



Republic of the Philippines
Department of Education

REGION I
SCHOOLS DIVISION OF THE CITY OF BATAC

Advisory No. **026**, s. 2026

03 FEB 2026

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.
(Visit www.deped.gov.ph)

**PARTICIPATION TO THE ASCEND (ADVANCING STEM THROUGH CHEMICAL
ENGINEERING AND NEW-GEN DISCOVERIES) 2026**

The Philippine Institute of Chemical Engineers – Junior Chapter MMSU (PIChE-JCMMSU) will hold the ASCEND (Advancing STEM through Chemical Engineering and New-Gen Discoveries) 2026 program with the theme “Waste to Energy: Fueling Sustainability, Empowering Innovation” on February 7, 2026 at the Teatro Ilocandia, Mariano Marcos State University.

The activity aims to promote the field of chemical engineering among the senior high school students. The program will feature a series of talks and a variety of contested events namely: STEM Quiz Bowl, STEM Research Study, STEM Writing and STEM Talk Competitions aimed at enlightening students about the opportunities and challenges in the chemical engineering profession.

Relative to this, all public and private senior high schools of the Schools Division of the City of Batac are encouraged to participate in the activity on a voluntary basis.

All precautionary and safety measures must be strictly observed and implemented during participation to the activity to ensure the protection and safety of all students and teachers. Likewise, the activity should be guided by DepEd guidelines and guidelines for the off-campus activity and DepEd Order No. 9, s. 2005 titled “Instituting Measures to Increased Engaged Time-on-Task and Ensuring Compliance Therewith.

For further details and queries, please see attached communication from RJS Pascua, President of PIChE-JCMMSU.

For information.


CID-GBL/ASCEND
2601666/26088/February 3, 2026

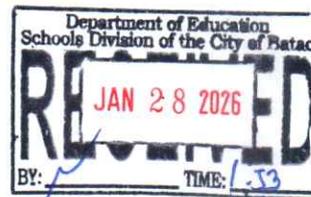


January 27, 2026

ANSELMO R. ALUDINO
Schools Division Superintendent
Schools Division of the City of Batac

Sir:

Greetings!



SDCB RECORDS UNIT
2601666

The **Philippine Institute of Chemical Engineers- Junior Chapter MMSU (PIChE-JCMMSU)** would like to respectfully seek permission to invite **Senior High School students** who are enrolled in various high schools in **City of Batac** and are under the Science, Technology, Engineering, and Mathematics (STEM) strand to our upcoming outreach program.

The **ASCEND (Advancing STEM through Chemical Engineering and New-Gen Discoveries) 2026** program, with the theme **“Waste to Energy: Fueling Sustainability, Empowering Innovation”** will be conducted this upcoming **February 7, 2026** at the **Teatro Ilocandia, Mariano Marcos State University**. The objective of this program is to promote the field of chemical engineering among these students. The program will feature a series of talks and a variety of contested events, namely: **STEM Quiz Bowl, STEM Research Study, STEM Writing and STEM Talk Competitions**, aimed at enlightening students about the opportunities and challenges in the chemical engineering profession.

Enclosed with this letter are the timeline, venue, and other details of the program as well as the guidelines for the different contest events. We believe this outreach program will greatly benefit the students by broadening their understanding of chemical engineering and inspiring them to consider it as a potential career path.

We appreciate your kind consideration of our request, and are hopeful for your positive response. Please feel free to contact us for any additional information or clarification regarding this program.

Thank you for your attention and support.

Respectfully Yours,


RJS PASCUA
President, PIChE-JCMMSU



Recommending Approval:

A handwritten signature in black ink, appearing to read "S. Tambio".

ENGR. SHAN CAEZAR L. TAMBIO
Adviser, PIChE-JCMMSU

A handwritten signature in black ink, appearing to read "R. Mamuad".

DR. ROSELLE Y. MAMUAD
Chairperson, Department of Chemical Engineering



January 12, 2026

MARIANO MARCOS STATE UNIVERSITY



FH1257787

VIRGILIO JULIUS P. MANZANO JR.
University President
Mariano Marcos State University

MMSU RECEIVED
DATE: 1/26/26
BY: Arnel
OFFICE OF THE

MARIANO MARCOS STATE UNIVERSITY
STUDENT AFFAIRS AND SERVICES
RECEIVED
DATE: 12 0 JAN 2026
BY: Arnel 3:53 pm

Thru: *Arnel*
ARIS REYNOLD V. CAJIGAL
Vice President for Academic Affairs

#1, 3 4
LAWRENCE JOHN C. TAGATA
Director, Student Affairs and Services

JAN FRANCIS O. JAVIER
Director, Security Services

VLADIMIR P. IBAÑEZ
Director, ITC

Kindly consider compensation for extra services rendered beyond regular office hours.

RYAN DEAN T. SUGGANG
Director, Human Movement and Artistic Innovation Center

BENSEN ALEX U. POLA
Director, General Services

Sir:

Greetings!

The Philippine Institute of Chemical Engineers – Junior Chapter Mariano Marcos State University (PIChE-JCMMSU), would like to conduct an event called ASCEND (Advancing STEM through Chemical Engineering and New-gen Discoveries) with the theme “Waste to Energy: Fueling Sustainability, Empowering Innovation”. This activity aims to promote the field of chemical engineering by featuring a series of seminars and a variety of contest events namely: STEM Research Study Competition, STEM Quiz Bowl, STEM Writing Competition, and STEM Talk Competition. Students currently enrolled in the Science, Technology, Engineering, and Mathematics (STEM) strand at various high schools in Ilocos Norte will be invited in the said program, which will serve as a platform for education regarding the opportunities and difficulties of the chemical engineering field.

In this regard, may we request for the following:

- 1. the approval of the Organization to conduct this event on February 7, 2026 from 7:00 AM to 5:00 PM;

Cultivating Minds, Transforming Futures

College of Engineering, Quiling Sur, City of Batac, Ilocos Norte | mmsu.coe.pichejc@gmail.com





MARIANO MARCOS STATE UNIVERSITY
College of Engineering

Philippine Institute of Chemical Engineers – Junior Chapter
 MMSU (PIChE-JCMMSU)



2. the use of **Teatro Ilocandia** as the official venue for the program, STEM Quiz Bowl, STEM Research Study Competition, STEM Talk Competition, and Seminar Proper from 7:00 AM to 5:00 PM;
3. the use of **Student Center** as the official venue for the STEM Writing Competition from 9:00 AM to 11:00 AM;
4. to request technical assistance from the **Information Technology Center (ITC)**;
5. to request the use of an LED wall and sound system from the **General Services Directorate (GSD)**;
6. to request permission to borrow tables and chairs from the Human Movement and Artistic Innovation Center for the participants during the program;
7. to officially excuse all participating and attending students from the University during the scheduled time of the event.
8. to request permission to solicit funds from alumni, business outlets, and other student organizations, and to use the revolving fund of PIChE-JCMMSU to cover the remaining expenses.

Attached herewith are the resolutions, schedule of activities, event details, and other supplementary requirements needed for your reference. Thank you and we look forward to your favorable response. Thank You and God Bless!

Respectfully Yours,

RJS
RJS. PASCUA

President, PIChE-JCMMSU

Recommending Approval:

Shan
SHAN CAEZAR L. TAMBIO
 Adviser, PIChE-JCMMSU

Roselle
ROSELLE K. DIAMUAD
 Chairperson, Department of Chemical Engineering

Marifaye
MARIFAYE FLORES
 Coordinator for Student Affairs and Services

Sharon
SHARONA O. BARROGA
 Dean, College of Engineering

MARIANO MARCOS STATE UNIVERSITY
 CITY OF BATAAC, I. N.

APPROVED/DISAPPROVED

Virgilio
MIRGILIO MARCUS P. MARZANO, JR.
 UNIVERSITY PRESIDENT

Cultivating Minds, Transforming Futures

College of Engineering, Quiling Sur, City of Batac, Ilocos Norte | mmsu.coe.pichejc@gmail.com





ASCEND

Advancing STEM through Chemical
Engineering & New-Gen Discoveries

2026

WASTE TO ENERGY:

Fueling Sustainability,
Empowering Innovation

PROGRAM AND GUIDELINES

ASCEND

General Guidelines

1. **Event Description:** ASCEND (Advancing STEM through Chemical Engineering and New-Gen Discoveries) is a full-day celebration of STEM excellence, designed to inspire and challenge high school students in the fields of science, technology, engineering, and mathematics, especially encouraging the students to look into the field of Chemical Engineering.
2. **Theme:** Waste to Energy: Fueling Sustainability, Empowering Innovation
3. The program features four exciting competitions:
 - **STEM Quiz Bowl:** A fast-paced team competition testing students' knowledge across various STEM subjects.
 - **STEM Research Study Competition:** Students present original STEM research to a panel of expert judges, focusing on innovation and practical applications. This also includes a poster walkthrough for students to learn about the research projects through engaging visuals.
 - **STEM Writing Competition:** Participants craft compelling essays, showcasing their ability to explain complex topics with clarity and creativity.
 - **STEM Talk Competition:** A dynamic platform where individuals deliver TED-talk style presentations to simplify and communicate STEM concepts and the theme.
4. Additionally, an engaging **Waste to Energy Talks: ChE seminar** led by industry experts and inspiring personalities shall also be conducted.
5. **Event Details:**
 - **Date:** February 7, 2026
 - **Time:** 7:00 AM – 5:00 PM
 - **Venues:** Teatro Ilocandia and Student Center
6. **Registration Form:** <https://forms.gle/wFfegYWFdwAGdbGLA>
 - **Inclusions:** ASCEND Kit, Certificate, Awards, and Cash Prizes.



TIME	EVENT	VENUE
7:00 AM - 8:00 AM	Registration & Assembly	Teatro Ilocandia
8:00 AM - 9:00 AM	Opening Program	Teatro Ilocandia
9:00 AM - 11:00 AM	STEM Quiz Bowl	Teatro Ilocandia
11:00 AM – 12:00 PM	STEM Talk Competition	Teatro Ilocandia
9:00 AM – 10:30 AM	STEM Writing Competition	Student Center
12:00 PM – 1:00 PM	Lunch	Teatro Ilocandia
1:00 AM – 3:00 PM	STEM Research Study Competition	Teatro Ilocandia
3:00 PM – 4:00 PM	Seminar Proper	Teatro Ilocandia
4:00 PM – 5:00 PM	Awarding and Closing Ceremony	Teatro Ilocandia



STEM Quiz Bowl Guidelines

1. **Eligibility:**
 - Open to all STEM senior high school students registered in the ASCEND event.
 - One team per school, with 3 participants per team.
2. **Description:** STEM Quiz Bowl is a group competition that shall be conducted in a face-to-face show format wherein all contestants are to answer quiz questions all at the same time in a given period of time
3. **Registration:**
 - Registration is completely free, but slots are limited to only the first ten schools to sign up.
4. **Event Details:**
 - **Date:** February 7, 2026
 - **Time:** 9:00 AM - 11:00 AM
 - **Venue:** Teatro Ilocandia
5. **Quiz Bowl Proper:**
 - Whiteboard, markers and eraser will be provided for their answer.
 - There shall be three (3) rounds: Easy, Average, and Difficult.
 - There shall be **ten (10) easy** questions, **ten (10) average** questions, and **five (5) difficult** questions.
 - In case of a tie, a series of clincher round shall be played until one of the teams answers correctly and will be declared as the winner.
 - Each correct answer shall be given corresponding points to win:
EASY - 1 point AVERAGE - 3 points DIFFICULT - 5 points;
 - The easy item shall be a **multiple choice type** of question while the average, difficult and clincher (should there be any) shall be either an **identification or a problem solving type** of question. Participants shall be allowed to use their calculators during the difficult round only.
 1. Easy : **30 seconds** per question
 2. Average: **One minute** per question
 3. Difficult: **Three minutes** per question
6. **Other Guidelines:**
 - Contestants shall be given sheets of paper for computation.
 - In case of protest, the participants are the only ones authorized to file a protest.
 - The team with the highest score shall be declared the first place winner and so forth.



7. Awards and Prizes:

- **1st Place:** PHP 1,500 + medals + certificate
- **2nd Place:** PHP 1,000 + medals + certificate
- **3rd Place:** PHP 500 + medals + certificate

8. Coverage:

- Test items will cover the following subjects:
 - i. Biology
 - ii. Chemistry
 - iii. Physics
 - iv. Earth and Environmental Science
 - v. Senior High School Mathematics
 - vi. General Knowledge about Waste to Energy

9. Contact:

- For more information and queries, kindly contact our FB page:
<https://www.facebook.com/pichejcmmsu>



STEM Talk Competition Guidelines

- 1. Eligibility:**
 - Open to high school students registered in the ASCEND event.
 - One participant per school.
- 2. Registration:**
 - Registration is completely free, but slots are limited to only the first ten schools to sign up.
- 3. Presentation Format:**
 - Participants must present their talk individually.
 - Presentations must not exceed three (3) minutes. Otherwise, the number of seconds they exceed will be deducted from their original score.
 - Visual aids such as slides, videos, or physical models are allowed.
- 4. Topic:**
 - The STEM Talk must be a TED-Talk Form Monologue that revolves around the event theme: Waste to Energy: Fueling Sustainability, Empowering Innovation
- 5. Judging Criteria:**
 - **Presentation Skills (30%):** Clarity of speech, effective use of visual aids, and engaging delivery.
 - **Relevance to the Theme (30%):** Alignment of the presentation with the theme.
 - **Technical Depth and Originality (40%):** Demonstration of technical understanding, in-depth research, and presentation of original solutions.
 - The decision of the judges is final and binding.
- 6. Event Details:**
 - Date: February 7, 2026
 - Venue: Teatro Ilocandia
 - Date: 11:00 AM - 12:00 PM
- 7. Awards:**
 - **1st Prize:** Php 750.00 + Medal + Certificate + Trophy
 - **2nd Prize:** Php 500.00 + Medal + Certificate
 - **3rd Prize:** Php 250.00 + Medal + Certificate
 - **Certificates of Participation will be given to all other participants.**
- 8. Academic Integrity:**
 - Any form of plagiarism or academic dishonesty will result in immediate disqualification.
- 9. Contact:**
 - For more information and queries, kindly contact our FB page: <https://www.facebook.com/pichejcmmsu>



STEM Research Study Competition Guidelines

- 1. Eligibility:**
 - Open to all STEM senior high school students registered in the ASCEND event.
 - One team per school, with two participants per team.
- 2. Registration:**
 - Registration is completely free, but slots are limited to only the first ten schools to sign up.
- 3. Research Focus:**
 - Research must address *SDG 13: Climate Action*, focusing on sustainability.
- 4. Poster Design Requirements:**
 - Posters must be **3x5 ft** and include:
 - Title of the research.
 - Team name, members, and adviser(s).
 - Objectives of the study.
 - Methodology overview.
 - Key findings or expected results.
 - Alignment with SDG 13 and potential impact.
 - Visuals (e.g., diagrams, charts, or images) that are clear and relevant.
- 5. Poster Submission Deadline:**
 - Final posters must be submitted for approval and printing one week before the event (January 31, 11:59 PM).
- 6. Event Details:**
 - **Date:** February 7, 2026
 - **Time:** 1:00 PM - 3:00 PM
 - **Venues:** Teatro Ilocandia.
 - **Poster Setup:** Posters shall be set up by the event organizers in the designated areas the day before the event.
- 7. Presentation Guidelines:**
 - Each team shall be given 5 minutes to present then judges can ask questions for another 5 minutes after the presentation.
 - Posters shall be displayed at the Teatro for the poster walkthrough.
 - During the walkthrough, audience members can ask questions and the teams shall address them to earn votes for People's Choice Award.



8. **Judging:**

- Judges shall evaluate the posters and presentations during the presentation period.

9. **Criteria:**

- **Relevance to Category and Theme (30%):** Evaluates how well the research aligns with the competition's focus—particularly SDG 13: Climate Action. Entries should clearly demonstrate their connection to sustainability and the STEM category.
- **Methodology (25%):** Assesses the clarity, rigor, and appropriateness of the research methods used. Judges look for a logical approach, sound data collection, and thoughtful analysis.
- **Originality or Innovation (25%):** Rewards fresh ideas, creative problem-solving, and unique perspectives. Projects that offer new insights or inventive solutions to climate-related challenges stand out here.
- **Presentation (20%):** Focuses on how effectively the research is communicated. This includes visual appeal, organization, and the ability to engage and inform the audience.

10. **Awards and Prizes:**

- **1st Place:** PHP 1,500 + Medal + Certificate + Trophy
- **2nd Place:** PHP 1,000 + Medal + Certificate
- **3rd Place:** PHP 500 + Medal + Certificate
- **Best Presenter:** Certificate
- **Best Poster Design:** Certificate
- **People's Choice:** Certificate

11. **Conduct:**

- Ethical research required; plagiarism or falsification leads to disqualification; maintain respect and professionalism.

12. **Contact:**

- For more information and queries, kindly contact our FB page: <https://www.facebook.com/pichejcmmsu>



STEM Writing Competition Guidelines

- 1. Eligibility:**
 - Open to all STEM senior high school students registered in the ASCEND event.
 - One participant per school.
- 2. Registration:**
 - Registration is completely free, but slots are limited to only the first ten schools to sign up.
- 3. Event Details:**
 - **Date:** February 7, 2026
 - **Time:** 9:00 AM - 10:30 PM
 - **Venue:** Student Center
- 4. Essay Writing Proper:**
 - The participants shall be given an hour and a half to write an essay. The topic shall be revealed on the day of the event
 - Papers in folders shall be provided during the event but pencils, erasers, and pens shall be provided by the participating students.
 - The students must write legibly and clearly on the paper provided.
 - Paper pagination must be written at the upper right portion of each paper used and students can only use one side of the paper.
 - The essay must only be written in English and must be clear, engaging, and formal.
 - The essay must contain 5 paragraphs, namely: introduction, 3 points or arguments, and conclusion.
 - All references, quotes, data, and ideas from external sources must be properly cited using in-text citations.
 - Any data or claims must be accurate and verifiable. Misrepresentation of information will result in disqualification.
 - The essay must include a short and engaging title with a maximum of 10 words.
- 5. Criteria:**
 - **Relevance to the Theme (30%):** This criterion assesses how well the writing aligns with the given theme of the competition. It evaluates the extent to which the content addresses and stays focused on the theme.
 - **Clarity and Organization (25%):** This criterion evaluates the clarity of the writing and how well it is organized. It looks at the logical flow of ideas and the coherence of the structure.
 - **Originality (25%):** This criterion measures the uniqueness and innovativeness of the writing. It considers how original the ideas are and how creatively the topic is approached.
 - **Creativity (20%):** This criterion assesses the creativity in the presentation of the content. It looks at the use of language, the engagement of the reader, and the overall imaginative quality of the writing.



- Judges' decisions are final and irrevocable.
6. **Awards and Prizes:**
- **1st Place:** PHP 750 + certificate
 - **2nd Place:** PHP 500 + certificate
 - **3rd Place:** PHP 250 + certificate
 - **Certificates of participation will be awarded to all participants**
7. **Contact:**
- For more information and queries, kindly contact our FB page:
<https://www.facebook.com/pichejcmmsu>

