

## PG & RESEARCH DEPARTMENT OF CHEMISTRY

### Association Activities 2022-2023

The PG and Research Department of Chemistry organized a one-day workshop on the topic “Computer Applications in Chemistry” for all the faculty members of chemistry on 24<sup>th</sup> May 2022. The aim of this workshop is to provide hands-on training on various chemistry software. Dr. V. Priya, Assistant Professor of Chemistry welcomed the gathering. Dr. J. Richard Premkumar, Assistant Professor of Chemistry, Bishop Heber College, Trichy provided hands-on training on how to build, save and optimize the geometrical structures using Argus lab. He also explained the calculation of bond angle, bond order, bond length, bond energy, electrostatic potential and single-point energy calculation. All the 21 faculty members actively participated in the workshop and learned to build the structures in Argus lab. Ms. P. Pratheema, Assistant Professor of Chemistry proposed the vote of thanks.

**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
**HOLY CROSS COLLEGE (AUTONOMOUS)**  
Affiliated to Bharathidasan University  
National Accredited (4<sup>th</sup> cycle) with A++ Grade (CGPA 3.75/4) by NAAC  
College with Potential for Excellence  
Tiruchirappalli-620002, Tamil Nadu, India

**Organizes Workshop On**  
**Computer Applications in Chemistry**

**Resource Person**  
**Dr. Richard Prem Kumar, J.**  
Assistant Professor of Chemistry  
Bishop Heber College  
Tiruchirappalli

**Presided By**  
**Rev. (Sr). Dr. A. Christina Bridget**  
Principal  
Holy Cross College  
Tiruchirappalli

**Venue : Room No. 9, Department of Chemistry**  
**Date : 24.05.2022 Time : 9.30 a.m.**

**CONVENER**  
**Dr. A. Leema Rose**  
Associate Professor & Head  
PG & Research Department of Chemistry  
Holy Cross College (Autonomous)  
Tiruchirappalli

**ORGANISERS**  
**Dr. L. Cathrine**  
**Dr. V. Priya**  
**Dr. M. Stella Bharathy**  
**Ms. P. Pratheema**  
Assistant Professors  
PG & Research Department of Chemistry  
Holy Cross College (Autonomous)  
Tiruchirappalli

**All are cordially invited**



The PG and Research Department of Chemistry, Holy Cross College Organized Dr. S. Amala Fathima Rani Endowment Lecture on Environmental Concerns – mitigation employing electrochemical tools on 28th July, 2022. The resource person was Dr. J. Mathiyarasu, Senior Principal Scientist, Electrodes and Electrocatalysis Division, Central Electrochemical Research Institute, Karaikudi. Ms. S. Mahalakshmi (III.B.Sc Chemistry A), Association Secretary welcomed the gathering. The resource person gave insights on various sectors of Central Electrochemical Research Institute and enlightened students on the importance of panchabhoota and their imbalance which may lead to harmful effects in human health. Sir has emphasized on the truth that contamination is inevitable but it can be controlled by monitoring the proper disposal methods with the help of electrochemical sensors. Over all, the session equipped the students to face the world with environmental concern and motivated them with the insight of research in electrochemical sectors. 228 students of I UG, III UG and PG of Chemistry Department greatly benefitted and were motivated by this session. The event ended with a formal vote of thanks

delivered by the association joint secretary Ms.D.Charithra Iswarya of II.M.Sc Chemistry.



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Tiruchirappalli-620002. Tamil Nadu, India

**ORGANIZES**

**Dr. S. Amala Fathima Rani Endowment Lecture on**

**Environmental Concerns –  
Mitigation Employing Electrochemical Tools**



**Resource Person**

**Dr. J. Mathiyarasu**  
Senior Principal Scientist,  
Electrodics & Electrocatalysis Division  
Central Electrochemical Research  
Institute, Karaikudi



**Presided By**

**Rev. (Sr). Dr. A. Christina Bridget**  
Principal  
Holy Cross College  
Tiruchirappalli

**Venue : Sophy Hall**

**Date : 28.07.2022 Time : 2.30 p.m.**

**CONVENER**

**Dr. A. Leema Rose**  
Associate Professor & Head

**ORGANIZERS**

**Dr. L. Cathrine**  
**Dr. V. Priya**  
**Dr. M. Stella Bharathy**  
**Ms. P. Pratheema**  
Assistant Professors

PG & Research Department of Chemistry  
Holy Cross College (Autonomous)  
Tiruchirappalli

**All are cordially invited**



The PG and Research Department of Chemistry, Holy Cross College, organized a meeting on the topic “Career opportunities for chemist in Government sector” on 1st of August 2022 .Ms .S .Mahalakshmi (III.B.Sc Chemistry A) Association Secretary welcomed the gathering.The resource person was Mr.R.Jegan, working as chemical and metallurgical superintendent in Ponmalai, Southern Railways. Mr. Jegan focused on career opportunities for chemistry students in various central government and state government sectors, after completing their undergraduate and postgraduate Degrees. The resource person shared his knowledge on interview skills and how to crack competitive exams. Students actively participated in the question and answer session to know the advantages of central government jobs along with various schemes for women students in government sectors. Nearly 130 students of I UG and I PG chemistry participated and benefitted by this useful session. Over all the session equipped the students to face the competitive world with various Central and State Government Career opportunities. The session ended with a formal vote of thanks delivered by Ms.P.Aparna of III B.Sc.Chemistry A.



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Tiruchirappali-620002. Tamil Nadu, India

*Organizes Seminar on*  
**CAREER OPPORTUNITIES FOR CHEMISTS IN GOVERNMENT SECTORS**

**Resource Person**



**Mr. M. R. Jegan**  
Chemical and Metallurgical  
Superintendent, Southern Railway,  
Ponmalai, Trichy

**Presided By**



**Rev. (Sr). Dr. A. Christina Bridget**  
Principal  
Holy Cross College  
Tiruchirappalli

**CONVENOR**  
**Dr. A. Leema Rose**  
Associate Professor & Head

Venue : Sophy's Hall  
Date : 01.08.2022  
Time: 9.30-11.30 a.m.

**EMPLOYMENT Opportunities**

**ORGANIZERS**  
**Dr. L. Cathrine**  
**Dr. V. Priya**  
**Dr. M. Stella Bharathy**  
**Ms. P. Pratheema**  
Assistant Professors

PG & Research Department of Chemistry  
Holy Cross College (Autonomous)  
Tiruchirappalli

**All are cordially invited**




The PG and Research Department of Chemistry, Holy Cross College organized an Alumna Interaction with Ms.Aarthi on 3<sup>rd</sup> August 2022. The meeting commenced with prayer followed by welcome address by Dr.Philomina Mary , Assistant Professor of Chemistry department .The resource person was Ms.Aarthi ,Alumna

of our college, encouraged our students to utilize all the resources available in our college and motivated the students to express their hidden talents in their college life. The importance of Chemistry driving the entire universe and acting as a connecting unit of all subjects were clearly emphasized by the resource person. The resource person shared her experience of research in chemistry and various entrance exams available for students to join in National universities across India. The students actively interacted with our Alumna, shooting their questions and got eloquent replies. Nearly 146 students of I UG, I PG, II PG of Chemistry participated and got benefitted by this useful session. The session ended with a formal vote of thanks.


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**Organizes an alumna interaction on**  
**RESEARCH OPPORTUNITIES FOR CHEMISTRY STUDENTS IN HIGHER EDUCATION INSTITUTIONS**

**Resource Person**  
  
**Ms. A. Arthi**  
(Alumna of Chemistry Department)  
Research Scholar, Indian Institute of Science Education and Research, Thiruvananthapuram, Kerala

**CONVENER**  
**Dr. A. Leema Rose**  
Associate Professor & Head

**Venue:**  
**Lady's Hall**  
**Date :**  
**03.08.2022**  
**Time : 2.30 - 3.30 p.m.**

**Presided By**  
  
**Rev. (Sr). Dr. A. Christina Bridget**  
Principal, Holy Cross College, Tiruchirappalli

**ORGANIZERS**  
**Dr. L. Cathrine**  
**Dr. V. Priya**  
**Dr. M. Stella Bharathy**  
**Ms. P. Pratheema**  
Assistant Professors

**All are cordially invited**



The PG and Research Department of Chemistry, Holy Cross College organized an awareness programme on Safe handling of LPG, on 5<sup>th</sup> August 2022. The resource person taught the students about LPG fuels, their forms of existence, types and storage. Awareness on precautions of LPG usage, their warranty, frequent maintenance of cylinder, regulator and rubber tubes were emphasized. He also demonstrated the precautions to be taken during gas leakage from cylinder. The resource person conducted a quiz for students to test their knowledge about LPG handling and awarded prizes for the first 3 winners who scored the best. The students actively participated in this session and learnt many new details about LPG. 53 students of III UG Chemistry participated and got benefitted by this useful session.



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 Tiruchirappalli-620002, Tamil Nadu, India

Organizes

**AN AWARENESS PROGRAMME ON SAFE HANDLING OF LPG**

**Resource Person**  
  
**Captain R.S. Jegadeesan**  
 Indane Rockfort Gas Agency, Trichy

**Presided By**  
  
**Rev. (Sr). Dr. A. Christina Bridget**  
 Principal, Holy Cross College, Tiruchirappalli

**CONVENER**  
**Dr. A. Leema Rose**  
 Associate Professor & Head

Venue : Room No. 9  
 Date : 05.08.2022  
 Time : 2.30-3.30 p.m

**ORGANIZERS**  
**Dr. L. Cathrine**  
**Dr. V. Priya**  
**Dr. M. Stella Bharathy**  
**Ms. P. Pratheema**  
 Assistant Professors

**All are cordially invited**







The PG and Research Department of Chemistry, Holy Cross College inaugurated the activities for the Centenary year 2022-2023 on 12th of August 2022. Dr. S. Isaiah, Associate Professor of Chemistry, Bishop Heber College, Trichy was the chief guest. The meeting commenced with a prayer followed by the welcome address by Ms. S. Mahalakshmi (III. B.Sc. Chemistry A) Association secretary. Ms. Shubicshaa shree (II B.Sc. Chemistry B), Assistant Secretary of the chemistry association read the minutes of previous meetings. This was followed by revealing the chemistry association name by Dr. A. Leema Rose, Head and Associate Professor of Chemistry in commemoration of the centenary year. This name was selected among the best names suggested by our department students in a competition which was conducted specially for naming the association. Our association was newly named '**Lavoisier's Chem Association**'. The student who suggested this name was awarded a prize by the chief guest. The Resource person spoke on the topic 'Food Adulteration and Safety' which is a much essential topic to be discussed among the upcoming generation. The resource person emphasized the truth that we must eat to live and not live to eat. He explained about the artificial sweetening agent, fruit ripening, and synthetic colorants like Metanil yellow, and Malachite green added to fruits and vegetables to enrich the colour effect which contains various carcinogens that lead to cancer and many chronic illnesses. Awareness was also created among students about how to find these adulterants in food by simple techniques. The nutrients present in food and the importance of women's health were discussed. Nearly 110 students of III UG, I PG and II PG of the chemistry department actively participated and got benefitted from this wonderful session on food safety. The session ended with a formal vote of thanks delivered by Ms. D. Charithra Iswarya, joint secretary of Chemistry Association.





**CHEMISTRY ASSOCIATION**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
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**Invites you to the**  
**INAUGURATION**  
 of the Activities for the Academic year 2022-2023

**FOOD ADULTERATION AND SAFETY**

**Resource Person**



**Dr. S. Isaiah**  
 Associate Professor of Chemistry  
 Bishop Heber College  
 Tiruchirappalli

**Presided By**



**Rev. (Sr). Dr. A. Christina  
 Bridget**  
 Principal, Holy Cross College  
 Tiruchirappalli

Venue: Shanthi's Hall  
 Date : 12.08.2022  
 Time: 2.30pm - 3.30pm

**CONVENER**  
**Dr. A. Leema Rose**  
 Associate Professor & Head

**ORGANIZERS**  
**Dr. L. Cathrine**  
**Dr. V. Priya**  
**Dr. M. Stella Bharathy**  
**Dr. P. Pratheema**  
 Assistant Professors

**All are cordially invited**



The PG and Research Department of Chemistry organized the meeting on the topic “Forging the path to Entrepreneurship” on 17<sup>th</sup> Aug 2022. The Resource person invited for the talk was Ms. A. Jasmin Banu, Assistant Professor of Physics, Holy Cross College, Trichy. The meeting commenced with a prayer followed by the welcome address given by Ms. S. R. Shubicshaa Shree, Assistant Secretary of chemistry association (II UG Chemistry B). The aim of the meeting is to provide ideas on various ways of entrepreneurship. The Resource person provided information on how to become an entrepreneur and also discussed the different types of entrepreneurship along with various real-life examples. She motivated the students by stating 5 simple steps to succeed in business. All the students actively participated and 52 of II UG Chemistry greatly benefitted from this session. The session got over with the formal vote of thanks delivered by Ms. M.S.Sivaranjani of II UG Chemistry B.



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PG & RESEARCH DEPARTMENT OF CHEMISTRY

LAVOISIER CHEM ASSOCIATION



**Organizes  
Session On**

### **Forging the path to Entrepreneurship**

**Presided By**

**Rev. (Sr). Dr. A. Christina Bridget**

**Principal**

**Holy Cross College**

**Tiruchirappalli**



**Resource Person**

**Ms. A. Jasmin Banu**

**Assistant Professor of Physics**

**Holy Cross College**

**Tiruchirappalli**

**Venue : Room No. 52, Department of Chemistry**

**Date : 17.08.2022 Time : 2.30 p.m.**

**CONVENER**

**Dr. A. Leema Rose**

**Associate Professor &**

**Head**

**ORGANISERS**

**Dr. L. Cathrine**

**Dr. V. Priya**

**Dr. M. Stella Bharathy**

**Dr. P. Pratheema**

**Assistant Professors**

**All are cordially invited**





A two-day International Conference on the theme, “**Materials Science for Sustainable Environment**” (ICMSSE-2022) was organized by the *PG and Research Department of Chemistry, Holy Cross College (Autonomous), Trichy* in commemoration with the centennial year of the college on 23<sup>rd</sup> and 24<sup>th</sup> August 2022. The objective of the conference is to provide a platform for researchers, chemists and academicians from all over the world to present their research findings and development activities in their field of research which would facilitate the exchange of new ideas, applications and experiences leading to collaboration among global partners. This conference would definitely offer suitable solutions to the global environmental issues.

**Dr. J. Daniel Chellappa**, Eminent Nuclear Scientist, Chennai delivered the inaugural address and released the Conference Proceedings. **Dr. Gnana kumar**, Head in-charge and Assistant Professor, Department of Physical Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai delivered the keynote address.

The inauguration was followed by three technical sessions. **Dr. S. Subashchandrabose**, Scientist, Department of Physics & Astronomy “Galileo Galilei” University of Padova, Italy delivered his talk on the topic, “*Tunable van der Waals interactions in low dimensional nanostructures*”. **Dr. Basker Sundararaju**, Associate Professor of Chemistry, Indian Institute of Technology, Kanpur presented a talk on the topic, “*Sustainable Catalysis: Challenges and Opportunities*”. **Dr. P. Parthiban**, Komar University of Science and Technology, Iraq elaborated on “*Graphitic Carbon Nitride: Synthesis, Characterization and Applications*”.

The second day comprised of four technical sessions. Our proud alumna **Dr. Sri Ranjini Arumugam**, Head, IPR Management, XEEDQ GmbH, Leipzig, Germany delivered a talk on the topic, “*Energy efficient Diamond based Quantum Sensors*”. **Dr. Sabu Thomas**,

Scientist F and Principal Investigator, Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala gave a detailed account on, “*Antimicrobial Resistance: Impact of Superbugs*”. Professor **V.V. Sureshbabu**, Department of Chemistry, Bangalore University discussed about the, “*Selenoxopeptides and Seleno ureidopeptidemimetics*”. **Dr. A. Bakrudeen Ali Ahmed**, Professor, Faculty of Applied Sciences, Ton Duc Thang University, Vietnam, explained the “*Trends on secondary metabolites production to the pharmaceutical industry*”.

The valedictory address was delivered by **Dr. S. Thennarasu**, Chief Scientist and Head, Central Leather Research Institute (CLRI), Chennai on the topic “*Environmental Sustainability: Chemistry Perspective*”.

Nearly 170 participants registered for the conference from all over the globe. The editorial committee has selected about 124 abstracts and incorporated them in the conference proceedings with ISBN. The views expressed and explored on this platform by the resource persons and paper presenters made the participants rethink ideas which we cling on to unthinkingly in our day to day life.





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### **SCHOOL OF PHYSICAL SCIENCES THE PG & RESEARCH DEPARTMENT OF CHEMISTRY**

*Invites you for the*  
*International Conference*  
*on*  
**“Materials Science for  
Sustainable Environment”**

**(ICMSSE - 2022)**

*in commemoration of the  
centennial year of the college*

**Date: 23<sup>rd</sup> and 24<sup>th</sup> August, 2022**

**Venue : Our Lady's Hall**

**23<sup>rd</sup> August, 2022**

10.00 am – 11.00 am

Inauguration

Prayer

Lighting the lamp

Welcome Address

**Dr. A. Leema Rose**

Convener ICMSSE - 2022

Head and Associate Professor

PG and Research Department of Chemistry

Holy Cross College (Autonomous), Trichy

Inaugural Address

**Dr. J. Daniel Chellappa**

Eminent Nuclear Scientist, Chennai



Conference Highlights

**Dr. V. Priya**

Organizing Secretary ICMSSE - 2022

Assistant Professor

PG and Research Department of Chemistry

Holy Cross College (Autonomous), Trichy

Releasing the Souvenir

Keynote Address

**Dr. G. Gnana kumar**

Convener ICMSSE - 2022

Head in-charge & Assistant Professor

Department of Physical Chemistry

School of Chemistry, Madurai Kamaraj University

Madurai, Tamil Nadu, India



Felicitations

**Rev. Sr. Dr. Anne Xavier**

Secretary, Holy Cross College (Autonomous), Trichy

**Rev. Sr. Dr. Christina Bridget, A.**

Principal, Holy Cross College (Autonomous), Trichy

Vote of Thanks

**Dr. L. Cathrine**

Organizing Secretary ICMSSE - 2022

Assistant Professor, PG and Research Department of Chemistry

Holy Cross College (Autonomous), Trichy

**Technical Session - I**

11.30 am – 12.30 pm

**Invited Talk – I**

**Tunable van der Waals interactions in**

**low dimensional nanostructures**

**Dr. S. Subashchandrabose**

Scientist, Department of Physics & Astronomy

"Galileo Galilei" University of Padova, Italy



12.30 pm – 1.30 pm

Lunch Break



**Technical Session - II**

1.30 pm – 2.30 pm

**Invited Talk – II**

**Sustainable Catalysis: Challenges and Opportunities**

**Dr. Basker Sundararaju**

Associate Professor  
Department of Chemistry  
Indian Institute of Technology Kanpur  
Uttar Pradesh, India



**Technical Session - III**

2.30 pm – 3.30 pm

**Invited Talk – III**

**Graphitic Carbon Nitride: Synthesis, Characterization and Applications**

**Dr. P. Parthiban**

Professor of Chemistry  
Department of Pharmacy  
Kumar University of Science and Technology  
Sulaimaniyah, Kurdistan Region, Iraq



3.45 pm to 5.00 pm

ORAL & POSTER PRESENTATION

**24<sup>th</sup> August 2022**

**Technical Session-IV**

10.00 am – 11.00 am

**Invited Talk – IV**

**Energy Efficient Diamond based Quantum Sensors**

**Dr. Sri Ranjini Arumugam**

Head, IPR Management  
XEEDQ GmbH, Leipzig, Germany



**Technical Session - V**

11.15 am – 12.15 pm

**Invited Talk –V**

**Antimicrobial Resistance: Impact of Superbugs**

**Dr. Sabu Thomas**

Scientist F and Principal Investigator  
Rajiv Gandhi Centre for Biotechnology  
Trivandrum, Kerala, India



12.15 pm – 1.30 pm

Lunch Break

### Technical Session - VI

1.30 pm – 2.30 pm

#### Invited Talk –VI

**Selenoxopeptides and selenoureidopeptidomimetics**

#### **Dr. V.V. Sureshababu**

Professor, Department of Chemistry  
Central College Campus  
Bangalore University, Bangalore



### Technical Session - VII

2.30 pm – 3.30 pm

#### Invited Talk – VII

**Trends on Secondary Metabolites Production  
to the Pharmaceutical Industry**

#### **Dr. Bakrudeen Ali Ahmed A**

Professor, Faculty of Applied Sciences  
Ton Duc Thang University  
Ho Chi Minh City, Vietnam



### VALEDICTION

4.00 pm to 5.00 pm

Prayer

Welcome Address

#### **Dr. J. Rosaline Vimala**

Assistant Professor  
PG and Research Department of Chemistry  
Holy Cross College (Autonomous), Trichy

Chief-Guest Address

#### **Dr. S. Thennarasu**

Chief Scientist and Head  
Central Leather Research Institute (CLRI)  
Chennai, Tamil Nadu, India.



Presentation of Report

#### **Dr. M. Stella Bharathy**

Organizing Secretary ICMSSSE - 2022  
Assistant Professor  
PG and Research Department of Chemistry  
Holy Cross College (Autonomous), Trichy

Feed back

Distribution of Certificates

Vote of Thanks

#### **Dr. P. Pratheema**



Organizing Secretary ICMSSSE - 2022  
Assistant Professor  
PG and Research Department of Chemistry  
Holy Cross College (Autonomous), Trichy



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College, organized a session on the topic “Advanced Organic Synthesis in Real life Applications” on the 7th of September 2022. Ms. S. Mahalakshmi (III. B.Sc. Chemistry A) Association Secretary, welcomed the gathering. The resource person was Dr. Ramesh Rasappan, Assistant Professor, School of Chemistry, Indian Institute of Science Education and Research, Thiruvananthapuram. Dr. Ramesh Rasappan elaborated on the organic synthesis and cross-coupling reactions, which in turn created interest among the students to learn more in the field of organic chemistry. He emphasized the cross-coupling reactions like Sonogashira, Negishi, Heck, etc. He also explained the chemistry behind onions, a method of synthesis of the compound of sulphoxides present in them, different aromatic flavours present in fruits and methods to synthesize them in labs. He gave an insight about R-carvone and L-carvone which are the isomers present in the mint and jeera respectively responsible for the refreshing aroma. Nearly 100 students of III UG, I and II PG of chemistry participated and benefitted from this useful session. Overall, the session equipped the students to face the world of challenges with plans for higher education. The session ended

with a formal vote of thanks delivered by Ms. D Charithra Ishwarya, Association Joint Secretary (II M.Sc. Chemistry).

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**SCHOOL OF PHYSICAL SCIENCES  
PG & RESEARCH DEPARTMENT OF CHEMISTRY  
LAVOISIER CHEM ASSOCIATION**

**Organizes a session on**  
*Advanced Organic synthesis in Real Life Applications*

**Date: September 07<sup>th</sup> 2022 Time: 2.00-4.00 p.m.  
Venue: Room No. 9**

**Presided By**  
**Rev. (Sr). Dr. A. Christina Bridget**  
Principal, Holy Cross College , Tiruchirappalli



**Resource Person**  
**Dr. Ramesh Rasappan**  
Assistant Professor  
School of Chemistry  
Indian Institute of Science Education  
and Research, Thiruvananthapuram

**CONVENER**  
**Dr. A. Leema Rose**  
Associate Professor & Head

**ORGANIZERS**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College, organized an awareness session on the topic “Human heart -An important organ for sustaining life” on the 28th of September 2022. Ms. Maria Raveena (III. B.Sc. Chemistry B) Student council member, welcomed the gathering. Dr. Senthilkumar Nallusamy started the session with the awareness of the importance of organ donation. He emphasized that everyone should take care of their heart. He also explained the importance of exercise and diet in daily routine in heart care. The functions of the heart and the various heart diseases were also explained by him in a vivid manner. He also elaborated on the procedure of angiogram with a video. He also described that a stent is a small, metal mesh tube that expands inside a coronary artery. A stent is placed during or immediately after angioplasty. It helps prevent the artery from closing up again. A drug-eluting stent has medicine embedded in it that helps prevent the artery from closing in the long term. Nearly 125 students of III UG, I and II PG of chemistry participated and benefitted from this useful session. Overall, the session created awareness on the importance of the heart in the proper functioning of the human body, among the student community. The session ended with the formal vote of thanks delivered by Ms. S. Palika, (II M.Sc. Chemistry).



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**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
**LAVOISIER CHEM ASSOCIATION**

Organizes a session on  
*Human Heart -  
An important organ for sustaining life*

**Presided By**  
**Rev. (Sr). Dr. A. Christina Bridget**  
Principal, Holy Cross College, Tiruchirappalli

**Resource Person**  
**Dr. Senthilkumar Nallusamy**  
MD, DNB(Med), DNB(Cardio)  
FACC(USA), FSCAI(USA)  
Chief Interventional Cardiologist  
Cardiologist, Rana Hospital  
Tiruchirappalli



**CONVENER**  
**Dr. A. Leema Rose**  
Associate Professor & Head

**ORGANIZERS**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors

**Date: 28.09.2022**  
**Time: 10.30-11.30 am**  
**Venue: Sophy's Hall**



The PG and Research Department of Chemistry organized a workshop on the topic “**BIG IDEA - CREATING THE POWERHOUSE OF INNOVATION**” on 19th October 2022. The resource persons were Dr. D. Sugumar, Principal, Care College of Arts and Science, Trichy and Mr. I. Francis Rebello, Assistant Professor, Marketing and System, Care Business School, Trichy. The meeting commenced with a prayer followed by the welcome address delivered by Ms. S. Mahalakshmi, Secretary of Lavoisier Chem Association (III UG Chemistry A). The aim of the workshop is to provide insights into various entrepreneurship sectors and make students generate their own ideas. Dr. D. Sugumar provided information on how to become an entrepreneur and also discussed innovative and thought-provoking ideas along with various real-life examples. Sir motivated the students by stating “A Strong woman can achieve anything”. Sir emphasized the need for various Start-ups and their impact on our Country’s GDP. In order to inculcate innovative ideas in students’ minds Mr. I. Francis Rebello divided the students into groups and asked them to list out the problems they face in daily life. From the problem stated, students were asked to bring about a solution and encouraged to bring up an innovative product. From the 10 Groups, 10 innovative products were brought up as an outcome. Students presented their ideas and experts gave suggestions to upgrade their product. All the students actively participated and nearly 85 of II UG Chemistry greatly benefitted from this session. The session got over with a formal vote of thanks delivered by Ms. S. R. Shubicshaa Shree, Assistant Secretary of Lavoisier Chem Association (II UG Chemistry B).

**HOLY CROSS COLLEGE (AUTONOMOUS)**  
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College with Potential for Excellence  
Tiruchirappalli-620002, Tamil Nadu, India

**SCHOOL OF PHYSICAL SCIENCES  
PG & RESEARCH DEPARTMENT OF CHEMISTRY  
LAVOISIER CHEM ASSOCIATION**  
Organizes a workshop on

**BIG IDEA  
CREATING THE POWERHOUSE OF INNOVATION**

**Presided By:** Rev. (Sr). Dr. A. Christina Bridget  
Principal, Holy Cross College, Tiruchirappalli

**Resource Persons:**  
**Dr. D. Sugumar**  
Principal  
Care College of Arts and Science, Trichy

**Mr. I. Francis Rebello**  
Assistant Professor  
Marketing & Systems  
Care Business School, Trichy

**Date - 19.10.2022**  
**Venue - Sophy's Hall**  
**Timing - 1.00pm to 4.00pm**

**CONVENER**  
**Dr. A. Leema Rose**  
Associate Professor & Head

**ORGANIZERS**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors

*All are cordially invited*





The PG and Research Department of Chemistry organized a session on the topic “**Conflict Management**” on 4<sup>th</sup> November 2022. The Resource person invited was Dr. Sr. Catherine, Sister in charge of Counselling Centre and Assistant Professor, Department of Psychology, Holy Cross College, Trichy. The meeting commenced with prayer followed by welcome address delivered by Ms. S. Palika of II M.Sc. Chemistry. The aim of the meeting is to provide insights on the methods of resolving the internal conflicts. Dr. Sr. Catherine explained the importance of positive thoughts and their impact in our life. She also insisted that, our brain receives and believes whatever we think. Internal conflicts can be resolved by changing our thoughts by performing meditation regularly. All the students actively participated and nearly 60 students of I & II PG Chemistry greatly benefitted by this session. The session came to an end by a formal vote of thanks proposed by Ms. D. Charithra Ishwarya, Joint Secretary of Lavoisier’s Chem Association (II M.Sc. Chemistry).

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**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
**LAVOISIER CHEM ASSOCIATION**  
 Organizes a session on

**Conflict Management**

**PRESIDED BY**  
**Rev. (Sr). Dr. A. Christina Bridget**  
**Principal, Holy Cross College**  
**Tiruchirappalli**



**RESOURCE PERSON**  
**Dr. Sr. Catherine**  
 Sister incharge of Counselling Centre  
 Assistant Professor  
 Department of Psychology  
 Holy Cross College  
 Tiruchirappalli

**CONVENER**  
**Dr. A. Leema Rose**  
 Associate Professor & Head

**ORGANIZERS**  
**Dr. L. Cathrine**  
**Dr. V. Priya**  
**Dr. M. Stella Bharathy**  
**Dr. P. Pratheema**  
 Assistant Professors

*All are cordially invited*

**Date - 04.11.2022**  
**Timing - 1.30pm to 2.30pm**  
**Venue- Sophy's Hall**



The PG and Research department of chemistry organized a one-day workshop on the topic “Enhancing Digital Skills for Techno-Pedagogy Driven Smart TLE” for the faculty members of chemistry on 09th November 2022 in room no. 9. The aim of this workshop is to provide hands-on training on various tools available for TLE. Dr. L. Cathrine, Assistant Professor of Chemistry welcomed the gathering. Dr. A. Vimal Jerald, Assistant Professor of Chemistry, St. Joseph’s College, Trichy provided hands-on training on the nuances of zoom with various useful websites like pixabay, remove.bg etc. He also clearly demonstrated the creation of e-content in the zoom platform. The different applications of google lens were also elaborated by him. Twenty faculty members of the chemistry department actively participated in the workshop and felt technologically enriched after the session. Dr. V. Priya, Assistant Professor of Chemistry, proposed the vote of thanks.

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**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**

**LAVOISIER CHEM ASSOCIATION**  
Organizes a workshop for chemistry faculty on

**Enhancing Digital Skills for  
Techno-pedagogy driven Smart TLE**

**Presided By**  
**Rev. (Sr). Dr. A. Christina Bridget**  
Principal, Holy Cross College  
Tiruchirappalli

**Resource Person**



**Dr. A. Vimal Jerald**  
Assistant Professor  
Department of Computer Science  
St. Joseph's College  
Tiruchirappalli

**Date - 09.11.2022**  
**Timing – 9.30am to 12.30pm**  
**Venue – Room No. 9**

**CONVENER**  
**Dr. A. Leema Rose**  
Associate Professor & Head

**ORGANIZERS**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors

*All are cordially invited*



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College, organized an Intra-departmental paper presentation competition on 'Energy conservation' in commemoration of National Energy Conservation Day on 15th of December, 2022. Ms. S. Mahalakshmi (III.B..Sc. Chemistry A) Association Secretary, welcomed the gathering. Ms. S. R. Shubicshaa Shree, Assistant Secretary (II.B..Sc. Chemistry B) read the minutes of the previous meeting. Every year, National Energy Conservation Day is observed in India on December 14. On this day in 2001, the Energy Conservation Act was executed by the Bureau of Energy Efficiency (BEE) and since then this day has been celebrated to raise awareness on limiting energy loss. The purpose of this competition is to showcase the achievements of the nation in energy efficiency and conservation. The students presented papers on the topic 'Energy conservation', mainly about energy conversion, energy storage, nanotechnology in the field of energy

conservation, etc. Totally 26 papers were presented in two different tracks parallelly and Dr. A. Simi and Dr. A. Inigorita Mary were the judges. Both the judges appreciated the efforts taken by the students. Nearly 56 students of I and II PG chemistry got greatly benefited from this useful session. The session created awareness among the students and motivated the students to go into the research field for Energy Conservation. The session ended with a formal vote of thanks delivered by Ms. D. Charithra Ishwarya, Association Joint Secretary (II M.Sc. Chemistry).



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**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
**LAVOISIER CHEM ASSOCIATION**

*Organizing an*  
*Intra-departmental paper presentation*  
*Competition on*  
**“ENERGY CONSERVATION”**  
**in commemoration of**  
**National Energy Conservation Day**

On 15<sup>th</sup> December 2022  
Time: 10.30 a.m. to 11.30 a.m.  
Venue: Room No. 9 & 24

**Presided by**  
**Chief Guests**

**Rev. (Sr). Dr. A. Christina Bridget**  
Principal, Holy Cross College, Tiruchirappalli

**Dr. A. Simi**  
Assistant Professor of Chemistry,  
St. Joseph's College, Tiruchirappalli

**Dr. A. Inigomary Rita**  
Assistant Professor of Physics & Dean,  
School of Physical Sciences, Holy Cross College,  
Tiruchirappalli

**CONVENER**  
Dr. A. Leema Rose  
Associate Professor & Head  
Department of Chemistry  
Holy Cross College  
Tiruchirappalli

**ORGANIZERS**  
Dr. L. Cathrine, Dr. V. Priya,  
Dr. M. Stella Bharathy, Dr. P. Pratheema  
Department of Chemistry  
Holy Cross College  
Tiruchirappalli





The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College and Holy Cross Incubation & Innovation Council jointly organized an Intra-departmental ideation competition on 12th January 2023.

Ms. Devsri of II B.Sc. Chemistry welcomed the gathering. Ms. S. Mahalakshmi (III. B.Sc. Chemistry A) Association Secretary of Lavoisier Chem Association, read the minutes of the previous meeting. This Ideation competition was conducted in Room No. 9 with 11 teams of I & II UG chemistry students. The Students picked up the lot and proceeded to the presentation. Students of our department came up with many innovative ideas and products that can benefit society as a whole. Innovation is the reflection of change and solution in respect of many problems in Life. Innovations by any means are basically the solutions to our daily life problems. No matter how big or small, innovation always has the potential to make a positive impact on our lives. It can help us to solve problems, improve our efficiency, and make us more productive. At the end of this Ideation competition, Dr. L. Cresenta Shakila Motha appreciated the efforts of the students and gave suggestions to improve their ideas into products. The best three ideas were awarded. This competition created awareness among the students about Ideation, Innovation, Entrepreneurship and start-ups.

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**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
and  
**HOLY CROSS INNOVATION AND INCUBATION COUNCIL (HCIC)**

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education Initiated)

Organizing an  
*Intra-departmental Ideation Competition*  
**YOUTH IDEATHON-2023**  
in commemoration of National Youth Day

On 12<sup>th</sup> January 2023 | Venue: Room No.9 | Time : 1.30 p.m. - 3.30 p.m.

**Presided by**  
Rev. (Sr). Dr. A. Christina Bridget  
Principal, Holy Cross College

**Chief Guest**  
Dr. L. Cresenta Shakila Motha  
Assistant Professor  
PG and Research Department of Rehabilitation Science  
Holy Cross College

**CONVENER**  
Dr. A. Leema Rose  
Associate Professor & Head

**ORGANIZERS**

Dr. L. Cathrine  
Dr. V. Priya,  
Dr. M. Stella Bharathy  
Dr. P. Pratheema

Dr. J. Amala Infant Joice  
IIC – Innovation Ambassador  
Dr. S. Vidhya  
IIC - Staff In charge

Department of Chemistry,  
Holy Cross College, Tiruchirappalli





The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College, organized a meeting on the topic “Global Opportunities – Higher Education and Research” on the 20th of January 2023. Ms. S. Mahalakshmi (III. B.Sc. Chemistry A) Association Secretary welcomed the gathering. The resource person was Dr. Vijayshankar Asokan, Electron Microscopy Laboratory, Karlsruhe Institute of Germany and the Managing Director of Mullai Academia International Pvt. Ltd. Dr. Vijayshankar clearly elaborated the opportunities that are available for UG and PG students who are willing to do their higher education abroad. The resource person motivated the students to do their higher education with a stipend and elaborated on the higher education opportunities available in various European countries with different scholarships opened for Indian students. Sir also highlighted the deadlines for different applications and fascinated students with many International internships which are fully funded by Universities. He also explained the main motive and goal of Mullai Academia International which starts with one-on-one counseling to find universities, Countries to empower students with global education. Mullai Academia develops exclusive individuality, unique talent and self-reliance of each student and empowers them to take on the world with the professional skills and confidence to ensure success. They have a highly experienced team who have gained higher education and are working globally to empower the students. Nearly 100 students of III UG, I and II PG of chemistry participated and benefitted from this useful session. Over all the session equipped the students to face the world of challenges with plans for higher education. The session ended with the formal vote of thanks delivered by Ms. Deby Gladis Sharon (III B.Sc. Chemistry A).





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### **SCHOOL OF PHYSICAL SCIENCES PG & RESEARCH DEPARTMENT OF CHEMISTRY**

**Organizes a seminar on**

## **Global Opportunities - Higher Education and Research**

on 20<sup>th</sup> January 2023 from 10.30 a.m. to 12.30 p.m.

Venue: Our Lady's Hall

*Presided by*

**Rev. (Sr). Dr. A. Christina Bridget**  
Principal, Holy Cross College, Tiruchirappalli



**Dr. Vijayshankar Ashokan**  
Managing Director,  
Mullai Academia International Pvt. Ltd.

*Convener*

**Dr. A. Leema Rose, Associate Professor & Head**

*Organizers*

**Dr. L. Cathrine, Dr. V. Priya**

**Dr. M. Stella Bharathy, Dr. P. Pratheema**

**Assistant Professors, Department of Chemistry**

The PG and Research Department of Chemistry, Holy Cross College, in commemoration of the centennial year of the college has organized a national level Inter-Collegiate Competition - CHEM-FEST '23 on 31<sup>st</sup> January 2023 based on the theme "ROLE OF CHEMISTRY IN HEALTH AND ENVIRONMENT". Chemistry in health and the environment are inseparable. Chemistry helps us to understand, monitor, protect and improve the environment around us. A Chemist occupies a vital space in the healthcare industry's need for medicinal chemistry. They involve in researching, developing, and testing various medical procedures and tools to monitor and detect diseases. The event commenced with the prayer service followed by the welcome address delivered by Dr. A. Leema Rose, Head and Associate Professor of Chemistry, Holy Cross College (Autonomous), Trichy. The inaugural address was delivered by Dr. G. Chandramohan, Former Principal, of Srivenkateshwara College of Arts and Science, Peravurani. He insisted on the importance of Chemistry in day to day life. He also gave an idea about the integrated Ph.D. program. Sir also acted as the quiz master for the Chem Quiz competition. The various events conducted are Chem Quiz, Chem photography, Dumb Charades, Extempore, Ads Up, Poster presentation, Chem Tunes, Chem Rangoli, Chem Connection and Chem Cartooning. Thirteen colleges from in and around Trichy registered and participated in the inter-collegiate fest. About 200 students actively participated in different events. All the events were based on the theme of chemistry in health and the environment. The overall winner trophy was bagged by St. Joseph's College, Trichy and National College, Trichy bagged the runner up trophy. The response received from various colleges and the feedback of the participants was positive which is a great boost to the institution. The program ended with the vote of thanks proposed Dr. L. Cathrine, Assistant Professor of Chemistry, Holy Cross College, Trichy. Overall, the event was a grand success and a good exposure for all the teams that participated.

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**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
 Organizes a

*National Level Inter-Collegiate Competition*  
 in commemoration of the centennial year of the college

**Chem Fest '23**

**Date:** 31.01.2023  
**Venue:** Sophy's Hall  
**Timing:** 9.00 a.m. to 5.00 p.m.

**Presided by** **Rev. (Sr). Dr. A. Christina Bridget**  
 Principal, Holy Cross College, Tiruchirappalli

**Chief guest** **Dr. G. Chandramohan**  
 Principal (Rtd.)  
 Srivenkateshwara College of Arts and Science, Peravurani

**Convener**  
**Dr. A. Leema Rose**  
 Associate Professor & Head

**Organizers**  
 Dr. L. Cathrine, Dr. V. Priya  
 Dr. M. Stella Bharathy, Dr. P. Pratheema  
 and Faculty Members

# Chem Fest '23

## PROGRAMME SCHEDULE

**DATE: 31.01.2023**

**TIME: 9:00AM. TO 5.00 PM.**

9.00 AM. TO 09.30 AM.	-	REGISTRATION
09.30 AM. TO 09.45 AM.	-	PRAYER
09.45 AM. TO 10.00 AM.	-	INAUGURATION
10.00AM. TO 11.00 AM.	-	<u>CHEM QUIZ &amp; CHEM PHOTOGRAPHY</u>
11.00 AM. TO 11.15 AM	-	TEA BREAK
11.15 AM. TO 12.15 PM.	-	<u>DUMB CHARADES &amp; EXTEMPORE</u>
12.15 PM TO 1.15 PM	-	LUNCH
1.15 PM. TO 2.15 PM.	-	<u>ADS UP &amp; POSTER PRESENTATION</u>
2.15 PM. TO 3.15 PM.	-	<u>CHEM TUNES &amp; CHEM RANGOLI</u>
3.15 PM. TO 4.15 PM	-	<u>CHEM CONNEXION &amp; CHEM CARTOONING</u>
04.15 PM TO 04.30 PM	-	TEA BREAK
04.30 PM. TO 5.00 PM.	-	VALEDICTION





The PG and Research Department of Chemistry, Holy Cross College (Autonomous) Trichy, organized the International Scientist Meet on 11<sup>th</sup> February, 2023. The purpose of the International Scientists Meet – 2023 is to equip the students with the scientific resources, so that they are able to shape up their academic career in the best possible way. The Department has a strong vision to impart knowledge and to maintain high academic standard through creative teaching, learning, research and extension for holistic development. The UG and PG students from the department of Chemistry participated in the meet. Rev. Sr. (Dr.) Anne Xavier, Secretary, Holy Cross College offered felicitation. Dr. M. Stella Bharathy, Assistant Professor, Department of Chemistry, Holy Cross College welcomed the gathering. Dr. Ulrich Pfeffer, Head of the functional Genomics Lab, San Martino Hospital, National Cancer Research Institute (IST), Genoa, Italy a renowned scientist, delivered a talk on “CRISPR - Cas9 (Clustered regularly interspaced short palindromic repeats/CRISPR-associated nuclease9) gene editing for the generation of tumor models”. He emphasized that, (CRISPR)-Cas9 system, a powerful genome-editing tool for efficient and precise genome engineering in cultured mammalian cells and animals, is transforming mouse-model generation. He also explained his experience in cancer chemoprevention with particular attention to plant polyphenols. The idea behind these studies is to generate a match between cancer (or the metastasis) to be prevented, the genetic background of the patient and the molecular mechanisms of the compounds proposed for chemoprevention. This international scientist meet was attended by faculty members, research scholars, undergraduate and postgraduate students from the department of Chemistry. This international scientist meeting benefited and motivated nearly 260 students. The main goal of this meet is to enhance the young mind to take up research in future. Finally, the vote of thanks was proposed by Dr. L. Cathrine, Assistant Professor of Chemistry, Holy Cross College, Trichy.





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**SCHOOL OF PHYSICAL SCIENCES**

**PG & RESEARCH DEPARTMENT OF CHEMISTRY**

**Organizes an**

**International Scientist Meet**

On 11<sup>th</sup> February 2023 at 2.00 p.m.  
Venue: Our Lady's Hall

## Prayer

**Welcome Address**  
Dr. M. Stella Bharathy  
Assistant Professor of Chemistry



**Felicitation**  
Rev. (Sr). Dr. Anne Xavier  
Secretary  
Holy Cross College, Tiruchirappalli

**Presided By**  
Rev. (Sr). Dr. A. Christina Bridget  
Principal,  
Holy Cross College, Tiruchirappalli



**Resource Person**  
Dr. Ulrich Pfeffer  
Head of the Functional Genomics lab  
San Martino Hospital  
National Institute for Cancer Research  
Genoa, Italy



**Topic: CRISPR - Cas9 gene editing for the generation of tumor models**

**Vote of Thanks**  
Dr. L. Cathrine  
Assistant Professor of Chemistry

**Convener**  
Dr. A. Leema Rose  
Head & Associate Professor of  
Chemistry

**Organizers**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors  
Department of Chemistry



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College, organized a meeting on the topic “Enriching our health through Traditional millets” in commemoration of the International year of millets 2023. The event was held at Sophy’shall on the 9<sup>th</sup> of March 2023 between 10.30 and 11.30 am. Ms. S. Mahalakshmi (III. B.Sc. Chemistry A) Association Secretary welcomed the gathering. The resource person was Dr. H.David Raja, Assistant Professor, Department of Botany, St. Joseph’s College, Trichy. The year 2023 has been declared by the United Nations as the International Year of the Millet, following a proposal by India, which wants to position itself as a global hub for millet. The chief guest elaborated in detail on how millets can help the world face the challenges confronting it. Dr. H. David Raja pointed out the major millet-producing states in India, their cultivation and their cost. He mentioned millet as Nutri magical grain due to its enormous health benefits. It was fascinating to know about their types and their multiple health benefits such as improving gastrointestinal health, blood lipid profile, blood glucose clearance, acting as detoxifying agents etc. As chemists who deal with chemicals in the lab often, we need more consciousness of our health. The session equipped the students to face the world of challenges with good health through the use of Nutri magical grains. 115 students of III UG chemistry participated and benefitted from this useful session. The session ended with the formal vote of thanks delivered by Ms. J. Maria Raveena, Student Council member of the Chemistry department.




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**SCHOOL OF PHYSICAL SCIENCES  
PG & RESEARCH DEPARTMENT OF CHEMISTRY  
LAVOISIER CHEM ASSOCIATION**  
Organizes a Lecture on


**Enriching our health through  
traditional millets'**  
*in commemoration of the  
Year of Millet - 2023*

On 09<sup>th</sup> March 2023 at 10.30 a.m. Venue - Sophy's Hall

**Presided By**  
**Rev. (Sr). Dr. A. Christina Bridget**  
Principal, Holy Cross College  
Tiruchirappalli



**Resource Person**



**Dr. H. David Raja**  
Assistant Professor  
Department of Botany  
St. Joseph's College  
Tiruchirappalli

**CONVENER**  
**Dr. A. Leema Rose**  
Associate Professor & Head

**ORGANIZERS**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College organized a session on the topic “Intellectual Property Rights “on 9th March 2023. The event was held from 2.30 to 3.30 pm at Room. No 9. The meeting commenced with a prayer followed by the welcome address given by Ms. S. Palika of II M. Sc. Chemistry. The resource person invited for the talk was Mr. M. Vinoth, Incubation Scientist, EDII – Anna Business Incubation Research Foundation, University College of Engineering, BIT Campus, Anna University, Tiruchirappalli. The resource person gave informational knowledge about the Indian patent act, patent law, patent licenses, types of patents, patentable inventions and their features. Mr. Vinoth clearly explained the copyrights, trademarks, trade secrets, benefits of having IP protection, schemes available in government and their financial effectiveness. The Meeting was attended by all the IIC students, research scholars and II PG students of the chemistry department. It was followed by an interactive Q & A session. Overall, the session equipped the students to gain knowledge about research-oriented patentable rights and the purpose of patents. The event ended with a formal vote of thanks given by Ms. D. Charithra Iswarya, Joint Secretary of the Chemistry Association (II M.Sc. Chemistry).

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Tiruchirappalli-620002, Tamil Nadu, India

**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
and  
**HOLY CROSS INNOVATION AND INCUBATION COUNCIL (HCHIC)**

Organizing a lecture on  
**Intellectual Property Rights**

On 9<sup>th</sup> March 2023, Venue: Room No.9  
Time : 2.30 p.m. - 3.30 p.m.

Presided by  
Rev. (Sr). Dr. A. Christina Bridget  
Principal, Holy Cross College

Resource Person  
Mr. M. Vinoth  
Incubation Scientist  
EDII- Anna Business Incubation Research Foundation  
University College of Engineering, BIT Campus  
Anna University, Tiruchirappalli.

CONVENER  
Dr. A. Leema Rose  
Associate Professor & Head

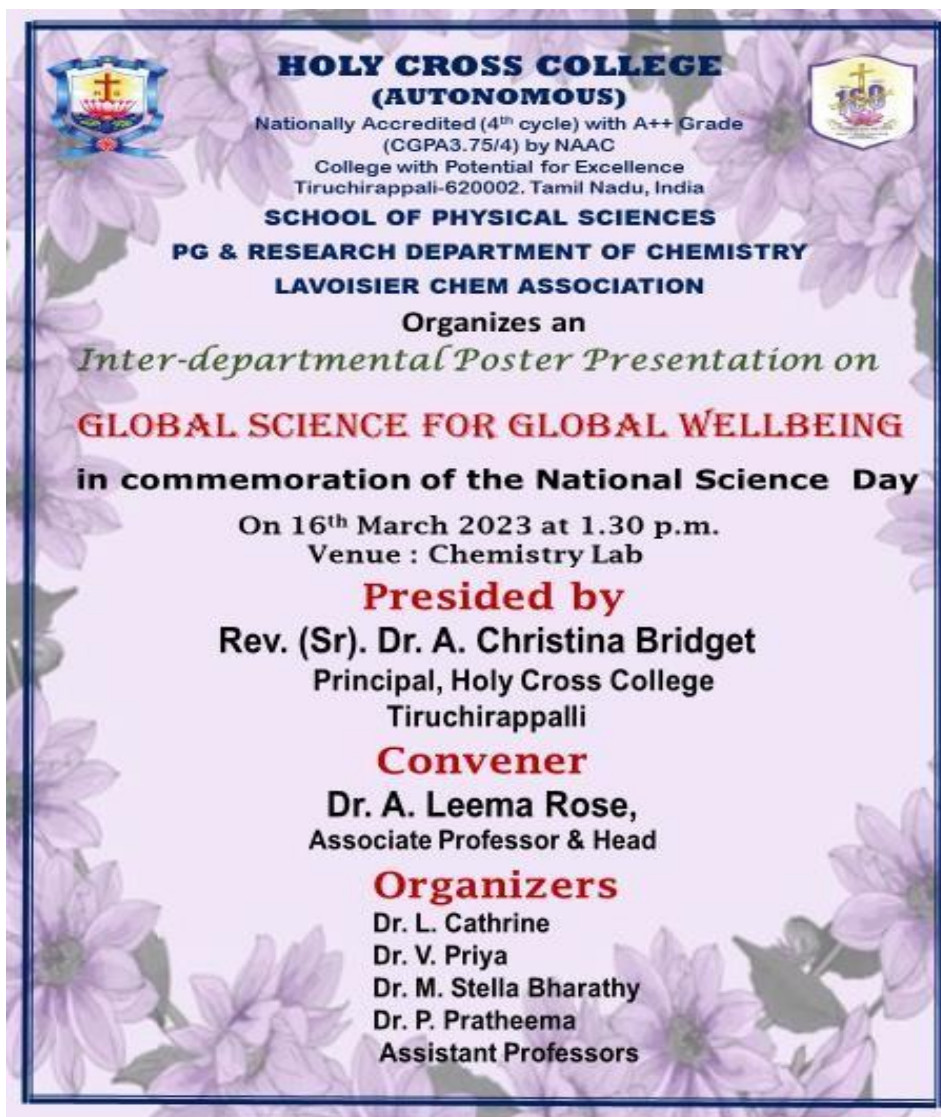
ORGANIZERS

Dr. L. Cathrine	Dr. J. Amala Infant Joice
Dr. V. Priya	IIC Ambassador
Dr. M. Stella Bharathy	Dr. S. Vidhya
Dr. P. Pratheema	IIC - Staff In charge

Department of Chemistry



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College organized an Inter-departmental Poster presentation competition on 16th March 2023. The Competition took place in the Chemistry lab at 1.30 pm. This event was conducted in commemoration of National Science day which was celebrated on February 28, 2023. The theme of National Science day 2023, 'Global Science for global wellbeing' is given as the topic for the poster presentation. 10 students from different science and arts streams participated in this competition. Three winners were selected based on scores recorded by judges and awarded in the valediction program that was conducted at 2.30 pm in Shanthi's hall, the same day. The main goal of this event is to create awareness among students about science and technology and their current development & discoveries.



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**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
**LAVOISIER CHEM ASSOCIATION**

Organizes an  
*Inter-departmental Poster Presentation on*  
**GLOBAL SCIENCE FOR GLOBAL WELLBEING**  
in commemoration of the **National Science Day**

On 16<sup>th</sup> March 2023 at 1.30 p.m.  
Venue : Chemistry Lab

**Presided by**  
Rev. (Sr). Dr. A. Christina Bridget  
Principal, Holy Cross College  
Tiruchirappalli

**Convener**  
Dr. A. Leema Rose,  
Associate Professor & Head

**Organizers**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College conducted an Intra-departmental Competition on Cooking without fire using millets on 16<sup>th</sup> March, 2023. The Competition was held to take place in Room.no 9 at 11.30 am. This event was conducted in commemoration of International year of millets 2023.

Two groups from each class participated in this competition. Each group had two students. Previously soaked/ boiled/fried millet varieties were used. Around 9 teams from Chemistry department registered their names to participate in this competition. Best of three teams were selected as winners based on scores recorded by judges and were awarded in the valediction program conducted on the same day. The main goal of this event is to create awareness among students about the importance of millets, their health benefits and different methods to include them in our daily food items.



**HOLY CROSS COLLEGE**  
**(AUTONOMOUS)**  
Nationally Accredited (4<sup>th</sup> cycle) with A++ Grade  
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Tiruchirappali-620002, Tamil Nadu, India

**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
**LAVOISIER CHEM ASSOCIATION**

Organizes an  
*Intra-departmental competition*  
**COOKING WITHOUT FIRE USING MILLETS**  
in commemoration of the Year of Millets

On 16<sup>th</sup> March 2023 at 11.30 a.m. - 12.30 a.m.  
Venue : Chemistry Lab

**Presided by**  
Rev. (Sr). Dr. A. Christina Bridget  
Principal, Holy Cross College  
Tiruchirappalli

**Convener**  
Dr. A. Leema Rose,  
Associate Professor & Head

**Organizers**  
Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors



The PG and Research Department of Chemistry, Lavoisier Chem Association, Holy Cross College conducted the valediction ceremony for the association activities in the Centenary year 2022-2023, on 16th of March 2023. Ms. P. Kalpana, Production and Quality Lead, Linde India Enterprises, Mathur, Trichy was the chief guest. The meeting was held at Shanthi's hall at 2.30 pm. The meeting commenced with a prayer followed by the welcome address delivered by Ms. S. Mahalakshmi (III.B.Sc Chemistry A) Association secretary. Ms. Shubicshaa Shree (II B.Sc. Chemistry B), Assistant Secretary of the chemistry Association read the minutes of previous meetings. The Resource person spoke on the topic 'Role of women in industry' which is an essential topic to be discussed among the upcoming chemists. The resource person emphasized the truth that we must be consistent in our work to achieve great things. She shared her own life experience as an example to students. She explained about the enormous opportunities available for women in the Industrial sector and it is only about how we utilize them. This was followed by a Prize distribution session for the activities conducted by Lavoisier Chem Association in this academic year 2022-2023. 15 students were awarded prizes for the Paper presentation competition, 13 students for the Ideation competition, 6 students for the cooking without fire event and 3 for the Poster presentation. Totally 38 prizes were distributed by the chief guest to the winners. 80 students of III UG A, I PG and IIPG of the chemistry department actively participated and got benefitted from this useful session. The session ended with the formal vote of thanks delivered by Ms. D. Charithra Iswarya, Joint secretary of Chemistry Association.





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**SCHOOL OF PHYSICAL SCIENCES**  
**PG & RESEARCH DEPARTMENT OF CHEMISTRY**  
**LAVOISIER CHEM ASSOCIATION**

## VALEDICTION

On 16<sup>th</sup> March 2023 at 2.30 p.m.  
Venue : Shanthi Hall

### Presided by

Rev. (Sr). Dr. A. Christina Bridget  
Principal, Holy Cross College  
Tiruchirappalli



### Resource Person

Ms. P. Kalpana  
Production and Quality Lead  
Linda India Enterprises, Mathur  
Tiruchirappalli



**Topic : Role of women in industry**

### Convener

Dr. A. Leema Rose,  
Associate Professor & Head

### Organizers

Dr. L. Cathrine  
Dr. V. Priya  
Dr. M. Stella Bharathy  
Dr. P. Pratheema  
Assistant Professors

### Student Office Bearers

Ms. S. Mahalakshmi - III B. Sc. Chemistry  
Ms. D. Charithra Iswarya - II M.Sc. Chemistry  
Ms. S. R. Shubichshaa Shree - II B. Sc. Chemistry

