



CLSU CHEMICAL SOCIETY
Officers, Members and Advisers
(A.Y. 2018-2019)

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09156810033
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- Dr. Redel L. Gutierrez**
Adviser

October 2018
DR. MAY B. ECLAR, CESO V
 Regional Director
 Department of Education, Cordillera Administrative Region (CAR)

Dear Madam:
 Good day!

The Central Luzon State University Chemical Society (CLSU Chemso) is an academic and civic-oriented college-based student organization, duly recognized by the Central Luzon State University through the Office of Student Affairs. It is composed of BS Chemistry majors, dedicated to (1) maintain interest and endeavor in the field of Chemistry, and (2) to encourage and promote momentous ideals of educational services to the people and to the country to which students in general are pledged to serve. In line with the aforementioned objectives, we are pleased to inform you that the CLSU Chemso in cooperation with the Department of Chemistry of Central Luzon State University and the Kapisanang Kimika ng Pilipinas - National Chapter is sponsoring the **12th Zonal Chemistry Congress** featuring the **21st Zonal Chemistry Quiz - Secondary Level** on **November 24, 2018** at the CAS Little Theater, CAS Main, Central Luzon State University, Science City of Muñoz, Nueva Ecija. Other categories in the said congress include the **13th Zonal High School Thesis Competition**, and the **4th Chemstagram Photo Competition**. This congress aims to trigger the students' interest in Science and Technology in general and Chemistry in particular. It also envisions a closer camaraderie among the secondary science students Cordillera Administrative Region (CAR).

The winning teams/contestants in the competitions will receive cash prizes, trophies, medals, and certificates. The emerging top three scorers per region in the **quiz contest** will also be given the opportunity to be chosen as representatives in the forthcoming **2019 Philippine National Chemistry Olympiad and the winning contestant in PNCO will later be the representative of Philippines for International Chemistry Olympiad (IChO)**.

In this regard, we are asking your office to give us an opportunity to present our activity more to be qualified and able to gain endorsement from you to reach out to the student body of CAR specifically, and open opportunities for the students. Attached here with are the rules and guidelines of our activity. Thank you very much and we hope to seek for a positive response from your office for the success of this activity. Thank you.

Sincerely,

JOCELYN P. DORONIO
 President, CLSU Chemical Society

SHIELLA MAE M. DORILAG
 Vice-President for Internal Affairs, CLSU Chemical Society

Recommending Approval:

DR. REDEL L. GUTIERREZ
 Adviser, CLSU Chemical Society

EVARISTO A. ABELLA, PhD
 Dean, College of Arts and Sciences



Received: ORD
 OCT 22 2018

Republic of the Philippines
Department of Education
 Cordillera Administrative Region
 Wangal, La Trinidad, Benguet

ADVISORY

October 22, 2018

TO: **SCHOOLS DIVISION SUPERINTENDENTS**
ALL DIVISIONS
ALL CONCERNED

To All School Divisions for information and dissemination in compliance with **DepEd Order No. 9, s. 2005** entitled **"Instituting measures to increase engaged time-on-task and ensuring compliance therewith"**.

FOR YOUR INFORMATION & APPROPRIATE ACTION

FEDERICO P. MADRIGAL, Ph.D., CESO VI
 Schools Division Superintendent

MAY B. ECLAR, Ph.D., CESO V
 Regional Director

For endorsement

21st ZONAL CHEMISTRY QUIZ AND PNCO REGIONAL ELIMINATION CONTEST RULES

- 1) Interested parties may register for the regional contest by coordinating with the organizers. A registration fee of **Php 250** per competitor will be charged. Each school can have a **maximum of three (3) participants**.
- 2) To qualify, the participant must be in **Grade 12 or lower at the time of the contest**. He/she must still be in high school during SY 2018-2019.
- 3) The quiz will be in written format only. Laboratory skills competition will not be included during the regionals.
- 4) The participants will be seated in a classroom and will be given a copy of the questionnaire (50-60 items). Proctors will explain the rules as stated in the questionnaire.
- 5) The participants will be given 2 hours to answer the questions in the questionnaire provided.
- 6) The use of **non-programmable calculator is allowed**. Use of cell phones or access to the internet during the contest is prohibited and can be a ground for disqualification.
- 7) Sharing of pen, pencil, eraser, etc. between participants is not allowed. All questions must be addressed to the proctor only.
- 8) Participants must wear their school ID's during the contest.
- 9) Participants may not leave the room before they submit their answer sheets. This includes use of the toilet. Once submitted, answer sheets may not be taken back by the participants.
- 10) The top three (3) scorers will receive Medals of Honors, Certificates of Commendation, and Cash Prizes of P5,000 for the champion, P3,000 for the 1st runner-up, and P2,000 for the 2nd runner-up.
- 11) Questions will deal mainly on the following:

<ul style="list-style-type: none"> ▪ Atomic theory ▪ The Periodic Table ▪ Trends in Periodic Properties ▪ The Mole ▪ Stoichiometry ▪ Chemical bonding ▪ Ionic and covalent compounds ▪ Acids and Bases (pH, Ka, Kb) ▪ Chemical Equilibria ▪ Classes of Chemical Reactions ▪ Chemical Kinetics ▪ Precipitation Reactions (K_{sp}) ▪ Oxidation-Reduction reactions ▪ Enthalpy ▪ Entropy ▪ Free Energy ▪ Calorimetry 	<ul style="list-style-type: none"> ▪ Atomic and molecular orbitals ▪ Orbital hybridization ▪ Molecular Geometry ▪ Lewis structures ▪ Gas Laws ▪ Intermolecular forces ▪ Phase Diagram ▪ Concentration of solutions ▪ Colligative Properties ▪ Electrochemistry ▪ Nuclear chemistry ▪ Classes of organic compounds ▪ Functional groups ▪ Organic reaction mechanisms ▪ Organic spectroscopy (H-NMR, C-13 NMR, IR, Mass Spec)
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- 12) (For Regions I, II, III and CAR Participants only) The top three (3) scorers in Regions I, II, III and CAR shall represent the region to the 2019 Philippine National Chemistry Olympiad.



18PNCO 2019

REGIONAL ELIMINATIONS & NATIONAL FINALS

Rules and Mechanics:

I. Participation/ Registration

1. QUALIFICATIONS

The participants must be Filipino citizens enrolled as high school students at the time of the 18th PNCO 2019 Regional and National competitions. (Note: To qualify for ICHO 2019, students must not be enrolled/registered as college students during the duration of ICHO 2019.)

2. REGIONAL ELIMINATIONS

- The 18PNCO 2019 Regional Eliminations will be held simultaneously across the country on **24 November 2018 (Saturday)** to be hosted by their respective Regional Organizer/s.
- There will be a registration fee of **P250.00 per competitor**. An official receipt must be issued by the receiving regional organizer to the participants. The fee will be used to defray the cost of production and distribution of the contest materials. A financial statement must be submitted by the regional coordinator/organizer for documentation thru email.
- A maximum of three (3) participants per school may register.

3. NATIONAL FINALS

- The top three winners (Champion, 1st Runner-up and 2nd Runner-up) in the Regional Eliminations qualify to compete in the National Finals in January 2019.
- The coach of the Regional Champion will serve as the official coach of the regional delegation.
- Those who have participated in an IChO and who remain eligible for the same are automatically qualified to join the National Finals without having to compete in the regionals. This means that the schools whose student/s represented the Philippines in the previous year's IChO can still send a maximum of three other candidates to the regionals on top of the IChO participant.
- Competitors are expected to be at the venue on **26 January 2019 in the venue (NCR) by 8:00 am** in their school uniform (when applicable) with proper identification (school ID and Certification/ Endorsement as Regional winners from their PNCO Regional Coordinator).
- The PNCO Finals Registration fee is **P 300.00 per person**. Coaches and students must register.

II. Contest Coverage:

Atomic theory	Chemical Kinetics	Gas Laws
The Periodic Table	Precipitation Reactions (K _{sp})	Intermolecular forces
Trends in Periodic Properties	Oxidation-Reduction reactions	Phase Diagram
The Mole	Enthalpy	Concentration of solutions
Stoichiometry	Entropy	Colligative Properties
Chemical bonding	Free Energy	Electrochemistry
Ionic and covalent compounds	Calorimetry	Nuclear chemistry
Acids and Bases (pH, K _a , K _b)	Atomic and molecular orbitals	Classes of organic compounds
Chemical Equilibria	Orbital hybridization	Functional groups
Classes of Chemical Reactions	Molecular Geometry	Organic reaction mechanisms
	Lewis structures	Organic spectroscopy (H-NMR, C-13 NMR, IR, Mass Spec)

III. Contest Proper

For **18 PNCO 2019 Regional Eliminations [24 November 2018]:**

- The regional contests will be handled by the regional coordinating organizations. Inquiries about letters of invitation, etc. may be addressed to them accordingly. The PNCO National Committee shall coordinate and formally recognize the official regional organizers.
- The regional organizers are expected to send out an invitation. Interested parties must feel free to inform the organizers of their intent to participate.
- Regional organizers must notify the PNCO National Committee through the secretariat of their intent to conduct the regional eliminations by sending an email.





PHILIPPINE FEDERATION OF CHEMICAL SOCIETIES

Unit 233 Citiland Pioneer, 128 Pioneer St., Highway Hills, Mandaluyong City 1552 Philippines

PHILIPPINE NATIONAL CHEMISTRY OLYMPIAD (PNCO)



- Regional organizers must notify the Committee of the following details **on or before 22 November 2018**:
 - Number of participants
 - Complete Name, Address and contact number/s of the person who will officially receive the questionnaires and answer sheets. Please refer to the list of organizers/ coordinators per region.
- The quiz will be in written format. The written format is the minimum mode of contest for the Regionals and that the regional organizers **may** opt to enhance the competition with a laboratory skills portion.
- The questionnaires with answer keys (50-60 items) will be delivered to the designated regional coordinators via courier/ email on **23 November 2018**.
- The papers will be graded by a team appointed by the regional coordinator and the results will be transmitted to the PNCO National through PNCO secretariat (jenclemsy@yahoo.com). Please refer to the format for 18PNCO 2019 Regional Elimination Results.
- The top three (3) competitors from each region, after endorsement by the regional coordinators, will move up to the national level.

For 18PNCO 2019 National Finals [26 January 2019]:

- A 4-hour **Written Examination** problem solving type questions (ICHO style) will be given to all participants in the designated venue.
- The participants are allowed to use scientific calculator except those which are programmable, with equation feature, and with built in constants. All calculators shall be submitted to the PNCO Secretariat before the Contest proper for inspection. The PNCO National Committee may prescribe specific calculator models or features.
- Periodic tables will be provided by the committee.
- Correct spelling and proper use of significant figures must be observed.
- The upper 50% of the participants will be awarded Gold, Silver and Bronze medals

IV. Awards

- Each participant and coach will be given certificate of participation and certificate of attendance. Winners will receive certificates.

For inquiries, you may contact:

PNCO Secretariat (Jennifer Sy) jenclemsy@yahoo.com / 0917 8311473

For other details and announcements:

<https://www.facebook.com/groups/philippinenationalchemistryolympiad/?fref=ts>
http://groups.yahoo.com/neo/groups/kkp_phils/info

Prepared by:


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PNCO Secretariat

Approved by:

Dr. Eric R. Punzalan
PNCO Convener

Dr. Nestor I. Valera
PNCO Convener

Dr. Glenn V. Alea
PFCS President



4th CHEMSTAGRAM PHOTO COMPETITION RULES AND GUIDELINES

- 1) The contest is open to all **secondary schools** (national high schools, science high schools, laboratory high schools, integrated schools, Montessori schools, and other private and public high schools) in **Region I, II, III, and CAR**.
- 2) Each participating school is entitled to have a maximum of **five (5) contestants** for the competition.
- 3) All participants of the Congress, **student contestants and advisers**, are required to wear their respective **school uniforms** and **identification cards** during the entire duration of the congress. Student participants are required to present their **certification of enrollment** countersigned by respective school authority upon registration.
- 4) Registration starts at **7:30 am to 9:00 am** and a **registration fee of Php 200 (two hundred pesos)** per contestant is required.
- 5) Participants are required to submit their digital camera during registration for inspection. Digital Single-Lens Reflex (DSLR) cameras, film cameras and phone cameras are strictly not allowed.
- 6) To ensure eligibility for the contest, **all digital cameras must have a resolution of not greater than 12 million pixels**. Participants with digital cameras that do not meet this standard will be automatically disqualified.
- 7) Participants will be allowed to go outside of the venue at 10:00 in the morning for them to shoot photos in connection with the theme to be given by the judges on the contest proper.
- 8) All participants should return to the venue at 11:30 and must submit the soft copy of their best photo to the organizers of the said event for the printing of the photos.
- 9) A universal file format, **Joint Photographic Experts Group (JPEG)**, should be submitted. A minimum editing of a photograph is allowed; contrast, brightness, color rendering and cropping. The image will be printed in **full color**.
- 10) The winners of the 4th CHEMstagram Photo Competition will receive Medals of Honors, Certificates of Commendation, and Cash Prizes of Php 1, 500 for the champion, Php 1, 000 for the 1st runner-up, and Php 700 for the 2nd runner-up.
- 11) The criteria for judging the best CHEMstagram photo will be as follows:
 - a) Technical Quality 30%
 - b) Relevance to the Theme 20%
 - c) Composition 20%
 - d) Creativity 20%
 - e) Overall Impression 10%
- 12) The Board of Judges has the right to disqualify participating teams who will fail to present the necessary requirements.

13th ZONAL THESIS COMPETITION RULES AND GUIDELINES

- 1) The contest is open to all **secondary schools in Regions I, II, III and CAR only.**
- 2) Each school is entitled to have a **maximum of three (3) thesis entries** in any of the given category below.
- 3) Registration starts at **7:30 am. A registration fee of Php 500 (five hundred pesos) per entry is required.**
- 4) Participants are required to present their **school ID** and **certification of enrollment** countersigned by their respective school authority.
- 5) The contest covers recently completed or on-going individual or group student research under the supervision of an adviser, in any of the category written below:
 - a) **Biological Sciences**
 - b) **Chemistry**
 - c) **Physics**
- 6) Entries should be of **original work** that is neither in submission nor already published in journals.
- 7) Entries already submitted or presented in the previous High School Thesis Competition are already disqualified.
- 8) A journal type summary of the manuscript must be submitted two (2) weeks (**November 9, 2018**) prior to the competition (November 24, 2018) via electronic mail to **kemikal_society@yahoo.com**. Entries must strictly comply with the attached format in Microsoft word.
- 9) Prejudgment of the submitted summary of the journals in each category will be made by the Board of Judges one (1) week prior to the competition.
- 10) Only the top five (5) preselected researches for each category will be required to have a short presentation in Powerpoint format for ten (10) minutes followed by a question and answer period for ten (10) minutes which will be evaluated by the Board of Judges.
- 11) Each entry should have at most two (2) presenters. The student researchers are allowed to answer questions given by the Board of Judges.
- 12) For each category, only one (1) thesis/research project will be selected and will receive a Medal of Honor, a Certificate of Recognition, and a cash prize of Php 3,000 (three thousand pesos). However, if there is only one entry in a category, the student researchers will still present their thesis/research project and should have a score of eighty five (85) and above. *Note: This is also implied for all categories with more than one entry.*
- 13) The criteria for judging the best high school thesis will be as follows:
 - Creativity, Resourcefulness and Inventiveness 30%
 - Scientific/Technological value 20%
 - Oral Presentation 20%
 - Adaptability/Applicability/Feasibility 10%
 - Research Skills/Thoroughness 10%
 - Visual Presentation 10%
- 14) The Board of Judges has the right to disqualify participating teams who will fail to present the necessary requirements.
- 15) A rule of "No pay, no entry" will be implied.