICS



As part of the National Science day celebrations, physics department organized a seminar on 'Plasma Physics- An overview of the Science and Applications' on 28th February 2017. Padmashri Prof. P.I. John, the prominent Indian Plasma Physicist led the session. He was the former Head of Physics Division of International Atomic Energy Agency, and Meghnad Saha Chair in Plasma Science at Institute for Plasma research, Ahmedabad. Students and teachers of physics department of Baselius college and nearby colleges participated in the workshop. After the seminar Ms. Femi Raju (D3 Physics) and Ms. Ashlin Mary Jacob (D2 Physics) took power-point presentations on renewable energy resources and organics LEDs, who bagged prizes in various intercollegiate competitions.

Student Achievements

Individual:

| <i>Sl. No.</i> | <i>Name of the student</i> | <i>Nature of Achievement</i> |
|----------------|-----------------------------|--|
| <i>1</i> | <i>Femy Raju</i> | <i>(i) Secured 1st prize in power point presentation competition on renewable energy held on 21-01 2017. (ii) Secured 1st prize in power point presentation competition on 'Science for Nation Building' on 9th Feb at Alphonsa College, Pala. (iii) Secured second prize, in power point presentation competition, on 13th Feb, S. B College</i> |
| <i>2</i> | <i>Ashlin Jacob</i> | <i>(iv) Secured 3rd prize in power point presentation competition on 'Science for Nation Building' on 9th Feb at Alphonsa College, Pala (v) 1st prize in power point presentation competition at BCM College, Kottayam on 14th Feb. (vi) Secured 2nd prize in quiz competition on general Physics at CMS College, Kottayam.</i> |
| <i>3</i> | <i>M. S. Suryan Sivadas</i> | <i>Secured 5th rank in the APT Talent search examination 2016-17</i> |

Group:

| <i>Sl. No.</i> | <i>Name of the student</i> | <i>Nature of Achievement</i> |
|----------------|---|--|
| <i>1</i> | <i>M. S. Suryan Sivadas and Amal George</i> | <i>Secured first prize in Prof. Susan John K. Memorial 8th All Kerala Inter- Collegiate Physics Quiz Competition conducted by Department of Physics, Baselius College, Kottayam on 23/8/2016.</i> |

Faculty Achievements

| | |
|--------------------------|--|
| <i>Linju Ann Jacob</i> | <i>Participated in the UGC- sponsored refresher course in Environmental Science conducted by the UGC- Human Resource Development centre , University of Kerala from 02-02-2017 to 22-02-2017</i> |
| <i>Dr. Nibu A George</i> | <i>Invited talk on “Development of LED Bulbs ” at St. Thomas College, Pala, on 17th February 2017.</i> <i>Served as resource person in career guidance for physics students at St. Mary’s college Manarcad on 25th February 2017.</i> |
| <i>Dr. Ambika D</i> | <i>Participated in the UGC- sponsored refresher course in Materials Science conducted by the UGC- Human Resource Development centre , University of Kerala from 29-11-2016 to 19-12-2016</i> |