Applied Photosynthesis: Putting Nature to Work

Department of Plant Sciences, School of Life Sciences University of Hyderabad, Hyderabad 500 046, INDIA

Overview

The course is proposed to teach a five-day intensive and interactive class on the fundamentals, design, characterization/testing and future challenges in BioHybrid Solar energy capture and conversion. This will introduce the fundamentals of how nature harnesses solar energy. It will provide an introduction to various issues including solar radiation, basic photochemistry, and photobiology. It will be taught at a level that graduate students in Molecular Biology, Biochemistry, chemical and bioengineering, and material science.

Objectives

The primary objectives of the course are as follows:

i. Exposing participants to the fundamentals of natural and artificial photosynthesis
ii. Expose them to the emerging developments in Applied Photosynthesis
iii. Introduce the challenges and practical problems of building biohybrid devices
iv. Expose them to the recent international leaders and innovators in this area and some of their most recent accomplishments.

Course Details

1. Fundamentals of photosynthetic energy harvesting
2. Photosynthetic Hydrogen production
3. BioHybrid Solar Cell

How to apply:

Interested candidates must login GIAN-MHRD website http://www.gian.itkgp.ac.in/ to fill application. Please submit your detailed resume. For more details contact: appliedphotogian@gmail.com (or) visit: http://www/slsouh.org/appliedphotogian

Who can attend:

• Advanced Under graduates with approval of Instructors
• Graduate Student students at all levels (MSc/MTech/PhD) in appropriate disciplines
• Engineers and researchers from manufacturing, service and government organizations including R&D laboratories
• Faculty from reputed academic institutions and technical institutions.

Registration Fees

<table>
<thead>
<tr>
<th>Participants from abroad</th>
<th>US $ 500</th>
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<tbody>
<tr>
<td>P.G. Students</td>
<td>Rs. 1000/-</td>
</tr>
<tr>
<td>Postdocs/Ph. D scholars</td>
<td>Rs. 2000/-</td>
</tr>
<tr>
<td>Faculty/Scientist</td>
<td>Rs. 4000/-</td>
</tr>
<tr>
<td>Industry</td>
<td>Rs. 10,000/-</td>
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</tbody>
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For mode of payment please visit: http://www/slsouh.org/appliedphotogian. The above fee includes all instructional materials, lunches, computer use for tutorials, 24 hr free internet facility. The participants will be provided with Guest house accommodation on payment basis.