



# Science Academies' Lecture Workshop on Optical and Functional Organic Materials

*Jointly organized by*



P.G. Department of Chemistry  
KHALSA COLLEGE, AMRITSAR

**March 01-02, 2024**

**Venue:** Sikh History Auditorium Hall, Khalsa College, Amritsar



**Under the Guidance of**

S. Satyajit Singh Majithia, President  
S. Rajinder Mohan Singh Chinna, Hony. Secy.  
Khalsa College Governing Council, Amritsar



**PATRON**

Dr. Mehal Singh, Principal Khalsa College, Amritsar



**Convener**

Prof. Pushpendu K. Das, IISc,  
Bengaluru



**Coordinator**

Dr. Amit Anand (Head)  
Department of Chemistry

**RESOURCE PERSONS**



Prof. Pushpendu K. Das  
IISc, Bengaluru



Prof. Uday Maitra  
IISc, Bengaluru



Prof. Kamaljit Singh  
GNDU, Amritsar



Prof. Paramjit Kaur  
GNDU, Amritsar

**NO REGISTRATION FEE**

Hard copy of registration form can be downloaded from the college website: <https://khalsacollege.edu.in/> and submitted at the time of registration on March 01, 2024 <https://forms.gle/Pv7bQucusZ7bMnMa3A>  
Students can fill the online registration form

Scan Code



## PROGRAMME SCHEDULE

Time	Programme	Speaker/s
<b>Day-1 (01.03.2024)</b>		
<b>Inaugural Session</b>		
9:00-9:25 am	Registration	
9:25-9:30 am	College Shabad	Students of the Chemistry Department
9:30-9:35 am	Floral Welcome of the Guests	
9:35-9:45am	Brief Introduction about the department and College	<b>Dr. Amit Anand</b> Workshop Co-ordinator
9:45-9:55am	Introduction to the Workshop	<b>Prof. (Dr.) Puspendu K. Das</b> Workshop Convener
9:55-10:05am	Welcome Address	<b>Dr. Mehal Singh</b> Principal, Khalsa College Amritsar
10:05-10:10am	Vote of Thanks	<b>Dr. Taminder Singh</b> DAA, Khalsa College Amritsar
<b>Session-I</b>		
10:10:11:25 am	Fundamental of nonlinear optical organic materials	<b>Prof. (Dr.) Kamaljit Singh</b> Professor, GNDU, Amritsar
11:25-11:45 am	Tea Break	
11:45-1:00 pm	Interaction of light with matter: some practical aspects	<b>Prof. (Dr.) Uday Maitra</b> Professor, IISc Bangalore
1:00-2:00 pm	Lunch	
<b>Session-II</b>		
2:00-3:15 pm	Second order nonlinear optics with molecules and materials	<b>Prof. (Dr.) Puspendu K. Das</b> Professor, IISc Bangalore
3:15-3:30 pm	Tea Break	
3:30-4:45 pm	Luminescent organic materials	<b>Prof. (Dr.) Paramjit Kaur</b> Professor, GNDU, Amritsar
4:45-5:00 pm	Student Interaction with the speakers	
<b>Day-2 (02.03.2024)</b>		
<b>Session-I</b>		
9:30-10:45 am	Photoluminescence based sensors for small molecules, drugs and enzymes	<b>Prof. (Dr.) Uday Maitra</b> Professor, IISc Bangalore
10:45-11:00 am	Tea Break	
11:00-12:15 pm	Nanomaterials for nonlinear optics	<b>Prof. (Dr.) Puspendu K. Das</b> Professor, IISc Bangalore
12:15-1:30 pm	Fundamentals of charge transfer chemistry	<b>Prof. (Dr.) Paramjit Kaur</b> Professor, GNDU, Amritsar
1:30 -2:30 pm	Lunch	
<b>Session-II</b>		
2:30-3:45 pm	Design principles of organic nonlinear optical materials	<b>Prof. (Dr.) Kamaljit Singh</b> Professor, GNDU, Amritsar
3:45-4:15 pm	Student Interaction and Feedback Session	
4:15-4:20 pm	Vote of Thanks	

For any queries contact :Dr. Amit Anand, Head, Department of Chemistry, KCA +91-9501722800, amitanand@khalsacollege.edu.in

## AIMS & OBJECTIVES

Science Academies' lecture workshops are intended to develop scientific temperament amongst budding researchers. A life time opportunity to interact with fellows from the academy, learn from their plethora of knowledge and inculcate spirit to achieve heights in research careers. The Workshop will take you to a journey from basics to advancements in the field of Optical and Functional Organic Molecules.

## ABOUT KHALSA COLLEGE

Khalsa College Amritsar was established in 1892 with the main objective to spread the benefits of modern education in Humanities, Agriculture, Science and Technology amongst the people of Punjab. The aim of its founding fathers was the eradication of ignorance, illiteracy and social evils bedeviling the Indian society through enlightened, progressive and value oriented education. A galaxy of distinguished citizens, eminent educationists and noted celebrities like Sir Sunder Singh Majithia, S. Tarlochan Singh, Padam Vibhushan Bhai Vir Singh Ji, S. Harbans Singh Attari, Col. Sir Buta Singh, S.B.S. Ujjal Singh, Major Harinder Singh, Dr. Sohan Singh, S. Gurmukh Singh Chawla, S. Sant Singh and many more who worked with rare distinction, humility, dedication and missionary spirit to raise Khalsa College to the present status of a premier educational institution. The College campus covers an area of over 300 acres and provides latest facilities for higher education. The college has been taking lead in starting new courses in Humanities, Agriculture and Science up to post graduate levels. Presently, the college is running post graduate classes in Botany, Chemistry, Physics, Zoology, Mathematics, Agronomy, Horticulture, Agriculture, Economics, English, Economics, Commerce, Political Science, Punjabi and Computer Science. Besides these, the college is offering job oriented courses in Bachelor in Biotechnology, Physiotherapy, Food Science, Agriculture, Computer Science & Information Technology, Computer Maintenance, Computer Applications and Economics.

## ABOUT HOLY CITY AMRITSAR

The city of Amritsar is only 27 km from the international border with Pakistan. The city was founded by the fourth Guru of Sikhs Shri Guru Ramdas Ji in 1577; in his desire to create a central place of pilgrimage. The town was named Amritsar which is a combination of two words; Amrit, 'Nectar', and the 'pool', which means 'Pool of Nectar'. Amritsar is a flourishing industrial town and the premier emporium of Northern India. It has a rich cultural heritage of four centuries and is a living symbol of historical traditions of Punjabis. Amritsar is a famous tourist attraction due to the historic Harimandir Sahib (Golden Temple), Jallianwala Bagh, Durgiana Temple and of course the Khalsa College,, Amritsar.