

Interactive Session on
“Chemistry of Northern Lights”

DATE: 18.04.2022

RESOURCE PERSON

Dr. H. Johnson Jeyakumar
Controller of Examinations
Pope’s College (Autonomous)
Sawyerpuram



DEPARTMENT OF CHEMISTRY & RESEARCH CENTER

POPE’S COLLEGE (AUTONOMOUS)

SAWYERPURAM-628251



CSI - Thoothukudi - Nazareth Diocese

POPE'S COLLEGE

(Autonomous)

Accredited By NAAC - II Cycle with 'A' Grade (CGPA 3.28)

Sawyerpuram, Thoothukudi - 628251



DEPARTMENT OF CHEMISTRY AND RESEARCH CENTRE

Guest Lecture on

'Chemistry of Northern Lights'

18.04.2022 | Monday | A/C Seminar Hall, Department of Chemistry

President

Rt. Rev. Dr. S.E.C. Devasahayam
Chairman and Secretary, Pope's College

Dr. R. Immanuel
Principal, Pope's College

Dr. B. Ravindran Durai Nayagam
Head, Dept. of Chemistry, Pope's College

Chief Guest

Guest of Honour

Dr. S. Thilaga Leelavathi
Head, Dept. of Mathematics,
Pope's College

Dr. G. Jeevarani Thangam
Assistant Professor of Physics,
Pope's College

Resource Person

Dr. H. Johnson Jeyakumar
Controller of Examinations,
Pope's College

Organising Secretary

Dr. C. Ravi Samuel Raj

Dr. Caroline Daisy

Dr. J. Clara Jeya Geetha

Co-ordinators

Dr. J. Ilavarasi Jeyamalar
Dr. A. Emi Princess Prasanna

Ms. L. Perlyanayagi
Ms. G. Vijayalakshmi

**DEPARTMENT OF CHEMISTRY & RESEARCH CENTER
POPE'S COLLEGE (AUTONOMOUS)
SAWYERPURAM-628251**

REPORT

**Guest Lecture on
"Chemistry of Northern Lights"
DATE: 18.04.2022**

The Department of Chemistry & Research Center of Pope's College, Sawyerpuram organized an interactive session on "Chemistry of Northern Lights" on 18.03.2022. The program was started with a prayer song by the Department Choir team. Dr.J.ClaraJeyaGeetha, Assistant Professor of Chemistry welcomed the gathering. Dr.R.Immanuel gave a presidential Address. Dr.Caroline Daisy, Assistant Professor of Chemistry gave the introductory remarks about the program. Dr. S. Thilaga Leelavathi, Head, Department of Maths and Dr.G. Jeevarani Thangam, Assistant Professor, Department of chemistry were felicitated the program. Dr. Dr.C.Ravi Samuel Raj, Associate Professor of Chemistry, welcomed and introduced the resource person to the gathering. Dr. H. Johnson Jeyakumar, Controller of Examination, Pope's college was the resource person.

Dr. H. Johnson Jeyakumar, Controller of Examination, Pope's College (Autonomous), Sawyerpuram, opened the session. He spoke with the students about the "Chemistry of Northern Lights." He used statistics to explain the interior and exterior of the sun. He discussed about the different types of nuclear reactions and how nuclear fusion occurs on the sun's surface. He also explained how energy from the Sun passes through an imaginary disc with a diameter equal to the Earth's diameter and how solar prominences can erupt and rise off the Sun over the course of a few minutes or hours, solar flares are tremendous explosions on the surface of the Sun, they occur near sunspots, usually along the dividing line (neutral line) between areas of oppositely

directed magnetic fields. He explained why the aurora lights at the north and south poles differ. According to international scientists, the aurora lights in the north and south poles are caused by the Sun's magnetic field, solar winds, and the Earth's magnetic tail. Previous theories about why the lights can have different shapes and appear in different locations have been debunked by studying the interactions of these phenomena. This research also assists scientists in better understanding the interactions between the sun and the Earth, which may aid in the prediction of space weather.

Finally the program was end with the vote of thanks by Krishnakumar, II M.Sc., Chemistry. The program wrapped up around 1.30 pm. Dr.B.RavindranDuraiNayagam, Head, Department of Chemistry was the President, Dr.C.Ravi Samuel Raj, Associate Professor of Chemistry, Dr.Caroline Daisy, Assistant Professor of Chemistry and Dr,J,ClaraJeyaGeetha, Assistant Professor of Chemistry were the Organizing Secretaries, Dr.J.IlavarasiJeyamalar, Dr.A.Emi Princess Prasana, Ms.L.Periyanayagi and Ms.G.Vijayalakshmi, Assistant Professor of Chemistry were the Co-ordinators made all the arrangements and made this program a grant success.

HOD



(Dr.B.Raindran Durai Nayagam)


PRINCIPAL

(Dr.R.Immanuel)
PRINCIPAL
POPE'S COLLEGE
(Autonomous)
SAWYERPURAM-62825

DEPARTMENT OF CHEMISTRY & RESEARCH CENTER
POPE'S COLLEGE (AUTONOMOUS)
SAWYERPURAM-628251

Guest Lecture on
"Chemistry of Northern Lights"
DATE: 18.04.2022

Major : II M.Sc Chemistry

Sl. No	Reg No	Name of the Candidate	Signature
1	202403101	Bavani M	M. Bavani
2	202403102	Daffni R	R. Daffni
3	202403103	Deepika S	
4	202403104	Neuna V	V. Neuna
5	202403105	Pavithra M	M. Pavithra
6	202403106	Krishna Kumar M	M. Krishna Kumar (CUMM)
7	202403107	Tharanraja B	B. Tharan Raja
8	202403108	Vijay R	R. Vijay
9	202403109	Xavier J	J. Xavier

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SAWYERPURAM-628251

Guest Lecture on
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DATE: 18.04.2022

Major : I M.Sc Chemistry

Sl. No	Reg No	Name of the Candidate	Signature
1	212403101	Alagu Vigneswari R	Alagu vignes
2	212403102	Angel Christy M	Angel christy
3	212403103	Anto Sajitha C	Anto Sajitha
4	212403104	Esakki Selvam M	
5	212403106	Mathumitha M	M. Mathumitha
6	212403107	Shilpa J	Shilpa
7	212403108	Suregavathi B	B. Suregavathi
8	212403109	Arputha Raj U	U. A. Raj
9	212403110	Arun Kumar M	
10	212403111	Elango S	Elango. S
11	212403112	Harish Rahul S	Harish
12	212403113	Karthikeyan C	C. Karthikeyan
13	212403114	Sathis Kumar A	A. Sathis Kumar
14	212403115	Sathish P	



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Sawyerpuram-628 251, ThoothukudiDist, Tamilnadu

Guest Lecture on
CHEMISTRY OF NORTHERN LIGHTS
18.04.2022 at Department A/C Seminar Hall

FEEDBACK FORM

- | | | | | |
|---|---|-----------|-----------|-----|
| 1. Name | : | M. Barani | | |
| 2. Class | : | II M.Sc | | |
| 3. Overall performance of the programme | : | Good ✓ | Moderate | Bad |
| 4. Quality of the resource persons | : | Good ✓ | Moderate | Bad |
| 5. Quality of arrangements | : | Good ✓ | Moderate | Bad |
| 6. Hospitality | : | Good ✓ | Moderate | Bad |
| 7. The programme is useful? | : | Yes ✓ | No answer | No |
| 8. Your suggestions | : | | | |

M. Barani
SIGNATURE

FEEDBACK FORM

- | | | | | |
|---|---|----------|-----------|-----|
| 1. Name | : | R. Daffu | | |
| 2. Class | : | II M.Sc | | |
| 3. Overall performance of the programme | : | Good ✓ | Moderate | Bad |
| 4. Quality of the resource persons | : | Good ✓ | Moderate | Bad |
| 5. Quality of arrangements | : | Good ✓ | Moderate | Bad |
| 6. Hospitality | : | Good ✓ | Moderate | Bad |
| 7. The programme is useful? | : | Yes ✓ | No answer | No |
| 8. Your suggestions | : | | | |

R. Daffu
SIGNATURE



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Guest Lecture on
CHEMISTRY OF NORTHERN LIGHTS
18.04.2022 at Department A/C Seminar Hall

FEEDBACK FORM

- | | | | | | |
|---|---|------------------|-----------|-----|--|
| 1. Name | : | M. Parithra | | | |
| 2. Class | : | II Msc Chemistry | | | |
| 3. Overall performance of the programme | : | Good | Moderate | Bad | |
| 4. Quality of the resource persons | : | Good | Moderate | Bad | |
| 5. Quality of arrangements | : | Good | Moderate | Bad | |
| 6. Hospitality | : | Good | Moderate | Bad | |
| 7. The programme is useful? | : | Yes | No answer | No | |
| 8. Your suggestions | : | | | | |

M. Parithra
SIGNATURE

FEEDBACK FORM

- | | | | | | |
|---|---|------------------|-----------|-----|--|
| 1. Name | : | J. Xavier | | | |
| 2. Class | : | II Msc Chemistry | | | |
| 3. Overall performance of the programme | : | Good | Moderate | Bad | |
| 4. Quality of the resource persons | : | Good | Moderate | Bad | |
| 5. Quality of arrangements | : | Good | Moderate | Bad | |
| 6. Hospitality | : | Good | Moderate | Bad | |
| 7. The programme is useful? | : | Yes | No answer | No | |
| 8. Your suggestions | : | | | | |

J. Xavier
SIGNATURE



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Guest Lecture on
CHEMISTRY OF NORTHERN LIGHTS
18.04.2022 at Department A/C Seminar Hall

FEEDBACK FORM

- | | | | | |
|---|---|------------------|-----------|-----|
| 1. Name | : | B. Suregarathi | | |
| 2. Class | : | I M.Sc Chemistry | | |
| 3. Overall performance of the programme | : | Good ✓ | Moderate | Bad |
| 4. Quality of the resource persons | : | Good ✓ | Moderate | Bad |
| 5. Quality of arrangements | : | Good | Moderate | Bad |
| 6. Hospitality | : | Good | Moderate | Bad |
| 7. The programme is useful? | : | Yes ✓ | No answer | No |
| 8. Your suggestions | : | | | |

B. Suregarathi
SIGNATURE

FEEDBACK FORM

- | | | | | |
|---|---|------------------|-----------|-----|
| 1. Name | : | A. Sathish Kumar | | |
| 2. Class | : | I M.Sc Chemistry | | |
| 3. Overall performance of the programme | : | Good ✓ | Moderate | Bad |
| 4. Quality of the resource persons | : | Good ✓ | Moderate | Bad |
| 5. Quality of arrangements | : | Good ✓ | Moderate | Bad |
| 6. Hospitality | : | Good | Moderate | Bad |
| 7. The programme is useful? | : | Yes ✓ | No answer | No |
| 8. Your suggestions | : | | | |

A. Sathish Kumar
SIGNATURE