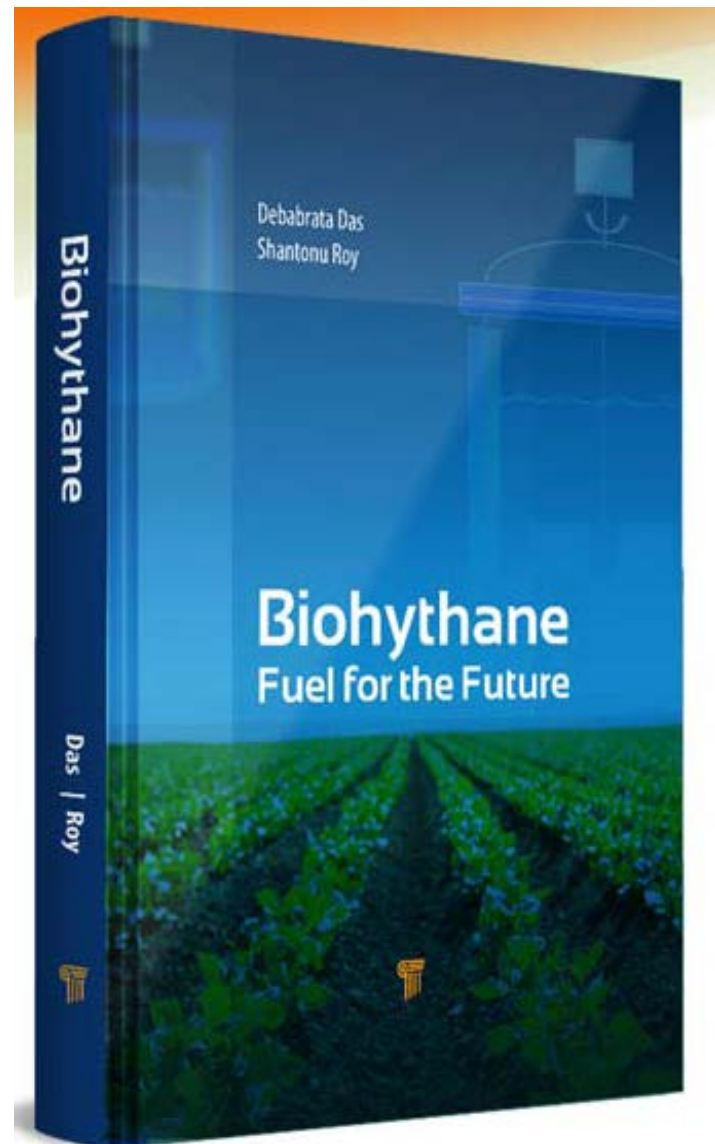
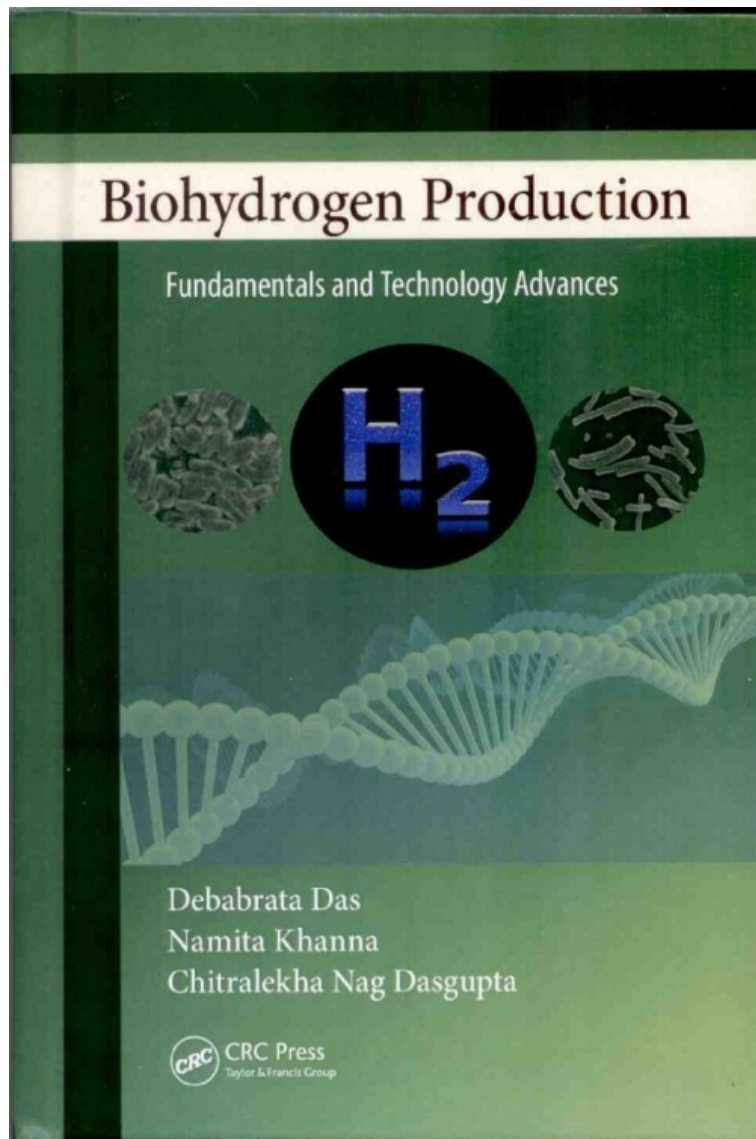


Achievements

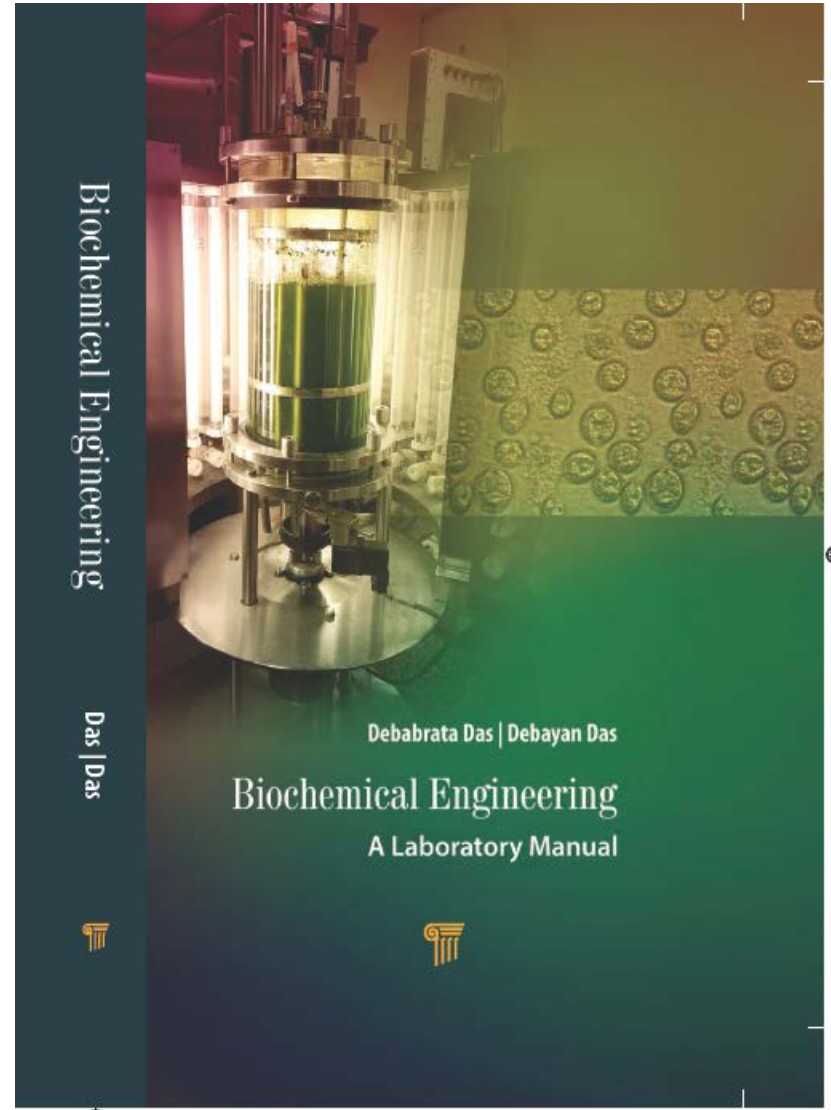
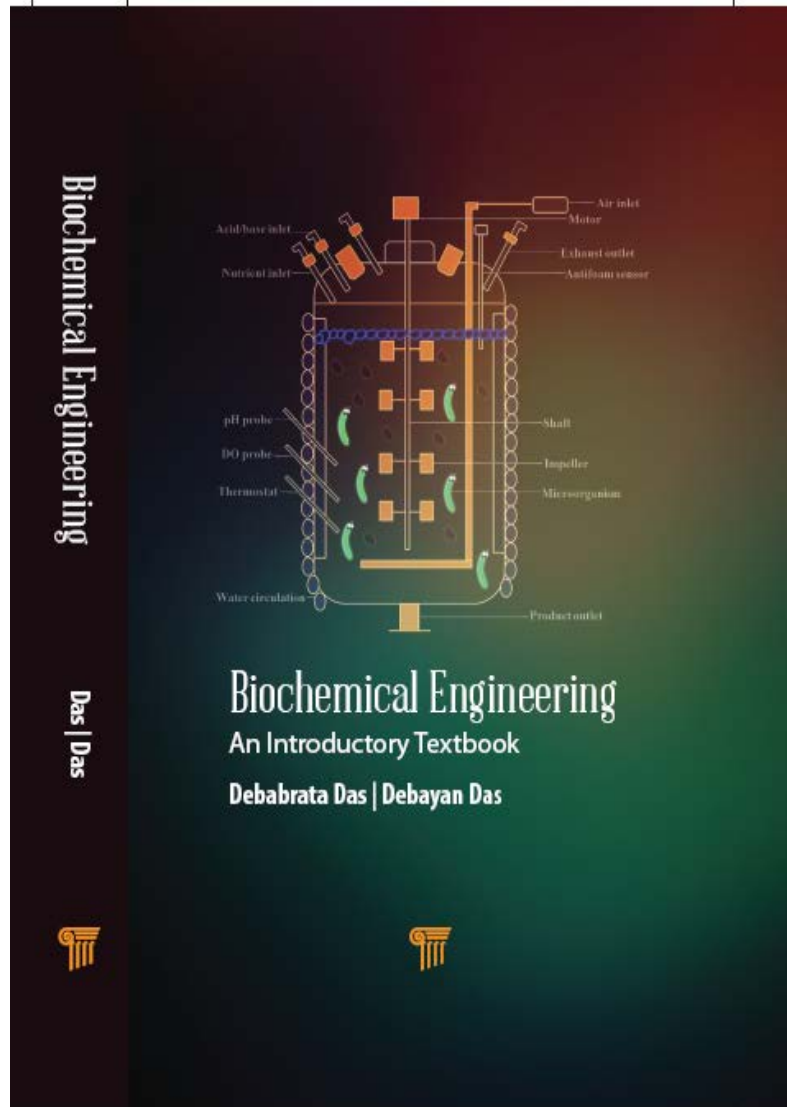
Debabrata Das

Books published

Books published



Books published



Books published

 **CRC Press**
Taylor & Francis Group

Fundamentals of Biofuel Production Processes

Debabrata Das
Jhansi L. Varanasi



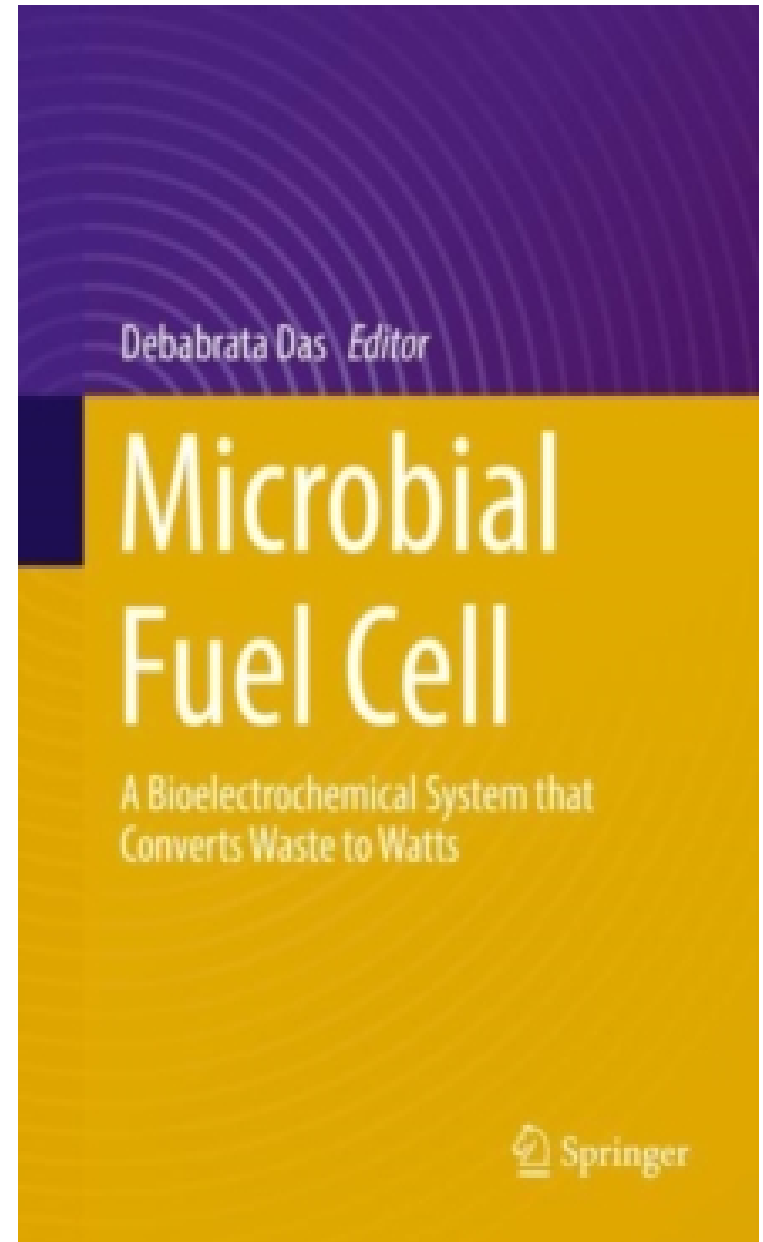
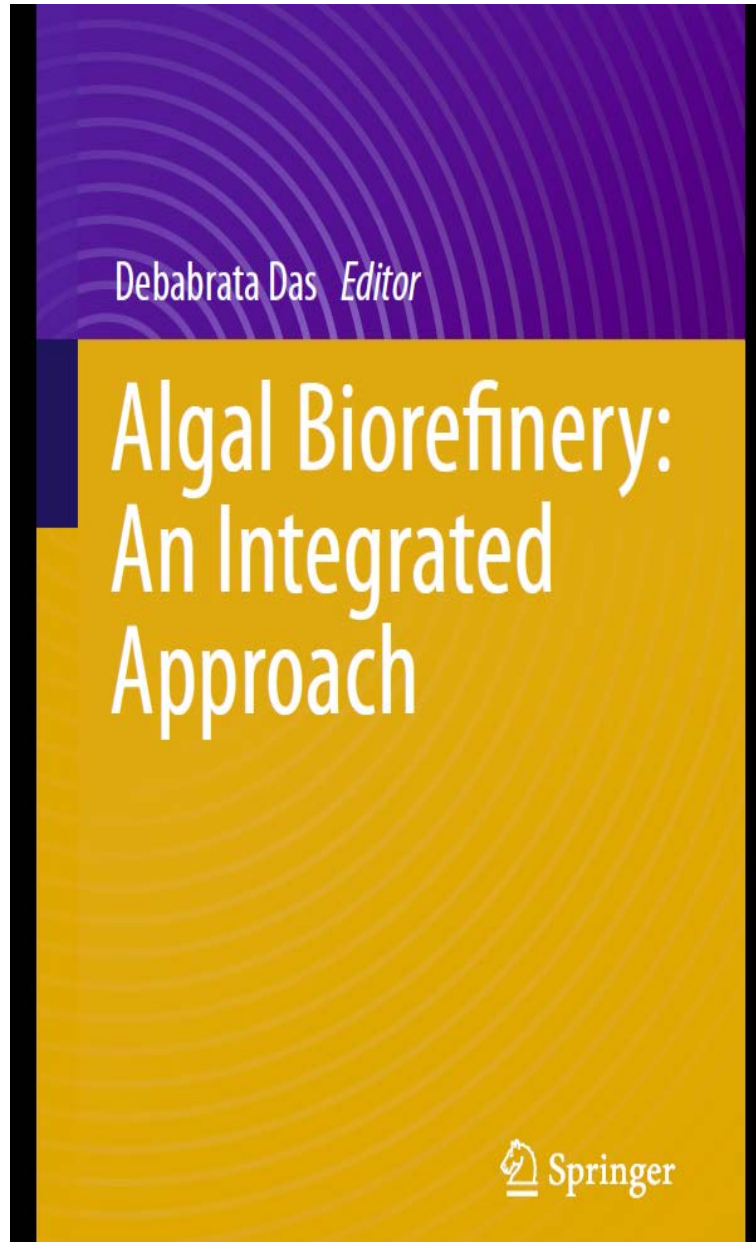
INDUSTRIAL BIOTECHNOLOGY



DEBABRATA DAS
SOUMYA PANDIT

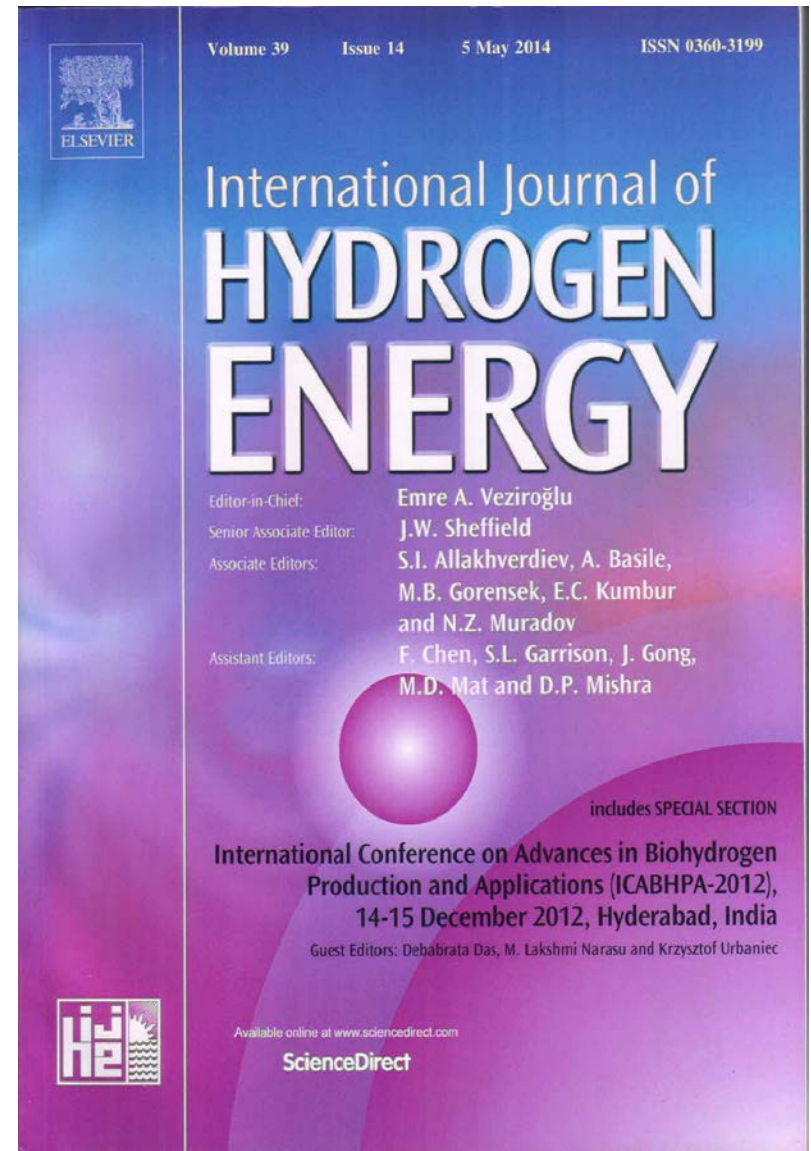
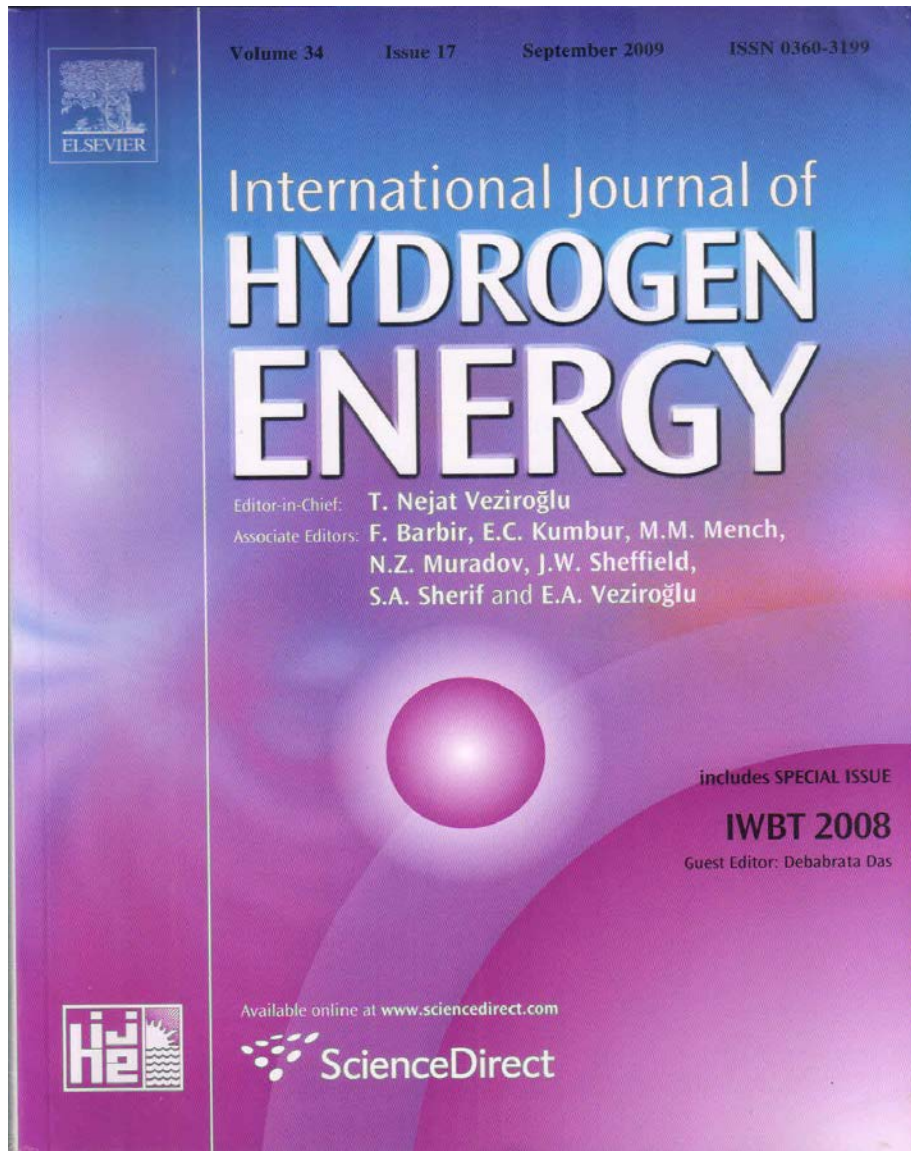
 **CRC Press**
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Books published



Guest Editor

Special issues of the Journal

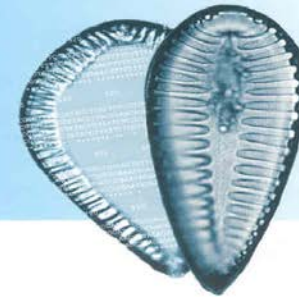


Special issues of the Journal

ISSN 1864-1318

Algological Studies

International Journal
of Phycological Research



Including papers from:

**International Conference on Algal Biorefinery –
ICAB 2013**

Guest Editor:
Debabrata Das

Volume
143

Covered and indexed in Thomson Reuters products, Biological Abstracts, and BIOSIS Previews



Schweizerbart Science Publishers 2013

International Conferences and Workshop

SOUVENIR

IWBT 2008

February 07- 09, 2008



INTERNATIONAL WORKSHOP ON

BIOHYDROGEN PRODUCTION TECHNOLOGY

Organised by



Department of Biotechnology,
Indian Institute of Technology Kharagpur
INDIA



SOUVENIR ICAB 2013

January 10-12, 2013

Organised by



Department of Biotechnology
Indian Institute of Technology Kharagpur
INDIA



INTERNATIONAL CONFERENCE ON

ALGAL BIOREFINERY

A potential source of food, feed, biochemicals, biofuels
and biofertilizers



INTERNATIONAL WORKSHOP ON

USE OF SOLAR ENERGY FOR CO₂ CAPTURE, ALGAE TECHNOLOGY AND HYDROGEN PRODUCTION, AND SUBSEQUENT USE OF ALGAL BIOMASS FOR COMMERCIAL PURPOSES

17-18 OCTOBER 2011, KOLKATA, INDIA

PROGRAMME



Organised by:



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The Royal Norwegian Embassy



Invitation ICAB 2014 August 27-29

2nd International Conference on Algal Biorefinery: A potential source of food, feed, biochemicals, biofuels and biofertilizers

Technical University of Denmark (DTU), Lyngby (North of Copenhagen), Denmark

Confirmed keynote speakers

Amir Neori (PhD, Senior Researcher)
Israel Oceanographic & Limnological Research
Ltd. National Center for Mariculture



Maria Barbosa (PhD)
Director AlgaePARC, Research Manager
Microalgae, Wageningen UR Food & Biobased
Research

Michael D. Guiry (Professor)
Founder and CEO of AlgaeBase, former Director
of the Ryan Institute, NUI Galway



Per Møller (Project Officer)
Symbiosis Center, Kalundborg Municipality

Tentative Topics in micro and macroalgal:

- taxonomy, and biodiversity
- genomics, transcriptomics, metabolomics and proteomics
- physiology and ecology
- bioremediation
- cultivation
- conversions/applications (fuels, chemicals, fertilizers, foods etc.)

Please find more information on www.algalbiorefinery.org (soon)



Bioenergy group Department of Environmental Engineering,
Technical University of Denmark, Lyngby, Denmark (organizer)

Department of Biotechnology, Indian Institute of Technology,
Kharagpur, West Bengal, India

Agricultural and Food Engineering, Indian Institute of
Technology, Kharagpur, West Bengal, India



Indian Agricultural Research Institute,
New Delhi, India

Spirulina Production Research and Training Centre
(SPRTC), Madurai, India

Lemvig biogas plant, Denmark



Short Term Courses

(Lecture notes)

V. Das
**ANALYSIS AND DESIGN OF
NOVEL BIOREACTORS**

SHORT TERM COURSE

Sponsored by

**DEPARTMENT OF BIOTECHNOLOGY
GOVERNMENT OF INDIA**

(May 10-24, 1989)

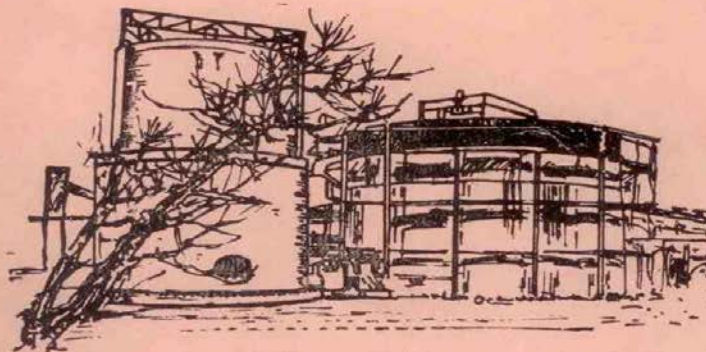


**Department of Chemical Engineering
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR-721302**

ISTE SUMMER SCHOOL
ON
BIOTECHNOLOGY IN COMBATING POLLUTION
(June 25—July 7, 1990)



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INDIAN INSTITUTE OF TECHNOLOGY
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DEPARTMENT OF CHEMICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR-721302

APPLICATION OF IMMOBILIZATION TECHNIQUES IN BIOTECHNOLOGY

(JUNE 15-27, 1992)



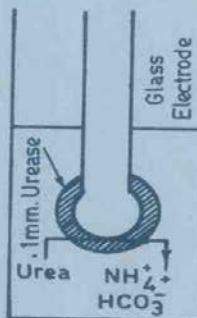
Q.I.P. SUMMER - SCHOOL

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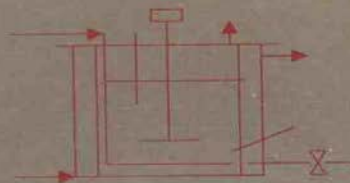
or

INDIAN INSTITUTE OF CHEMICAL ENGINEERS
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DEPARTMENT OF CHEMICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
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**BIOPROCESS ENGINEERING WITH
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Course Directors

**Dr. Debabrata Das
Dr. Ananta Kumar Ghosh**

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**Biotechnology Centre
Indian Institute of Technology
Kharagpur
1999**

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MONITORING AND CONTROL

DECEMBER 11-15, 1995



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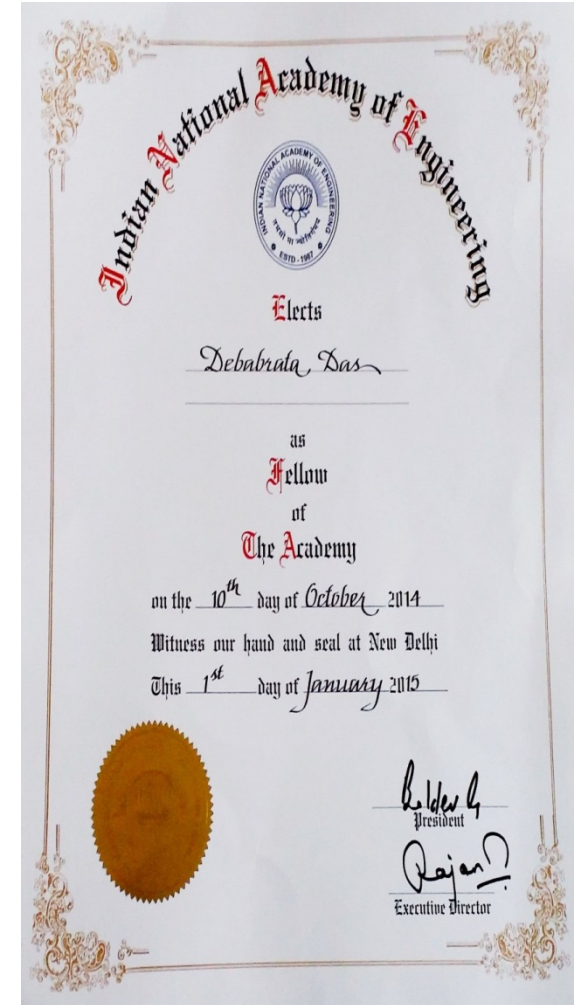
AND

DEPARTMENT OF CHEMICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
KHARAGPUR - 721302

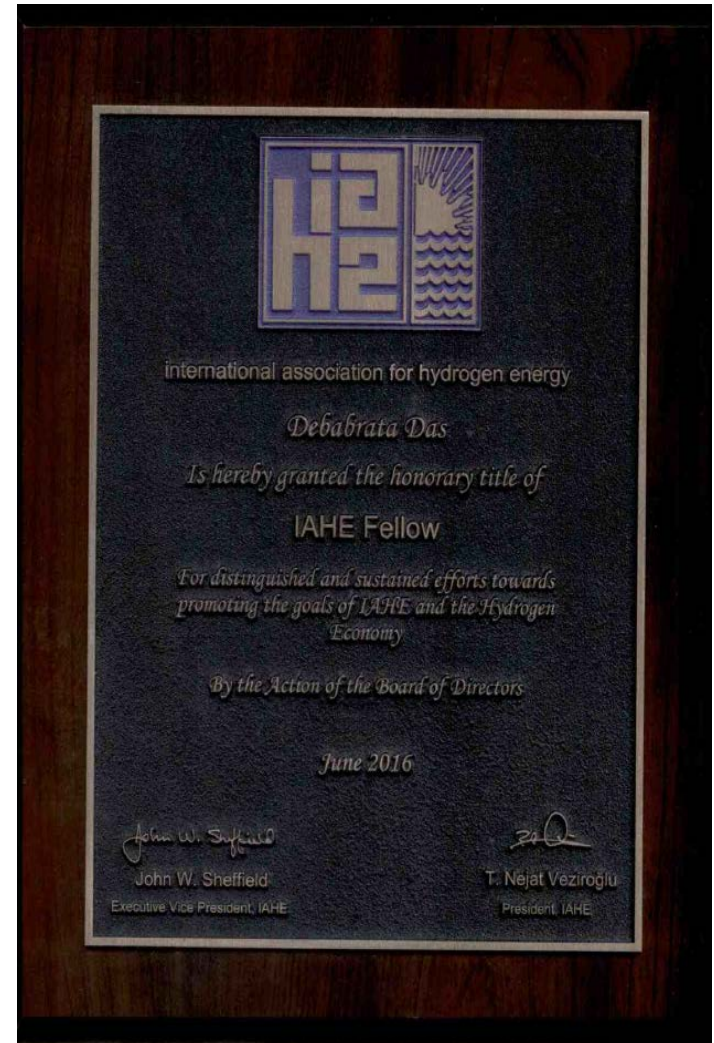
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**Fellow of the Academics /
Association / Society / Institute**

Fellow of Indian National Academy of Engineering (INAE) 2015



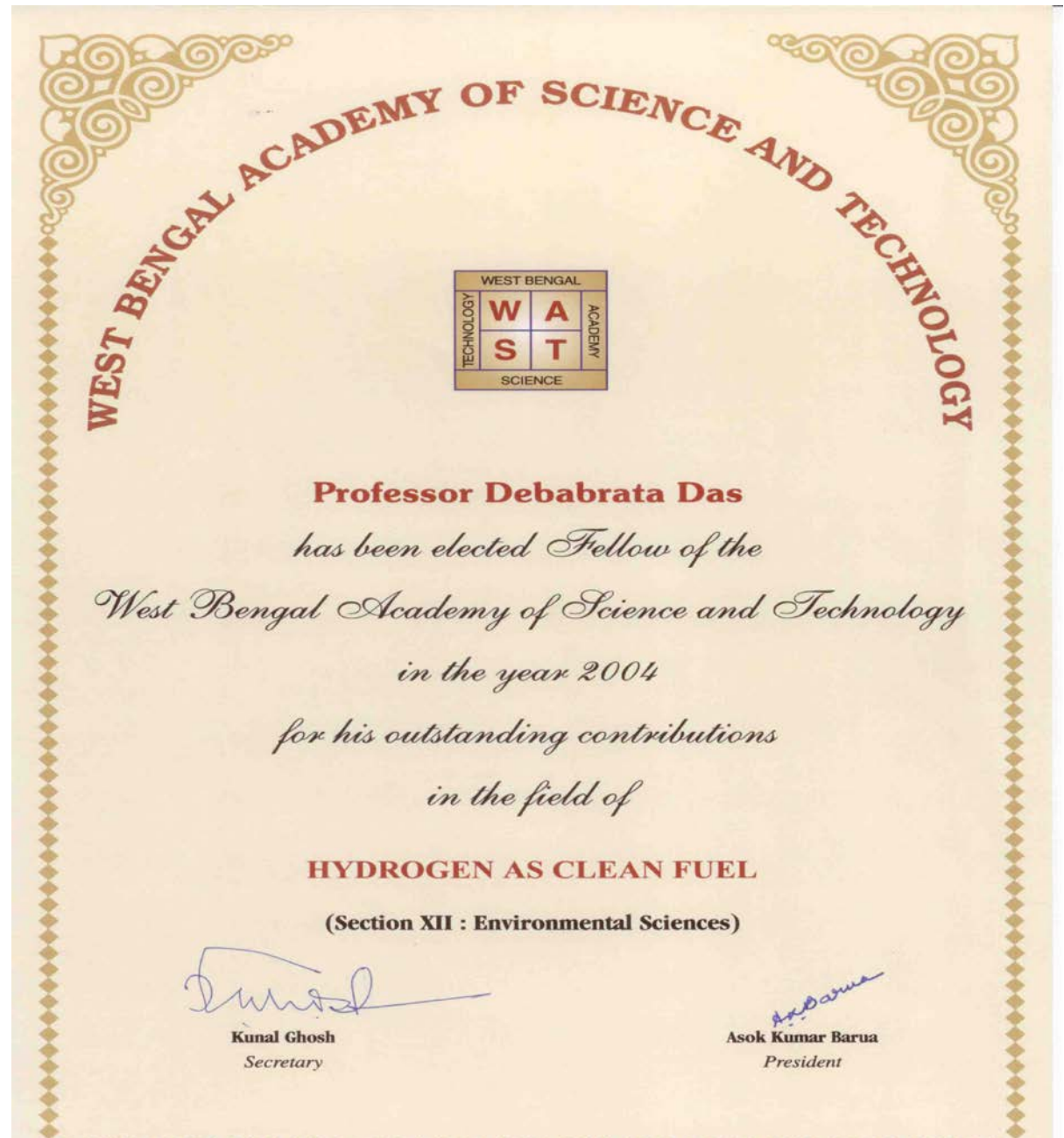
Fellow of International Association of Hydrogen Energy (IAHE) 2016



Fellow of Biotechnology Research Society (BRSI) 2011



**Fellow of West
Bengal Academy of
Science and
Technology
2004**



Fellow of the Institute of Engineers (India) 2012

The Institution of Engineers (India) 12100796

F-117324-5

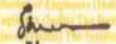
The Institution is pleased to elect

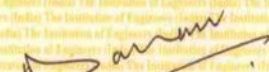
DEBABRATA DAS
as
Fellow

on the **Twenty Fifth** day of **August** **2012**

In witness whereof the said Institution has caused its Common Seal to be
affixed this **Twenty Fifth** day of **August** **2012**




President


Secretary and Director General

Awards

Akita Mitsui Award 2008

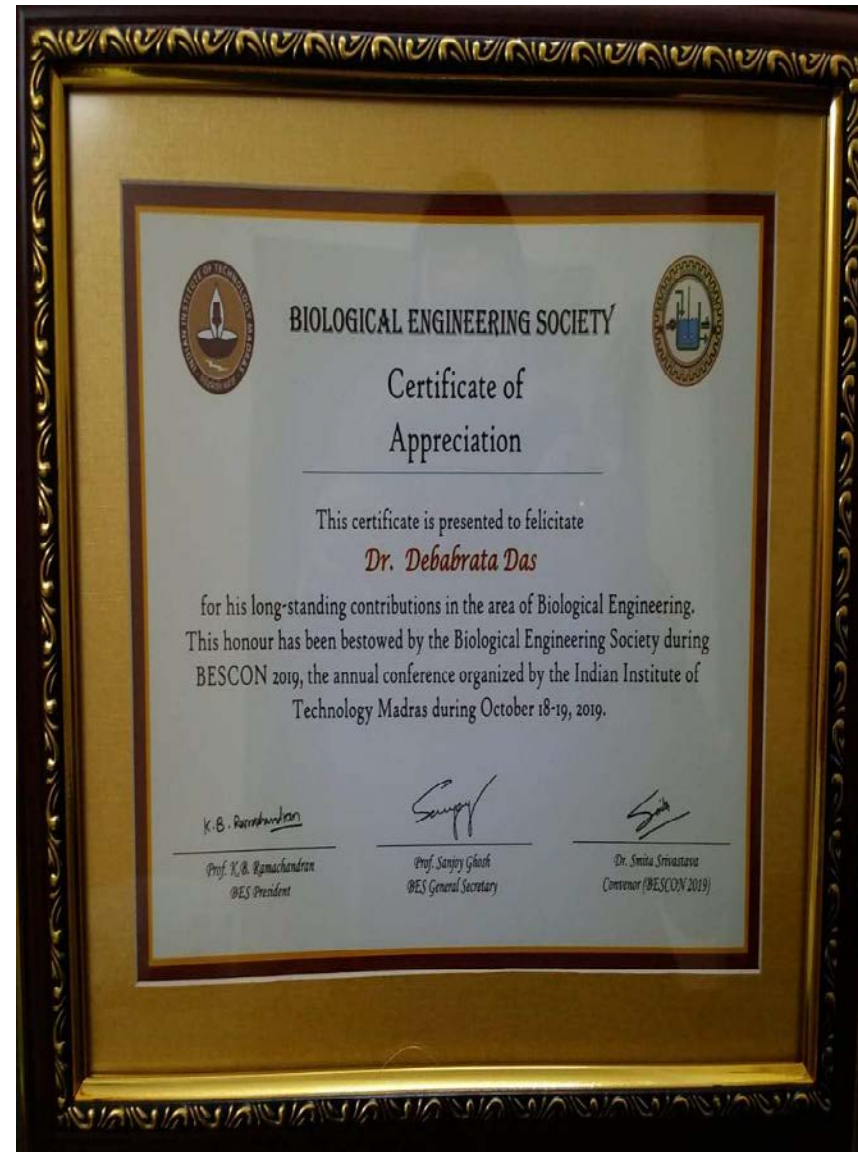


Malaviya Memorial Award 2013



Felicitatation

Felicitation by BESCON 2019



Technology Licence Agreement with M/s. Dhampur Sugar Mills Ltd.



পশ্চিমবঙ্গ পশ্চিম বঙ্গাল WEST BENGAL

AA 855633

TECHNOLOGY LICENSING AGREEMENT

THIS AGREEMENT is made and entered into on the 3rd day of May 2019 by and between

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, an academic institute of national importance and a statutory body existing under the provisions of the Indian Institute of Technology (Kharagpur) Act, 1961 having its main campus and administrative office at Kharagpur 721302, India (hereinafter referred to as the "Licensor")

AND

M/s Dhampur Sugar Mills Ltd. a company formed and existing under the provisions of the Companies Act, 1956 having its registered office at Dhampur in District Bijnor in the State of Uttar Pradesh, represented by its Director Sri Vijay Goel (hereinafter referred to as the "Licensee")

WHEREAS

1. Dr. Debabrata Das, Visiting Professor, Department of Biotechnology, along with Prof. Subhabrata Ray, Department of Chemical Engineering (hereinafter the inventors) belonging to the Licensor have developed a unique technology for producing "Biohydrogen production" (Indian Patent no. 212605) from distillery effluent (spent wash of the distillery)" (referred to and

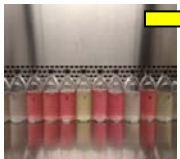
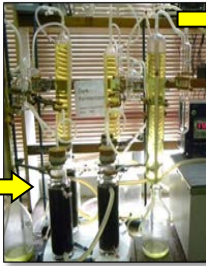


Facilities created at

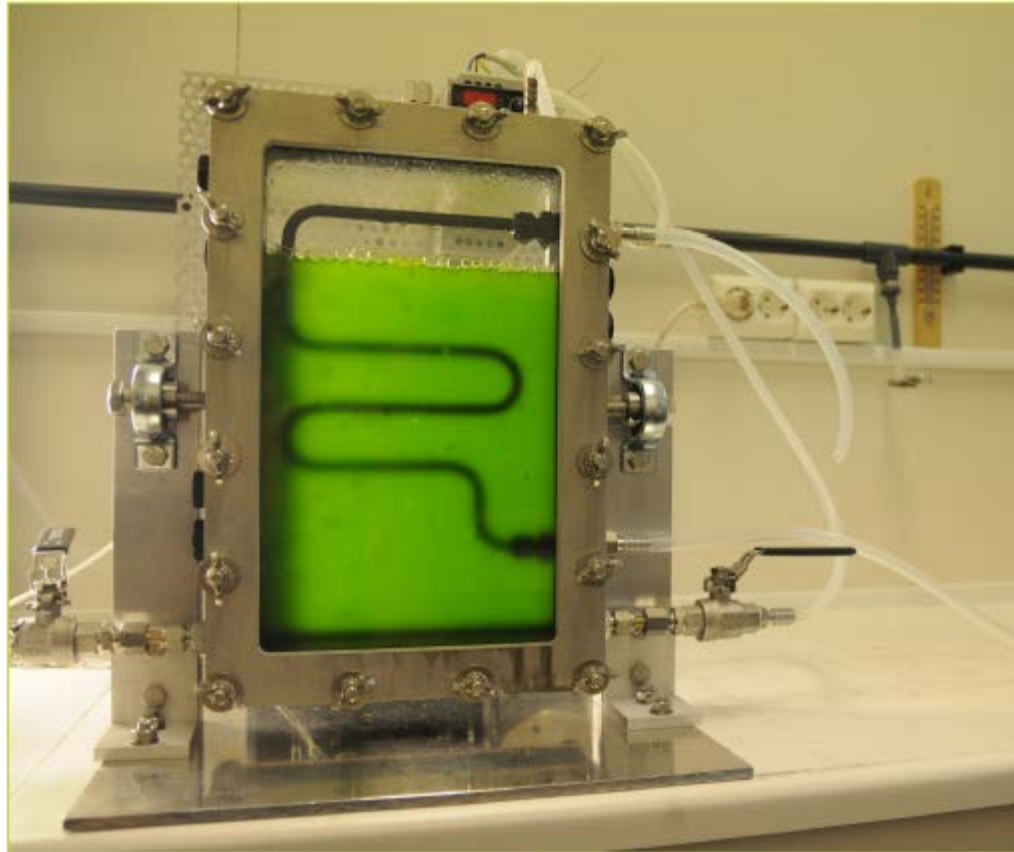
Bioprocess Engineering Laboratory

IIT Kharagpur

Lab scale to Pilot scale



Flat panel photobioreactor with controller developed at IIT Kharagpur in collaboration with Oslo University, Norway



20 L & 1 L Custom make Immobilized Bioreactor for Biohydrogen production





UASB reactor



20 L Airlift bioreactor

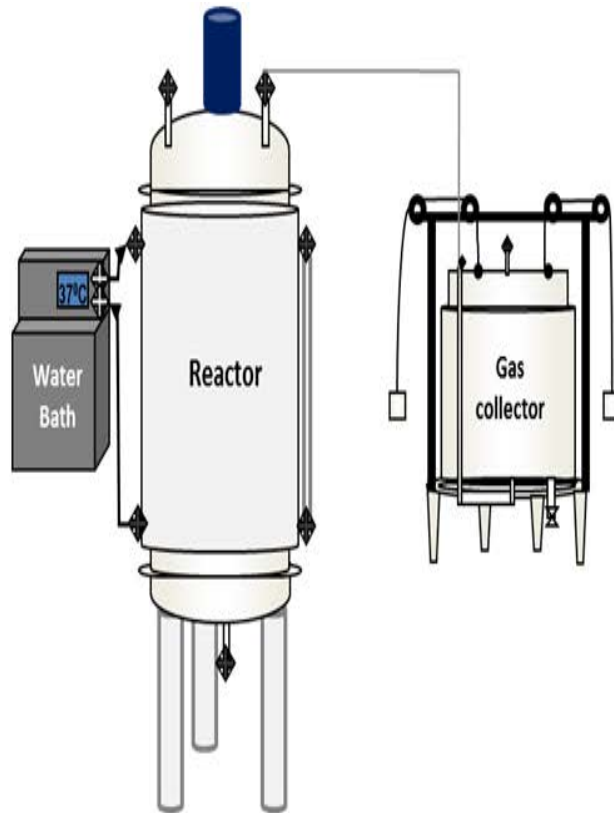


Annular Photobioreactor



Helical photobioreactor

50 L Custom make Bioreactor



800 L Custom make Immobilized Bioreactor



10,000 L Biohydrogen Pilot Plant (a); Top view of feed tank 1 and 2 (b);
and Top view of gas collection tank and system (c)



Visit of Director, IIT Kharagpur to the 10,000 L Biohydrogen Pilot Plant



Visit of Industrial personals



Mr. Bijan Nag, IFB Agro Industries



Dr. D. K. Tuli, IOC, Faridabad



Mr. Vijoy Goel, M/s. Dhampur Sugar Mills Ltd.



Dr Vikram M Pattarkine, CEO PEACE USA



Dr. S. Sarkar, Tata Steel Ltd.

Foreigners visit to the Pilot Plant



Prof. Nils-Kåre Birkeland , Univ. of Bergen



Dr. Warren D. Seider, Univ. of Pennsylvania



Prof. Jaana Sorvari, Aalto Univ.



Prof. D. Kuila, North Carolina A&T State Univ.



Prof. Wen-Chien Lee,
National Chung Cheng Univ.



Prof. Greg Martin, Univ. of
Melbourne

Visit of Academicians to the Pilot Plant



Prof. Deepak Pant, Belgium,
Prof. P. P. Kundu, IIT Roorkee



Prof. U.C. Banerjee, NIPER



Prof Chiranjib Bhattacharjee, Jadavpur Univ.



Prof. Ranjana Chowdhury, Jadavpur Univ.



Dr. C. Nag Dasgupta, Amity Univ.



Prof. S. N. Upadhyay, IIT-BHU;
Dr. S. Venkata Mohan, IICT

Students visit to the Pilot Plant



M.Tech. students of Biotech., IIT Kgp



M.Tech. students of Energy Science, IIT Kgp



Dr. A. S. Mathuriya, Sharda University



B.Tech. students of NIT Durgapur

Controlled fermenter by different manufacturers



**BioFlo110, New Brunswick
Scientific, New Jersey, USA**

**KLF 2000, Bioengineering AG,
Switzerland**





19 L and 20 L New Brunswick Fermenters



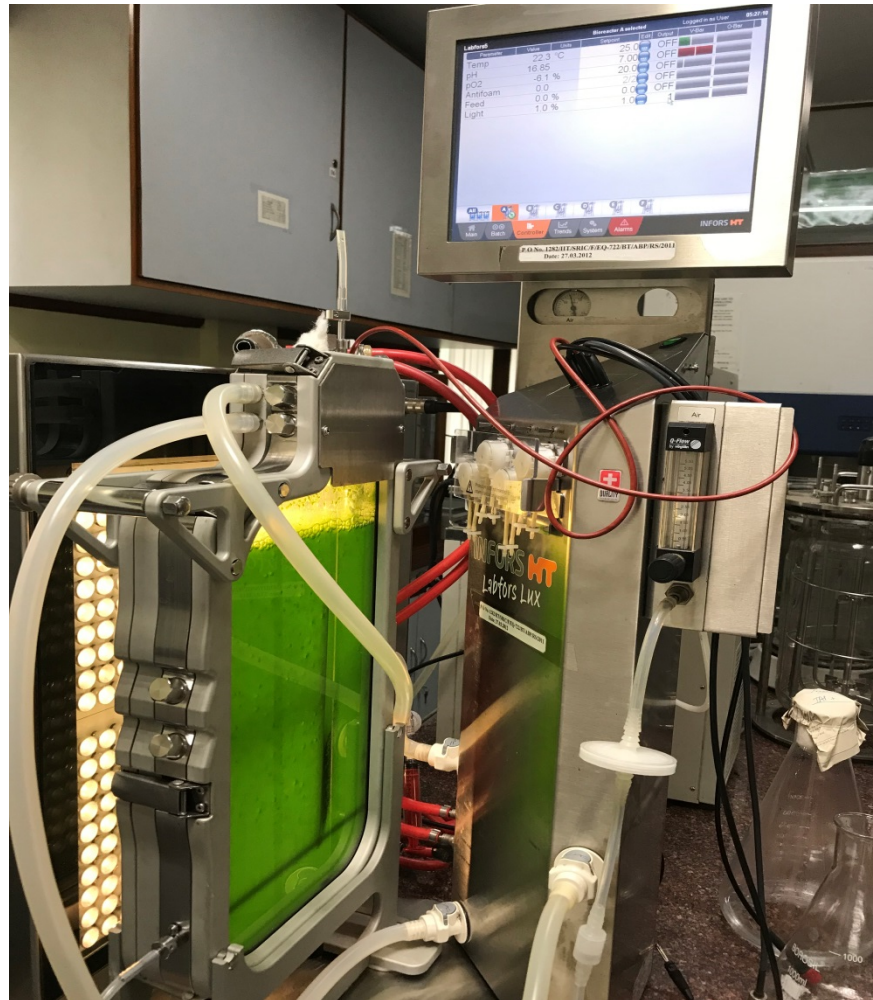
Biojenik Fermenter

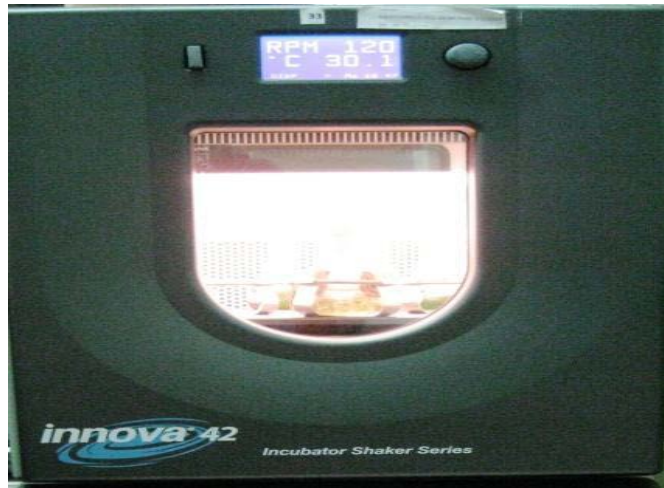


Photo bioreactors of New Brunswick Scientific and Bioengineering AG



INFORS Photofermenter





Innova shaker



Incubator shaker (NBS)

Major instrumentation facilities



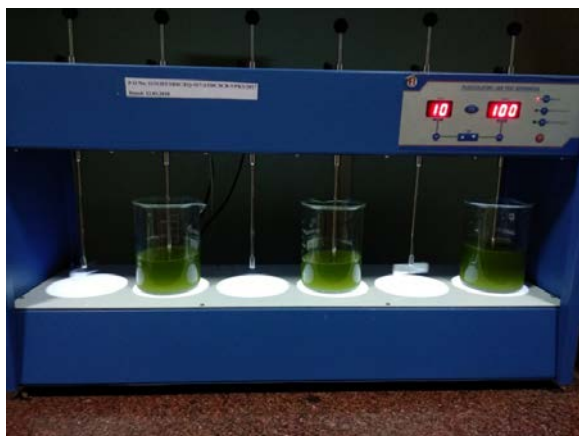
CHNS analyzer
(Elementar, vario Macro)



Bomb Calorimeter
(Parr Instruments)



Zeta potential and particle size analyzer (Malvern)



Flocclator



HACH COD analyzer



Agilent Gas Chromatograph (7890A)



Anerobic glove box



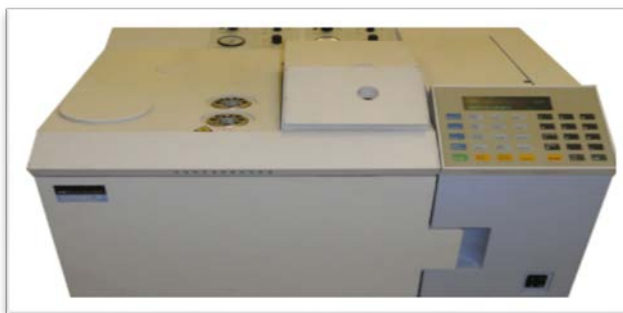
UV/Vis spectrophotometer
(Perkin Elmer Lambda 25)



Biorad GelDoc



Agilent HPLC



Perkin Elmer Gas
Chromatography (7890A)

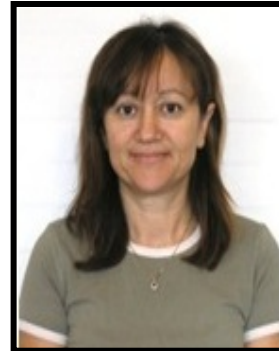
Foreign collaborators



Prof. T. Nezat Veziroglu
University of Miami, Florida



Prof. Thomas Happe
Ruhr University, Germany



Prof. Rene Irini Angelidaki
DTU, Denmark



Prof. James W. Blackburn
Southern Illinois University, USA



Prof. Herald Wiker
University of Bergen, Norway



Prof. Peter Lindblad
Uppsala University, Sweden



Mr. Stig A. Borgvang
Oslo University, Norway

Indian collaborators



Dr. S. Venkat Mohan
IICT, Hyderabad



Dr. Priyanshu M Sarma
Teri, New Delhi



Prof. M. Lakshmi Narasu
JNTUH, Hyderabad



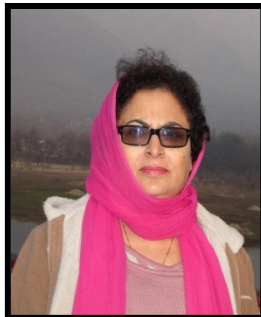
Prof. S. P. Singh
BHU, Varanasi



Dr. V Himabindu
JNTUH, Hyderabad



Dr. Anjana Pandey
Allahabad University, Allahabad



Prof. Dolly Wattal Dhar
IARI, New Delhi



Dr. Sunil Pabbi
IARI, New Delhi



Mr. D. Selvengran
Antenna Foundation, Madurai

Biohydrogen Research Group



Narendra Kumar



Tumpa Dutta



Jayashree Mishra



Namita Khanna



Kaushik Nath



Jose Gilbert J.



Shireen Meher Kotay



Nitai Basak



Shantonu Roy



Chandan Mahata



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Group leader

Present research Group



Preeti Mishra



Balachandar G



Sinu Kumari



Harshita Singh



Vaishali Singh

Microalgal Research Group

Group leader



Prof. Debabrata Das



Kanhaiya Kumar



Bikram Kumar Nayak



Supratim Ghosh



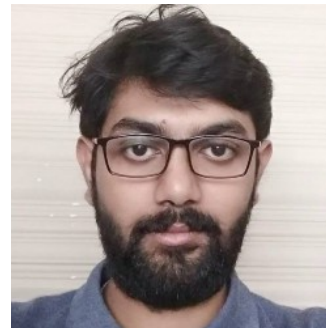
Amrit Lal



Srijoni Banerjee



Harshita Singh



Suman Dhar



Sanjukta Banerjee

Microbial fuel cell Research Group

Group leader



Prof. Debabrata Das



Mohan Yama



Soumya Pandit



Ramya Veerubhotla



Jhansi L. Varanasi

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FREE**

Prof. Debabrata Das

Department of Biotechnology
IIT Kharagpur

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https://swayam.gov.in/nd1_noc20_bt21/preview

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**SWAYAM NPTEL
COURSE ON**

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BIOTECHNOLOGY**

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Course Duration: 12 Weeks

Course Start Date: July 20, 2020

Course End Date: October 09, 2020

Exam Date: October 17, 2020