



First announcement

National Seminar on

Petroleum Biotechnology and Bioenergy

3rd and 4th March, 2017

Organized by

**ONGC-Centre for Petroleum Biotechnology,
Departments of Molecular Biology and Biotechnology**

Co-organized by

Department of Energy, Tezpur University, Tezpur, Assam, India

About the Conference

Climate change and energy security are major challenges that need to be urgently addressed. Assam is known for 'Digboi oil field', one of the oldest in the world. Since then, several other oil fields were explored in different parts of Assam which led to oil spill and subsequent contamination of soil and water. Moreover, increasing dependence on petroleum crude oil imports signify the country's energy insecurity and also oil production in India have been struggling with output decline in the existing oil fields. Bio-remediation of hydrocarbon pollutants and enhanced oil recovery are the two major burning issues of petroleum industry. Microbial enhanced oil recovery and biorefining are promising alternatives to combat these issues.

On the other hand, growing concerns on climate change and its adverse affects is forcing countries world over to shift to sustainable biofuels like ethanol, algal biodiesel, biobutanol, bio hydrogen, etc. Bioenergy is already making a substantial contribution to meet global energy demands. This National seminar on 'Petroleum Biotechnology and Bioenergy' aims at convening researchers and students from across the country for deliberation on recent advances made in the fields of energy biosciences and petroleum biotechnology.

Abstracts are requested from the two broad areas of petroleum biotechnology and bio energy.

Patron:

Prof. Mihir Kanti Chaudhuri, Vice Chancellor, TU

Organizing Chairman:

Prof. A.K. Mukherjee, Head, ONGC-CPBT,
Dept. of MBBT, TU

Organizing Secretaries:

Dr. Manabendra Mandal, Dept. of MBBT, TU
Dr. Rupam Katak, Dept. of Energy, TU

Advisory Committee:

Dean, School of Sciences, TU;
Dean, Research and Development, TU;
Basin Manager, ONGC, Jorhat
Head, Dept. of MBBT, TU;
Head, Dept. of Energy, TU;
Head, INBIGS, Jorhat;
Prof. B. K. Konwar, Dept. of MBBT, TU;
Prof. S. Baruah, Dept. of MBBT, TU
Prof. K. K. Baruah, Dept. of EVS, TU;
Prof. K. P. Sarma, Dept. of EVS, TU;
Prof. D. C. Baruah, Dept. of Energy, TU;
Prof. D. Deka, Dept. of Energy, TU.

Local organizing committee member: All faculty members of Departments of MBBT and Energy, Tezpur University.

Address for correspondence: **Organizing Secretaries, Departments of MBBT and Energy**
Email: TUppb2017@gmail.com

The Host

Established in 1994, Tezpur University, a Central University, is known for its quality of education and research in the frontier areas of science and technology. Based on the achievement in teaching, research and other co-curricular activities the Presidential award for the best central university of the country for the year 2013-15 has been awarded. It is well connected by air, roads and rail from Guwahati. The world-famous tourist attractions Kaziranga National Park, Orang National Park, and Bhalukpong Angling Spot are just one-hour drive from Tezpur.

Dept. of MBBT, established on 24th July, 1997, has been recognized by the DBT, Ministry of S&T. Govt. of India. The objective of the Department is to contribute towards the emerging areas of basic and applied Life Sciences and to create trained manpower in the field of Molecular Biotechnology. The ONGC-Centre for Petroleum Biotechnology (ONGC-CPBT) at the Dept. of MBBT was established in 1999 with financial support from the ONGC which was finally shaped into a permanent centre on 2010. The goal of the centre is to conduct research in the field of petroleum biotechnology and develop skilled human resource. Department of Energy started in 1996, with an aim to produce manpower pool in the field of energy, develop new and efficient energy conversion technologies, R & D and extension activities in diverse areas of energy. The thrust areas of research are Biomass energy, Solar energy, Hydro-energy, Energy-Environment interaction and Energy Conservation and Management.

Registration Fee:

Delegates:	Rs. 1000.00
Research scholars / students:	Rs. 600.00
Industrial delegates:	Rs. 2000.00

Important Dates and Information:

Last date of abstract submission:	10 th Feb, 2017
Last date of registration:	28 th Feb, 2017
Last date of full paper submission:	20 th Feb, 2017

Accommodation: Limited accommodation at TU Guest House on payment basis subject to availability. Good hotels (3 Star) are available at Tezpur town.



Department of Molecular Biology and Biotechnology



Department of Energy



ONGC-CPBT Centre



Administrative Building

**National Seminar on
Petroleum Biotechnology and Bioenergy**

3-4 March, 2017

Registration form

Name: Prof./Dr./Mr./Mrs.....

Designation:.....Age:.....Sex:.....

University/Organization:.....

Department:.....

Address:.....

Postal Code:.....City:.....Country:.....

Telephone:.....Mobile:.....Fax:.....

Email:.....

Accommodation required:.....

Amount of bank draft enclosed:.....


Name of the bank:.....DD. No and date:.....

***Registration fee: DD should be in favor of Registrar, Tezpur University, payable at State Bank of India, Tezpur University branch.**

Participating in the Seminar as: Presenting author/co-author/participant/

If presenting poster, title of the poster:.....

The authors shall be intimated about its status (acceptance/rejection) by 15 Feb., 2017. The authors of accepted abstracts shall be then requested for registration and sending the full paper. The presented full papers shall be evaluated by reviewers for final acceptance for inclusion in the seminar proceedings (to be published in the form a book with ISBN).


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Department of Energy
Tezpur University

Date:.....

Signature of the participant



A Report on the ONGC, India & ONGC-CPBT, Tezpur University sponsored
National Seminar on “Petroleum Biotechnology and Bioenergy”

March 3-4, 2017

A 2-day long National Seminar, Petroleum Biotechnology and Bioenergy, was organized at Tezpur University jointly by the Departments of Molecular Biology and Biotechnology, and Energy during March 3-4, 2017. The Seminar was sponsored by ONGC, India and ONGC-Centre for Petroleum Biotechnology (ONGC-CPBT). The seminar received wide attention of a good number of Researchers from all over the country. A total of nineteen number of research papers were selected for oral presentation by researchers from various HEIs and Industrial Houses.

The Seminar started with the inaugural programme on March 3, 2017, and the welcome address was delivered by the Chairman of the National Seminar. The Inaugural programme was also attended by the Head, Institute of Biotechnology & Geotectonic Studies (INBIGS), ONGC, at Jorhat, Assam. The Basin Manager, ONGC, Jorhat delivered the inaugural address. The Vice Chancellor, Tezpur University was present in the occasion as the Chief Guest of the function.




Photo: Felicitation of the Guests in the Inaugural programme



Photo: Speech by the Basin Manager, ONGC in the Inaugural Programme

There were altogether four technical sessions, Technical Session – I was chaired by Mr. M. Ayyadurai, Basin Manager, ONGC with Prof. A.K. Mukherjee as the Co-Chairperson. Three papers were presented by Academicians and Industry persons from NEHU, Shillong, Assam University, Silchar, and ONGC, Jorhat. A Poster session immediately followed the first Technical Session.


Head
Department of Energy
Tezpur University


Organizing Secretary



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The second day (March 4, 2017) of the Seminar started with the Technical Session – II with Prof. A.K. Singh from NEHU, Shillong and Prof. V.S. Moholkar, IIT Guwahati as Chairpersons. A total of four papers were presented orally by Researchers from IIT Guwahati, Tezpur University and an Industry person from ONGC, Jorhat.

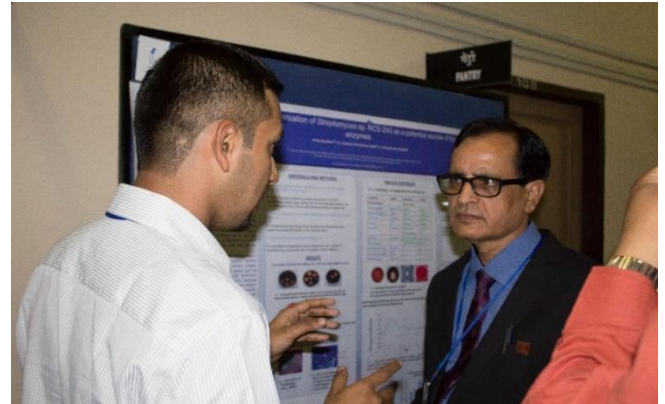


Photo: Poster presenters presenting their posters to the participants/audience of the Seminar

The third Technical Session was chaired by Prof. K. Pakshirajan from IIT Guwahati and Dr. P. Kalita was the Co-Chairperson. Six papers presented in this session orally by Researchers/Academicians from IIT Guwahati, NIT Silchar, Tezpur University, Assam University and Dibrugarh University.



Photo: A Technical session is in progress

Photo: A section of participants after closing ceremony

The fourth and the last Technical Session started after lunch and was chaired by Dr. S.C. Pandey, Head, INBIGS, Jorhat and Prof. R. Kataki, Tezpur University was the Co-chairperson. Six Researchers belonging to Assam University and Tezpur University presented their papers orally in this session. The seminar ended with a closing ceremony attended by all participants.

Dileep h
Head
Department of Energy
Tezpur University

Rupakanta
Organizing Secretary



Programme schedule of the National Seminar

ONGC & ONGC-CPBT, TU sponsored National Seminar on Petroleum Biotechnology and Bioenergy

ONGC, India & ONGC-CPBT, TU sponsored National Seminar on "Petroleum Biotechnology and Bioenergy", 3rd-4th March, 2017

Venue: Seminar Hall, Academic Building V, Tezpur University

Organized by: ONGC-CPBT, Department of Molecular Biology and Biotechnology & Department of Energy, Tezpur University

Day 1: 3rd March, 2017

Registration 2:00 pm to 3:00pm	
Inaugural Session (3:00 pm – 3:40pm)	
03:00 – 03:05 pm	Welcome address by Chairman, National Seminar
03:05 – 03:10pm	Felicitation of dignitaries
03:10 – 03:15 pm	Lighting of inaugural lamp by the dignitaries
03:15 – 03:20 pm	Address by Head, INBIGS, Special invitee
03:20 – 03:35pm	Inaugural lecture by Basin Manager, Guest of Honour
03:35 – 03:50pm	Address by Chief Guest, VC, TU
03:50 – 03:55pm	Release of Abstract Book
03:55 – 04:00pm	Vote of Thanks by Organizing Secretary
High Tea Break 04:00 – 04:20 pm	

Technical Session – I: Chairperson: Mr. M Ayyadurai, Basin Manager, ONGC
Co-Chairperson: Prof. A. K. Mukherjee, TU

Talk	Time	Title and Speaker
IL – I	04:20 – 04:45 pm	Bacterial abundance and dynamics in crude oil polluted Sediments undergoing bioremediation Prof. A. K. Singh, NEHU, Shillong
IL – II	04:45 – 05:05 pm	Innovative endeavor in environmental protection through mixed microbial diversity- A case study of bioremediation at ONGC, Jorhat Dr. G. C. Boruah, ONGC, Jorhat
OL – I	05:05 – 05:25 pm	Rhizoremediation- a potential strategy for the <i>in situ</i> removal of polyaromatic hydrocarbons Dr. P. Pandey, AU, Silchar
	05:25 – 06:25 pm	Poster Session
Dinner at guest house (07:30 – 09:00 pm)		

Dileep
Head
Department of Energy
Tezpur University

Organized by Department of Molecular Biology and Biotechnology & Department of Energy, TU, 3-4 March 2017



Programme schedule of the National Seminar

ONGC & ONGC-CPBT, TU sponsored National Seminar on Petroleum Biotechnology and Bioenergy

Day 2: 4th March, 2017

Technical Session – II: Chairpersons Prof. A. K. Singh, NEHU, Shillong
Prof. V. S. Moholkar, IITG, Guwahati

Talk	Time	Title and Speaker
IL –III	09:30–09:55 am	Simultaneous oilfield wastewater treatment and lipid accumulation by <i>Rhodococcus opacus</i> for biodiesel production Prof. K. Pakshirajan, IITG, Guwahati
IL –IV	09:55–10:20 am	Significance of microbial anomaly in hydrocarbon exploration: A case study in Borholla-Mekrong Titabor area Dr. S. K. Pegu, ONGC, Jorhat
IL –V	10:20–10:45 am	Proteomics approach to reveal the polyromatic hydrocarbons degradation pathways operate in hydrocarbon degrading bacteria with a specific example of <i>Pseudomonas aeruginosa</i> Prof. A. K. Mukherjee, TU, Tezpur
IL –VI	10:45–11:05 am	Investigation of hydrodynamics and heat transfer characteristics with biomass blends in a pressurized circulating fluidized bed Dr. P. Kalita, IITG, Guwahati

Tea Break 11:05–11:25 am

Technical Session –III

Chairpersons : Prof. K. Pakshirajan, IITG, Guwahati
Co-Chairperson: Dr. P. Kalita, IITG, Guwahati

Talk	Time	Title and Speaker
IL –VII	11:25–11:50 am	Physical insight into ultrasound-assisted biodesulfurization Prof. V. S. Moholkar, IITG, Guwahati
OL –II	11:50–12:10pm	Comparative study of engine performance between biodiesel and hybrid biofuel prepared from castor seed oil Mr. Madhurjya Saikia, Dibrugarh University
OL –III	12:10–12:30pm	Rhizosphere association of <i>Pseudomonas aeruginosa</i> PDB1 facilitated the reduction of stress induced by pyrene in <i>Jatropha curcas</i> Dr. L. Paikhomba Singha, AU, Silchar
OL –IV	12:30–12:50pm	A dirhamnolipid biosurfactant produced by <i>Pseudomonas aeruginosa</i> isolated from crude oil-contaminated soil sample enhances the oil recovery Mr. Debananda Gogoi, TU, Tezpur
OL –V	12:50–01:10 pm	Characterisation of biochar derived from <i>aeglemarmelos</i> shell Dr. M. Bardalai, TU, Tezpur
OL –VI	01:10–01:30 pm	Light hydrocarbon fuel from co-pyrolysis of mixed waste plastics and heavy oil in a laboratory scale by using batch reactor Dr. Pamreishang Kasar, NIT Silchar

Lunch Break 01:30–02:30pm

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Organized by Department of Molecular Biology and Biotechnology & Department of Energy, TU, 3-4 March 2017



Programme schedule of the National Seminar

ONGC & ONGC-CPBT, TU sponsored National Seminar on Petroleum Biotechnology and Bioenergy

Technical Session-IV: Chairperson: Dr.S.C Pandey Head, INBIGS
Co- Chairperson: Prof. R. Kakati, TU

OL -VII	02:30-02:50 pm	A Simulation study on slurry reactor based bioremediation system Dr. T. Medhi, TU, Tezpur
OL -VIII	02:50-03:10 pm	Benzo(a)pyrenedegradation by heavy metal resistant rhizospheric bacteria <i>Serratia</i> sp. S217 isolated from petroleum contaminated Mr.RhITU Kotoky, AU, Silchar
OL -IX	03:10-03:30 pm	Kinetics of biomass pyrolysis: A comparative review with relevant case studies Ms.Ruprekha Saikia, TU, Tezpur
OL -X	03:30-03:50 pm	Upper Assam oil shales: a detailed physicochemical and thermochemical study Mr.Bhargav Baruah, TU, Tezpur
OL -XI	03:50-04:10 pm	Dark fermentative hydrogen production by a newly isolated <i>Staphylococcus epidermidis</i> B-6 from xylose and rice straw hydrolysate Dr. M. Mandal, TU, Tezpur
OL -XII	04:10-04:30 pm	Deep desulfurization of DBT, its derivatives and diesel oil by <i>Chelatococcus</i> sp. Dr. N. K. Bordoloi, TU, Tezpur
04:30-04:45 pm (Closing Ceremony)		

Dileen h
Head
Department of Energy
Tezpur University

Organized by Department of Molecular Biology and Biotechnology & Department of Energy, TU, 3-4 March 2017



Attendance sheet of the Presenters/participants

LIST OF PARTICIPANTS FOR POSTER PRESENTATION :-

Sl. No	NAME	INSTITUTE	ID Detail	SIGNATURE	REMARKS
1.	Dr. Nabajyoti Saikia	Assam Kaziranga University	522570 02/03/17		
2.	Dr. Lalit Goswami	IITG			
3.	Mr. Bichitra Bikash	Assam Down Town University	577710 27/02/17		Deputy of Bichitra Bikash
4.	Mr. Madhujyoti Saikia	DUIET, Dis	- Do as usual -		Received on behalf of M. Saikia Jnanesh Deka.
5.	Mr. Abhishek Chanda	TU			
6.	Mr. Ankur Das	T.U			
7.	Mr. Manas jyoti Borah	T.U			
8.	Mr. Pritam Baro'han	T.U			
9.	Ms. Neerajyoti Baro'hai	T.U			
10.	Mr. Debastis Sut	T.U.			
11.	Manes Pratim Das	Assam Down Town University	577709 27/02/17		
12.	Indee Bhuvan Rabha	- DO -	577711 27/02/17		
13.	Manabendra Narayan Deka	T.U			

Jnanesh Deka
Department of Energy
Tezpur University



Attendance sheet of the Presenters/participants

LIST OF PARTICIPANTS FOR ORAL PRESENTATION :-

Sl. No.	NAME	INSTITUTION	DD Detail	SIGNATURE	
1.	Prof. Piyush Choudhary	AU			
2.	Dr. Tapas Mehta	TU			
3.	Dr. Manabendra Mandal	TU			
4.	Dr. Naba K. Boro	TU			
5.	Mr. Rishi Kotoky	AU			
6.	Mr. Madhurya Saitia	DUIET, Dibrugarh	250028 (21/2/17)	Received on behalf of M Saitia Tongbing Lyng	
7.	Mr. Samreshang Kasar	NIT Sitchar	391377 (21/2/17)		
8.	Mr. L. Paikharma Singha	AU	051512 22/02/17		Speed post 25776954837IN (DD received on 03/03/17)
9.	Mr. Debaraj Gogoi	TU			
10.	Mr. Manoj Boro	TU	806035, ANB (27/2/17)		Ab on 3rd RS. 1000/-
11.	Ms. Ruprekha Saitia	TU			
12.	Mr. Bhargav Baruah	TU			

Department of Energy
Tezpur University



Attendance sheet of the Presenters/participants

List of PARTICIPANTS :-

Sl No	NAME	INSTITUTE	DO Details	SIGNATURE	REMARKS
1.	Bansha Bhamadsway	T.U	048747 23/2/17		
2.	Emson Raj Phenglo	DU	250031 21/2/17		
3.	Himanga Kausik	DU	195755 23/02/17	Himanga	
4.	Hiyasmita Mahanta	DU	250030 21/2/17	Hiyasmita Mahanta	
5.	Indu Bhuzar Rabha	Assam Donor Trust University			In ORAL Presentation
6.	Iranesh Deka	DU	250036 22/2/17	Iranesh Deka	
7.	Jydeep Singupta	DU	250029 21/2/17	Jydeep Singupta	
8.	Jupitara Baruah	DU	250035 22/2/17	Jupitara Baruah	
9.	K.K. Hazarika	TU			
10.	Anupam Saikia	TU			
11.	Kaberi Rajkumar	Assam Donor Trust University	096403 27/02/17	Kaberi Rajkumar	spica prof E57466079271N DU (Received on 6/3/17)
12.	Kunal Kanti Roy	DU	250032 21/2/17	Kunal Kanti Roy	
13.	Longsing England	DU	250026 21/2/17	Longsing England	
14.	Manas Pratim Das	Assam Donor Trust University			ORAL
15.	Manas jyoti Kalita	SU			
16.	Mousumi Bora	Assam Kazungpa University	385232 27/02/17	Mousumi Bora	- DO (Received on 6/3/17)

Tezpur University
Department of English
Tezpur University



Attendance sheet of the Presenters/participants

Sl No	Name	Institute	DD Details	Signature	Remarks
✓ 17	Niharika Doley	GU	171024 16/02/17	171024 N. Doley 16/02/17	
✓ 18	P. Musoi	TU			
✓ 19	Plabita Prabhakika	GU	141025 16/02/17	P. Prabhakika	
✓ 20	Preetama Sarma	GU	171023 16/02/17	Preetama	
✓ 21	Priyam Alomyan	DU	250037 22/2/17	Priyam Alomyan	
✓ 22	Rashmi Kalita	Assam Kaziranga University	385233 27/01/17	Rashmi Kalita	- 30 - (DR received 13/17)
✓ 23	Rashmi Rekha Boruah	TU	048747 23/2/17	Rashmi Rekha Boruah	
✓ 24	Samitash Brahma	DU	250038 22/2/17	Samitash Brahma	
✓ 25	Simanta Kalita	GU	171027 16/02/17	Simanta Kalita	
✓ 26	Tabassum Parbezy Bora	DU	250027 21/2/17	Tabassum Parbezy Bora	
✓ 27	Upasana Das	GU	171027 16/02/17	Upasana Das	
✓ 28	Kunal Kanti Roy	DU	250032 21/2/17	(mentioned above)	

(Signature)
 Head
 Department of Energy
 Tezpur University