



Republic of the Philippines  
**Department of Education**  
REGION IV-A CALABARZON  
CITY SCHOOLS DIVISION OF THE CITY OF TAYABAS

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Advisory No. 071 s. 2024

March 13, 2024

In compliance with DepEd Order No. 88 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 concerned public.  
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**ChEin REACTION 2024**

The Junior Philippine Institute of Chemical Engineers – Batangas State University (JPIChe-BSU) will be holding the **ChEin Reaction 2024** on April 12, 2024 (Saturday), from 06:00 am to 05:30 pm at the Batangas State University – The National Engineering University (Alangilan Campus) Fitness Development Center. All public and private schools are encouraged to participate in this event.

Enclosed is the copy of communication for your perusal.

Dissemination of this advisory is desired.



Batangas State University - The National Engineering University  
**JPIChE-BatStateU**  
 Junior Philippine Institute of Chemical Engineers



February 29, 2024

A.Y 2023 - 2024

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**CELEDONIO B. BALDERAS, JR**

Schools Division Superintendent  
 Division of Tayabas City  
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Madam:

Greetings!

As we celebrate the 25th anniversary of the Junior Philippine Institute of Chemical Engineers-Batangas State University (JPIChE-BatStateU), it is with great pride that we reflect on a quarter-century of unwavering commitment to academic excellence. In recognition of this significant milestone, we are thrilled to announce an event that embodies the essence of our organizational philosophy and also resonates with the mission, vision, and core values of our esteemed university.

In light of this, JPIChE-BatStateU will be organizing ChEIN Reaction 2024 under the theme "Navigating Across the Waves of Scientific Excellence Through 25 Years of Sailing Towards Sustainable Horizons and Societal Eminence." This yearly event consists of a variety of academic activities and competitions aimed at identifying student potential and advancing their proficiency in innovative, scientific, and technical fields. Within ChEIN Reaction 2024 is the 20th ChEmCollision, which is a quiz bee competition for Junior High School students which enables them to bring out their knowledge to solve Mathematics and Science problems; the 9th Science Investigatory Project Competition, which is a research competition and presentation for Junior and Senior High School students in the areas of Life and Applied Sciences; and the 6th ChExpertise, which is a contest among Senior High School students on pitching, promotional videos, and infographics to display their talents in inventing creative concepts while showcasing their prototypes. Also, ChEIN Reaction 2024 will also feature its newly launched sub-events, the ChEscussions 2024, an event that fosters effective critical thinking on an intellectual debate of Junior and Senior High School students, and the ChErivivor 2024, which is designed to ignite the Junior and Senior High School students' intellect and test their knowledge across diverse subjects of general knowledge collid. Along with these sub-events, the organization will also carry out the ChExhibit 2024, which is a series of academic-related booths that will highlight the creativity and inventive talents of Chemical Engineering students.

For this year, ChEIN Reaction 2024 will be held on April 12, 2024, Saturday, from 6:00 AM to 5:30 PM at the Batangas State University - The National Engineering University (Alangilan Campus) Fitness Development Center.

In accordance with this, we would like to request permission from your well-established office to allow public secondary schools, including Junior and Senior High School, throughout the Division of Tayabas City to participate in the aforementioned event. Your approval on this topic will be greatly appreciated, and we look forward to your prompt response. Thank you very much.

For inquiries, you may contact Ms. Kimberly Claire Brodeth, the Overall Head of ChEIN Reaction 2024, at 09918427329 for DITO, or through our email at [jpiche.25theinreaction@gmail.com](mailto:jpiche.25theinreaction@gmail.com).

Sincerely,

Noted By:

*Allen Jan Q. Canonizado*  
**ALLEN JAN Q. CANONIZADO**  
 President, JPIChE-BatStateU

*Kim Dowell D. Panganiban*  
**Engr. KIM DOWELL D. PANGANIBAN**  
 Adviser, JPIChE-BatStateU

Approved By:

*Ronalyn V. Maulion*  
**Asst. Prof. RONALYN V. MAULION**  
 Department Chair, Department of Chemical Engineering



# CHEM REACTION 2024

## 6<sup>th</sup> Chexpertise

ChExpertise is a competition that exhibits the prototypes developed by Senior High School students through pitching, promotional video, and infographics—in an effort to enrich and highlight innovation and development. In order to demonstrate their adaptability as lifelong learners in a technologically advanced, globally interconnected world, they are tasked with developing prototypes that enhance community welfare.

## Chexhibit

ChExhibit 2024 is a showcase of academic booths that reminisce, encourage, and introduce opportunities to its participants by inviting them to join in fun and motivating activities as a celebration of navigating the future of sustainable development.

## Chesscussions

ChEscussions 2024 is a platform for thought-provoking discussions on key issues provided by a set of panels, allowing participants to engage in a battle of wits and stances to provide voices to varying viewpoints, meaningful conversations, and insightful ideas wherein the strongest competitor wins.

## 9<sup>th</sup> SIP

The 9th Science Investigatory Project (SIP) competition showcases emerging innovations on exceptional research from Junior and Senior High School student across the CALABARZON and MIMAROPA regions in the field of Applied and Life Sciences. This sub-event aims to foster camaraderie and stimulate students' minds through competition and evaluation of their innovative ideas, aiming to drive progress and promote positive change within their communities.

## Chervivor

ChErivor 2024 is the latest addition in the event line-up debuting its first year as an ultimate last man standing battle of wits and brilliance. Only the most resilient students will reign supreme in this test of intellectual prowess across a wide range of fields from science and mathematics to history, geography, pop culture, and sports.

## 20<sup>th</sup> ChemCollision

ChemCollision is a quiz bee-formatted competition among Junior High School students from Region IV-A and Region IV-B aiming to feature and nurture the next generation of scientific minds. This captivating intellectual competition promises an exciting journey toward societal excellence.





# CHEM REACTION

2024



**Navigating Across the Waves of Scientific Excellence Through  
25 Years of Sailing Towards Sustainable Horizons and Societal Eminence**

BatStateU - The NEU Fitness Development Gymnasium Center (Alangilan Campus)

**APRIL 12, 2024**





## 20th ChemCollision

Setting sail on the JPICHE-BatStateU's scientific odyssey, the heartbeat of excellence resonates within the formation of ChemCollision. Celebrating two decades of its intellectual triumph, this event marks a brand-new exploration in returning as the pulsating core of ChEIN Reaction, igniting the spirit of knowledge-sharing in defining the unwavering commitment of the organization to academic exploration. The 20th ChemCollision is a well-anticipated event tailored for Junior High School Students across Region IV-A and Region IV-B where the collision of minds and brilliance of intellect takes center stage in nurturing the next generation of scientific minds. From solving complex equations to delving into the intricacies of scientific phenomena, this riveting competition of minds guarantees a thrilling experience in charting a course toward societal excellence.

## 9th SIP

While our scientific odyssey continues to chart the boundless ocean of knowledge, another intrepid vessel, primed for intellectual conquest, sets sail on its own grand voyage. Through the years, the Science Investigatory Project (SIP) competition raises the sails of innovation, hauling in the most promising young minds, each equipped with revolutionary ideas, and fueled by collaboration and a shared passion for discovery. In its 9th year, this prestigious event highlights the exceptional research from Junior and Senior High School students across the CALABARZON and MIMAROPA regions in the field of Applied and Life Sciences. As a beacon for innovation, this sub-event aims to promote camaraderie while challenging students' minds by resorting them in a healthy atmosphere of competition of evaluating the participants' capabilities to effectively communicate their pioneering ideas with the goal of driving progress and instigating positive change within their communities.

## ChExhibit 2024

The long-awaited re-emergence of ChExhibit celebrates the 25 years of unfolding greatness of ChEIN Reaction. The 5th year of ChExhibit will take the participants through time by showcasing academic booths that reminisce, encourage, and introduce opportunities. Each booth caters to several aspects of the event, inviting individuals to engage in fun and inspiring activities as celebration of success in navigating the future of sustainable development. As we board through this exploration, amazing treasures await us all throughout. minds by resorting them in a healthy atmosphere of competition of evaluating the participants' capabilities to effectively communicate their pioneering ideas with the goal of driving progress and instigating positive change within their communities.







## ChErvivor 2024

As the expanse of our scientific conquest unfolds, another venture toward intellectual prowess takes shape and readies itself to embark. JPICHE-BatStateU sparks the quest for knowledge supremacy with the debut of the very first ChErvivor—an intellectually rigorous clash of brilliance and wits. This latest addition to the sub-events of ChEin Reaction calls participants to a unique battle for survival, challenging their knowledge across diverse realms, spanning from science and mathematics to history, geography, pop culture, sports, and beyond. Students shall vie for the podium of intellectual resilience, embracing academic novelties within the societal landscape and navigating twists and turns that test their fortitude to venture beyond the frontiers of the known. Only the fittest mind shall reign supreme, standing tall amidst the tumultuous waves of challenges as the ultimate ChErvivor.



## ChEscussions 2024

ChEscussions is an engaging expedition that fosters impactful critical thinking on key issues within a chosen topic. This subevent will cultivate and engage the sharp-witted junior and senior high school students in thought-provoking discussions and steer their contrasting opinions in a battle of eloquence as they construct compelling arguments and counterpoints that effectively communicate their viewpoints on critical issues. With the "affirmative" team supporting the topic and the "negative" team countering it, the first-ever ChEscussions will wave diverse perspectives, fostering a nurturing quest of understanding contemporary and societal issues while amplifying the voices of future catalysts for a beacon of innovation.



## 6th ChExpertise

Dedicated to navigating the seas of knowledge, the 6th ChExpertise sets sail on a voyage of productivity and innovation. This pitching, promotional video, and infographics competition for Senior High School students are a compass guiding them towards showcasing competencies and aptitude as professional effective communicators. As these young minds embark on their intellectual journey, they're challenged to craft prototypes contributing to community betterment, proving their resilience as lifelong learners in a global, technology, and research-driven environment. Bon voyage to the most determined minds ready to chart new territories in pursuit of national development!





# PROGRAM OF ACTIVITIES

8:00 AM - 8:30 AM	Registration	12:05 PM - 1:00 PM	LUNCH BREAK
8:30 AM - 8:40 AM	Entrance of Participating Schools, ChEin Reaction Organizing Heads, JPICHE-BatStateU Officers, Faculty Banners and ChEin Original Song	1:00 PM - 1:20 PM	Band Performance Ice Breaker Awards Committee
8:40 AM - 9:00 AM	Pre-show Last Episode of Kwentong ChEin Presentation of Sub-event Teasers	1:20 PM - 1:25 PM	Introduction of Judges 20th ChemCollision
9:00 AM - 9:05 AM	Invocation	1:25 PM - 1:30 PM	Introduction of Quiz Masters 20th ChemCollision
9:05 AM - 9:10 AM	National Anthem	1:30 PM - 1:40 PM	Discussion of Mechanics
9:10 AM - 9:30 AM	Opening Production Number	1:40 PM - 2:20 PM	Competition Proper (EASY ROUND)
9:30 AM - 9:35 AM	Welcoming Remarks Dr. Cristina Amor D. Rosales College of Engineering Dean	2:20 PM - 3:00 PM	Competition Proper (AVERAGE ROUND)
9:35 AM - 9:40 AM	Message Asst. Prof. Rhonalyn V. Maulion, AE Department Chair, Department of Chemical Engineering	3:00 PM - 3:05 PM	Break/Raffle
9:40 AM - 9:50 AM	Introduction of Participating School	3:05 PM - 3:45 PM	Competition Proper (DIFFICULT ROUND and TIE-BREAKERS)
9:50 AM - 9:55 AM	Opening of ChExhibit Booths	3:45 PM - 4:00 PM	Ice Breaker/Intermission/Raffle
9:55 AM - 10:00 AM	Introduction of Sub-events and Participating Teams	4:00 PM - 4:40 PM	Awarding Ceremony 9th SIP 6th ChExpertise ChEscussions 2024 ChErvivor 2024 20th ChemCollision
10:00 AM - 10:05 AM	Introduction of Judges	4:40 PM - 4:50 PM	Closing Production
10:05 AM - 12:05 PM	Commencement of Sub-events	4:50 PM - 4:55 PM	Closing Remarks Engr. Kim Dowell D. Panganiban JPICHE Adviser
		4:55 PM - 5:00 PM	Reminders and Teaser Presentation

CHIEIN  
REACTION  
2024

