

# **A Series of Lectures On Application of Optical Spectroscopy in Biological Systems**

- 1. Basic optical Spectroscopic tools ( 1<sup>st</sup> class on 12<sup>th</sup> Jan 2006, 3-4 pm)**
  - a. UV-VIS absorption
  - b. Fluorescence Spectroscopy
  - c. Excited state lifetime measurement
  - d. Circular Dichroism
  - e. Stopped flow kinetic measurement
- 2. Application in membrane structure determination, drug-membrane interaction, membrane fusion. ( 2<sup>nd</sup> class on 17<sup>th</sup> Jan 2006, 3-4 pm)**
- 3. Application in protein structure determination and analysis, protein folding studies. ( 3<sup>rd</sup> class on 20<sup>th</sup> Jan 2006, 3-4 pm)**
- 4. Application in nucleic acid structure determination, DNA sequencing etc. ( 4<sup>th</sup> class on 1<sup>st</sup> Feb 2006, 3-4 pm)**

**Venue: Room No. 448**  
**Saha Institute of Nuclear Physics,**  
1/AF, Bidhannagar, Kolkata -700064

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Organized by: *Research Fellows' Association, S. I. N. P*