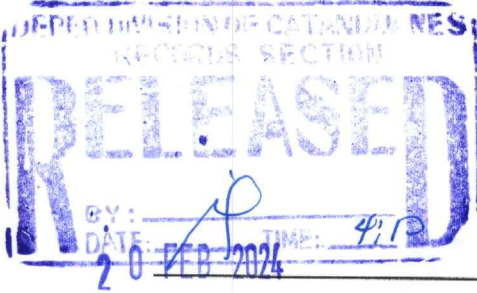




Republic of the Philippines
Department of Education
REGION V - BICOL

SCHOOLS DIVISION OFFICE OF CATANDUANES



UNNUMBERED MEMORANDUM
OSDS-CID-02/20/2024/NGC

TO : Chief Education Supervisor, CID
Education Program Supervisor (Science)
Public Schools District Supervisors/In-Charge of the Districts
Elementary and Secondary School Heads (Public and Private)
All Others concerned

By Authority of the Schools Division Superintendent:

FROM : *Agunday*
ATTY. NORLITO JR. P. AGUNDAY
Legal Officer
Officer-In-Charge

SUBJECT : **23rd PHILIPPINE NATIONAL CHEMISTRY OLYMPIAD (PNCO):
REGIONAL SELECTION**

DATE : **February 20, 2023**

1. Attached is Advisory No. 35 s. 2024 dated February 2, 2024 Re: 23rd Philippine National Chemistry Olympiad (PNCO): Regional Selection
2. The regional selection is on March 2, 2024, from 8:00AM to 5:00 PM at Bicol University College of Science Building .
3. Participation is on **voluntary basis only**.
4. Also enclosed, are the guidelines for the activity
5. Inquiries comments can be directed to : rco.bicol@gmail.com
6. For information.

Encl.:
References:
To be indicated in the Perpetual Index
Under the following subjects:

NGC/23rd PHILIPPINE NATIONAL CHEMISTRY OLYMPIAD (PNCO): REGIONAL SELECTION
February 20, 2024



San Roque, Virac, Catanduanes

052-8114063

catanduanes@depd.gov.ph

www.depedrovcatanduanes.com / www.catanduanes.deped.gov.ph

RECEIVED
FEB 15 2024
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DEPARTMENT OF EDUCATION
REGIONAL OFFICE NO. V
00001478
Date: 2/15/24

ADVISORY No. 35 s. 2024

February 2, 2024

In compliance with DepEd Order (DO) No. 8, s. 2013,
This advisory is issued not for endorsement per DO 28, s. 2001,
But only for the information of DepEd Officials,
Personnel/staff, as well as the concerned public

**23rd PHILIPPINE NATIONAL CHEMISTRY OLYMPIAD (PNCO):
REGIONAL SELECTION**

The Philippine National Chemistry Olympiad Committee under the Philippine Federation of Chemistry Societies Inc. in cooperation with the Philippine Association of Chemistry Teachers Region V (PACT Bicol) will conduct the Regional Selection of students who will participate in the 23rd National Chemistry Olympiad (PNCO).

The regional selection is on March 2, 2024, from 8:00 AM to 5:00 PM at Bicol University College of Science Building 1.

Participation is on voluntary basis only.

Enclosed are the guidelines for the activity.

Inquiries, comments, and suggestions maybe directed to: rco.bicol@gmail.com

For information.

CLMD/cheD
2/2/2024



Regional Chemistry Olympiad (PNCO) 2024 - Region V Selection
GENERAL GUIDELINES

A. General Information

1. The 23rd Philippine National Chemistry Olympiad (PNCO) 2024 is a high school Chemistry competition spearheaded by the Philippine Federation of Chemical Societies, Inc. (PFCS) to select students that will represent the Philippines in the International Chemistry Olympiad (IChO).
2. The **Regional Chemistry Olympiad (RCO) Region V Selection** is a one-day regional selection that will determine the students who will represent Bicol in the PNCO National finals and get the chance to qualify for the International Chemistry Olympiad (IChO).
3. The competition is composed of a written elimination round and a final round. The top ten (10) highest scorers for the elimination round will qualify for the final round.
4. The top five (5) winners of the final round shall be proclaimed winners and will represent the Bicol Region for the PNCO 2024 National Finals on April 6, 2024.
5. Additional activities, such as laboratory demonstrations for students and lecture sessions for coaches will be conducted by the organizers
6. BU-RCSMED, BUCS Department of Chemistry, Chemical Science Society (ChESS), and PACT Bicol will facilitate RCO Bicol 2024.

B. Important Information:

1. Registration fee: **P150.00 per contestant**
2. Deadline of registration: **February 26, 2024**
3. Regional selection: **March 2, 2024 (8:00 AM to 5:00 PM)**
4. National selection: **April 6, 2024**

C. Qualifications

1. RCO Bicol is open to all public and private schools in the Bicol region.
2. The participants must be Filipino citizens enrolled as high school students at the 23rd PNCO 2024 Regional and National competitions. They must NOT be enrolled/registered as college students during the duration of the IChO.
3. Students can only participate in the PNCO (and IChO) twice.

D. Registration

1. Only one (1) team of at most three (3) students may be sent by each participating school. While three contestants can represent their school, only individual scores shall determine the winners.
 2. A school may have a maximum of three (3) coaches (one coach per student). The coach must be a regular faculty of the same school.
 3. There will be a pre-registration via Google form. Only one form must be accomplished per school. This may be done by one representative coach. **Pre-registration Link:** <https://bit.ly/3w0FCaI>
 4. To be considered officially registered, the following documents must be emailed:
 - 1) Endorsement form of head of school
 - 2) Parents' consent form
 - 3) Proof of payment
- **Link for forms and other documents:** <https://bit.ly/3HKGaUW>

Payments:

5. Only one payment for all contestants should be made per school, according to the registered contestants. Only one receipt will be issued per school.
6. There are three possible payment schemes: 1) Online payment via Land Bank to the designated BU Land Bank account, 2) Over-the-counter payment at any Land Bank branch, 3) Over-the-counter payment at the BUCS Cashier, BUCS Bldg 1, BU Main Campus, Legazpi City. (Bank transactions should ALWAYS be Land Bank to Land Bank. Proof of payment must be scanned)
7. For bank payments, below are the Land Bank account details:
Account Name: Bicol University RSTC
Account Number: 0132-1060-37
8. The completed forms and proof of payment must be emailed to rcb.bicol@gmail.com with the Subject: RCO Bicol Documents_Name of School (e.g., RCO Bicol Documents_KNHS)
9. Receipts may be claimed on the day of the olympiad.
10. An email confirmation of the school's registration will be sent.
11. Changes in the contestants may be allowed provided there is a corresponding endorsement from the head of school.

E. Contest Coverage:

Atomic Theory	Chemical Bonds	Organic Compounds
Electronic Structure of Atoms	Molecular Geometry	Thermochemistry
Measurements	Atomic and Molecular Orbitals	Chemical Kinetics
Periodic Table Trends	Orbital Hybridization	Chemical Thermodynamics
Chemical Reactions	Intermolecular Forces	Chemical Equilibrium
Stoichiometry	Concentration of Solutions	Redox Reactions
Gases	Colligative Properties	Electrochemistry

Questions involving more advanced topics may also be included. These advanced topics may cover:

1. Solid state and coordination chemistry (e.g. crystal structures, crystal field theory, and isomerism of inorganic complexes)
2. Thermodynamics (e.g., gases, liquids, solids, temperature dependence of equilibrium constants, electromotive force, and Gibbs free energy)
3. Electrochemistry and electrochemical analysis (amperometry, voltammetry, conductimetry, and potentiometry)
4. Kinetics (catalysis, the Arrhenius equation, and integrated rate laws)
5. Organic chemistry (stereoisomerism, simple stereocontrolled organic transformations, (4+2)-cycloaddition, and (3,3)-sigmatropic rearrangement)
6. Spectroscopy (correlation of simple organic structures with their $^1\text{H-NMR}$, $^{13}\text{C-NMR}$, or IR data)
7. Analytical Chemistry (acid-base titrations, complexometric titrations, redox titrations, spectrophotometry, and Beer-Lambert's Law)

F. Contest Proper:

1. The competition will be in face-to-face mode and will be held at the BUCS Function Hall, BUCS Bldg. 1, Bicol University-Main Campus, Legazpi City
2. On the day of the regional selection, participants and coaches should register at the designated registration desk.
3. Contestants and coaches must bring their school IDs. Wearing the proper school uniform is encouraged. For those without school uniforms, any school shirt or white shirt can be worn.
4. The participants are allowed to use a scientific calculator EXCEPT a programmable calculator, with equation features, and with built-in constants.

Elimination Round

1. The elimination round is a 50-item multiple-choice examination taken individually and is good for two hours. Each question is worth one point.
2. Any participant who will arrive late will not be given extra time to answer the test items.
3. Scratch papers and periodic tables will be provided by the organizer. Only blue or black pens will be allowed.
4. Questions regarding the exam shall be addressed only to the assigned proctors. Talking to a fellow contestant will be strictly prohibited.
5. Sharing of pens, calculators, and exam materials is strictly not allowed during the examination.
6. Coaches are not allowed within the perimeter of the exam area.
7. Contestants may take their snacks during the allotted examination period.
8. The ten highest-scoring participants will advance to the Final Round.

Final Round

1. The scores in the elimination round will not be carried over to the final round.
2. The final round is a 10-item free response written test.
3. If there is a tie on the top 5 positions, an oral clincher round shall follow to break the tie.

G. Schedule of Activities:

- 7:30 – 8:00 AM - Registration
- 8:00 – 8:30 AM - Opening Program (CS Function Hall, 3rd floor, CSB1)
- 8:30 – 9:00 AM - Exam Preliminaries
- 9:00 – 11:00 AM - Elimination Round (CS Function Hall, 3rd floor, CSB1)
Lecture session for coaches (BUCN Amphitheater)
- 11:00 – 12:30 NN - Lunch Break
- 12:30 – 2:00 PM - Lab Demonstration for students (CSB3, 2nd floor)
Lecture session for coaches (BUCN Amphitheater)
Checking of papers
- 2:00 – 2:30 PM - Distribution of Certificates and Announcement of finalists (BUCN Amphitheater)
- 2:30 – 3:30 PM - Final Round (BUCN Amphitheater)
- 3:30 – 4:30 PM - Checking of papers
- 4:30 – 5:00 PM - Announcement of Winners and Closing Program

H. Awards

1. After the endorsement by the regional coordinators, the top FIVE (5) winners (Champion, 1st Runner-up, 2nd Runner-up, 3rd Runner-up, and 4th Runner-up) will move up to the national level.
2. All the participants and coaches will receive certificates of participation. Winners will receive certificates of recognition and their respective coaches, certificates of commendation.
3. The highest individual scorer in the elimination round will receive a certificate of Recognition.
4. Winners will be announced via the Facebook Page of BU-RCSMED and PACT Bicol Chapter.

Safety Guidelines

It is strongly recommended that everyone follow safety measures in the conduct of the event.

Announcements will be posted at the RCSMED and PACT Bicol Facebook Page:

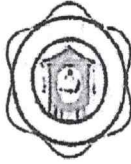
<https://facebook.com/RCSMED>
<https://facebook.com/PACTbicol>

Inquiries, comments, and suggestions may be directed to:

rco.bicol@gmail.com

Documents related to this competition will be available at <https://bit.ly/3HKGaUW>

Note: Coaches will be notified of any updates or modifications to these guidelines.



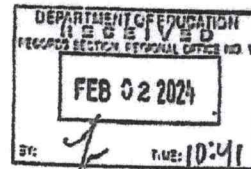
Republic of the Philippines
Bicol University
Regional Center for Science & Mathematics Education Development
BU College of Science Building J, Room 3109
Legazpi City 4500
Local Tel No 1120 Email ad bu-rsmed@bicolbu.edu.ph



SOCOTEC
No. SCT0007130

February 2, 2024

DR. GILBERT T. SADSAD
Regional Director
DepED V



Dear Director Sadsad,

Warm greetings!


We hope this letter finds you well. This letter is with regards to the Regional Selection of students who will participate in the 23rd Philippine National Chemistry Olympiad (PNCO) that will be held this April 2024. For the past two years, our country participated in the International Chemistry Olympiad where the Philippine team was able to clinch medals. More than the gain of medals is the opportunity for our students to enhance their knowledge and skills in Chemistry and promote excellence in Chemistry education in our region. This year, the International Chemistry Olympiad will be held in Riyadh, Saudi Arabia.

This selection is spearheaded by the Philippine National Chemistry Olympiad Committee under the Philippine Federation of Chemistry Societies, Inc., a nationwide professional organization in Chemistry. Last year, this office, in cooperation with the BUCS Chemistry Department, the Chemical Science Society (CheSS), and the Philippine Association of Chemistry Teachers Region V Chapter (PACT Bicol), conducted a face-to-face written examination for this event. It was a productive undertaking with 178 student-participants and 62 teachers all over the region. We would like to thank you for allowing them to participate last year.

This year, we would like to conduct the event on March 2, 2024, at Bicol University with other activities such as laboratory demonstrations for our students and lectures for the teacher-coaches. Attached are the guidelines that we have formulated. We hope that your office will once again allow interested students and teachers to participate.

Thank you very much, and we hope for your positive response to this request.

Sincerely,


MAGNOLIA VIDA A. CANO
RCO Bicol 2024 Coordinator
Director, RCSMED
President, PACT Bicol