



ASSAM SCIENCE AND TECHNOLOGY UNIVERSITY

(A State University of Government of Assam constituted by "Assam Science and Technology University Act, 2009")

Tetelia Road, Near AEC Campus, Jalukbari, Guwahati-781013

NO: ASTU/CRC/2017-18/340/ 7411

Date: - 09/01/2018

From: Prof. Dhiraj Bora, Vice Chancellor
Assam Science and Technology University, Guwahati

To: Prof. Bhagawat Pran Dwerah
Gauhati university

Subject: Invitation for the first **Consultative Research Committee (CRC)** meeting on 18/01/2018 at 2.30 PM

Sir/Madam,

With due respect, I would like to inform you that the the University has planned to undertake high quality teaching and advanced research in frontier areas of Science and Technology. The mission of the university is to provide an international standard research platform to the young generation of the region to carry out different research activity in some thrust areas related to Assam or entire N-E region. Keeping this in mind, ASTU has started to establish a central research hub (CRH) at the university campus. The CRH is mainly consisted of four different centres namely (1) Centre for Innovation, (2) Centre for Sophisticated Instrumentation, (3) Centre for Education Technology and (4) Centre for Engineering Studies.

It is well known to all that the weather study is become very essential for human society. The braided rivers like Brahmaputra form an important topic of study of many researcher works because frequent channel migration and rapid bank erosion pose considerable problems. Most of the studies pertain to the parametric analysis of hydrographic data and fraught with ambiguity owing to spatial and temporal variability, measurement error and many other parameters. Through a number of approaches have been explored, but the behaviour of braided river including mighty Brahmaputra is not well understandable. So, there is a need to develop more sophisticated code to simulate the complex channel geometry of the Brahmaputra. ASTU is planning to initiate the research in the field of weather study and simulation for river to develop some simulation code to understand the behaviour of weather and river.

As per the resolution no 32 of the minutes of 18th Executive Council meeting held on 14/07/2017, a Consultative Research Committee (CRC) has been formed to discuss the future research activities in the field of Industrial Plasma Technology. I am happy to inform you that you are nominated as a member of the CRC. We plan to organize the first meeting to discuss about the forthcoming activities on 18/01/2018.

We, hope that you will accept our nomination to become a member of CRC, ASTU and actively participate. Also, we would like to invite you to attend the first CRC meeting on 18/01/2018 at 2.30 PM at the university campus. This is for your kind information and necessary action.

Thanking You.

Yours faithfully

Dhiraj Bora
(Dhiraj Bora)

Assam Science and Technology University

NO: ASTU/CRC/2017-18/340/ 7412-15
Copy to: -

Date: - 09/01/2018

1. The Registrar, ASTU, Guwahati for necessary action.
2. The Finance and Accounts Officer, ASTU, Guwahati for necessary information.
3. Person concerned.
4. Office file, Assam Science and Technology University.

Dhiraj Bora

Assam Science and Technology University



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Tetelia Road, Jalukbari, Guwahati - 13

Minutes of the First Consultative Research Committee (CRC) meeting

Call to order

A meeting of Consultative Research Committee (CRC) meeting for *INDUSTRIAL PLASMA TECHNOLOGY* was held at ASTU Conference hall on 04/01/2018 at 11.00 AM.

Attendees

Prof. Dhiraj Bora, VC, ASTU
Prof. K. S. Goswami, CPP-IPR, Sonapur
Prof. Alikha Khare, IIT-Guwahati
Prof. H. Bailung, IASST, Guwahati
Dr. M. Kakati, CPP-IPR, Sonapur
Dr. Bharat Kakati, ASTU
Dr. N. Das, Registrar, ASTU
Dr. D. Goswami, FAO, ASTU

Agenda of Meeting

The agenda of the meeting was

1. Welcome speech by Prof. Dhiraj Bora, VC, ASTU, Assam.
2. Introduction of members
3. About Central Research Hub by Prof. Dhiraj Bora, VC, ASTU, Assam.
4. Proposed research activities of ASTU by Dr. Bharat Kakati, ASTU, Assam.
5. Suggestions from CRC members for future research activities.
6. Discussions about the inclusion of new certificate/diploma courses on Industrial plasma technology
7. Conclusion

Discussions

1. The Hon'ble vice chancellor, Prof. Dhiraj Bora addressed the committee members and described the different on-going activities of ASTU, Assam. The Hon'ble vice chancellor, Prof. Dhiraj Bora mentioned about the responsibility of the Consultative Research Committee (CRC).
2. The Hon'ble vice chancellor, Prof. Dhiraj Bora described the objective of the establishment of central research hub (CRH) and the proposed activities in near future for socio-economic development of the region. Also, he informed that establishment of a CRH at ASTU will provide a platform to the young generation to carry out different research activities.
3. Dr. B. Kakati, ASTU described in detail about the research proposals, submitted to different organizations and other proposed activities under CRH. The activities are listed below:
 - (a) Development of an advance iPVD reactor.
 - (b) Effect of low temperature plasma processing on locally available rice at Assam
 - (c) Development of high gradient magnetic separation technique for water purification
 - (d) Plasma pyrolysis technique for municipal waste management
4. All the CRC members had given suggestions on the above works and assured that they will actively participate on the research activities for successful completion.
5. Prof. A. Khare suggested to use ellipsometry technique instead of crystal thickness monitory system for in-situ measurement of thickness of the thin film for better accuracy.
6. Dr. M. Kakati suggested to do some initial experiment about the high gradient magnetic field for water purification at CPP-IPR, Sonapur.
7. The CRC members discussed about a short time certificate course. They assured that they will help for successful completion of such courses.

Adjournment

The meeting was adjourned at 1:00 pm.