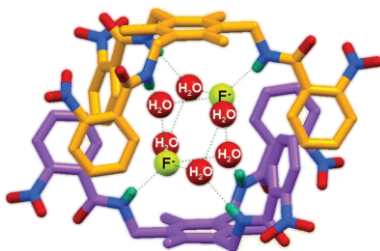




INTERNATIONAL SYMPOSIUM ON
**FACETS OF WEAK
INTERACTIONS IN
CHEMISTRY**

(Celebrating The International Year of Chemistry)



Department of Chemistry
University of Calcutta

Since the days of alchemists, the primary goal of chemistry was the understanding of the behavior of molecules and their construction from the constituent atoms. In recent years, the chemists have extended their goal beyond the atomic and molecular chemistry into the realm of supramolecular chemistry controlled mainly by weak interactions. These interactions include hydrogen bonding, van der Waals force, hydrophobic effect and π - π stacking leading to new structural motifs like molecular self-assembly, mechanically interlocked molecular architectures, host-guest complexes, etc. The role of weak interaction in biology too is almost ubiquitous; the co-operative weak noncovalent forces crucially dominate the structure of DNA double helix or globular protein forms. The origin of these weak interactions in chemistry is related either to the electron correlation or to the long-range electronic interactions. On the other hand, the field of weak interaction in physics is mainly governed by the exchange of W or Z bosons and is responsible for the weird and wonderful phenomenon, known as parity violation. This parity violation effect has far reaching consequences both in atomic and molecular sciences. Thus the field of “weak interaction” has many faces which demands a meticulous exploration of the subject both from the experimental and theoretical view points.

The scope and purpose of this symposium is to provide a platform for discussing the rapidly progressing, interdisciplinary field of weak interactions, to capture and discuss open questions and to uncover new expeditious research directions. The symposium will bring together experts with a diverse background in Chemistry, Physics, Biology, Material Science and will cover the following topics :

- **Weak interactions from theoretical perspective**
- **Metal-organic framework : role of weak interaction on topology and properties**
- **Capturing weak interaction through spectroscopic techniques**
- **Weak interaction controlled tuning of atomic and molecular properties / phenomena**
- **Weak interactions in supramolecular and biomolecular assemblies**
- **Cocrystals : role of weak interactions**

The symposium will contain the usual format of a blending of invited lectures and poster sessions. The meeting will provide an excellent opportunity for young researchers to present their latest research work and to participate in the extensive discussions.

List of Speakers

- Prof. M. Zaworotko South Florida, USA
- Prof. G. R. Desiraju IISc, India
- Prof. D. Mukherjee IACS, India
- Prof. P. Balaram IISc, India
- Prof. S. K. Das Hyderabad, India
- Dr. J. G. Ángyán Nancy, France
- Prof. S. J. Grabowski Euskal Herriko, Spain
- Dr. E. Fromager Strasbourg, France
- Dr. J. Toulouse Pierre, France
- Prof. A. Ghosh Tromso, Norway
- Prof. S. Pal NCL, India
- Prof. T. Chakraborty IACS, India
- Dr. P. Ghosh IACS, India
- Prof. B. Bhattacharya Bose Institute, India
- Prof. S. P. Goswami BESU, India
- Prof. J. N. Moorthy IITK, India
- Dr. D. Goswami IITK, India
- Dr. A. Das CSMCRI, India

Deadlines

Submission of the abstract : **15 November, 2010**

Last date for Registration : **07 December, 2010**

Acceptance of the abstract for the poster will be notified by
01 December, 2010

Venue

Auditorium of

Saha Institute of Nuclear Physics (SINP)

AF Block, Salt Lake City, Sector-I

Kolkata-700064, India

Weather

The weather in January is usually dry and mild; temperature ranging from 15–25 °C.

Travel

Kolkata is well connected by train (railway station : Howrah / Sealdah) and by air (NSC Bose International Airport, Kolkata).

Visa

Conference visas are issued by Indian Missions abroad, for attending conferences/ seminars/ meeting in India. A letter of invitation from the organizer of the symposium is to be submitted alongwith the visa application.

Registration Fee

Foreign Participants	\$ 100
Indian Participants	Rs. 1500
Research Scholars	Rs. 1000
Students	Rs. 750

Address for correspondence

Dr. Chhanda Mukhopadhyay/ Dr. Sasankasekhar Mohanta

Conveners

International Symposium on “Facets of Weak Interactions in Chemistry”
(Celebrating the International Year of Chemistry)

Department of Chemistry

University of Calcutta

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Website : <http://www.caluniv.ac.in>

then click on Symposium

International Symposium on Facets of Weak Interactions in Chemistry

(Celebrating the International Year of Chemistry)

13 – 15 January, 2011

REGISTRATION FORM

Last Name : First name :

Institution :

Address :

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E-mail : Phone :

Fax : Nationality :

Designation :

Abstract of poster attached : Yes No

Title of the Abstract :

Accommodation needed : Yes No

Amount of Registration :

Draft No. : Issuing Bank :

Date :

Signature

*Send the registration fee in the form of Cash or Bank draft on behalf of
"Conveners ISFWIC 2011"*

Last date for registration : 07 December, 2010

DOWNLOAD THE REGISTRATION FORM



The mailing address

Dr. Chhanda Mukhopadhyay

Dr. Sasankasekhar Mohanta

Conveners ISFWIC 2011

Department of Chemistry

University of Calcutta

92 A.P.C. Road, Kolkata-700009

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- Prof. Dr. E.-U. Würthwein Münster, Germany
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- Prof. P. N. Ghosh VC, JU
- Prof. A. Basumajumdar VC, NBU
- Prof. A. K. Ray VC, BESU

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Conveners : Dr. Chhanda Mukhopadhyay
Dr. Sasankasekhar Mohanta

Treasurer : Dr. Kaliprasanna Dhara

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