ABOUT THE SPONSORS
The National Academy of Sciences, India (NASI), founded in the year 1930 is the oldest Science Academy of the country. The main objective of the Academy was to provide a national forum for the publication of research work carried out by Indian scientists and to provide opportunities for exchange of views among them.

The Indian Academy of Sciences (I ASc), founded in 1934, aims at promoting the progress and upholding the cause of science in pure and applied branches. Major activities include publication of scientific journals and special volumes, organizing meetings of the Fellows and discussions on important topics, recognizing scientific talent, improvement of science education and taking up other issues of concern to the scientific community.

The Indian National Science Academy (INSA) was established in January 1935 with the object of promoting science in India and harnessing scientific knowledge for the cause of humanity and national welfare. The Academy promotes public awareness and understanding of science. Acting as links between the scientific community and the planners, they advise the government on critical issues. They serve as forums for interaction among scientists within and outside the country.

ABOUT THE ORGANIZERS
St. Joseph’s College, Irinjalakuda was founded by the sisters of the Congregation of the Holy Family in 1964. Blessed Mother Mariam Thressia, the foundress of the congregation, envisioned ideal families through education of women. Since its inception, the college has been trying to realize her vision of a better world of ideal families through enlightened and empowered women. The College has been reaccredited with ‘A’ grade by the NAAC in 2013.

This year the College is celebrating its 50th year of glorious journey. This would be a befitting occasion for the Institution, its students, staff and alumni to celebrate this glorious journey and the college has decided to make it the most memorable occasion by organizing various academic and cultural events throughout the year. One of the major priorities of the Golden Jubilee Celebrations is conducting a series of Educational Programmes to enrich and enhance the frontiers of knowledge.

The Department of Chemistry started functioning with the very inception of the college in the year 1964. In 1967 the college was upgraded with B.Sc Chemistry course. With the introduction of M.Sc Degree course in 1995, it grew into the biggest Department of St. Joseph’s College. This is the first women’s college in Calicut University which started PG course and also research in Chemistry. It was upgraded to the level of recognized Research Centre of Calicut University in the year 2009. The Department was identified by DST in the FIST scheme in the year 2010.
Dear Sir/Madam,

The Research and Post Graduate Department of Chemistry, St. Joseph’s College, Irinjalakuda, is organizing a two-day Lecture Workshop on “Recent developments in Physical Chemistry”. The workshop is sponsored and supported by the three national Science Academies – IASC, INSA and NASI. Prof. E D Jemmis, Indian Institute of Science, Bangalore (former Director of IISER, Thiruvananthapuram) is the Convener of the workshop.

**DATE**
31st January & 1st February 2014

**VENUE**
Chemistry Seminar Hall, St. Joseph’s College, Irinjalakuda

The workshop is intended to give an insight to students and teachers about the frontier areas of research in the field of Physical Chemistry. In addition to lectures, it is expected to provide teachers and students from various colleges a platform for discussing recent developments in Physical Chemistry. There will be sufficient time set aside to interact, share and exchange their experiences with resource persons.

We request the esteemed presence of the faculty and students of your prestigious institution.

Thanking you,
Sincerely
Dr. Sr. Annie Kuriskose Dr. Rosabella K Puthur
Principal Coordinator

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**HOW TO APPLY**

Teachers, Research Scholars and Postgraduate students can apply for participation in the workshop by sending an application in plain paper or through e-mail. **There is no Registration fee.** Delegates will be provided local hospitality.

Send the following details in a plain paper or by E-mail.

Name
Designation
Address (Office & Residence)
e-mail
Telephone Number

The last date for the receipt of duly filled application is **29th January, 2014.**

**Communications to**

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Dept. of Chemistry,
St. Joseph’s College,
Irinjalakuda 680121,
Thirissur Dt. Kerala
Ph. 919447832870
E-mail: rosabellakputhur@gmail.com

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**PROGRAMME**

**Friday, January 31, 2014**

9:15 – 9:45  Inauguration
Lecture 1  Nobel Laureates in Chemistry 2013  
Prof. M S Gopinathan, IISER, TVM
9:45-11:15

Lecture 2  Insights into some exactly solvable problems in Quantum Mechanics I  
Prof. R S Swathi, IISER, TVM
11:15 -12:45

12:45 -13:45  Lunch Break

Lecture 3  Semi-empirical and *ab initio* methods  
Prof. E G Jayasree, Kerala University
13:45 -15:15

Lecture 4  Chemistry with Computers  
Prof. E D Jemmis, IISc, Bangalore
15:15 -16:45

16:15 -16:45  Concluding Session

**Saturday, February 1, 2014**

Lecture 5  Density Functional Theory  
Prof. M S Gopinathan, IISER, TVM
09:15 -10:45

Lecture 6  Insights into some exactly solvable problems in Quantum Mechanics II  
Prof. R S Swathi, IISER, TVM
10:45 -12:15

12:15 -13:15  Lunch Break

Lecture 7  Problems in Computational Chemistry  
Prof. E D Jemmis, IISc, Bangalore
13:15 -14:45

Lecture 8  Molecular Mechanics and Force Fields  
Prof. E G Jayasree, Kerala University
14:45 -16:15

16:15 -16:45  Concluding Session