

## Svante Arrhenius

Swedish Nobel laureate

Svante Arrhenius was a Swedish scientist. Arrhenius was one of the founders of the science of physical chemistry. He received the Nobel prize for chemistry in 1903, becoming the first Swedish Nobel laureate. In 1905, he became director of the Nobel institute, where he remained until his death.

Arrhenius was the first to use basic principles of physical chemistry to estimate the extent to which increases in atmospheric carbon dioxide are responsible for the earth's increasing surface temperature. Arrhenius contribution to science is memorialized by the Arrhenius equation, Arrhenius acid, lunar crater Arrhenius, Martian crater Arrhenius and the Arrhenius Labs at Stockholm University.

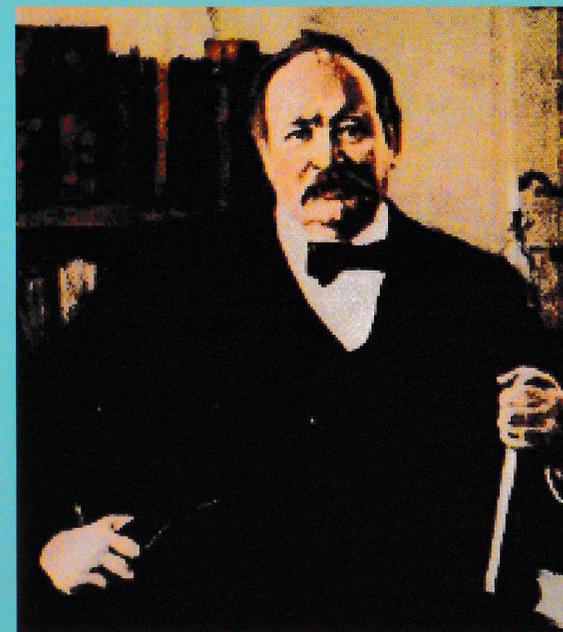
His work focused on the conductivities of electrolytes. In 1884, based on this work, he submitted a dissertation on electrolytic conductivity to Uppsala for the doctorate. Later, extension of this work would earn him the Nobel Prize in 1903 in Chemistry. In 1889, Arrhenius explained the fact that most reactions required added heat energy to proceed by formulating the concept of activation energy, an energy barrier that must be overcome before two molecules will react.

Svante Arrhenius Endowment was created in the academic year 2019-20 with the aim to promote research and development activities in the field of Chemistry which includes the Organic Chemistry, Organometallic Chemistry, Catalysis, Photochemistry and so on. Endowment amount of Rs.1,00,000 was deposited into the bank and sponsored by UG and PG students of Chemistry. Every year eminent personality in the field of Chemistry will be invited to deliver the lecture to promote scientific information exchange among the students.



## Dr. N.G.P. ARTS AND SCIENCE COLLEGE

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Approved by Government of TamilNadu & Accredited by NAAC with A ++ Grade (3<sup>rd</sup> Cycle-3.64 CGPA)  
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SVANTE ARRHENIUS  
FIFTH ENDOWMENT LECTURE

### Building Smart Materials from Molecular Interactions

Organized by

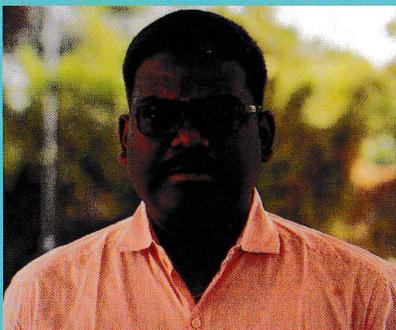
FACULTY OF BASIC AND APPLIED SCIENCES  
DEPARTMENT OF CHEMISTRY

DATE: 26.02.2026

VENUE: Seminar Hall - III

TIME: 11.00 a.m.

## CHIEF GUEST



**Dr. Shanmugaraju Sankarasekaran**  
Associate Professor in Chemistry, Indian Institute of  
Technology Palakkad, Kerala

Dr. Shanmugaraju Sankarasekaran is an Associate Professor of Chemistry at Indian Institute of Technology Palakkad. He is a distinguished researcher specializing in coordination chemistry, supramolecular chemistry, materials chemistry, and chemical sensing. He earned his Ph.D. in Inorganic Chemistry from Indian Institute of Science, receiving the Gold Medal for the best Ph.D. thesis. He subsequently completed postdoctoral research at Trinity College Dublin, supported by the Irish Research Council Fellowship and the Newton International Fellowship.

His research focuses on the design and synthesis of supramolecular coordination complexes, metallo-macrocycles, and functional materials, particularly fluorescence-based chemical sensors for environmental monitoring, bioimaging, and hazardous chemical detection. He has published widely in leading international journals, accumulating over 3000 citations, authored a book on supramolecular coordination complexes, contributed book chapters, and holds patents in chemical sensing. He has secured funding from SERB, DST, and IIT Palakkad, and actively mentors young researchers.

**PRAYER SONG**

**WELCOME ADDRESS**

**PRESIDENTIAL ADDRESS**

**CHIEF GUEST ADDRESS**

**FELICITATION**

**VOTE OF THANKS**

**NATIONAL ANTHEM**

## AGENDA

**: Department Choir**

**: Dr. R. Ravikumar**  
Head, Department of Chemistry

**: Dr. Nalla G Palaniswami**  
Chairman & Managing Director  
KMCH Coimbatore

**Dr. Thavamani D Palaniswami**  
Secretary  
Dr.N.G.P.Arts and Science collage

**: Dr. Shanmugaraju Sankarasekaran**  
Associate Professor in Chemistry  
Indian Institute of Technology Palakkad

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**: Dr. M. Mohanraj**  
Associate Professor, Department of Chemistry

**: Department Choir**