



Republic of the Philippines
Department of Education
 REGION V - BICOL


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Office of the Regional Director

MEMORANDUM

DEPARTMENT OF EDUCATION
 RECORDS SECTION REGIONAL OFFICE
 000 35
 A Date: 1/11/22

To : School Division Superintendents

From : 
 GILBERT M. SADSAD
 Regional Director

Subject : 21st PHILIPPINE NATIONAL CHEMISTRY OLYMPIAD (PNCO) REGIONAL SELECTION

Date : January 11, 2022

Attached is the letter and other documents from PNCO Regional Coordinator for Bicol Magnolia Vida A. Cano, inviting Junior High School and Senior High School students from both public and private schools to join the Regional Selection, re: 21st Philippine National Chemistry Olympiad (PNCO) on February 14, 2022 @ 1:00 PM via online platform.

Interested students and coaches are advised to read and strictly follow the mechanics and instructions stipulated in the enclosed guidelines.

For information and wide dissemination.

G:MD/fbb/cheD/
 11/01/2022



Regional Center Site, Rawis, Legazpi City 4500


0817-178 1000
 region5@deped.gov.ph



To: Chiefs, CID and SGOD
 Education Program Supervisors
 Public Schools District Supervisors
 Elementary and Secondary Schools Heads

For immediate dissemination and compliance.

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 DATE: TIME: 6:15


SUSAN S. COLLANO
 Assistant Schools Division Superintendent
 Officer-In-Charge
 Office of the Schools Division Superintendent



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 By: *M* Date: *1/11/22*

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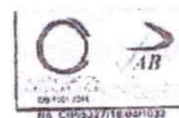
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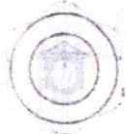
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 11/01/2022

Regional Center Site, Rawis, Legazpi City 4500

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Bicol University
REGIONAL CENTER FOR SCIENCE AND MATHEMATICS EDUCATION
DEVELOPMENT (RCSMED)
PHILIPPINE ASSOCIATION OF CHEMISTRY TEACHERS (PACT Bicol)
PHILIPPINE FEDERATION OF CHEMISTRY SOCIETIES, INC. (PFCS)



January 6, 2022

DR. GILBERT T. SADSAD
Regional Director
DepED V



J 1-7-22

Through Dr. Chozara P. Duray
Science Supervisor

Dear Director Sadsad,

Warm greetings!


We hope this letter finds you well amidst the challenges of the Covid-19 threat. This letter is with regards to the **Regional Selection** of students that will participate in the 21st **Philippine National Chemistry Olympiad (PNCO)**. For the past three 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. The International Chemistry Olympiad will be held online.

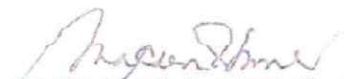
This selection is spearheaded by the Philippine National Chemistry Olympiad Committee under the Philippine Federation of Chemistry Societies, Inc., a nationwide professional organization in Chemistry. It was a very productive undertaking with students and teachers participating from different secondary schools in the region

For this year, BU-RCSMED and PACT Bicol intend to conduct it again online and hope to reach more students ~~because it will~~ not require long distance travel for the participants. Attached are the guidelines that we have formulated. We hope that your office will allow interested students and teachers to participate in the regional selection that will be held next month.

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

Sincerely,


MAGNOLIA VIDA A. CANO
PNCO Regional Coordinator for Bicol
President, PACT Bicol


MARIA EDEN A. ANTE, Ph.D.
Director, RCSMED



Regional Chemistry Olympiad (PNCO) 2022 - Region V Selection

GENERAL GUIDELINES

A. General Information

- The 21st Philippine National Chemistry Olympiad (PNCO) 2022 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).
- The Regional Chemistry Olympiad (RCO) Bicol 2022 is a regional selection that will determine the students that will represent Bicol in the PNCO National finals and will get the chance to qualify in the International Chemistry Olympiad (IChO).
- The regional, national, and international competitions will be held online.
- BU-RCSMED and PACT Bicol will facilitate RCO Bicol 2022.

B. Important Dates:

- Deadline of registration: **February 9, 2022**
- Orientation and dry-run: **February 11, 2022 (10:30 AM)**
- Regional selection: **February 14, 2022 (1:00 PM)**
- National selection: **March 12, 2022**

C. Qualifications

- RCO Bicol is open to all public and private schools in the Bicol region.
- The participants must be Filipino citizens enrolled as high school students at the 21st PNCO 2022 Regional and National competitions. They must NOT be enrolled/registered as college students during the duration of the IChO.
- Students are allowed to participate in the PNCO (and IChO) no more than twice.

D. Registration

- Each participating school may send a maximum of **three (3)** students. The coach must be a regular faculty of the same school.
- There will be **NO** registration fee.
- To register online, contact details and soft copies of the following must be prepared: recent photos and IDs of the participant and coach. The ID should bear the owner's signature.
- Registration link: bit.ly/RCOBicol22.
- The Endorsement Form from the school head or representative and parent's consent must be emailed to rcn.bicol@gmail.com with Subject: RCO Bicol Documents_Name of School (RCO Bicol Documents_KNHS)
- After registration, each coach will receive an email confirmation and links for the orientation and dry-run. An invitation to join a Facebook messenger group chat will also be sent.

E. Contest Coverage:

Matter and Its Properties	Electronic Structure and Periodicity	Thermochemistry
Measurements	Chemical Bonding – Ionic Bonds	Chemical Kinetics

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, and conductometry, 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. On the day of the regional selection, preliminaries will be conducted to check the required technicalities. Participants must be in the meeting room by 12:30 PM. Coaches will be given updates via messenger.
2. Contestants must have two devices with internet capabilities (computer and cellphone with camera) and a printer. Schools and coaches may provide the necessary support should these be unavailable.
3. Contestants are REQUIRED to turn their video and audio on for monitoring. The video footage must show the participant and the device screen used during the exam. The coaches should also have their mobile phone available for communication with the organizers during the event.
4. Contestants must be in their proper school uniform.
5. The participants are allowed to use a scientific calculator EXCEPT a programmable, with equation feature, and with built-in constants.
6. The contestant should only have a computer, pens, a calculator, printer, a periodic table (previously emailed to the proctor and contestant), and clean sheets of bond paper as scratch paper. Other devices, books, and materials are not allowed.
8. While three contestants are allowed to represent their school, only individual scores shall determine the winners.

G. 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 and their respective coaches will receive certificates of commendation.
3. Winners will be announced via the Facebook Page of BU-RCSMED and PACT Bicol. Winners and coaches will also be receiving email notification for the said achievement.

Safety Guidelines

Participants must strictly follow the guidelines on safety protocols set by IATF and their

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/RCO2022Docs>