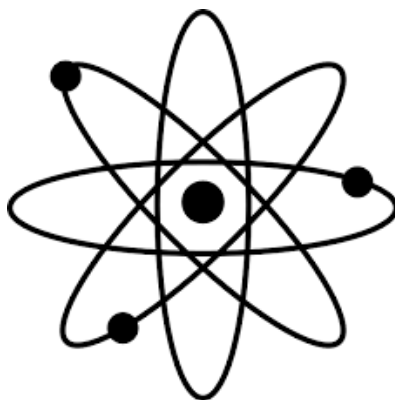




Volume: 11
2021

Chemistry News

An Academic Publication of the Chemical Society and
the Department of Chemistry



Department of Chemistry
N. N. Saikia College
Titabar-785630

Chemistry News, Volume: 11, 2021 is an academic publication of the Chemical Society and the Department of Chemistry, N. N. Saikia College.

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Department of Chemistry

The Department at a Glance

The Department of Chemistry is one of the oldest Science departments of Nanda Nath Saikia College started in 1971. The Department has been offering three years degree course in Chemistry (B.Sc.) with honours provision along with two certificate courses. From 2019 onwards, CBCS has been implemented in the Department. Decorated by well-trained and extremely motivated faculties as well as bright students, the Department constantly strives to maintain a culture of excellence and uphold the highest standards in chemical education. The Department is housed with a research laboratory, two general laboratories and a well-equipped smart classroom. Along with teaching, the faculty members are actively engaged in research in the area of chemical sciences as well as interdisciplinary topics. Our alumni are well placed across the globe and have contributed significantly in their respective domains.

- **Academic Programmes**

Undergraduate Degree Course (B.Sc.)

Type: CBCS (honours)

Intake capacity: 30

Certificate Course

Basic Chemistry Softwares and Online Chemistry Database

Intake capacity: 25

- **Faculty**

Faculty strength: 05

Current Faculty: 04

List of Faculties



Dr. Partha Pratim Saikia, HoD
M.Sc., NET, PhD

Teaching expertise: Organic Chemistry



Mr. Dhrubajit Borah
M.Sc., NET, PhD

Teaching expertise: Inorganic Chemistry



Dr. Jayanta Madhab Borah
M.Sc., SLET, B.Ed., PhD

Teaching expertise: Physical Chemistry



Dr. Bhaskar Jyoti Saikia,
M.Sc., SLET, GATE, PhD

Teaching expertise: Physical Chemistry

Library

The department has a well-maintained library with reading room facility which has a collection of around 300 text and reference books.

Research Highlights

The Department of chemistry has been actively pursuing research activities in a number of research fields like coal chemistry, synthetic organic chemistry, material science, catalysis, polymer chemistry, surface chemistry etc. In spite of limited facilities and infrastructure, the Department has been dedicatedly engaged in different research-based works. So far, the Department has succeeded in securing research grants from UGC, DST, SERB and ministry of environmental science. The present areas of ongoing research are catalysis, material science and polymer chemistry.

List of research projects ongoing/recently completed in the Department

Sl. No.	Name of the PI	Funding agency	Title of the Project	Duration	Total Grant
1	Dr. Partha Pratim Saikia	DST-SERB	Extraction of electrical energy from hydrological cycle through two-dimensional nanofluidic channels	2021-	8,25,000/-
2	Dr. Partha Pratim Saikia	DST	<i>In situ</i> generation of cyanide from novel non-toxic source: application in a few important C-C bond forming reaction and possible extension to the synthesis of bioactive natural products	2013-16	23,00,000/-

- **Research Publications of the Faculties**

- ❖ Highly efficient aqueous-phase Sonogashira coupling catalyzed by Pd-PEEPSI/PPh₃ under aerobic condition. **Dhrubajit Borah**, Amlan Puzari, Pankaj Das, Journal of Chemical Sciences, 2021, 133(4), 103.



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Regular Article | [Published: 09 September 2021](#)

Highly efficient aqueous-phase Sonogashira coupling catalyzed by Pd-PEEPSI/PPh₃ under aerobic condition

[Dhrubajit Borah](#), [Amlan Puzari](#) & [Pankaj Das](#)

[Journal of Chemical Sciences](#) **133**, Article number: 103 (2021) | [Cite this article](#)

408 Accesses | 3 Citations | [Metrics](#)

- **Workshop Participated by the Faculties**

1. **Dr. Partha Pratim Saikia** attended a one week online workshop on “*Research Methodology and Academic Publications: Special Focus on Use of Scientific Tools and Software*” during 13-19th June, 2021.
2. **Dr. Partha Pratim Saikia** attended a one week national workshop on “*Trends in teaching learning, institution building and innovations at higher educational institution*” during 22-27th July, 2021.
3. **Dr. Jayanta Madhab Borah** participated in the one week national workshop on “*Trends in Teaching-Learning, Institution building and Innovations at Higher Educational Institution*” organized by Teacher Unit and IQAC, N. N. Saikia College, Titabar, Jorhat during 22-27th July, 2021.

- **RC/FDP/Orientation Programme Attended by the Faculties**

1. **Dr. Partha Pratim Saikia** attended an online *Faculty Development Programme on Emerging trends in Industry* during 18th May to 22nd May, 2021.
2. **Dr. Partha Pratim Saikia** attended an online *Faculty Development Programme on MIS, Data Analytica & ICT based teaching* during 24th to 29th November, 2021.

B. Sc. Results-2021

*Appeared:*14

Passed: 14 (100 %)

1st class holders in B.Sc. 2021

Sl. No.	Name of the student	Percentage
1	Nayanjyoti Kalita	85.43
2	Debarish Changmai	85.14
3	Rajtonoy Bharali	84.14
4	Rajesh Saikia	71.43
5	Debanga Bhushan Baruah	71.57
6	Miss Sudeepta Saikia	69.21
7	Monjit Saikia	68.79
8	Gobin Chandra Gogoi	67.14
9	Debasis Borborah	66.90
10	Durlav Boruah	66.57
12	Debasis Hazarika	65.57
13	Sourav Saikia	65.14
14	Biplab Debnath	64.71

Students' Progression

1. Abhimonyu Nayak got selected in North East Regional Institute of Science & Technology (NERIST) for pursuing *M.Sc.*

2. Rajtanay Bharali got selected in North East Regional Institute of Science & Technology (NERIST) for pursuing *M.Sc.*
3. Debangabhuson Boruah got selected in Rajiv Gandhi University for pursuing *M.Sc.*
4. Debasish Borborah got selected in Dakhin Guwahati B. Ed College for pursuing *B.Ed.*

Placement of Students

- Sushmita Boruah and Kukil Bharali got placement *as Assistant Teachers* under the Department of Elementary Education, Assam.

The Nobel Prize in Chemistry-2021

Chemists can create new molecules by linking together small chemical building blocks, but controlling invisible substances so they bond in the desired way is difficult. **Benjamin List** of Max-Planck-Institut für Kohlenforschung, Mülheim an der Ruhr, Germany and **David MacMillan**, Princeton University, USA are awarded the Nobel Prize in Chemistry 2021 *for the development of asymmetric organocatalysis*. Its targets the synthesis of new pharmaceuticals and making the chemistry greener.



Benjamin List



David MacMillan

Shanti Swarup Bhatnagar Award-2021

Dr. Binoy Kumar Saikia who hails from Golaghat, Assam, involved in the research related to coal and petroleum is awarded the prestigious Shanti Swarup Bhatnagar Award-2021. *‘Dr. Saikia has made outstanding contributions on the formation of fluorescent Carbon Quantum Dots (CQDs) from Indian coal. His indigenous patented CQD technology for diverse applications falls under ‘Atmanirbhar Bharat’ (self-reliant India programme), leading to import substitution’* the CSIR citation addressed his work. He is currently working in the CSIR-North East Institute of Science and Technology (CSIR-NEIST). He is one of the five Assamese awardees to have this prestigious award.



Binoy Kumar Saikia

Notable Alumni of the Department

Sl. No.	Name	Address with Designation
1	Dr. Dipu Borah	UCC, Ireland
2	Dr. Kula Kamal Senapati	IIT, Guwahati
3	Dr. Pranjal Saikia	Gauhati University
4	Mr. Ananta Saikia	Scientist, DRDO
5	Mr. Tarun Saikia	Asst. Professor, DCB Girls' College
6	Dr. Subhansu Dutta	Asst. Professor, DR College
7	Mrs. Nandita Dutta	Branch Manager, State Bank of India
8	Mr. Niranjana Dutta	Numaligarh Refinery Limited
9	Mr. Utpal Goswami	Numaligarh Refinery Limited
10	Mr. Biraj Das	APS, Govt. of Assam
11	Dr. Anjan Bora	Post Doctoral Fellow
12	Mrs. Bornali Hazarika	Development Officer, LICI
13	Monuj Bihani	Businessman
14	Dr. Manisha Bihani	Post Doctoral Fellow
15	Dr. Bishwapran Kashyap	Tocklai Tea Research Institute, Silliguri campus
16	Mr. Anupam Konwar	Dept. of Chemistry, POWIET
17	Mr. Bishwajyoti Sarmah	Faculty, Pragjyotika Academy, Eminent writer