

# ◀ RETROSPECT



A quarterly newsletter of CED

Volume 1, Issue 4, December, 2018

Special Issue: ICID 2018

## বিভাগীয় সঙ্গীত

সুৰ আৰু কথা: ড° অৰূপ কুমাৰ শৰ্মা,  
প্রাক্তন ছাত্ৰ, অসামৰিক অভিযান্ত্ৰিক বিভাগ  
যোৰহাট অভিযান্ত্ৰিক মহাবিদ্যালয়

উনৈচশ যাঠিৰ শুভ লগনত  
পূব ভাৰতৰ যোৰহাট চহৰত-  
মংগল ধ্বনিৰে বাজি উঠিছিল  
প্রগতি বথৰ সংকেত ঘণ্টা,  
অভিযান্ত্ৰিক সাধনাত নামিছিল  
অসামৰিক শত' অভিযন্তা ॥

মহাকাশৰ ন-প্রযুক্তিৰে  
ধৰাৰ বুকু জৰীপ কৰি  
প্রগতিৰ নক্সা আঁকো,  
দুৰ্বল মাটিও সবল কৰি  
পাহাৰ নদীৰ বাধা নেওচি  
পৰিবহনৰ সাজো সাঁকো,  
যুগমীয়া হয় যাতে  
অভিনবতাৰ এই যাত্ৰা  
আমি অসামৰিক অভিযন্তা ॥

দূৰদৰ্শী চিন্তাধাৰাৰে  
আন্ত:গাঁথনি সজাই-  
কতকিষে নিৰ্মান কৰোঁ,  
বলিয়া বানৰ দুৰ্যোগ নাশি  
জলসম্পদ প্রয়োগেৰে-  
সেউজীয়া পথাৰ গঢ়োঁ,  
সুন্দৰ নিৰাপদ  
পৰিবেশৰ আমি স্ৰষ্টা,  
আমি অসামৰিক অভিযন্তা ॥

## Vision of the Department

The department will be a centre of excellence in creating highly competent civil engineers with professional ethics, social responsibility and entrepreneurial skills for sustainable development.

## Mission of the Department

- To offer quality technical education in undergraduate, post-graduate and doctoral level that enables students in honing their professional skills.
- To provide a congenial, interactive and inspiring environment that enables student to develop innovative ideas, ethical values and entrepreneurial skills.
- To promote research initiatives to address regional and global problems.
- To extend technical expertise to meet industrial and societal needs.

## HOD's message

It gives me immense pleasure to announce that the Department of Civil Engineering of JEC is publishing the third issue of Retrospect, the quarterly newsletter of CED. This issue reflects all the significant events taken place in the department from 16<sup>th</sup> September, 2018 to 31<sup>st</sup> December, 2018.

I wish my best wishes to the advisor and editors of Retrospect for successful future publication of the newsletter.



Prof. Prasanna Kr. Khaund



ICID 2018, Main Gate, JEC

## Advisor:

Dr. Atanu Kr. Dutta  
Associate Professor, CED

## Editors:

Mr. Sulaem Musaddiq Laskar, Mr. Koushik Kalita and Mr. Baharul Hussain  
Assistant Professors, CED

DEPARTMENTAL ACTIVITIES

- A departmental meeting was held on 25<sup>th</sup> September to discuss the road map for conducting the ICID 2018. Different committees were formed and their responsibilities were finalized.
- The second class test for the odd semester was conducted from 3<sup>rd</sup> to 8<sup>th</sup> October, 2018.
- Viva-voce of 3<sup>rd</sup> semester, M.E. was conducted on 4<sup>th</sup> October, 2018.
- A TEQIP-III Sponsored Technical Talk on “Overview of a Building Construction Project” by Experts from Oil India Limited, Duliajan was organized on 1<sup>st</sup> November, 2018. Ms. Swagata Baruah, alumnus of this department and presently SEC(QC) from Oil India Limited was the resource person. The Technical Talk covered part of syllabus for 5<sup>th</sup> Semester Students.
- A TEQIP-III Sponsored Technical Talk on “Planning and Implementation of Construction work in E&P Industry” by Experts from Oil India Limited, Duliajan was organized on 1<sup>st</sup> November, 2018. Mr. S.K. Biswas, GM(P&M) from Oil India Limited, Duliajan was the resource person. The Technical Talk covered part of syllabus for 7<sup>th</sup> Semester Students.
- The third class test was conducted from 5<sup>th</sup> to 12<sup>th</sup> November, 2018.
- Another meeting was held on 29<sup>th</sup> November, 2018 to discuss some important matters on ICID 2018.
- The departmental feedback for faculty and course was taken on 6<sup>th</sup> to 8<sup>th</sup> December, 2018.
- A departmental meeting was held on 15<sup>th</sup> December, 2018 in the civil engineering seminar hall to finalize different committees and student volunteers for successful conduction of ICID 2018 which was organized at Jorhat Engineering college from 21<sup>st</sup> to 22<sup>nd</sup> December, 2018.



*Class Test-III, 2018*



*Inaugural session of one day technical talk covering Part of syllabus*



*Technical talk (Part of syllabus) by Ms. S. Baruah*



*Students at the technical talk covering part of syllabus*



*Departmental meeting*

## FACULTY ACTIVITIES

- Prof. P.K. Khaund was invited as chief guest in the two days' workshop on "Advances in Civil Engineering (AGE 2018)", organized by the department of Civil Engineering, School of Engineering & Technology, Kaziranga University, Jorhat, Assam on 26<sup>th</sup> and 27<sup>th</sup> September, 2018. He delivered an inaugural lecture on Advances in Civil engineering in different disciplines. Dr. Atanu Kr. Dutta, Dr. Arup Bhattacharjee and Mr. Baharul Hussain also delivered expert talks in the workshop.
- Dr. Atanu Kr. Dutta was invited for delivering lecture on "RVS: a tool for Disaster Management" in International Conference on Climate Change Biodiversity and Sustainable Agriculture, 2018 (13-16, December) at Assam Agriculture University, Jorhat.
- Technical paper of Dr. Atanu Kr. Dutta, 'Soil-Structure-Interaction problem in underground pipes - a dynamic approach'; 'Challenges of 3D modelling of the water tank using SAP2000 a case study'; 'Response spectrum analysis including soil fluid structure interaction in concrete gravity dam' were published in CESDOC 2018, AEC, Guwahati on 18<sup>th</sup> and 19<sup>th</sup> December, 2018.
- Technical papers of Dr. Atanu Kr. Dutta, 'Study on dynamic characteristics of elevated water tank' and 'Influence of soil structure interaction in elevated water tank' were published NCRAS 2018, ASTU and IGC 2018 respectively.
- Dr. Atanu Kr. Dutta published popular science article in Assamese bi-annual magazine Aalaap titled "Projuktir Naamat Dharmacharcha: IIT't Vaastushastra".
- Dr. Atanu Kr. Dutta published book review "Istanbul, Srmiti Aaru Mohanagarkhan" in Assamese monthly "Prakash" (Publication Board, Govt. of Assam).
- Prof. Prasanna Khaund presented a technical paper at CESDOC 2018, AEC, Guwahati on 18<sup>th</sup> December, 2018.
- Mr. Baharul Hussain attended a meeting, "Discussion on Assam Startup Policy and Role of Educational Institutions", organized by Industries and Commerce Department, Govt. of Assam on 13<sup>th</sup> September at Guwahati.
- Dr. Achyut Das was awarded Doctor of Philosophy from IIT Delhi on 3<sup>rd</sup> November, 2018. He also presented a technical paper in ICID 2018 held at JEC from 21<sup>st</sup> to 22<sup>nd</sup> December, 2018.
- Mr. Sulaem M. Laskar published a book chapter in "Urbanization Challenges in Emerging Economies", American Society of Civil Engineers.
- Ms. Abhigna Bhatt attended an STTP at MNIT, Jaipur from 23<sup>rd</sup> to 27<sup>th</sup> Dec, 2018 on "Mechanics of Continue".



*Prof. P.K. Khaund as chief guest at AGE-2018, KU*



*Dr. A. Bhattacharjee delivering expert talk at AGE-2018, KU*



*Mrs. A. Bhatt at MNIT attending STTP*

### ACHIEVEMENTS AND ACTIVITIES OF STUDENTS

- Rahul Dutta of B.E. 6<sup>th</sup> semester won 3<sup>rd</sup> prize in the photography competition organized by JORHAT DISTRICT ASSOCIATION in September, 2018. He was also awarded 2<sup>nd</sup> prize in the photography competition organized by an online facebook page "Durga Puja Jorhat" in October, 2018. He was also awarded winning judges prize in the photography competition organized by "JAJABOR-THE TRAVELLER" based on the subject "India what i see". His photographs were selected two times for "Photo of the month" and "Photo of the day" organized by ASSAM PHOTOGRAPHY CLUB & JORHAT PHOTO CLUB.
- Sopon Jyoti Kalita of B.E. 8<sup>th</sup> Semester was awarded Second Prize in Inter College Chess Competition held in D.H.S.K. College on 18<sup>th</sup> and 19<sup>th</sup> September, 2018.
- Richita Sarmah, Nilakshi Das, Avishek Goswami, Pritam Bhattacharyya, Chandanjyoti Dutta, Aditi Lahkar, Anindita Bhuyan, Bhaskarjyoti Pegu, Doli Choudhury, Rajdeep Kalita, Sumanna Kakoti, Jumei C Konyak of B.E. 8<sup>th</sup> Semester presented technical papers in ICID 2018 held from 21<sup>st</sup> to 22<sup>nd</sup> December, 2018.
- Mr. Sayed Inzamamul, Mr. Partha Pratim Baruah, Mr. Mriganka Kr. Duttabaruah and Mr. Hitesh Kumar of M.E. 4<sup>th</sup> Semester presented technical papers in ICID 2018 held from 21<sup>st</sup> to 22<sup>nd</sup> December, 2018.



Rahul Dutta



Sopon Jyoti Kalita



From left- Nilakshi Das, Richita Sarmah, Aditi Lahkar, Chandanjyoti Dutta, Pritam Bhattacharyya, Avishek Goswami



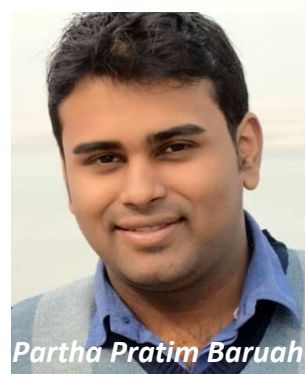
From left- Rajdeep Kalita, Doli Choudhury, Jumei C Konyak, Anindita Bhuyan, Sumanna Kakoti, Bhaskarjyoti Pegu



Sayed Inzamamul



Hitesh Kumar



Partha Pratim Baruah

Mriganka Kr.  
Duttabaruah

## INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT (ICID2018)

- Department of Civil Engineering, Jorhat Engineering College and Department of Civil Engineering, Malnad College of Engineering, Hassan, Karnataka organized First **International Conference On Infrastructure Development (ICID2018)** from 21<sup>st</sup> to 22<sup>nd</sup> December, 2018.

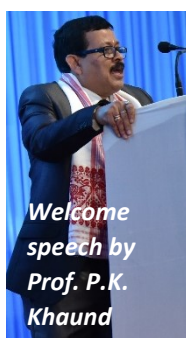


- The conference was organized in the premises of Jorhat Engineering College.
- Total 9 keynote speakers of international repute participated in the conference.
- The inaugural function was held at 9:00 am on 21<sup>st</sup> of December, 2018 with Prof. Reeta Sarmah, Principal, Jorhat Engineering College as the chairperson and Dr. Atanu Kumar Dutta, Associate Professor, Department of Civil Engineering as the anchor.
- The welcome address was delivered by Prof. Prasanna Kumar Khaund, HoD Department of Civil Engineering in the capacity of the President ICID 2018. He dwelt on the role of infrastructure on the overall development of the society.
- Prof. Dhirendra Nath Buragohain, Founder Director, IIT Guwahati and currently Prof. Emeritus, Dept. of Civil Engineering, IIT Guwahati, graced the occasion as the chief guest. Prof. Buragohain emphasised on proper planning of infrastructure and illustrated how lack of planning led to chaos. He elucidated his point exposing the faulty planning of flyovers in Guwahati.



## INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT (ICID2018)

- Guest of honour, Dr. Subodh Kalita, Director-in-charge, CSIR NEIST, Jorhat stressed on the use of locally available materials in construction.
- Er. Bhaskar Jyoti Phukan, Technical Director, NRL opined that to change the process of development, the students should inculcate the habit of challenging each and every process. He stressed on collaboration for growth.
- Prof. K.S. Jayantha, Principal Malnad College of Engineering, stressed upon role of civil engineering in shelter and connectivity emphasizing these to be two major areas of infrastructure development.
- Prof. Reeta Sarmah, Principal, Jorhat Engineering College as the chairperson of the inaugural session hoped that the conference would benefit not only the civil engineering students but would act as a forum for interdisciplinary discussions.
- A Souvenir and Book of Abstract was published on this occasion. It carried the messages from the Minister of Education Department, GOA; Vice Chancellor, ASTU; Principal JEC; Principal MCE; Organising Secretary, HoD Civil Engineering Department and Editor of the Souvenir and Book of Abstract. It gave brief introduction of the Department of Civil Engineering, Jorhat Engineering College and Jorhat town emphasising on the history and development of these. The Souvenir and Book of Abstract also consisted of the list of various committees. The keynote contributions and the abstracts of the selected technical papers were also presented in the Souvenir and Book of Abstract in accordance to the themes of ICID 2018.
- Dr. Nayanmoni Chetia, the organizing secretary of the event, delivered the vote of thanks.
- Keynote lectures were delivered after the inaugural ceremony at pre-lunch session for both days.
- The post-lunch session was dedicated for technical presentations.
- The technical session was scheduled post lunch. In the first day, 5 parallel technical sessions saw 26 numbers of technical presentations of research papers.
- An interaction of representatives of Indian and foreign universities and representative from industry was organized with faculty of Civil Engineering Department, Jorhat Engineering College for possible research collaboration.
- A cultural evening showcasing the cultural heritage of Assam was held in the conference venue.
- In the second day, the technical session which was scheduled post lunch saw 4 parallel technical sessions chaired by experts in different fields. More than 19 technical papers were presented by delegates from various institutes across the country.



**INTERNATIONAL CONFERENCE ON  
INFRASTRUCTURE DEVELOPMENT (ICID2018)**

- The valedictory session of ICID2018 was held on 22<sup>nd</sup> December, 2018. Dr. P.K. Khaund, HoD, Civil Engineering Department, JEC presided over the meeting. Mr. K.C. Dhimole, Prof. Taiichi Hayashi, Prof. A. J. Krishnaiah, Mr. Pradeep Saxena and Dr. Nayanmoni Chetia were also present in the dice.
- Mr. K.C. Dhimole, advisor to the CM, Arunachal Pradesh congratulated and appreciated civil engineering department of JEC, for the first ever international conference of JEC, ICID 2018. he expressed his gratitude to all the researchers for sharing their work with the audience through ICID 2018.
- Prof. Taiichi Hayashi, Koyoto University, Japan in his speech expressed his heartfelt gratitude to the organising committee of ICID 2018 for inviting him to Jorhat, Assam and giving him a platform for sharing his research work. He was very enthusiastic to attend future conferences in JEC.
- Prof. A. J. Krishnaiah, HOD, Civil Engg. Department, Malnad College of Engineering, Hasan, congratulated the ICID team for their hard work and efforts. He also appreciated civil engineering department for taking initiative and organising a successful international conference, ICID 2018.
- Few of the participants from different institutes and backgrounds also shared their experience in JEC during ICID 2018. Then participation certificates were distributed to the participants.
- At last, Dr. Nayanmoni Chetia, gave vote of thanks to all the dignitaries, participants, organisers and sponsors for supporting ICID team and making this conference a success.



**INTERNATIONAL CONFERENCE ON INFRASTRUCTURE DEVELOPMENT  
(ICID2018)**

• Keynote Lectures were delivered by:-

1. Prof. Nayan Sharma on *Upgrading Development Infrastructure In Assam.*
2. Prof. S. T. G. Raghukanth on *3D Crustal Velocity Model for Ground Motion Simulations in North-East India.*
3. Prof. Taiichi HAYASHI on *Present Review of Studies of Meteorological Disasters in the Northeastern Region of India Subcontinent.*
4. Mr. Kamal C. Sharma on *Infrastructure Development & our Attitudes are Two Key Elements for Sustainable Development of Assam.*
5. Dr. Hemanta Doloi on *Opportunities and Challenges in Infrastructure Development - Role, Responsibilities and Relevance of Academic Institutions.*
6. Mr. K. C. Dhimole on *Road Development under Infrastructure Development in India.*
7. Prof. Arup Kumar Sarma on *River-research to Evolve Sustainable-projects for People with Ecofriendly Climate-resilient Technology (RESPECT).*
8. Prof. Hemanta Hazarika on *Artificial Intelligence Approach for Modeling Ground Improving Materials Used In Earthquake Hazard Mitigation.*



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