

St. Paul's Cathedral Mission College

Department of Chemistry

Report on Student Participation in Inter-College Quiz Competition & Oral Presentation

This report details the participation of the students of the Department of Chemistry of St. Paul's C. M. College in the 29th All Bengal Chemiquiz, Memorial Lectures, & Oral Presentation organized by the Department of Chemistry Presidency University, Kolkata on 07.04.2026 & 08.04.2026.

Event Overview:

- **Event Name:** 29th All Bengal Chemiquiz, Memorial Lectures, & Oral Presentation
- **Host Institution:** Chemistry Department of Presidency University, Kolkata
- **Total Participants:** 4 (Four); 2 (Two) teams
- **Team Members:**

Team-1: For Quiz Competition

| Sl. No. | Name | Semester | College Roll No. | Univ. Roll No. |
|---------|-------------------------|----------|------------------|----------------|
| 1. | Ms. Swastika Acharya | VI | 3006 | 233114-11-0002 |
| 2. | Ms. Arpita Mondal | VI | 3007 | 233114-11-0007 |
| 3. | Mr. Sourjo Mukhopadhyay | VI | 3026 | 233114-21-0007 |

Team-2: For Oral Presentation

| Sl. No. | Name | Semester | College Roll No. | Univ. Roll No. |
|---------|-----------------|----------|------------------|----------------|
| 1. | Mr. Saiujyo Dey | VI | 1048 | 233114-21-0003 |

Topic: BIOPLASTICS

Abstract:

Conventional plastics, derived from petrochemical sources, are non-biodegradable and pose serious environmental concerns. This has led to increasing interest in sustainable alternatives such as bioplastics derived from renewable biomass.

Starch, a naturally abundant biopolymer composed of amylose and amylopectin, is a promising candidate for biodegradable material development.

This study focuses on the synthesis of bioplastics using corn starch due to its availability and cost-effectiveness. Native starch-based plastics, however, exhibit poor mechanical properties, including low tensile strength, high stiffness, and low moisture resistance. To overcome these limitations, bioplastic films were prepared using corn starch, distilled water, acetic acid, and glycerine, with varying compositions. Glycerine acted as a plasticizer to improve flexibility and reduce brittleness.

The production process involved gelatinization, blending, and casting techniques, with further enhancements achieved through structural modification. The resulting materials showed improved physico-mechanical properties and demonstrated effective biodegradability in soil and enzymatic conditions.

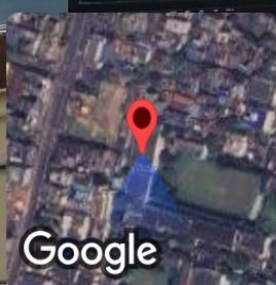
These starch-based bioplastics show potential for applications in packaging and other disposable products, contributing to sustainable material development and reduced environmental impact.

Our students demonstrated exceptional knowledge and significantly enhancing the department's reputation within the academic community.

A few glimpses are:



GPS Map Camera



Kolkata, West Bengal, India 🇮🇳

86, 1, College St, Calcutta University, College Square, Kolkata, West Bengal 700073, India

Lat 22.576811° Long 88.361282°

Tuesday, 07/04/2026 12:04 PM GMT +05:30

29th ALL-BENGAL CHEMIQUIZ, MEMORIAL LECTURES AND
ORAL PRESENTATION COMPETITION
7th & 8th APRIL, 2026



ORGANIZED BY
DEPARTMENT OF CHEMISTRY, PRESIDENCY UNIVERSITY



Google

Kolkata, West Bengal, India

86, 1, College St, Calcutta University, College
Square, Kolkata, West Bengal 700073, India
Lat 22.576811° Long 88.361282°
Tuesday, 07/04/2026 12:37 PM GMT +05:30

GPS Map Camera



Google

Kolkata, West Bengal, India

86, 1, College St, Calcutta University, College
Square, Kolkata, West Bengal 700073, India
Lat 22.576811° Long 88.361282°
Tuesday, 07/04/2026 12:24 PM GMT +05:30

GPS Map Camera

CERTIFICATE
of Participation

This is to certify that Shvastika Acharya of
St. Paul's Cathedral Mission College
has successfully participated in 29th ALL-BENGAL CHEMIQUIZ held on 7th April,
2026 at Department of Chemistry, Presidency University, Kolkata.

We appreciate their enthusiasm, dedication and active involvement throughout the event.
We wish them continued success in their future endeavors.

Head of the Department



Rachana Nag.
Shubhradip Sen
Joint Secretaries

CERTIFICATE
of Participation

This is to certify that Arpita Mondal of
St. Paul's Mission College
has successfully participated in 29th ALL-BENGAL CHEMIQUIZ held on 7th April,
2026 at Department of Chemistry, Presidency University, Kolkata.

We appreciate their enthusiasm, dedication and active involvement throughout the event.
We wish them continued success in their future endeavors.

Head of the Department



Rachana Nag.
Shubhradip Sen
Joint Secretaries

 **CERTIFICATE**
of Participation

This is to certify that Aburjo Mukhopadhyay of
St. Paul's Cathedral Mission College
has successfully participated in 29th ALL-BENGAL CHEMIQUIZ held on 7th April,
2026 at Department of Chemistry, Presidency University, Kolkata.

We appreciate their enthusiasm, dedication and active involvement throughout the event.
We wish them continued success in their future endeavors.


Head of the Department

 Rachana Nag
Shubradip Sen
Joint Secretaries

 **CERTIFICATE**
OF PARTICIPATION 

This is to certify that Sainyo Dey of
St. Paul's Cathedral Mission College
has successfully participated in the ORAL PRESENTATION
COMPETITION held on 8th April, 2026 at Department of
Chemistry, Presidency University, Kolkata.

We appreciate their enthusiasm, dedication and active involvement throughout the
event. We wish them continued success in their future endeavors.


Head of the Department

 Rachana Nag
Shubradip Sen
Joint Secretaries