



Volume II
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Physik

ALOYSIAN PHYSICS

NEWSLETTER

Department of Physics
Supported by DST-FIST

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Manager's Message



Very Rev. Fr. John
Manakunnel

I am glad to know that Department of physics is bringing out the Second edition of their newsletter PHYSIK. It is a forum which could aptly be used for recording events, fond memories and creative writing. I am sure that this will be informative and resourceful. With proud legacy of 35 years, the department has excelled in every field. Many students have registered their presence in the merit list of MG University, Kottayam and others have brought laurels in cultural activities. Students educated from here have carved a niche for themselves in various fields at national and international levels. On this occasion, I convey my good wishes to the faculty and students of the department in their endeavors

SOON TO BE A RESEARCH CENTRE



To promote research interest among the students and the teachers of the department, a research lab was introduced with different synthesis facilities like Dip coating and Spin coating units, Vacuum furnace, Muffle furnace, Hot air oven, Microwave, Distilled water unit, Ultrasonic cleaner etc. A photoluminescence spectrofluorimeter is also made available for the research analysis. For a further development of the research field Physics Department of the College applied for recognition as a Research Centre affiliated to the Mahatma Gandhi University, Kottayam. The procedures to upgrade the department into a research centre are on its final stage. An Inspection Commission

consisting of a Convener and a subject expert appointed by the Vice Chancellor was sent to the department, to ensure the adherence of norms stipulated for research centres viz., infrastructure and institutional facilities available. We hope MG university will release the sanction letter for the research centre soon.

Principal's Message



Dr. Saban K.V.

Dear all

It gives me immense pleasure to pen a few words as prologue to the newsletter Physik. The Department of Physics has the privilege of having a

healthy, harmonious ambience and rich values which have played pivotal role in shaping the future of innumerable students. High standards and expectations for each student in regard to academic performance, co-curricular participation and responsible citizenship are the foundation of the department. Management, steps taken by the Head of the Department, the willing contributions of the teaching and non teaching staff and overwhelming response and enthusiastic participation of students in the recent past, all vouch for this. I congratulate all the contributors and editorial board for bringing out this newsletter

HOD's Message



Dr. Saban K.V.

Looking back, this has been a blessed year for the department of physics, for getting sanctioned the DST-FIST financial assistance, for the visit of

inspection committee-Research Centre and for completing the renovation and shifting of classrooms and laboratories.

We gratefully acknowledge the financial contributions of the management, former teachers and former students which support the activities outside the scope of our normal funding resources.

I want to thank and congratulate Mrs. Rani George and our teachers for the effort taken for the completion of second edition of our newsletter Physik-2018.

"Physics is about questioning, studying and probing nature. You probe, and, if you're lucky, you get strange clues."

All the Best

Yours HOD,

Dr. Jochan Joseph

Editors Note



Welcome to the annual physics department newsletter. The 2016-17 academic year was interesting and rewarding in many ways. Physics at St. Aloysius

is notable at its breadth of its program and the exciting research occurring in the department, which you can read about in the following pages. Representing the spectrum of the physical sciences, faculty members are the backbone of the Department. They support the college with programs and professional services, beneficial for students. Department of Physics is committed to the preservation of the physical sciences for future generations, the success of physics students both educationally and professionally, and the promotion of a more scientifically literate society. These are exciting times at the Institute. Department completed 35 years of glory at St. Aloysius College. We have evolved new strategic goals and initiatives, a renewed focus on academic and research activities and a reinvigorated effort to serve the students and the College. We are expecting great strides in the coming days as we look forward to the research centre approval, to utilize the DST FIST project etc. and aim to make the Department the premiere resource for the physical sciences community. I look forward with enthusiasm to the coming year

Mrs Rani George

The third UGC sponsored National Seminar



The third UGC sponsored National Seminar organized by the department of Physics was conducted on the topic "Recent Trends in Nano and other Materials for Energy Efficient Devices" on July 20-22, 2017. The national seminar was co-sponsored by Kerala State Council for Science, Technology and Environment, Thiruvananthapuram. The seminar aimed at college professors, researchers and students interested in the relevant issues. The seminar proved to be the meeting ground for M.Sc. students, Research Scholars and Teachers to exchange experiences, knowledge, queries and insights. It was as an effective platform for all the concerned stakeholders to introspect about the numerous challenges and dilemmas facing the current energy efficient devices. Dr. Jochan Joseph, Head of the Physics Department along with all the faculty members of the Department contributed towards the success of the Seminar.

The seminar has been divided into six technical sessions and an inaugural and a valedictory session. A total of 100 delegates registered and participated in the seminar including 52 faculty members from various parts of the country.

Dr. Jochan Joseph, Head of the Physics Department, while welcoming all the resource persons, dignitaries, delegates and participants, with a brief introduction of the College, different activities of the Department. He expressed his immense pleasure that physics department of St. Aloysius College Edathua is hosting for the third time a UGC sponsored National Seminar. On the first day, the inaugural session was presided by Dr. Saban K.V, Principal, St. Aloysius' College, Edathua. The inaugural speech was delivered by Dr. S. Uthanna (Sree Venkiteswara University, Thirupatti, Andhra Pradesh) followed by lightening of the lamp by the distinguished guests. The concept note of the national seminar was presented by Prof. Lizymol

Xavier (Convenor, National Seminar) Followed that felicitation of the guests by Dr. Varghese Mathew (Former HOD Physics) The inaugural programme ended with vote of thanks by Prof. Rosmin John (Secretary, National Seminar)

Following the inaugural session there was a plenary session chaired by Dr. S. Uthanna (Sree Venkiteswara University, Thirupatti, Andhra Pradesh). In the session speakers were Dr Saban K.V, Principal, St. Aloysius' College, Edathua and Dr. K.E. Abraham, St. Berchmans College, Changanacherry. Dr. Saban K.V delivered his talk on "Colossal Dielectric Behavior in Rare - Earth Based Ceramic Perovskites". Dr. K.E. Abraham delivered his talk on "Morphology dependent optical and electrical properties of cadmium oxide nanostructures". These speeches were followed by question, discussion and view points of the participants and speakers. In the post lunch sessions participants presented their paper in two academic sessions.

On the second day, many other prominent educationists such as Dr. SAJI K.J. (International School of Photonics, CUSAT, "Field effect transistors: A materials perspective"), Dr. C.K. MAHADEVAN (Centre for Scientific and Applied Research, PSN College of Engineering & Technology, Tirunelveli, "Preparation of various NIS nanophases-Role of XRD and TG/DTA measurements") Dr. S. Uthanna ("Recent Advances in Solar Cells and their Processing Technologies") shared their views on various issues pertinent to the current research scenario. A contributed oral and poster session was also conducted.

Last day of the seminar started with an invited talk by Dr. Nibu A George (Baselus College, Kottayam) on "Nonlinear Optical Characterisation". This was followed by valedictory function. Prof. Lizymol Xavier welcomed the gathering. The Valedictory session was presided by Dr Saban K.V, Certificates were distributed by the guests. The programme was ended with vote of thanks by Dr. Vinu T Vadakel (Physics Faculty)



DST FIST Assistance

"Fund for Improvement of S&T Infrastructure (FIST)" of the Department of Science & Technology (DST), Government of India was sanctioned for the PG departments of the college. The Nature of Support includes optimal infrastructure facilities for post-graduate teaching and research, such as, renovation of existing laboratory space and cold room, modernization of laboratories involved in PG teaching and research, acquisition of essential equipment, up-gradation of existing facilities, networking & computational facilities including software & databases, scientific & technical books, maintenance & refurbishing of existing and new facilities etc.. Rs. 95 lakhs was sanctioned under this project, of which Physics department can utilise Rs. 63 lakhs. The Program Implementation group contains Dr Saban K.V as the chairman and Dr. Jochan Joseph as the secretary.

Lab and Classroom Renovation



The program, aimed at enhancing a better learning environment for the students, was started during the previous academic year. The construction and renovation had been going for six months. Completed activities include: Shifting the PG classrooms to the rooms near the first floor practical lab, Demolishing the wall between the two classes to create a practical lab at the second floor. Shifting the BSc classrooms to the rooms near the department, Construction of a new bathroom and a dining space and renovation of an existing bathroom. The department is thankful to the management and former teachers for the financial support. Special thanks to the third batch of BSc physics 1984-87 batch for their whole hearted support to our Department. They collected a total of Rs. 1.4 Lakhs. Fr. James Kumpanthanathu (brother of Prof. K C Mathai) and Mr. Sonal Nerhona represented their batch. Special thanks to the third batch of BSc physics (1984-87 batch) for their whole hearted support to our Department

Faculty Corner



Dr. Jochan Joseph



Prof. Lizymol Xavier



Mrs. Rosmin John



Dr. Lakshmi Vijayan



Dr. Vinu T Vadakel



Mrs. Rani George



Mr. Babu K Thomas



Ms. Srilekshmi

Renowned physicist Dr E C G Sudarshan passes away at 86

Sudarshan specialised in Quantum Optics and linked Vedanta with modern physics



Ennackal Chandy George Sudarshan, professor at the Texas University and acclaimed scientist, passed away in Texas on Monday morning.

The renowned physicist E C G Sudarshan, who proved Albert Einstein wrong, was recommended for the Nobel Prize nine times but never awarded.

The 86-year-old physicist was born in Kottayam on September 16, 1931.

Sudarshan specialised in Quantum Optics and linked Vedanta with modern physics. He has proved Albert Einstein's theory on the speed of light was wrong as tachyon can move faster than light.

Nobel Prize in Physics 2017



Barry C Barish



Kip S Thorne



Reiner Weiss

The Nobel Prize in Physics 2017 was divided, one half awarded to Rainer Weiss, the other half jointly to Barry C. Barish and Kip S. Thorne "for decisive contributions to the LIGO detector and the observation of gravitational waves". All three scientists have played leading roles in the Laser Interferometer Gravitational-Wave Observatory, or Ligo, experiment, which in 2015 made the first historic observation of gravitational waves triggered by the violent

merger of two black holes a billion light years away. Prof. Olga Botner, a member of the Nobel committee for physics, described this as "a discovery that shook the world". The Ligo detections finally confirmed Einstein's century-old prediction that during cataclysmic events the fabric of spacetime itself can be stretched and squeezed, sending gravitational tremors out across the universe like ripples on a pond.

Association Inauguration



Physics association was inaugurated by Prof. B. Premlet, the former HOD of Physics Dept., TKM College of Engineering on 14-09-2017. The meeting was presided over by our principal Dr. Saban K.V. H.O.D Dr. Jochan Joseph presented a felicitation. Alice Jeeva, association secretary, proposed the vote of thanks.

Industrial Visit to KMML



On January 15, 2018, Department of Physics organized a very successful one day industrial visit to The Kerala Minerals & Metals Ltd. (KMML), Chavara. KMML is an eco-friendly & socially committed company which is the only integrated Titanium Dioxide facility having mining, mineral separation, synthetic rutile and pigment-production plants. Apart from producing rutile grade Titanium Dioxide pigment for various types of industries, it also produces other products like Ilmenite, Rutile, Zircon, Sillimanite, Synthetic rutile etc. There were 45 students and 2 teachers on the visit. The day started with an exciting set of demonstrations on manufacturing techniques and products they offer. The students had a great time, and gave a good feedback. On the return to college, as a department treat they visited the chavara beach and enjoyed the evening

Lecture on Maha Lunar Eclipse and Sky Watching



On January 31 2018, a rare lunar phenomenon - termed "super blue blood moon" - took place in many parts of the world. Department of Physics organized a lecture on the topic on the same day at 3:00 pm. Department Facult Mrs. Rosmin John presented an informative talk on the peculiarities of this lunar eclipse. The



last super blue blood moon was reportedly seen on December 30, 1982, making it more than a quarter of a century since the last one. Students and teachers gathered together in the evening and watched the peculiar event through the two telescopes (reflecting and refracting) of the Astronomical club of the department.

Orientation Programme



The first year BSc and MSc students of our department was given an orientation programme by the former HoD of the department, Rtd Prof. James Sebastian on 15th March 2018. The program that is required for all first-year students, helped them prepare for your transition into college life as well as the challenges and opportunities that lie ahead—intellectually, emotionally, academically, and socially.

FTIR Demonstration



Mr. Rajesh from Shimadzu gave a demonstration, to the teachers and Post graduate students, on the new Compact FTIR 'IRSPIRIT'. Mr. Rajesh initially explained the basic theory of FTIR, further which the details of the instrument was elaborated. With the widest sample compartment in its class, the equipment easily accommodates Shimadzu and third-party accessories.

Arts Day



Jomy Jose
(II BSc)
First prize in
Mimicry



Anju Jhony
(II MSc)
First prize in
Folk Dance



Vinesh S Pai (III BSc)
3rd in classical percussion instrument competition



Cyril George
(III BSc)
First prize in the wind instrument Competition

The purpose of the Celebration of the Arts Day was to highlight our students' creative ambition and drive and to give them a chance to showcase their hard work and inspiration. Since creativity and innovation do not come in a single form or medium, the showcase highlighted student work from a diverse range of genres; including

music, poetry, visual art and more at the Celebration of the Arts Day. Students of physics department actively participated in the competitions conducted on arts day. Students participated in the nasrani manka and monjathi competitions. Ms. Anushamol K Benny of First Msc Physics won first prize in the monjathi competition.

Manuscript Magazine "Dhwani 2k18"



Even as publishing moves to a digital platform and digitisation is taking over different aspects of our lives, students of our department have launched manuscript magazines (Dhwani 2k18), with the aim of promoting Malayalam and giving a creative break to the staff from the drab world of statistics, surveys and computations. Contributions of the students were rewritten by those with good handwriting skills. The release of the magazine was done by Principal Dr. Saban K.V. on 7th March 2018. Editorial board included Prof. Rosmin John and Ms Theertha Mohan (III BSc)

PUBLICATIONS AND PAPER PRESENTATIONS

Journal Publications

Electrical relaxation, optical and magnetic studies of nanocrystalline lithium ferrite synthesized by different chemical routes Rajesh Cheruku, G Govindaraj, Lakshmi Vijayan Mater. Res. Express 4 (2017) 125008

Paper presentations

Prof. Rosmin John

1. Poster presentation on "Synthesis and Characterisation of ZnS Thin Films in Sol-Gel Matrix-Influence of Annealing Temperature" at UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

Dr. Lakshmi Vijayan

1. Poster presentation on "Synthesis of

LiMnPO₄ Using Sucrose Assisted Hydrothermal Method" at UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

2. Poster presentation on " " at 30th Kerala Science Congress, held during 28th to 30th January 2018 at Govt. Brennen College, Thalassery,

Dr. Vinu T Vadakel

1. Poster presentation on "Influence of Thermal Annealing and Gamma Irradiation on The Optical And Surface Morphological Studies on CuPcOC8 Thin Films" at UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

Prof Rani George

1. Poster presentation on 'Synthesis and

Characterisation of Sm³⁺ Doped PVDF-TiO₂ Hybrid Material', N.V at UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

2. Poster presentation on 'Synthesis and Characterisation of Sm³⁺ Doped PVDF-SiO₂ Hybrid Material', at International conference on Advances in Optics and Photonics held at Guru Jambheshwar University of Science & Technology, Hisar (Haryana) during November 23-26 2017

Prof Babu K Thomas

Ms. Srilekshmi R

1. Poster presentation on 'FTIR Analysis of Some Frequently used Compounds' at UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

Research Activities

Student project

"Synthesis and Optical Characterization of Dy³⁺ doped TiO₂/PVDF Hybrid Material" sponsored by KSCSTE, Thiruvananthapuram. (Rs.10000/-) completed. Principal investigator - Rani George. Student investigators- Harishma Murali and Gokul H (II MSc 2015-17)

Minor Research Projects Ongoing

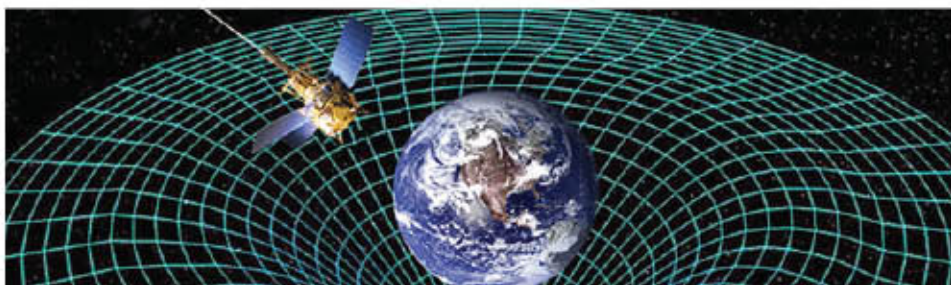
1. Prof. Lizymol Xavier - "Characterization and Studies of Metal Sulphide thin films in PVA Matrix Prepared by Spin Coating Technique." (Rs. 200000/-) - Completed

2. Prof. Rosmin John - "Characterization and Studies of Metal Sulphide MS thin films in Sol-Gel Matrix Prepared by Spin Coating Technique." (Rs. 70000/-) - Completed

3. Dr. Lakshmi Vijayan - "Investigations on Electrical, Magnetic, Electrochemical behaviour of NASICON and Olivine Materials." (Rs. 200000) - Completed

4. Dr. Vinu T Vadakel - "Influence of high energy radiation on the optical and luminescent properties of Phthalocyanine thin films." (Rs. 500000/-) Ongoing

What are Gravitational Waves?



Two-dimensional illustration of how mass in the Universe distorts space-time (Credit: NASA)

Gravitational waves are 'ripples' in the fabric of space-time caused by some of the most violent and energetic processes in the Universe. Albert Einstein predicted the existence of gravitational waves in 1916 in his general theory of relativity. Einstein's mathematics showed that massive accelerating objects (such as neutron stars or black holes orbiting each other) would disrupt space-time in such a way that 'waves' of distorted space would radiate from the source (like the movement of waves away from a stone thrown into a pond). Furthermore, these ripples would travel at the speed of light through the Universe, carrying with them information about their cataclysmic origins, as well as invaluable clues to the nature of gravity itself.

The strongest gravitational waves are produced by catastrophic events such as colliding black holes, the collapse of stellar cores (supernovae), coalescing neutron stars or white dwarf stars, the slightly wobbly rotation of neutron stars that are not perfect spheres, and the remnants of gravitational radiation created

by the birth of the Universe itself.

Though gravitational waves were predicted to exist in 1916, actual proof of their existence wouldn't arrive until 1974, 20 years after Einstein's death. In that year, two astronomers working at the Arecibo Radio Observatory in Puerto Rico discovered a binary pulsar—two extremely dense and heavy stars in orbit around each other. This was exactly the type of system that, according to general relativity, should radiate gravitational waves. Knowing that this discovery could be used to test Einstein's audacious prediction, astronomers began measuring how the period of the stars' orbits changed over time. After eight years of observations, it was determined that the stars were getting closer to each other at precisely the rate predicted by general relativity. This system has now been monitored for over 40 years and the observed changes in the orbit agree so well with general relativity, there is no doubt that it is emitting gravitational waves.



Seminars Attended

Dr. Jochan Joseph

1. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

Prof. Lizymol Xavier

2. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

Prof. Rosmin John

1. Two day Training Programme on 'Jaivam-2017' at Mahatma Gandhi University organised by National Service Scheme, M.G. University on 8-9 June 2017

2. National Workshop on Wave Mechanics, 10-11 June 2017 organised by Academy of Physics Teachers (APT), Kerala hosted by Assumption College, Changanacherry

3. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

4. ACS sponsored workshop on 'Publish your Research' as a part of National Seminar on Recent Trends in Alternate Energy-5 October 2017 at Govt. College Kottayam sponsored by The Dept. of Collegiate Education, Govt. of Kerala.

5. UGC and KSCSTE sponsored National seminar on 'Recent Trends in Alternate Energy' on 6 October 2017 at Govt. College, Kottayam sponsored by The Dept. of Collegiate Education, Govt. of Kerala.

6. Science Academie's Lecture workshop on 'Advances in Spectroscopic and Microscopic Techniques' at Bishop Moore College, Mavelikara on 12-13 October 2017

7. UGC sponsored Refresher course in Environmental Sciences, 09-29 January 2018 conducted by the UGC-HRDC, University of Kerala, Kariavattom, Trivandrum

Dr. Lakshmi Vijayan

1. National Workshop on Wave Mechanics, 10-11 June 2017 organised by Academy of Physics Teachers (APT), Kerala hosted by Assumption College, Changanacherry

2. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

3. National workshop on Conceptual and Mathematical structure of quantum mechanics at Vimala College, Thrissur on 12th -14th August 2017

4. Science Academie's Lecture workshop on Spectroscopy at Bishopmoore College, Mavelikara on 12th -13th October 2017

5. National workshop on Angular Momentum at KNM Womens College, Kannur on 14th -15th October 2017

6. National workshop on Time Independent Perturbation Theory at CMS College, Kottayam on 9th 11th December 2017.

7. 30th Keral Science Congress, at Govt. Brennen College, Thalassery, from 28th to 30th January 2018

8. Lecture workshop on "Theory of Angular Momentum" by Indian Science Academy at TKM College, Kollam on 14.03.2018-16.03.2018

Dr. Vinu T Vadakel

1. National Workshop on Wave Mechanics, 10-11 June 2017 organised by Academy of Physics Teachers (APT), Kerala hosted by Assumption College, Changanacherry

2. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

3. Science Academie's Lecture workshop on 'Advances in Spectroscopic and Microscopic Techniques' at Bishop Moore College, Mavelikara on 12-13 October 2017

4. National workshop on Designing Physics Teaching Tools conducted by APT at UC College, Aluva during 4-5 Nov 2017

5. Orientation Programme conducted by UGC HRDC, Kerala University from 4-31 Jan 2018

6. Two day workshop on General Relativity and Tensor Analysis conducted by IAPT at St. Pauls College, Kalamassery during 17-18 March 2018

Prof Rani George

1. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

2. Two day National seminar on Recent Trends in Alternate Energy - 2017 organized by Government College, Kottayam held on 5 to 6 October 2017

3. Three day International conference on Advances in Optics and Photonics held at Guru Jambheshwar University of Science & Technology, Hisar (Haryana) during November 23-26 2017

4. Two day Science Academies' Lecture workshop on Magnetism held at BCM college, Kottayam during 20 - 21 February 2018

5. Three day Science Academies' Lecture Workshop on Quantum Theory of Angular Momentum conducted at TKM College of Arts and Science, Kollam during 14 to 16 March 2018

Prof Babu K Thomas

7. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

Ms. Srilekshmi R

8. Three day UGC sponsored national seminar on 'Recent Trends in Nano and Other Materials for Energy Efficient Devices' held during July 20-22 2017 at St. Aloysius College, Edathua.

VALEDICTORY



Association Valedictory was conducted on 07/02/2018. Association President Prof. Rani George welcomed the gathering. Principal Dr. Saban K.V. delivered the keynote address. HOD Dr. Jochan Joseph felicitated the group. The function was inaugurated by Sri O.A. Sebastian, Rtd Prof. from St. Berch-

mans College, Changanacherry. Association report was presented by secretary Ms. Alice Jeeva P.V. (III DC). Prizes were distributed to the students for their achievements in both curricular and co-curricular fields during the academic year 2017-18. Ms. Mariyamol (II DC) thanked the gathering.

Women's Day Celebration

Department of Physics joined the celebration of Women's Day conducted by the Women cell of the college on 8th March 2018. Students participated in the nasrani manka and monjathi competitions. Ms. Teresa of First Msc Physics won first prize in the monjathi competition.

Dr. Varghese Mathew Endowment Elocution Competition



Parvathy
elocation first

Archabhai U. R.
runner up

Anupama Sanal
runner up

"Admiration comes easy to a person, who is endowed with the fine art of public speaking, who adorns common thoughts with the grace of elocution, and the elegance of style"

.....the famous words lingered on in the mind of all those who were lucky to witness Dr. Varghese Mathew Endowment Elocution Competition on the 22nd Wednesday February 2018, from 11am to 1pm hosted by the Department of Physics Started in the year 2014, in honour of Dr. Varghese Mathew, this competition brings together the best talents in the department for a purely intellectual pursuit. This time too the race was hot and hard. The participants, exhibited perfect nuances and finer points that go into making a public speech interesting and captivating. The poise, self-confidence and praiseworthy articulation delivered by the speakers with uncommon sense of conviction, made the event a benchmark for the fellow students, also providing utmost satisfaction and pride to the teachers. Finally Ms. Arya Nair, NSS College, Niranankara was adjudged the best speaker and Ms. Anupama Sanal (III BSc) and (I BSc) emerged the runner up.. Earlier in the day inaugurated the competition and introduced Dr. Varghese Mathew in abstentia. This year the topic for the competition was "Dr. Jomol Jose and Dr. Joshy Andrews were the members of the Judging panel. Prof. Rosmin John, Convenor of the Cultural Committee was the chief organizer of the programme. Finally Ms Parvathy S. Kumar (I BSc) was adjudged the best speaker and Ms. Anupama Sanal (III BSc) and Archabhai U.R. (I BSc) emerged the runner up

Study Tour



III BSc Students of department of Physics organized a 3 day study tour to Mysore, Chikmanglur and Coorg. The faculty members Dr. Jochan Joseph and Mrs Rani George accompanied the students. The journey started on 18th January 2018 night at 8.00 pm to Mysore.

The visited palces included Mysore palace, Brindavan Gardens, Chamundi Hills etc. The tour was made colourful with adventures like trucking in Chikmanglur and river rafting in Coorg.

Teachers Day Celebration



Teacher's Day was celebrated by Students of department of Physics to show their acknowledgement and recognition of the hard work put in by the teachers towards their development. Students of department of Physics celebrated the teachers day on 14-09-2017 by honouring the 'teacher of the day', our former H.O.D Rtd. Prof. James Sebastian. He was introduced by our current H.O.D, Dr. Jochan

Joseph. Principal Dr. Saban K.V. gave a message on the occasion and congratulated the students of the department for organising such a unique event. All the teachers in the department were felicitated by teachers day cards and roses. The programme also included a music by Mr. Hariram and a dance by the II DC students



Alumini meet of fourth batch (1984- 87) was conducted on 20th May 2017



Third batch (1983-86) alumini meet on 12th August 2017



First Batch (1981-84) alumini meet on 20th July 2017

DIAMOND DUAL



The annual meet of the physics alumni 'Diamond Dual' was conducted on 10/02/2018. The function was presided by Vice president Former teachers Dr. Varghese Mathew and Dr. K. C. Mathai felicitated the group. Alumini were given special gifts for their achievements

New Alumni



BSc. 2015-18



MSc. 2016-18

Congratulations



CHINJU VARGHESE

Qualified NET -Dec
2017(MSc 2014-16)



DR. MANAESH MICHAEL

Secured PhD
(BSc 2008-11)



GAYATHRI GOVIND

MG University MSc
(2015-17) 8th Rank



Ms. Saraswathy Devi of II MSc Physics obtained (for the second time) the much respected and coveted award given to exceptionally talented outgoing college students, the 'Exemplar' Award.



Dhanya S Kumar (I BSc Physics), Thomaskutty Tom (I BSc Chemistry) and Hamna N (I BSc-Physics) secured third prize in the intercollegiate quiz competition jointly organized by Indira Gandhi Center for Atomic Research, Kalpakkam and St. Berchmans College, Changanacherry



ANANDHU C SURESH

3rd in craft making



ASWIN SURESH

3rd in craft making



ANUSHAMOL

1st prize in
Monjathy
competition



HARIKRISHNA M

College union
arts club secretary



HARIRAM M

1st in story writing
by College Union



SANITHA L

2nd in essay writing

Farewell...



FOND FAREWELL TO

Sri Joseph Joseph

After a career of enormous accomplishment and influence, Sri Joseph Joseph, lab assistant retired on Dec 2017. He joined the college in 1986. Sri Joseph is known for his humility and his support for students. The sent off meeting was organised by the department on 19th December 2017 in which Sri Joseph shared his memorable moments in the department. On the day of his retirement department faculty accompanied him to his home. The newsletter committee extends our best wishes to Sri Joseph Joseph and our thanks for his many contributions to the department.

Our condolences



The Physics Department is sad to announce the death of our Lab Assistant Sri. Antony Joseph. He served the department for almost 20 years before formally retiring in 2015. He was a man of dignity, integrity, and kindness, and will be sorely missed. Our condolences go to his wife and to his wider family.

Sports Day



Students participated in the sporting events enthusiastically. Mili James of II BSc won Third prize in Discus Throw. Also Second prize in Volleyball Women and Second Prize in Football Women was from the department of physics.