



Republic of the Philippines
Department of Education
REGION III
SCHOOLS DIVISION OFFICE OF BATAAN

FEB 26 2024

DIVISION ADVISORY

No. 048, s. 2024

To: Assistant Schools Division Superintendent
Education Program Supervisors
Public Schools District Supervisors
Public and Private Secondary School Principals
All Others Concerned

This Office informs all concerned that the Philippine Institute of Chemical Engineers – Bataan Chapter (PICHE-BC), will be spearheading the Bataan Peninsula Science and Engineering Congress 2024 (BPSEC) on the 23rd of March 2024 at The Peninsula School Auditorium, Barangay Alangan, Limay Bataan.

Attached is the letter of Mr. Patrick Canacana, RChE, Educations Committee Chairman, for further details and inquiries.

CAROLINA S. VIOLETA, EdD, CESO V
Schools Division Superintendent

In compliance with DepEd Order No. 8 s. 2013, this Division Advisory is issued not for endorsement, per D.O. 28 s. 2001 only for the information of DepEd Officials, personnel as well as the concerned public.

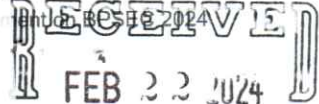
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February 23, 2024



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"We Mould Heroes"





DOTS-2024-90777

bataan@deped.gov.ph

BY: _____

**[PICHE-BC] Letter of Request for SDO Bataan Endorsement on BPSEC 2024**

PICHE Bataan <piche.bataanchapter@gmail.com>

Thu, Feb 22, 2024 at 10:00 AM

To: bataan@deped.gov.ph

Dear Dr. Carolina,

Greetings!

Upon thorough discussion with the SDO Bataan Education Program Supervisor in Science, Mr. Edwin R. Bermillo, we would like to send you revised guidelines on BPSEC registration and event proper. Details are as follows:

1. We have moved the schedule of the Congress to **March 23, 2024 (Saturday)**. The registration deadline has been moved as well to **March 3, 2024** to accommodate more schools to join.
2. We have removed the limitation on the maximum number of participating schools.
3. No registration fee shall be collected to participating schools. Students and coaches may provide their own snacks and lunch during the event.
4. We have revised the cash prizes for the Champion/First Runner-up/Second Runner-up to Php 5,000/3,000/1,000.

With this, we are sending revised letter of request and updated guidelines for registration and contest mechanics for your reference as we request for your kind endorsement. We are looking forward to your warm response and support. Thank you very much!

Yours in service,

Patrick Canacana, RChE

Educations Committee Chairman

PICHE Bataan Chapter 2023 - 2024

#MOPCAWithAHeart

On Mon, Feb 12, 2024 at 1:16 PM PICHE Bataan <piche.bataanchapter@gmail.com> wrote:

[Quoted text hidden]

2 attachments**PICHE Bataan Chapter BPSEC 2024 Mechanics and Guidelines.pdf**

326K

**PICHE-BC-Letter of Request for Endorsement to SDO Bataan.pdf**

166K



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PHILIPPINE INSTITUTE OF CHEMICAL ENGINEERS BATAAN CHAPTER (PICHE-BC)

PETRON BATAAN REFINERY, LIMAY, BATAAN 2103 PHILIPPINES

February 22, 2024

Dr. Carolina S. Violeta

Officer-in-Charge, Office of the Schools Division Superintendent
Schools Division of Bataan
Department of Education Region III

Dear Dr. Carolina:

Greetings!

We, the **Philippine Institute of Chemical Engineers - Bataan Chapter (PICHE-BC)**, will be spearheading the **Bataan Peninsula Science and Engineering Congress 2024 (BPSEC)** on the **23rd of March 2024** at **The Peninsula School Auditorium, Barangay Alangan, Limay, Bataan**. As we are currently on an era of scientific and technological advancement, the Philippines has the need to cultivate more scientists and engineers to place the country at par with other developing countries. In line with this, this congress aspires to encouraging the finest and most promising high school students of Bataan to embark a career in science and engineering and to contribute in nation-building.

The said congress will be divided into two major events, namely:

1. The Science and Engineering Career Orientation, which aims to provide substantial information regarding the expectations and opportunities in different science and engineering fields, more particularly chemical engineering, that will entice the students in considering science-related fields as their future careers

2. The Bataan Peninsula Science Bowl - Junior Division, which aims to recognize the province's best junior high school students in the fields of Mathematics, Earth and Space Science, Biology, Chemistry, and Physics

In this regard, we would like to request for an endorsement from your good office for the said activity to the public and private high schools of Bataan, and invite them to join the congress. Attached herewith are the guidelines for registration and the contest mechanics for your reference. Should you have any queries, please contact the Bataan Peninsula Science and Engineering Congress 2024 head:

Engr. Patrick Canacana

(+63) 965-368-4864

pcanacana@petron.com

We sincerely hope for your favorable response. Thank you very much and we bid you more power.

Respectfully yours,

Patrick Canacana, RChE

PICHE-BC Education Committee Chairman

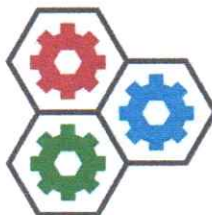
Nicole Faye L. Gonzales, MLChE

PICHE-BC President

Philippine Institute of Chemical Engineers – Bataan Chapter
c/o Petron Bataan Refinery, Limay, Bataan 2103 Philippines
Telephone: (632) 8884-9100 local 30866 | Mobile: 0916 663 0565
Email: piche.bataanchapter@gmail.com

BATAAN PENINSULA SCIENCE AND ENGINEERING CONGRESS 2024

PHILIPPINE INSTITUTE OF CHEMICAL ENGINEERS
BATAAN CHAPTER



INTRODUCTION

The Philippine Institute of Chemical Engineers - Bataan Chapter (PIChE - BC) will once again be spearheading the Bataan Peninsula Science and Engineering Congress (BPSEC) on March 16, 2024 at The Peninsula School, Barangay Alangan, Limay, Bataan. As we are currently in an era of scientific and technological advancement, the Philippines has the need to cultivate more scientists and engineers to place the country at par with other developing countries. In line with this, this congress aspires to encourage the finest and most promising high school students of Bataan to embark a career in science and engineering and to contribute in nation-building.


The congress will be divided into two major events, namely:

1. The Science and Engineering Career Orientation - this aims to provide substantial information regarding the expectations and opportunities in different science and engineering fields, more particularly chemical engineering, that will entice the students in considering science-related fields as their future careers. The Career Orientation will be held at The Peninsula School Auditorium.
2. The Bataan Peninsula Science & Engineering Congress Quiz Bowl - this aims to recognize the province's best junior high school students, respectively, in the fields of Mathematics, Earth and Space Science, Biology, Chemistry, and Physics. The Quiz Bowl will be held at The Peninsula School General Science Laboratory.

These two events will be conducted separately: Career Orientation will be held in the morning, while Junior Division Science Bowl in afternoon. Registered participants of the Science Bowl will be automatically excluded from the registration fees of the Career Orientation.

REGISTRATION

1. All Junior High Schools within Bataan are invited for the Congress.
2. For the Career Orientation, schools may send at most five (5) interested students to attend informative educational talks from highly esteemed professionals in the field of science and engineering. No registration fee shall be collected from the participants. Students may bring their own snacks and lunch during the talks. The Orientation will start at 08:00 AM at The Peninsula School Auditorium. To participate, the school shall submit the following information to the BPSEC 2024 contact person through email on or before March 3, 2024. You may also register by scanning the QR code provided below.

<p>Name of School:</p> <p>Full Name of Career Orientation Participants and Grade Levels:</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>4.</p> <p>5.</p> <p>Primary Contact Person:</p> <p>Landline Phone:</p> <p>Mobile Phone:</p> <p>Email Address:</p> <p>BPSEC 2024 Contact Person: Patrick Canacana 09816621956 piche.bataanchapter@gmail.com</p>	<p>OR</p> <p>Scan the following QR Code to access Registration Form.</p>  <p>Career Orientation Registration Form Link</p>
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3. For the Science Bowl, all schools in Bataan are invited to join.
4. Each school shall send a team of three (3) students per school, composed of Grade 9 and/or 10 students. At most two (2) coaches may accompany the participating students.
5. The combination of representatives' grade levels in each division is at the discretion of the participating schools.
6. To participate, the school shall submit the following information to the BPSEC 2024 contact person through email on or before March 3, 2024. You may also register by scanning the QR code provided below.

<p>Name of School:</p> <p>Full Names of Participants and Grade Levels:</p> <p>1.</p> <p>2.</p> <p>3.</p> <p>Full Names of Coaches (two maximum)</p> <p>1.</p> <p>2.</p> <p>Contact Information (for follow-through communication)</p> <p>Primary Contact Person:</p> <p>Landline Phone:</p> <p>Mobile Phone:</p> <p>Email Address:</p> <p>BPSEC 2024 Contact Person: Patrick Canacana 09816621956 piche.bataanchapter@gmail.com</p>	<p>OR</p> <p>Scan the following QR Code to access Registration Form.</p>  <p>Science Bowl Registration Form Link</p>
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5. No registration fee shall be collected from the participating teams. Students and coaches may bring their own snacks and lunch for the entirety of the event.

6. All delegates are requested to arrive on or before the start of the Quiz Bowl proper. Participants who came during the elimination round may still participate in the remaining questions; however, previously read questions will not be repeated.

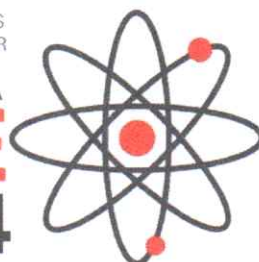
7. All Quiz Bowl participating students shall bring the following:

- Latest school Identification card (or any proof of enrollment)
- Black ballpen
- Pencil, sharpener, and eraser
- Non-programmable scientific calculator (refer to this [link](#) for list of non-programmable scientific calculators)

Participants are encouraged to bring their own water bottles. Designated water dispensers can be found along the venue. Students must also be in their school uniform during the event for proper identification.

PHILIPPINE INSTITUTE OF CHEMICAL ENGINEERS
BATAAN CHAPTER

BATAAN PENINSULA SCIENCE BOWL 2024



Introduction

The BPSEC Science Bowl 2024 aims to recognize the province's best students in the fields of earth and space science, biology, chemistry, physics, and mathematics. It was started in 2008 (named PIChE-BC Whiz Quiz), wherein the best high school students from different schools were paired with chemical engineers in a battle of wits.

Through the years, the event went through a series of revamps to make the competition more exciting. This year, the quiz bowl will be partaken by Junior High School students across Bataan. Moreover, to foster stronger teamwork and strengthen the participants decision-making skills by taking calculated risks, questions with a special scoring system will be distributed across the various categories during both divisions' final rounds.

Hence, the winners shall not only be distinguished for their superior academic capacity but also for the ability to weigh risks and make appropriate decisions under pressure.

Contest Mechanics

This is an exclusive competition among junior high school students, with each participating school having a team composed of three participants, which can be a combination of Grade 9 and/or Grade 10 students. Top 5 schools from the elimination round will be recognized and proceed to the final round.

ELIMINATION ROUND

1. The elimination round shall consist of three categories: Easy, Average, and Difficult.
2. The scoring system will be as follows:

Category	No. of items	Time Limit	Points
Easy	10	10 secs	2
Average	10	20 secs	3
Difficult	5	60 secs	5

3. The questions will be flashed on the screen and shall be read by the quizmaster twice, after which he/she gives the GO signal. The timer starts when the quizmaster gives the GO signal.
4. Contestants may begin solving as soon as they wish. Final answers should be written on their boards within the allotted time. Ushers assigned to each team will enforce time limit and confirm if the team gets the correct answer, by which he/she will raise the team's number to count their points.
5. For multiple-choice and identification questions, the teams must write their answers in CAPITAL LETTERS. For identification questions, incomplete and/or misspelled answers shall be considered incorrect.
6. For problem-solving questions, the teams must write their answers accurately up to the specified number of decimal places together with the appropriate unit. Otherwise, rules on significant digits shall be applied.
7. Use of calculators shall only be allowed during the difficult round.
8. Any complaint, query, or protest regarding a particular question can only be made by the official contestants and their respective coaches and should be done before the reading of the next question.
9. The decision of the panel of judges shall be final and irrevocable.
10. At the end of each phase, the cumulative score of each team shall be computed and announced. The five teams garnering the highest overall scores will proceed to the final round.

FINAL ROUND

1. The Final Round consists of three categories: Easy, Average, and Difficult. A predetermined number of questions with a special scoring system shall also be distributed across the three categories; these questions shall be labelled as Easy Plus, Average Plus, or Difficult Plus. The scores for all participating teams shall be reset to zero at the start of this round.
2. The scoring system will be as follows:

Category	Subtype	No. of Items	Time Limit	Points		
				Correct Answer	No Answer	Wrong Answer
Easy	Regular	5	10 secs	+3	0	0
	Special (Easy Plus)	3	15 secs	+4	0	-2
Average	Regular	7	20 secs	+5	0	0
	Special (Average Plus)	3	30 secs	+6	0	-3
Difficult	Regular	3	60 secs	10	0	0
	Special (Difficult Plus)	2	90 secs	+12	0	-6

To elaborate, there will be regular questions where teams can get points if they answer it correctly. However, for the Special Questions, a point system will be administered wherein teams can get higher points if they answer correctly but will lose points if incorrect. They may also opt to not answer the special questions and not get point deductions nor increase. This should encourage the teams to take necessary risks and perform strategic decision-making to help them gain advantage in the competition.

3. The question will be flashed on the screen and shall be read by the quizmaster twice, after which he/she gives the GO signal. The timer starts when the quizmaster gives the GO signal.

4. Contestants may begin solving as soon as they wish. Final answers should be written on their boards within the allotted time. Ushers assigned to each team will enforce time limit and confirm if the team gets the correct answer, by which he/she will raise the team's number to count their points.
5. For multiple-choice and identification questions, the teams must write their answers in CAPITAL LETTERS. For identification questions, incomplete and/or misspelled answers will be considered wrong.
6. For problem-solving questions, the teams must write their answers accurately up to the specified number of decimal places together with the appropriate unit. Otherwise, rules on significant digits shall be applied.
7. Use of calculators will only be allowed during the difficult round.
8. Any complaint, query, or protest regarding a particular question can only be made by the official contestants and their respective coaches and should be done before the reading of the next question.
9. The decision of the panel of judges shall be final and irrevocable.
10. At the end of each phase, the cumulative score of each team will be computed and announced.
11. Ranking will solely be based on the Final Round results. The team with the highest cumulative scores will be declared as the Champion. The next two top-scoring teams will be declared as 1st and 2nd runners-up respectively.
12. In the case of a tie at the end of the last phase, a tie breaker will immediately ensue and will be sudden death in nature. Average to difficult type questions will be asked until one team gains an advantage in score over the other.

AWARDS

1. All participating students and coaches will receive certificates of participation. Separate tokens of appreciation shall be given to all final round participants.
2. The winning teams for the Quiz Bowl will receive the following prizes.

Champion	Php 5,000 + gold medals and certificates of excellence for the students + certificate of recognition for the coaches + trophy for the school
First Runner Up	Php 3,000 + silver medals and certificates of excellence for the students + certificate of recognition for the coaches + trophy for the school
Second Runner Up	Php 1,000 + bronze medals and certificates of excellence for the students + certificate of recognition for the coaches + trophy for the school

DETAILED COVERAGE

EARTH AND SPACE SCIENCE	Rocks and Minerals Plate Tectonics Earthquakes and Volcanoes Geologic Time Atmosphere	Weather and Climate The Sun-Earth-Moon System The Solar System Beyond the Solar System
BIOLOGY	Basic Biochemistry Cell Structure and Function Cell Respiration and Photosynthesis Mitosis and Meiosis	Genetics and Heredity Evolution and Diversity of Plants Evolution and Diversity of Animals Human Body Systems
CHEMISTRY	Atoms, Molecules, and Ions Quantum Theory Electronic Structure of Atoms The Periodic Table of Elements Reaction Types and Stoichiometry	Chemical Bonding Solids, Liquids, and Gases Solutions Thermodynamics
PHYSICS	Representations of Motion Accelerated Motion in One Dimension	Forces in One Dimension Work and Energy
MATHEMATICS	Sets and Real Number System Linear, Quadratic, and Rational Equations Polynomials and Rational Expressions	Logarithmic and Exponential Equation Basic Geometry Trigonometry