



# THE LUSTRE



THE OFFICIAL QUARTERLY NEWSLETTER OF DEPARTMENT OF  
CHEMISTRY, JIST



## Inside the April issue:

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## THIS ISSUE'S THEME

The women Nobel Prize  
winners in Chemistry





## From The HoD's Desk



It gives me immense pleasure that the Department of Chemistry is releasing second issue of the quarterly newsletter *The Lustre* with an aim to bring into the activities and achievements of the students, faculties and alumni for the period 1st January, 2022 to 31st March, 2022. I am very much delighted for publishing this issue of newsletter on the theme “Women in Chemistry” specifically remembering and offering respect to the women Nobel Prize winners of the world.

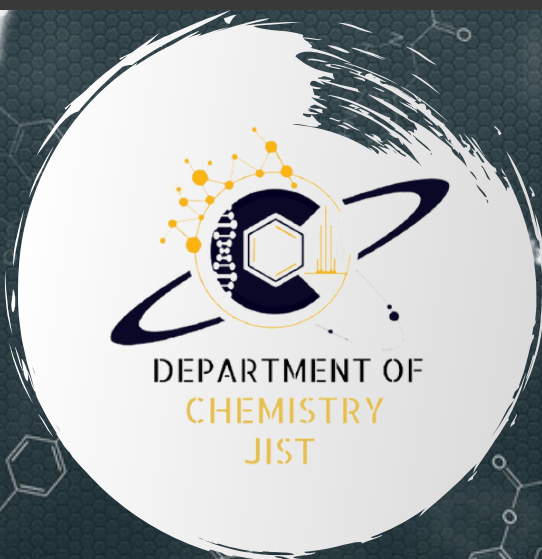
Our department is trying to work for the overall growth of the students and inculcate the qualities and features that are required and acceptable by the society. I congratulate the team for their effort to make this newsletter a reality. Also, I invite the readers of *The Lustre* for their contribution and suggestions for the forthcoming issues.



The Nobel Prize in Chemistry 1911 was awarded to Marie Curie, née Skłodowska "in recognition of her services to the advancement of chemistry by the discovery of the elements radium and polonium, by the isolation of radium and the study of the nature and compounds of this remarkable element."

**Dr. Parasa Hazarika**  
**Assistant Professor**  
 and  
**HoD, Chemistry**





## About the Department

The Chemistry department was established in the year 1971 offering B.Sc. honors course. M.Sc. and PhD courses in Chemistry were introduced from the academic session 2017-18 and 2018-19 respectively under ASTU, Guwahati. Alumni of this department excelled in various field such as research, industry and teaching etc. Our ex-students have done their PhD in reputed national and international Institutes like, NCL, Pune, IITs, Indian Institute of Science, Bangalore, Indian Institute of Chemical Technology, JNCASR, Bangalore (one student has done his PhD under Prof. C.N.R. Rao).



The Nobel Prize in Chemistry 1935 was awarded jointly to Frédéric Joliot and Irène Joliot-Curie "in recognition of their synthesis of new radioactive elements."

## DEPARTMENTAL ACTIVITIES

A departmental meeting was held regarding the following matters–

- a. The theme for the newsletter was decided as "Women in Chemistry", specially remembering the women Nobel Prize winners in Chemistry.
- b. The JIST Chemistry Society was officially formed in presence of 67 students and all the faculty members.
- c. The editorial board of the upcoming departmental magazine was formed.
- d. A weekly seminar was proposed to be held every Saturday for all round development of the students and the faculty members.



The Nobel Prize in Chemistry 1964 was awarded to Dorothy Crowfoot Hodgkin "for her determinations by X-ray techniques of the structures of important biochemical substances."



# CHEMISTRY DEPARTMENT AT NATIONAL SCIENCE DAY-2022



## The Organizers



Ankur Jyoti Bhuyan, a student of B.Sc. 4th semester was the Joint Secretary of the Core committee.



Adarsh Sharmah, a student of B.Sc. 6th semester was a member of the Core committee.



Pushpa Newar, a student of M.Sc. 4th semester was a member of the Exhibition committee.



Manash Pratim Saikia, a student of B.Sc. 4th semester was a member of the Exhibition committee.



Debaranjan Saikia, a student of B.Sc. 4th semester was a member of the Competition committee.





# CHEMISTRY DEPARTMENT AT NATIONAL SCIENCE DAY-2022



## The Award Winners



**26/02/2022**

### TREASURE HUNT COMPETITION



Anisha Jyoti Mahanta, Manash Protim Mohan, Druna Changmai and Anup Kalita, students of B.Sc. 4th semester won the first prize.

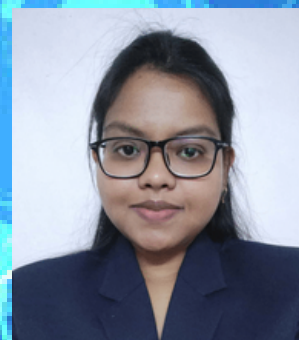


**27/02/2022**

### CAPTION WRITING COMPETITION



Manisha Hazarika, a student of B.Sc. 6th semester won the first prize.



**28/02/2022**

### QUIZ COMPETITION



Saurav Boruah and Prarthana Dutta, students of B.Sc. 2nd semester won the first prize





# CHEMISTRY DEPARTMENT AT NATIONAL SCIENCE DAY-2022



## The Award Winners



28/02/2022

### QUIZ COMPETITION



Anuradha Kakoty and Manisha Hazarika, students of B.Sc. 6th semester won the third prize.



### STUDENTS OF DEPARTMENT OF CHEMISTRY AT NATIONAL SCIENCE DAY-2022



# FACULTY ACTIVITIES



**DR. PARASA HAZARIKA**

1. Participated in the One day international Webinar on "IUPAC Global Women's Breakfast 2022: Empowering Diversity in Science" held on 16th February, 2022 under the aegis of CHEMICAL ASSOCIATION, Department of Chemistry, Bherulal Patidar Govt. P.G. College, Mhow, powered by Association of Chemistry Teachers, Mumbai, India.
2. Attended RSC Desktop Seminar-Hosted by Environmental Science: Advances on 24th February, 2022 organized by RSC publishing house.
3. A paper on the title "Phosphoric acid assisted synthesis of fluorescent carbon dots from waste biomass for detection of Cr(VI) in aqueous media" is accepted for publication in Materials Chemistry and Physics.



The Nobel Prize in Chemistry 2018 was awarded to Frances H. Arnold "for the directed evolution of enzymes."



# FACULTY ACTIVITIES



**DR. BHASKAR JYOTI SARMAH**

1. Participated in 28 th CRSI National Symposium in Chemistry (NSC - 28) held in IIT Guwahati during March 25-27, 2022 and presented a paper entitled "Modified montmorillonite clay supported Copper Oxide nanoparticles: An efficient catalyst for Suzuki Miyaura coupling".
2. Participated in One Day International Webinar On IUPAC Global Women's Breakfast 2022: "Empowering Diversity in Science" held on 16 th February 2022, under the aegis of Chemical Association, Department of Chemistry, Bherulal Patidar Govt. P.G. College, MHOW powered by Association of Chemistry Teachers (ACT), C/o Homi Bhabha Centre for Science Education (TIFR), Mumbai, INDIA.
3. Appointed as Observer in the Term-End-Examination, Dec TEE 2021 at IGNOU Sc-0410, C. K. B. Commerce College, Jorhat during 29/03/2022 to 01/04/2022.

# FACULTY ACTIVITIES



**DR. BHASKAR JYOTI SARMAH**

4. Has participated and successfully completed One Week Short Term Training Programme through ICT Mode on "Technology Enabled Learning" organized by National Institute of Technical Teachers' Training and Research (NITTTR) Kolkata from 24th January to 28th January, 2022.

5. Assigned the responsibility of development of Draft Syllabus of PhD entrance examination of Chemistry of ASTU by Assam Science and Technology University, Jalukbari.

6. A paper entitled "Rhodium(I) carbonyl complexes containing amino acid ester ligands: synthesis, reactivity and DFT studies" authored by Bhaskar Jyoti Sarmah, Jayashree Nath and Ankur K. Guha has been published in the Journal of Coordination Chemistry,

<https://doi.org/10.1080/00958972.2022.2059358>, Taylor and Francis Publication.

# FACULTY ACTIVITIES



**MR. SHASHWATA PRATIM BORAH**

A paper on the title "Phosphoric acid assisted synthesis of fluorescent carbon dots from waste biomass for detection of Cr(VI) in aqueous media" is accepted for publication in Materials Chemistry and Physics.



**MRS. JASMINE SULTANA**

A book chapter titled "Graphene based nano-materials as catalyst for the synthesis of medicinally important scaffold 1,2,3-Triazols, Chapter 5, Bentham Science Publishers Pvt. Ltd. Singapore, 78-91, ISBN: 978-981-5040-51-7.

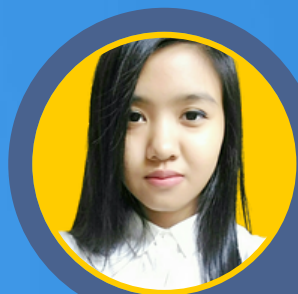


The Nobel Prize in Chemistry 2020 was awarded to Jennifer Anne Doudna and Emmanuelle Marie Charpentier "for the development of a method for genome editing." (through CRISPR)





# STUDENT ACTIVITIES



Upasana Baruah, a student of M.Sc. 4th semester has been awarded Certificate of Appreciation for participating in the National Event "Appreciation of Research Papers (AORp-21)" organized by Association of Chemistry Teachers (ACT), North East Zone on 7th January, 2022.



Disha Sharma, a student of M.Sc. 4th semester has been awarded Certificate of Appreciation for participating in the National Event "Appreciation of Research Papers (AORp-21)" organized by Association of Chemistry Teachers (ACT), North East Zone on 7th January, 2022.



Adarsh Sharma, a student of B.Sc. 6th semester has been awarded the **Best Presenter Award** for oral presentation under UG category in the national event "Appreciation of Research Papers (AORP-21)" organized by Association of Chemistry Teachers (ACT), NE Zone held on 7th January, 2022.



Barlina Doley, a student of B.Sc. 6th semester has successfully qualified JAM-2022.

## ALUMNI SECTION



Mr. Hemanta Singhania, a student of First Batch of M.Sc., Dept. of Chemistry (2017-19 batch) has successfully qualified for CSIR-NET(LS).



Udayan Kalita, an alumni of Dept. of Chemistry got appointed as Grade-III Technician in Oil India Limited, Duliajan



Rashmirekha Nath, an alumni of Dept. of Chemistry, has qualified for DURAT-2021 and got admitted into Ph.D programme in Chemistry in Dibrugarh University.

# PHOTO GALLERY



**The Students of B.Sc. 6th semester**

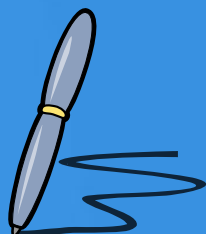


**The Students of M.Sc. 4th semester**



**Students and faculty members of Dept. of Chemistry**





## EDITORIAL BOARD



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**Ankur Jyoti Bhuyan**



**Student Member**

**Manisha Hazarika**

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