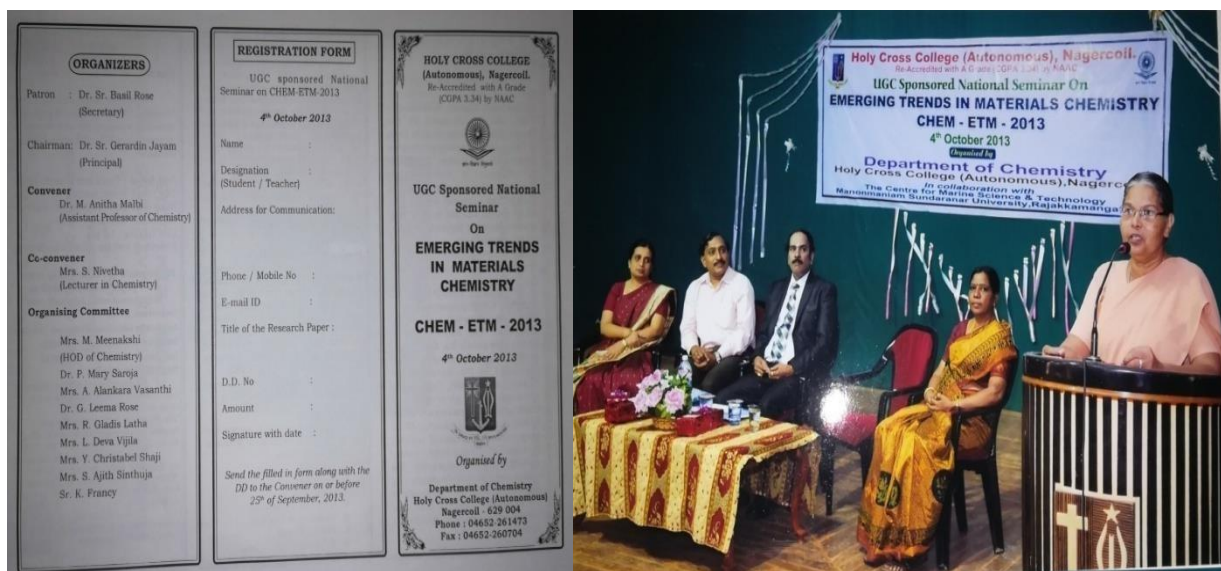


## Seminar Reports

### National Seminar Report (4<sup>th</sup> October 2013)

Department of Chemistry, Holy Cross College has conducted a UGC sponsored National Seminar on Emerging Trends in Materials Chemistry (Chem-Etm-2013) on 4<sup>th</sup> October 2013. The main objective of the seminar was to bring together the academicians, researchers and students to provide a common platform for sharing their knowledge in the preparation and characterization of newer materials. It widened the horizons of the participants by bringing the recent researchers for industrial applications, societal development and human well-being.

The resource persons of this seminar are Dr. G. Gopala Krishnan, Former Head of the Department of Pharmaceutical Chemistry, M.S. University, delivered the keynote address. Dr. Nallaperumal, Manager, Explosive Division, ISRO, Trivandrum gave a talk on Chemistry of Explosives and Rocket Propellants. Dr. B. Rani Mathammal, Scientist, ISRO, Trivandrum, gave a talk on Nano- Structured Polymers and Polymers in Medicine. Nearly 220 students and 45 faculties took active participation, and 19 numbers of papers were published in the form of proceedings with ISBN number 978-81-926183-5-7. The session ends with vote of thanks and National Anthem.



## National Seminar Report (27<sup>th</sup> August 2015)

National Seminar on Emerging Frontiers in Nano Science organized by Department of Chemistry, Holy Cross College (Autonomous), Nagercoil on 27<sup>th</sup> August 2015.

**Venue:** St. Joseph's Hall

**Resource Person:** 1. Dr. S. Rajagopal, UGC Emeritus Fellow, PG and Research Department of Chemistry, Vivekananda College (Autonomous), Madurai.

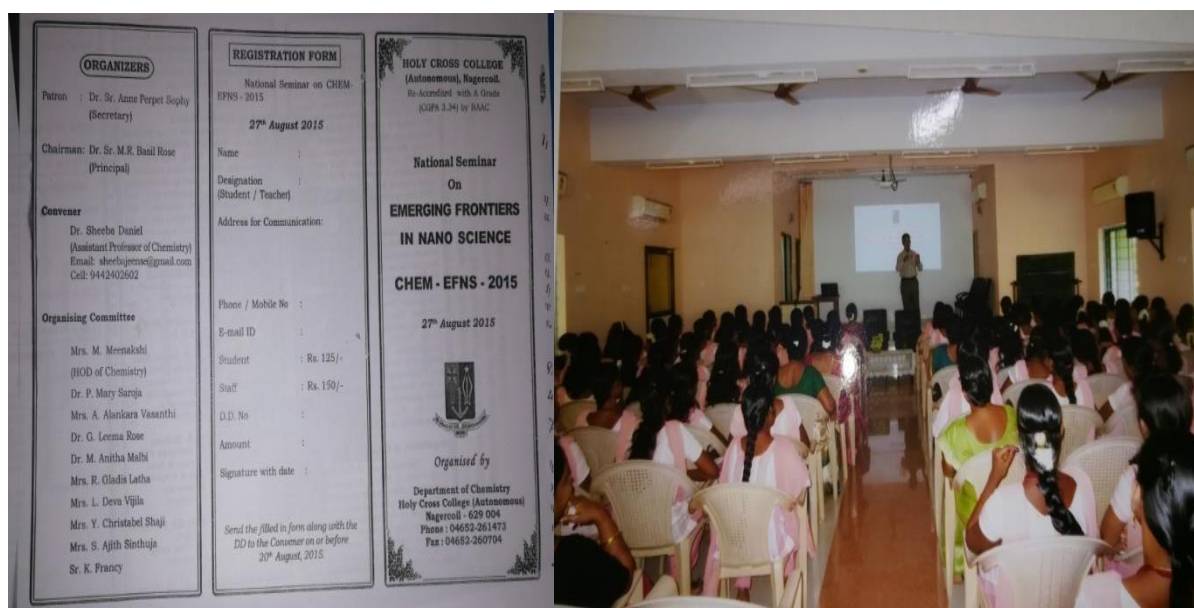
**Resource Person:** 2. Dr. K. Pitchumani, Former Senior Professor and Head, Department of Natural Products Chemistry, School of Chemistry, M.K. University, Madurai.

The seminar was inaugurated by Dr. M. Sankara Narayanan Pillai, Head, Department of Chemistry, Noorul Islam University, Kumarakovil and felicitated by our beloved Principal Dr. Sr. M. R. Basil Rose.

Dr. S. Rajagopal talked about the luminescent nano-aggregates and its applications in the field of chemistry and biology. He highlighted the applications of photo-genetics, photo-pharmacology and photosynthesis of luminescent nano-aggregates of copper, gold, iridium, silver and rhenium complexes. He explained about the aggregation-caused quenching and aggregation induced emission or enhancement. The sensing and removal of trace level explosives is a challenging area, but the stupendous effort made by the researchers in the field of chemical sensors. Dr. Rajagopal and co-workers determine a novel metal complex sensor for the determination of picric acid and he explained the Alzheimer's disease caused by the formation of fibril and plaque amyloid- $\beta$ -peptide in the central nervous system. Amyloid- $\beta$  aggregation acts as a sensor in Alzheimer's disease.

Dr. K. Pitchumani highlighted chemo-sensors and nano-sensors and its application in the biomedical field. He explained the synthesis, characterization and application of chemo-sensors for Cu(II) based on dansyl-functionalized silver nanoparticles. Facile colorimetric detection of L-histidine using modified  $\beta$ -cyclodextrin tethered to silver nanoparticles. Sensing of D-glucose by (E)-4-((pyren-1-ylmethylene)amino)phenyl boronic acid via photoinduced electron transfer mechanism. He explained on Cyclodextrin-based chemo-sensors and its advantages for the detection of neutral molecules such as monoterpenes, alkaloids and steroids, linear and branched alcohols. Flavone modified  $\beta$  cyclodextrin as a highly selective and efficient fluorescent chemo-sensor for  $\text{Cu}^{2+}$  ions and L histidine. Clay-entrapped nickel nanoparticles as effluent and recyclable catalyst for hydrogenation of olefins and its advantages.

The resource persons highlighted the applications of nanoaggregates and nano-sensors in the field of chemistry and biology. They mentioned the uses and advantages of the nanoparticles as sensors in the biomedical field to detect the cancer cells and some other diseases. They explained in detail about the introduction of nano-chemistry and its applications. The seminar was very useful for the participants. Around 275 participants participated in the seminar including staff members, research scholars, PG and UG students from our institution and other institutions. The session ends with the vote of thanks and National Anthem.



## National level workshop on “Clinical diagnosis of viral and autoimmune diseases” Report

The “National level workshop on clinical diagnosis of viral and autoimmune diseases” was organized and conducted by the Department of Zoology, Holy Cross College on 30<sup>th</sup> September 2015 at Multipurpose Hall, Holy Cross College, Nagercoil. The workshop was inaugurated by Dr. Arul Venkat, Primary Health Centre, Thollavilai. The gathering was welcomed by Mrs. Alice Prema, Associate Professor of Zoology. Dr. Sr. Basil Rose, the Principal, felicitated and Dr. Punitha, Assistant Professor of Zoology proposed the vote of thanks.

### Resource Persons:

**Dr. J. John Bernet**, Scientist - C, Viral Disease Biology, Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, Kerala.

**Dr. M. Jayalakshmi**, Assistant Professor, Department of Immunology, Centre for Excellence in Genomic Science, School of Biological Science, Madurai Kamaraj University, Madurai.

The first technical Session was handled by Dr. J. John Bernet, who illustrated “Emerging viral infection pathogenesis and diagnosis”. Dr. M. Jayalakshmi, the resource person of 2<sup>nd</sup> Session, explained the different molecular methods adopted in clinical diagnosis. Dr. M. Jayalakshmi and Mr. Starlin Raja, the Research Scholar from the Department of Immunology, Madurai Kamaraj University conducted hands-on training on Rapid test in clinical diagnosis. Two hundred and thirty-five participated and acquired knowledge on the above-mentioned topics. At the end of the workshop, certificates were distributed to the participants and the meeting ended with National Anthem.

<p><b>TECHNICAL SESSION - III</b> (2.00 pm to 3.45 pm) Topic: "Rapid Tests in Clinical Diagnosis" Resource person: Dr. M. Jayalakshmi &amp; Research Scholars Date of Inauguration: 30<sup>th</sup> September 2015 Centre for Excellence in Genomic Science, School of Biological Science, Madurai Kamaraj University, Madurai, Tamil Nadu. Time: 2.00 pm to 3.45 pm</p> <p><b>VENUE/WORKSHOP ADDRESS</b> (2.00 pm to 3.45 pm) Multipurpose Hall, Holy Cross College, Nagercoil.</p> <p><b>ORGANIZING COMMITTEE</b> Patron: Dr. Sr. Anne Perpetua Sappu, Principal Chair Person: Dr. Sr. S. R. Paul Rose, Principal Convener: Dr. K. Theasachethal, Head, Dept. of Zoology Organizing members: Mrs. J. Alice Prema, Dr. A. Punitha Co-ordinator (Students): Mrs. T. Mary Anjo, Dr. S. Mary Bernilla Raj, Dr. J. Alice Anjo, Dr. J. Theasly Ananthan Mary, Dr. A. Rishy Rajagathi, Mrs. P. J. Anand Chitra, Dr. Jini Chander Paul, Dr. C. Ananthan Periyachathal</p> <p>Registration Fee: Nil Sponsor: Holy Cross College, Nagercoil. * Lunch and refreshment will be provided. * Suitable prior registration till 10 October 2015. * This copy of the programme does not also be used by 11.10.15 will be provided to the participants.</p>	<p><b>REGISTRATION FORM</b></p> <p>National Level Workshop on "CLINICAL DIAGNOSIS OF VIRAL AND AUTOIMMUNE DISEASES" 30<sup>th</sup> September, 2015</p> <p>Name: _____ Designation: (Student/ Scholar / Faculty) Institution: _____ Address: _____ Contact No. _____ Signature of the participant: _____</p> <p>Please send the filled in registration form to: Organizing Secretary Department of Zoology, Holy Cross College, Nagercoil - 629 004.</p> <p>Contact: Mrs. J. Alice Prema 9442811667 E-mail: alprema@hccnagercoil.com Dr. A. Punitha: 9862440946 E-mail: punitha@zoo.hccnagercoil.com</p>	<p><b>HOLY CROSS COLLEGE</b> (Autonomous) Nagercoil - 629 004, Tamil Nadu, India. Recognized: UGC &amp; State CIPA 3.34 by NAAC</p> <p><b>National Level Workshop</b> ON <b>CLINICAL DIAGNOSIS</b> <b>OF VIRAL AND</b> <b>AUTOIMMUNE DISEASES</b> 30<sup>th</sup> September, 2015</p> <p><b>Organized by</b> PG and Research Dept. of Zoology Holy Cross College (Autonomous) Nagercoil - 629 004 Phone: 04652-261473 Fax: 04652-260794 Website: www.holycrossngl.in e-mail: holycrossngl@hccnagercoil.com</p>
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## **Endowment Lecture, Date: 12.12.2015 Topic: Education and Career prospects for Biologists**

**Report:** An endowment lecture was organised by the Department of Zoology on 12.12.2015. The programme started with a prayer song by the students of II M.Sc. Zoology. Dr. K. Thana Lakshmi, The Head of the Department introduced the speaker, Dr. K.P. Srinivasakumar, Chief Scientific Officer, INBIOTICS, Thiruvananthapuram, Kerala. The speaker highlighted the role of new technologies in the field of Life Sciences. He also highlighted the Education and Career Prospects in various fields with special reference to industries related in the fields of Biology. Dr. Vinoliya proposed the vote of thanks and the meeting ended with National Anthem.

**DEPARTMENT OF ZOOLOGY**  
Holy Cross College (Autonomous),  
Nagercoil 629 004.

*Endowment Lecture on*  
**"Education and Career Prospects for Biologists"**

*By*  
**Dr. K.P. Srinivasakumar,**  
Chief Scientific Officer,  
INBIOTICS,  
Thiruvananthapuram, Kerala

Date: 12.12.2015

Time: 10.30 am – 12.30 pm



## **Workshop on “Bonsai – 06. 02. 2015**

Department of Botany organized a one day workshop titled “Bonsai” on 6<sup>th</sup> February 2015. Mr. D. Ravindran, the Director of Nikki Bonsai Garden, Thuckalay was the chief guest. The workshop was scheduled to have a technical session in the morning, followed by a demonstration session in the afternoon. He briefly explained the cultivation and importance of Bonsai. The demonstration session began at 1.00 p.m. He demonstrated the different aspects of training and shaping of Bonsai plants. During that session, he gave hands-on training to a few volunteers about the different steps involved in making Bonsai such as pruning, trimming, wiring and shaping. 130 participants were benefited by this workshop.



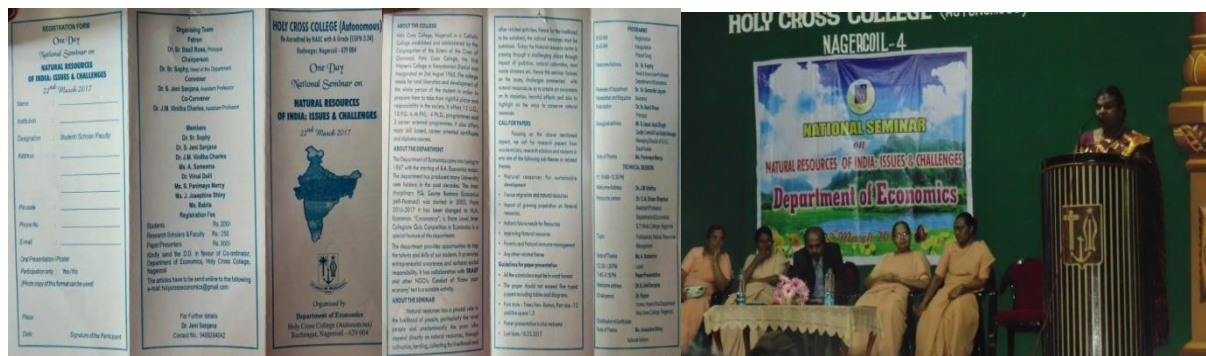
## Report of National Seminar on “Natural Resources in India: Issues and Challenges”

On 22<sup>nd</sup> March 2017, one-day national seminar on, “Natural Resources in India: Issues and Challenges” was held in the multi-purpose hall. The inaugural session began with the prayer song by A. Ruth Lithesial of I M.A Economics. Dr. Sr. Sophy welcomed the gathering. The inaugural address was given by Mr. S. Isaac Jeya Singh, Quality Control & Food Safety Manager, Managing Director of VLCC, Saudi Arabia. He elaborated on the environmental pollution and the evil effects of plastics. He also spoke about the “Clean India” campaign of Government of India.

The Departmental magazine, newsletter and proceedings of the seminar were released. The first copy of the magazine titled, ‘Econ – Spectrum’ was released by our Principal, Dr. Sr. Basil Rose. The first copy of the newsletter was released by the Secretary, Dr. Sr. Gerardin Jayam and received by Mr. Isaac Jeya Singh. The proceedings of the seminar in the form of CD was released by Dr. Sr. Basil Rose and received by Dr. Sr. Johncy, the Vice Principal. Dr. Sr. Gerardin Jayam, appreciated the staff members of the Department of Economics for their innovative programmes and best practices. Dr. Sr. Basil Rose felicitated the gathering. Ms. S. Panimaya Mercy proposed the vote of thanks.

Technical Session-I was handled by Dr. C. A. Sham Shankar, Assistant Professor of Economics, S. T. Hindu College, Nagercoil. He explained ‘Participatory Natural Resources Management’. He also discussed the causes and effects of water pollution in Kanyakumari District and the impact of water-borne diseases on health. It was a practical session too. Dr. J. M. Vinitha Charles welcomed the resource person and Ms. A. Sameema proposed the vote of thanks. The afternoon session was assigned for paper presentation. Since there were 29 paper presenters, the session was conducted as two parallel sessions: Dr. J. M. Rajam, former Head, Department of Economics, chaired the session held in the multipurpose hall and Dr. Jesi

Isabella, The Head, Department of Commerce, chaired the session held in the Cecile hall. After the paper presentation, Dr. J. M. Rajam distributed the certificates to the participants of various colleges. The total number of participants was 140. Ms. J. Josephine Shiny proposed the vote of thanks.



### Brief Report of the Programme: A one day national seminar on “Renewable Energy

Resources for Clean Energy – Green Future” was organized by the Department of Physics, Holy Cross College (Autonomous), Nagercoil which was sponsored by Kudankulam Nuclear Power Project, Nuclear Power Corporation of India Limited on 11<sup>th</sup> August 2017 in our college premises.

The program started with the prayer song. Dr. S. Mary Delphine, Head & Associate Professor of Physics welcomed the gathering. Inaugural address cum the technical session-I was handled by Shri. B. Vijayakumar, OIC, ESL, Member Public Awareness Committee, KKNPP. He explained Nuclear Energy and Environment Safety. In technical Session-II, the invited talk on “Smart Window Materials for Energy Saving” was delivered by Prof. C. Sanjeeviraja, CSIR – Emeritus Scientist, Alagappa Chettiar College of Engineering & Technology, Karaikudi.

In technical session-III Dr. N. Jaya Kumaran, Associate Professor of Physics, PG and Research Centre of Physics, V.H.N.S.N. College, Virudhunagar explained the need for energy in our day to day life. One hundred and eighty-four (184) of our college participants and thirty-five (35) participants from neighbouring colleges were benefitted out of this seminar. Feedback was collected from the participants. In the valedictory function, certificates were distributed to the participants. Dr. Fernando Loretta, Associate Professor of Physics, Holy Cross College proposed the vote of thanks. The seminar program came to an end with National Anthem.



**Brief Report of the Programme:** A one-day workshop was organized by the Department of Computer Science, Holy Cross College on 14/2/2017-16/2/2017.

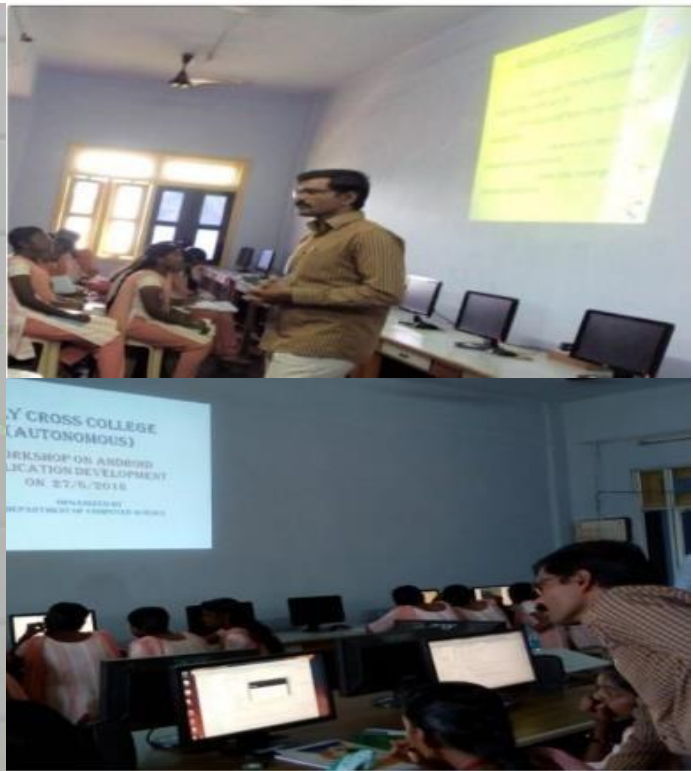
The program started with the prayer song. J. Anto Hepzie Bai, Head & Assistant Professor of Computer Science welcomed the gathering. Inaugural address cum the technical session was handled by Mr. Gokul. He explained the robot and to develop the model of Robotic car. One hundred and forty-two (142) participants benefitted out of this workshop. Feedback was collected from the participants. In the valedictory function certificates were distributed to the participants. Mrs. Rajitha, Associate Professor of Computer Science, proposed the vote of thanks.



**Brief Report of the Programme:** A one-day workshop on Android Application Development was organized by the Department of Computer Science on 27/06/2018.

The program started with the prayer song. J. Anto Hepzie Bai, Head & Assistant Professor of Computer Science welcomed the gathering. Inaugural address cum the technical session-I was handled by Mr. G. Ganesh and Mr. M. P. Kausalyan explained Android application development. The Impact of the programme was to develop simple Android applications.





### **Hands-on Training on Mushroom Cultivation - 09. 01.2018**

On 09. 01.2018, Dr. Nagarajan, Assistant Professor, Department of Zoology, and his team from Kamaraj College, Tuticorin addressed the staff and students of Botany Department regarding the cultivation of Oyster mushroom. The team brought the spawn, straw, polypropylene bags and other accessories needed for the start-up. Hand-on training was given to the selected students of UG and PG. During the demonstration, almost all participants became familiarized with the technique.

<p><b>HANDS ON TRAINING</b></p> <p><b>MUSHROOM CULTIVATION</b></p> <p><b>9<sup>th</sup> January 2018</b></p>  <p><b>ORGANIZED BY</b> Department of Botany Holy Cross College (Autonomous), Re-accredited with 'A' Grade (CGPA 3.34) by NAAC Nagercoil, Kanyakumari District, Tamil Nadu</p>	<p><b>Programme</b></p> <p>Registration : 9.00 a.m – 9.30 a.m Inaugural Session: 9.30 a.m –10. 00 a.m Welcome address: Dr.C.Jespin Ida Keynote address : Dr. Sr. Basil Rose, Principal</p> <p><b>Resource Person : Dr. Nagarajan,</b> (Assistant Professor, Department of Zoology, Kamaraj College, Tuticorin) &amp; his Team Members</p> <p><b>Technical Session : 1</b> (10 -11 a.m ) Topic : Introductory note on Mushroom Culture Tea break : 11.00am – 11.15am</p> <p><b>Technical Session : 2</b> (11.15 -12.30 p.m) Topic : Pre - preparation and Sterilization Lunch break : 12.30pm – 1.15am</p> <p><b>Technical Session : 3</b> (1.15 -3 p.m) Topic : Demonstration of Mushroom Culture</p>	<p>Valedictory Address : Dr. Sr. Sophy, Controller of Examinations</p> <p><b>Committee Members</b> Dr. Anami Augustus Arul Dr. A.R. Florence Dr. Priya Mrs. J. Albino wins Mrs. N. Benit Mrs. L. Dyona Ms. A. Angel Sophia</p> <p><b>Registration fee</b> Students : Rs. 150 /- Staff : Rs. 200/- Lunch and refreshment will be provided</p> <p>Organizing Secretanes : Dr.C.Jespin ida : Dr. Sr. Leema Rose Contact Number : 9486412956</p>
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## Report of the National Workshop on "Advances in Research Methodology and Intellectual Property Rights"

A one-day national workshop on "Advances in Research Methodology and Intellectual Property Rights" was organized by the Crossian Research Forum of Holy Cross College (Autonomous), Nagercoil on 17<sup>th</sup> February 2018 in the college premises. The program started with the prayer song. Dr. Arul Flower Mary, Associate Professor of Mathematics welcomed the gathering. Inaugural address cum the technical sessions was handled by three resource persons. They ignited the gathering with their alternative ideas and new research techniques.

In the first technical session, Dr. Malar Mannan, Director Nalanda School of Business Management, Tiruchirapalli, stressed on the idea that all creatures are unique and with their uniqueness, everyone should try to promote innovativeness amidst research. The second technical session was chaired by Dr. Mohan Raj, Associate Professor, Department of Environmental Management, Bharathidasan University. He shared his views about Data Analytics and Visualization. The third technical session was handled by Dr. Arthur James, Associate Professor and Head, Department of Marine Science; Bharathidasan University explained the different research concepts and methods used in research.

The workshop enlightened the research spirit within the educators. The valedictory address was given by Dr. Sr. Basil Rose, the Principal, Holy Cross College (Autonomous), Nagercoil. Two hundred and thirty delegates comprising the Faculty and Research Scholars of our college and from neighbouring colleges were benefitted out of this workshop. Dr. M. Mary Freeda, Associate Professor of Physics, Holy Cross College (Autonomous), Nagercoil proposed the vote of thanks. The seminar program came to an end with the singing of National Anthem.



**Report of The National Seminar on “Health and Environment: Issues and Challenges” Held on 19<sup>th</sup> March, 2018** organised by Department of Economics, Holy Cross College, Nagercoil.

It was a significant and memorable day for the students and staff of the Department of Economics for it hosted this one day National Seminar on “Health and Environment: Issues and Challenges. The total number of participants for this seminar was 164, of which 96 students and 34 staff of our institution and 8 teachers, 3 Scholars and 23 students from six other colleges?

Inaugural session: Dr. S. Prakash, Professor and Head, Department of Microbiology, SAN International College, Arts & Science, Coimbatore, delivered the inaugural address and

he highlighted on Technology and Society, insulin and transplantation, impact of climate changes on environment, effects of overcrowding, pollution on health and environment, and hazards of plastic on health issues. During inauguration, the fourth issue of 'ECONSPECTRUM' and the Department Newsletter 'ECON NEWS' was released by Dr. Sr. Basil Rose, Principal and Dr. Sr. Johncy, the Vice Principal respectively. Dr. Sr. Geradin, the Secretary felicitated the conduct of seminar.

Technical Session-I: Mr. A.M. Arasu, Sunlight Yoga and Natural Health Care, Research Centre, Nagercoil, initially stressed on the need to give priority to our health and well-being which is essential for a happy life. He spoke on waste management and the hazards caused by impendent waste disposal. He highlighted the merits of natural food intake and instructed to avoid fast food. He told about the negative impact of low laid of HB.

Technical Session-II: After lunch break, the afternoon session began at 1.45 p.m. Dr. C.A. Sham Shankar, Assistant Professor, Department of Economics, S.T. Hindu College, Nagercoil, besides his academic pursuits, he is a trained Naturopathy healer and consultant. He demonstrated the different pressure points in our body, the mode of pressing them as per the type of illness. He also spoke on cost benefit analysis of different kinds of medical treatment. He gave information on the medical training courses offered and the prospects for self-employment as healers. After this session, Certificates of participation were distributed by Dr. Sham Shankar. The meeting came to an end with vote of thanks by Dr. Vimal Dolli and the singing of the National Anthem.



## Report of the workshop on "Intellectual Property Rights"

The one day workshop on "Intellectual Property Rights" was conducted at Holy Cross College (Autonomous), Nagercoil on 06<sup>th</sup> April 2018 by the Research Committee (Crossian Research Forum) from 9.30AM to 4.00 PM. The Programme started with a welcome speech by Dr. Helen Stella, Associate Professor, Department of Commerce. Dr. Kanthababu, The Professor of Anna University, in the morning session, discussed the importance of IPRs and their protection, identification of IP, advantages of IP, Patenting procedures and timelines, patentable and non-patentable products, patent informatics, trademark and copyright protection and the issues related in the publishing and patenting of their research findings. In the second session, Dr. Kanthababu gave hands-on-training related to the Intellectual Property Rights procedure of filling the patents to the faculty. The workshop ended with the National Anthem.



### **National Seminar Report (16.02.2018)**

National Seminar on ‘**Recent Advances in Material Science**’ was organized by the department of chemistry, Holy Cross College (Autonomous), Nagercoil on **16.2.2018** in the multipurpose Hall.

The registration started at 9A.M. The inaugural session began at 10 A.M with a prayer song followed by lighting of Kuthuvillaku. Our H.O.D Dr. P. Mary Saroja welcomed the gathering. Our principal Dr. Sr. M. R. Basil Rose in her felicitation address explained the importance of materials in our daily life. She stressed that we should use materials only for constructive purposes. She also appreciated the Department of Chemistry for organizing National Seminar. The inaugural session came to an end with the Vote of thanks by Dr. M. Anitha Malbi.

The first technical session was started at 10.45 am after the tea break. The resource person was introduced by Mrs.A. Alankara Vasanthi. Dr. K.G. Sreeja Lekshmi, Associate Professor from Indian Institute of Space Science and Technology, Thiruvananthapuram gave an inspiring talk on “Heterocyclic Organic Functional Materials”. The talk motivated and quenched the knowledge thirst of our students.

The second technical session was handled by Dr. A. Arline Jose Amali from School of Chemistry, Madurai Kamaraj University. She was introduced by Dr. G. Leema Rose. She spoke on “Nanomaterials in Catalysis”. She related natural phenomenon with science. She also explained the methods of making nanostructures using nanoparticles. Her talk was very informative.

The third technical session started at 2.15 PM after the lunch break. Sr. Francy introduced the resource person to the audience. Dr. V.S Vasantha, Head and Associate Professor of Natural Products Chemistry from School of Chemistry, Madurai Kamaraj

University in her talk about “Nanocomposites for Electrochemical Biosensors” explained the history, basic characteristics, types and importance of biosensors.

Participation certificates were given to all the participants by our Head of the Department, Dr. P. MarySaroja. Mrs. L. Deva Vijila, the Organizing Secretary of the seminar thanked all the participants. The seminar came to an end with National Anthem at 4.15 PM.

