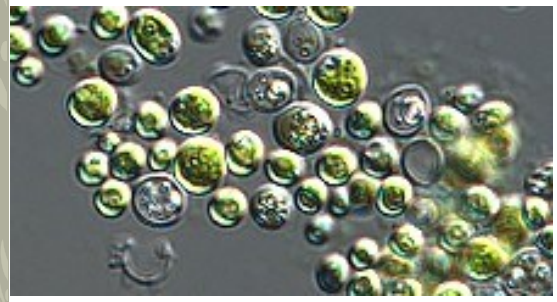
International Training Course:

THE USE OF MICROALGAE FOR THE REMOVAL OF POLLUTANTS AND FOR THE PRODUCTION OF BIOFUELS



Venue:

INSTITUTO DE ECOLOGÍA (INECOL)
Xalapa, Ver. México

Coordinator:

Prof. Eugenia J. Olguín

Coordinator Assistant:

Dr. Gloria Sánchez-Galván

September 2nd–6th, 2013

CONACYT

INECOL
INSTITUTO DE ECOLOGÍA, A.C.

The Course covers aspects of the Algal Biotechnology such as Phycoremediation and Biofuels Production.

COURSE GOALS:

I. **To provide an overview of the general aspects of algal growth and cultivation.**

II. **To get to know the environmental friendly algal biotechnologies as modern tools for pollution control, remediation of wastewater and biofuels generation.**

III. **To review the critical factors related to the production of biodiesel from microalgae.**

SPONSORS:

International Society for Applied Phycology
ISAP

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LECTURERS:

- **Prof. Yusuf Chisti**
  School of Engineering, Massey University, New Zealand

- **Prof. Joan García**
  Group of Environmental Engineering & Microbiology, Universitat Politècnica de Catalunya-Barcelona Tech, Spain

- **Prof. Eugenia J. Olguín**
  Group of Environmental Biotechnology, Institute of Ecology, Mexico

REGISTRATION FEE:

$ 250* USD ($3,250 Pesos)
Before August 2nd, 2013
$ 300* USD ($3,900 Pesos)
After August 2nd, 2013

* AN ADDITIONAL AMOUNT OF $35 USD HAS TO BE PAID IN THE CASE OF INTERNATIONAL TRANSFERS DUE TO A BANK CHARGE.

► **Download Registration Format & Payment Guide at:**
www3.inecol.edu.mx/solabiaa/

The use of Microalgae for the Removal of Pollutants and for the Production of Biofuels

P R O G R A M M:

DAY 1:
September 2nd

Prof. Yusuf Chisti
- **Microalgae Biofuels – An overview**
- **Large-scale Production of Algal Biomass**

Prof. Eugenia J. Olguín
- **Practical work with the cultivation of *Arthrospira maxima* and *Neochloris oleabundans***

DAY 2:
September 3rd

Prof. Yusuf Chisti
- **Downstream Processing: Algae Biomass Recovery and Dewatering**

Prof. Eugenia J. Olguín
- **Practical work with the cultivation of *Arthrospira maxima* and *Neochloris oleabundans***

DAY 3:
September 4th

Prof. Joan García
- **Bioreactors for the Cultivation of Microalgae**
- **Wastewater Treatment Systems Based on Cultivation of Microalgae**

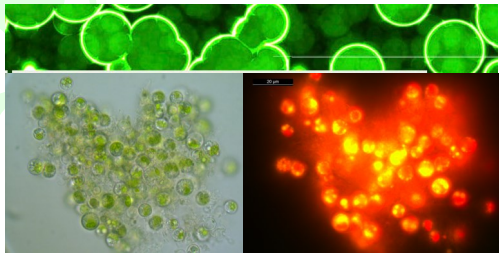
Prof. Eugenia J. Olguín
- **Dual Purpose Microalgae-Bacteria based systems treating Wastewater and Producing Bio-fuels and chemical products within a Biorefinery**

DAY 4:
September 5th

Prof. Joan García
- **Biogas Production from Algae Biomass**
- **Visit to the Wastewater Treatment Plant serving the City of Xalapa**

DAY 5:
September 6th

Prof. Eugenia J. Olguín
- **Quantification of Total Lipids by Gravimetric Methods and FAMEs by Gas Chromatography**



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Convener ISAP 2014
The 5th Congress of the International Society for Applied Phycology
"Strengthening Algal Industries for the Future: Key Knowledge and Skills Gaps"

http://www.isap2014.com/