

Republic of the Philippines
DEPARTMENT OF EDUCATION
REGION III

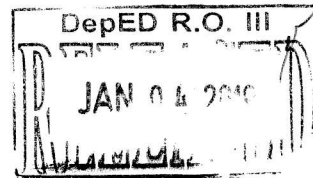
Matalino St., D.M. Government Center, Maimpis, City of San Fernando (P)
Website: www.deped.gov.ph/regions/region-iii ✕ Email: region3@deped.gov.ph
Tel: (045) 5988580 - 89 • Fax Nos. (045) 402-7003 - 05



January 3, 2019

ADVISORY

No. 02 s. 2019



To : **SCHOOLS DIVISION SUPERINTENDENTS**

From : **THE REGIONAL DIRECTOR**

Subject : **NATIONAL SCIENCE AND YOUTH CONGRESS 2019**

1. Please be informed that the **UP Alliance of Chemical Engineering Students (UP AChES)**, a socio-academic organization under the Department of Chemical Engineering, College of Engineering and Agro-Industrial Technology at the University of the Philippines Los Baños, shall conduct the **National Science and Youth Congress (NSYC) 2019**, on **February 9, 2019**.
2. This activity is an inter-high school competition which aims to celebrate today's young innovative minds through a quiz contest (Mental Smackdown), symposium and minor activities (Syntegrate), and a science fair (Youth Greenovation).
3. Attached are the letter of the Activity Head and President and the details of the competitions, for reference.
4. The registration forms for the activity and the primer which contains the mechanics of each event are uploaded at www.nsyncph.weebly.com.
5. For inquiries, please contact the **Activity Head** at **09175362853** or **09497802573** or the **President** at **09985755759**, or visit their Facebook page: **facebook.com/upachesnsyc**.
6. For appropriate action.


BEATRIZ G. TORNÓ, Ph.D., CESO IV
Regional Director

Incls: as stated


clmd10



NATIONAL SCIENCE AND YOUTH CONGRESS 2019

Green Nanotechnology: Leading the
Youth towards a Sustainable Future



MEGAN G. BADONGEN
President

MATT LESTER A. HERRERA
*Vice President for Internal
and External Affairs*

ANGELICA M. LOPEZ
*Vice President for
Organizational Assets*

CLARE ANNE T. LITA
Secretary

RICHARD JARVIS B. DANA O
Treasurer

IAN JEFFREY S. ARTIEDA
Auditor

JOSHUA RYAN C. GUADINES
*Public Relations Officer
for Internal Affairs*

JON PATRICK B. DE GUZMAN
*Public Relations Officer
for External Affairs*

JULIENNE ERIS L. PARAÑAQUE
Academics Committee Head

EMSON MARI I. PUMAR
Membership Committee Head

SENIOR ADVISER
DR. ROWENA B. CARPIO

JUNIOR ADVISER
ENGR. CLARE L. GARING
ENGR. KRISTEL M. GATDULA

*for concerns, email us at
UPACHES@GMAIL.COM*

21st of November, 2018

Ms. Beatriz G. Torno
*OIC-Regional Director, Department of Education – Region III
Republic of the Philippines*

Warm Greetings!

The **UP Alliance of Chemical Engineering Students**, known as UP AChES (EY-ches), is a socio-academic organization under the Department of Chemical Engineering, College of Engineering and Agro-Industrial Technology at the University of the Philippines Los Baños. The organization aims to promote true academic excellence in the field of Chemical Engineering, holistic growth, service and leadership in the industry and society, as well as the promotion of the Chemical Engineering profession.

As part of its continuing goals of serving the community and developing the potentials of every individual, the organization will be holding an activity entitled, **National Science and Youth Congress 2019** on **February 09, 2019**. Also known as NSYC, this activity is an inter-high school competition which aims to celebrate today's young and innovative minds through a quiz contest (**Mental Smackdown**), a symposium and minor activities (**Syntegrate**), and a science fair (**Youth Greenovation**). NSYC will also serve as a venue for Junior and Senior high school students from different parts of the country to showcase their scientific knowledge and practice friendly competition amongst themselves. This year, NSYC will tackle the field of Green Nanotechnology and will prompt the youth on how this field of science can help in having a sustainable future. Additionally, the current situation of Green Nanotechnology in the Philippines will be featured.

NSYC 2019 shall consist of three sub-events: *Syntegrate*, *Youth Greenovation*, and *Mental Smackdown*. **Syntegrate**, which will focus on the theme “**Green Nanotechnology: Leading the Youth Towards A Sustainable Future**”, aims to raise awareness on the recent issues in Green Nanotechnology. In line with this objective, this year's Syntegrate will include a Symposium that will feature speakers who will discuss the current situation of Green Nanotechnology in the Philippines, as well as how it may help in attaining a sustainable future. Different events namely, **On-The-Spot Poster Making Contest**, **Essay Writing Contest**, and **Impromptu Speech Contest** will take place after the Symposium. Meanwhile, for participants who do not opt to compete, an integrating activity will be held, where the students may apply the knowledge they have learned from the Symposium.



NATIONAL SCIENCE AND YOUTH CONGRESS 2019

Green Nanotechnology: Leading the
Youth towards a Sustainable Future



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for concerns, email us at
UPACHES@GMAIL.COM

Youth Greenovation is an inter-high school science fair where the research skills in different fields of study of the Junior and Senior high school students may be showcased and their involvement in the protection and preservation of the environment may be enhanced. It will consist of two categories namely, **Green Life** and **Green Technology**.

Mental Smackdown is a nationwide annual quiz competition for Junior high school students. It aims to give its participants a healthy competition among teams from various schools and provide an avenue for academic growth, not only in the fields of Mathematics, Biology, Chemistry, and Physics, but also in the field of Green Nanotechnology.

In this regard, we are requesting your kind office to approve our event as **DepEd endorsed** and for the **issuance of DepEd Advisories (DAs)** to announce the conduct of the said activity. Rest assured that we will follow all the protocols of the Department of Education regarding the accreditation of activities.

The registration forms for the activity and the primer which contains the mechanics of each event are uploaded in our website (www.nsyncph.weebly.com). You can also visit our Facebook page (facebook.com/upachesnsyc) for more details and announcements on the event. Should you have questions regarding the activity, you may contact the **Activity Head** at **09175362853** or **09497802573** or the **President** at **09985755759**.

We are hoping for your favorable response regarding this matter. Thank you and God bless!

Sincerely yours,


Aljay A. Habulan
Activity Head


Megan G. Badongen
President

Noted by:


Engr. Kristel M. Gatdula
Junior Adviser


Engr. Clare L. Garing
Junior Adviser


Dr. Rowena B. Carpio
Senior Adviser

NATIONAL SCIENCE AND YOUTH CONGRESS 2019

Rationale:

The National Science and Youth Congress (NSYC) is an inter-high school competition which aims to celebrate today's young and innovative minds through a quiz contest (Mental Smackdown), a symposium and minor events (Syntegrate), and a science fair (Youth Greenovation). NSYC serves as an avenue for junior and senior high school students to showcase their scientific knowledge and practice friendly competition among each other from different parts of the country. This year, NSYC will tackle the field of Green Nanotechnology and will prompt the youth on how this field of science can help sustain the future. Also, the current situation of Green Nanotechnology in the country will be featured.

Objectives:

1. To promote UPLB as center of academic excellence;
2. To promote camaraderie and academic excellence among junior and senior high school students
3. To encourage youth as agents of innovation; and
4. To raise the youth's awareness on science related issues relevant to the country.

Date: February 9, 2018

Overall Theme: Green Nanotechnology

Slogan: Green Nanotechnology: Leading the Youth Towards a Sustainable Future

Steering Committees:

Committee	Tasks
Logistics (Heads: Brian, Vince)	Venue, Floor Plans, Projector, Panel Boards, Transportation, Permits, Stage Design Installation
Marketing (Heads: Andrey, May Rose)	Sponsors, Directories, Medals, Trophies, Canvass, Food, Attire, Accommodation, ROI, Money Handling, Budgeting, Financial Reports, Purchasing
Program and Participants (Heads: Aljay, Cherry)	Invitations, School Visits, Web and FB page manager, Program Proper, Participants, Accreditation and Endorsement, Event Tasking, Payments, E-mail Manager, Narrative Report
Publicity (Head: Claud)	Certificates, Tarp Designs, IDs/Nametags, Stage Designs, Web Design, AVP, Primer, Medals, and Plaques Designs

Updates:

1. Logistics
 - Venue: EE Audi + ES Dept + ChE Dept
 - EE Audi – Pencil Reserved
 - No Transportation during event for participants
2. Program and Participants
 - Start of Early Bird Promo: November 5
 - End of Early Bird Promo: November 16
 - End of Extended Early Bird Promo: November 23
 - Mode of Payment: Personal Bank Account/Org Bank Account
 - End of Submission of Application form for Registration: February 1, 2019
3. Publicity

- Update of FB Page and Cover Photo: September 17
- Publishing of Website: September 24
- Release of Pubmat Poster: September 30
- Release of AVP Teaser: October 5
- Release of Primer: October 8

4. Marketing

- 43% YG – 30% MS – 27% Syntegrate (NSYC Merch Profit Division)
- To follow: Sponsorship Directory and Accommodation Details

Programme:

Time	Mental Smackdown	Youth Greenovation	Syntegrate	
7:00 – 8:30	Registration			
8:30 – 9:30	Opening Program**			
9:30 – 9:40	Travel Time to Respective Venues			
9:40 – 9:45	Eliminations Instructions	Briefing, Preparation, Mechanics	NSYC Symposium Opening Remarks	
9:45- 9:50	Eliminations			
9:50 – 11:35		Screening	Symposium Proper	
11:35 – 11:40		Lunch, Judging Time		
11:40 - 11:45			Integrating Activity, Awarding, Closing	Lunch Break for Contestants
11:45 – 12:10	Lunch and Announcement of Top5		Briefing and Contest Proper	
12:10 – 12:30				
12:30 – 12:35		Lunch		
12:35 – 12:45			Announcement of Top 5	

12:45 – 1:00		Travel Time		
1:00 – 1:10	Semi-Finals Mechanics	Briefing & Mechanics, YG Finals, Acknowledgement of Judges		
1:10 – 2:20	Semi-Finals			
2:20 – 2:40				
2:40- 2:55	Clincher Round			
2:55 – 3:00	Break			
3:00 – 3:10	Finals Mechanics			
3:10 – 3:30	Finals			
3:30 – 4:20				
4:20 – 4:30	Clincher			
4:30 – 5:15	Awarding and Closing Remarks			
5:15 – onward s	Pack up			

Opening Program:

Time	Event	Person/s Involved
8:30 – 8:35	Doxology	UP AChES Chorus
8:35 – 8:40	Opening Remarks	Adviser/President
8:40 – 8:50	Roll Call of School Participants	Hosts
8:50 – 9:05	Introduction of Judges	Hosts
9:05 – 9:10	AVP	Technicals
9:10 – 9:30	Briefing, Instructions	Hosts

SYNTEGRATE 2019

Rationale:

NSYC Syntegrate 2019, which focuses on the theme Green Nanotechnology: Leading the Youth Towards A Sustainable Future, aims to raise awareness about the recent issues on green nanotechnology. Green Nanotechnology is a field of science in which nanotechnology products are developed to help sustain the future. In line with the objectives, this year's Syntegrate will include a symposium that will feature speakers who will discuss the current situation of green nanotechnology in the Philippines as well as how it helps sustain the future.

Different events namely On-The-Spot Poster Making Contest, Essay Writing Contest, and Impromptu Speech Contest will take place after the symposium. Meanwhile, for participants who do not opt to compete, an integrating activity will be held. These activities will serve as an avenue for the students to apply the knowledge they have learned from the symposium.

Objectives:

1. To raise the youth's awareness about the country's issues focusing on **green nanotechnology**;
2. To provide highly capable and respectable experts an avenue to share their views and knowledge to the youth;
3. To enable students to participate actively through an interactive forum; and

4. To bring out the great ideas from this generation's young minds through the On-the-Spot Poster Making Contest, Essay Writing Contest, Impromptu Speech Contest, and an Integrating Activity.

Mechanics:

The participant must fill out the NSYC Syntegrate 2019 Google form uploaded at www.nsyncph.weebly.com and submit it to nsyncph@gmail.com. In the said form, the participant must choose if he/she will attend the symposium or he/she will compete in any of the three events. (On-the-Spot Poster Making Contest, Essay Writing Contest, and Impromptu Speech Contest)

Symposium

1. The participant must choose "Symposium" in the NSYC Syntegrate 2019 Google form
2. Registration fee **per participant** (inclusive of one meal and NSYC Kit) is at **Php 150.00** for regular registration and **Php 200.00** for walk in.
3. Each school can send **as many student participants as they can** to partake in the annual symposium.
4. Each school can also send a maximum of **three (3) teachers** as participants in the symposium;
5. An integrating activity will be held after the discussion proper.
6. The deadline for regular registration is on **February 1, 2019**.

On-the-Spot Poster Making Contest

1. The participant must choose "On-the-Spot Poster Making Contest" in the NSYC Syntegrate 2019 Google form.
2. The participant can either be from **grades 7, 8, 9, 10, 11, or 12**.
3. The participant **must attend** the Symposium

4. Registration fee (Symposium + On-the-Spot Poster Making Contest) **per participant** (inclusive of one meal, NSYC kit, and art materials) is at **Php 200.00** for regular registration and **Php 250.00** for walk in.
5. Each school can send a maximum of **two (2) participants** to partake in the On-the-Spot Poster Making contest.
6. On the event proper, the participants must create their piece/artwork on a **one-eight (1/8) illustration board** to be provided.
7. Participants may only use **art materials (oil pastel and cotton)** which will be provided on the event proper, for their poster.
8. Participants are given **one (1) hour and thirty (30) minutes** to work on their poster.
9. A participant will be **disqualified** for using any art materials other than the ones provided.
10. The criteria for judging will be the following:

Creativity	30%
Relevance to the Theme	35%
Coherence	20%
Originality	15%
TOTAL	100%

11. The **top three (3) winners** will receive the following prizes:
1st place – Certificate, Medal, Php 3,000.00
2nd place – Certificate, Medal
3rd place – Certificate, Medal
12. The decision of the **three (3) judges** will be final and irrevocable.
13. The deadline of the regular registration is on **February 1, 2019**.

Essay Writing Contest

1. The participant must choose “Essay Writing Contest” in the NSYC Syntegrate 2019 Google form.
2. The participant can either be from **grades 7, 8, 9, 10, 11, or 12**.
3. The participant **must attend** the Symposium

4. Registration fee (Symposium + Essay Making Contest) **per participant** (inclusive of one meal, NSYC kit, and art materials) is at **Php 200.00** for regular registration and **Php 250.00** for walk in.
5. Each school can send a maximum of **two (2) participants** to partake in the Essay Making contest.
6. Participants are given **one (1) hour and thirty (30) minutes** to finish their essay.
7. The essay should be written in **English** – minimum of **500 words** but no more than **750 words** including the title.
8. Ball pens and a piece of paper will be provided.
9. The participant may use any blue/black ball pen but must only use the paper provided.
10. The participant is only allowed to write on one side of the paper.
11. A deduction of **five percent (5%)** to the final score will be given for not following directions.
12. The criteria for judging will be the following:

Organization and Coherence	30%
Relevance and Content	50%
Grammar	15%
Neatness	5%
TOTAL	100%

13. The **top three (3) winners** will receive the following prizes:
1st place – Certificate, Medal, Php 3,000.00
2nd place – Certificate, Medal
3rd place – Certificate, Medal
14. The decision of the **three (3) judges** will be final and irrevocable.
15. The deadline of the regular registration is on **February 1, 2019**.

Impromptu Speech Contest

1. The participant must choose “Impromptu Speech Contest” in the NSYC Syntegrate 2019 Google form.
2. The participant can either be from **grades 7, 8, 9, 10, 11, or 12**.

3. The participant **must attend** the Symposium
4. Registration fee (Symposium + Impromptu Speech Contest) **per participant** (inclusive of one meal, NSYC kit, and art materials) is at **Php 200.00** for regular registration and **Php 250.00** for walk in.
5. Each school can send a maximum of **two (2) participants** to partake in the Impromptu Speech contest.
6. The participant will be given a topic/issue regarding the theme and will be given **thirty (30) seconds** to read and think and **three (3) minutes** to finish his/her speech.
7. There will be a **1% deduction** for every **10-second extension** and a fraction thereof.
8. The criteria for judging will be the following:

Organization of Ideas	15%
Relevance to the theme	20%
Content	25%
Delivery and Coherence	25%
Use of Language (grammar and diction)	15%
TOTAL	100%

9. The **top three (3) winners** will receive the following prizes:
1st place – Certificate, Medal, Php 3,000.00
2nd place – Certificate, Medal
3rd place – Certificate, Medal
10. The decision of the **three (3) judges** will be final and irrevocable.
11. Participants are **required** to wear a **semi-formal/formal attire** (school uniform is not considered as semi-formal) during the contest proper. Failure to do so will result to a deduction of **three percent (3%)** to the final score.
12. The deadline of the regular registration is on **February 1, 2019**.

Programme

Time	Event		Person Involved	Venue
7:00 – 8:30	Registration			EE Audi
8:30 – 9:30	Opening Program			EE Audi
9:30 – 9:40	Travel Time		Syntegrate Member	
9:40 – 9:45	NSYC Symposium Opening Spiel		Host	CEATLH
9:45 – 9:50	Opening Remarks		Syntegrate Head	CEATLH
9:50 – 9:55	Brief Introduction of First Speaker		Hosts	CEATLH
9:55 – 10:25	First Resource Speaker		First Speaker	CEATLH
10:25 – 10:40	Open Forum		First Speaker	CEATLH
10:40 – 10:50	Intermission Number/Break		TBA	CEATLH
10:50 – 10:55	Brief Introduction of Second Speaker		Hosts	CEATLH
10:55- 11:25	Second Resource Speaker		Second Speaker	CEATLH
11:25 – 11:40	Open Forum		Second Speaker	CEATLH
11:40 – 12:10	Integrating Activity	Lunch Break for Contestants		CEATLH/ES DEPT
12:10 – 12:20	Awarding	Briefing	Syntegrate Head/Hosts	CEATLH/ES DEPT
12:20 – 12:30	Closing Remarks	Contest Proper		CEATLH/ES DEPT
12:30 – 2:20	Lunch			CEATLH/ES DEPT
2:20 – 4:30		Judging		CEATLH/ES DEPT

4:30 – 5:15	NSYC Closing Ceremony		EE AUDI
5:15 onwards	Pack up!		

YOUTH GREENOVATION 2019

Youth Greenovation 2019 is an inter-school science fair open to junior and senior high school students. It serves as an avenue for showcasing students' research skills in different fields of study and enhancing their involvement in the protection and preservation of the environment. It consists of two categories: Green Life and Green Technology.

Objectives:

1. To increase the youth's awareness in preserving and protecting the environment through advancements and research in the scientific field; and
2. To enhance the critical and creative thinking of the youth in the advancement of technologies.

Mechanics:

• Pre-Event Judging (Elimination Round)

1. The event is open for **junior and senior high school students**.
2. The participant must fill out the Youth Greenovation Science Fair and Exhibit 2019 Google form uploaded at www.nsyncph.weebly.com. The team must also download and fill out the necessary forms (Application Form, Certification Project, Certification as Project Adviser, and Abstract Form) uploaded in the website and submit it together with a scanned copy of school ID to ygnsync@gmail.com.
3. Each team must consist at most three members who are certified and bona fide researchers of the said project. Registration fee is at **Php 500 per project**.

4. The Science Fair consists of two categories: Green Life and Green Technology

A. Green Life Category consists of projects related to the following fields of study:

- i. Animal Sciences
- ii. Biochemistry
- iii. Cellular and Molecular Biology
- iv. Environmental Management
- v. Plant Sciences
- vi. Microbiology
- vii. Medicine and Health

B. Green Technology consists of projects related to the following fields of study:

- i. Chemistry
- ii. Computer Science
- iii. Earth Science
- iv. Electrical and Mechanical Engineering
- v. Materials Engineering
- vi. Bioengineering
- vii. Energy and Transportation

5. The research paper must be type written in an **8.5" x 11"** document, font must be **Times New Roman**, font size of **12**, and to be submitted in **PDF Format** with the file name "**GLife (Name of School)**" and "**GTech (Name of School)**" for the Green Life and Green Technology Category respectively.

6. For multiple entries from the same school, the files must be named as "**GLife/GTech (Name of School) A**" for the first team, "**GLife/GTech (Name of School) B**" for the second team, and so on.

A. Title/School/Researchers (First Page Heading), i.e.

Characterization of Microorganisms Using Natural Metabolic Frequencies
Harnessing its Potential in Detecting Infestations among Agricultural
Crops and Commercial Goods in Storage

University of the Philippines Los Banos

Jimena, Cherry Mae V., Mercado, Vince Joseph A.

B. Introduction

- Background of the Study
- Statement of the Problem
- Significance of the Study (**must pertain to green innovations; its role in changing the world and the environment**)
- Statement of Hypothesis

C. Summarized Review of Related Literature (**maximum of 2 pages**)

D. Materials and Methods

- Provide necessary pictures and diagrams
- Present an experimental flow chart
- Detail all procedures including the data collection
- Identify any potential risks and safety precautions needed

E. Results and Discussion

F. Conclusion and Recommendations

G. Bibliography/Citations (**APA Format**)

7. A deduction of **three (3) percent** will be given for not following the format.

8. Entries together with other requirements must be submitted to ygnsysc@gmail.com. Categorization of entries is final. Deadline of submission is on **December 8, 2018**.

Confirmation of Qualification: Three (3) judges per category will evaluate the extended abstracts (Abstract Form) of the submitted projects. The **top 75% finalists** for each category who will qualify in the event proper will be determined on the following grading system:

A. Creativity and Originality	35%
B. Significance of and Impacts <ul style="list-style-type: none"> • Reproducibility • Sustainability • Benefits to the Society 	35%
C. Content <ul style="list-style-type: none"> • Completeness 	30%

<ul style="list-style-type: none"> • Briefness and Conciseness • Technical Writing Skills 	
TOTAL	100%

9. A confirmation email will be sent to the finalists not later than the second week of January 2019, right after the judges finished evaluating the said projects. Also, the list of finalists will be posted in the NSYC facebook page.

• **Event Proper (Semi-Final Round)**

1. All qualifiers must prepare a **PowerPoint Presentation** (a copy must be sent to ygnsysc@gmail.com on or before **February 1, 2019**) and **3 feet by 5 feet tarpaulin** (to be brought on the contest proper) of their projects. The tarpaulin must be on **portrait orientation** and must contain the following:

- Title
- Introduction
- Objectives
- Methodology (Flowchart)
- Results and Brief Discussion
- Conclusion
- References

NOTE: The PowerPoint Presentation and tarpaulin should not include the name of the school where the researchers are from. (If the tarpaulin already has a school name and logo, the researchers should cover it logo by any means.)

Failure to submit a PowerPoint Presentation on time will result to 3 percent deduction on the team's final score for each day the submission is delayed.

2. The exact venue for the contest proper will be announced in the confirmation emails.
3. The qualifying teams will be given **5 minutes** to present and answer questions (if any) from the judges.

4. The **Top 5 teams** will be chosen for the final round using the following criteria:

A. Content (Presentation of Ideas, Writing Skills, and Thoroughness) <ul style="list-style-type: none"> • Introduction and Background of the Study • Significance of the Study • Statement of the Problem and Statement of the Hypotheses • Review of Related Literature • Materials and Methods • Results and Discussions • Conclusions and Recommendations 	35%
B. Significance and Impact <ul style="list-style-type: none"> • Sustainability % benefits to the Environment and Local Community • Educational Contribution 	20% 15%
C. Research Skill <ul style="list-style-type: none"> • Proper use of methods and equipment, if any • Appropriate data presentation 	15%
D. Presentation	15%
TOTAL	100%

• **Final Round**

1. The **top 5 teams** that will advance to the Final Round will present their projects. Each team will be given **ten minutes** to present and **fifteen minutes** to answer the questions from the judges.
2. The **top 5 projects** of each category will be judged based on the following criteria:

A. Creativity and Resourcefulness <ul style="list-style-type: none"> • Innovative design/idea shown • Intelligence and imagination in finding ways/means to undertake the project 	30%
B. Scientific Thought and Greenovation Goals	30%

<u>Scientific Thought</u> <ul style="list-style-type: none"> • Creative ability in presenting the problem; in the approach to solve the problem; in the analysis and presentation of data; in the use of equipment • Clear and unambiguous statement of the problem • Well-defined objectives/procedures • Clearly-recognized/delineated variables • Adequate data to support conclusions <u>Greenovation Goals</u> <ul style="list-style-type: none"> • Economically feasible solutions • Significant improvement over previous alternatives • Potential contributions 	
C. Thoroughness <ul style="list-style-type: none"> • Familiarity with scientific literature in the studied field • Awareness of other approaches or theories • Appropriateness of methodology • Statistical Analysis 	20%
D. Research Skill <ul style="list-style-type: none"> • Use of laboratory equipment/innovative resources, if any • Appropriate, orderly, and effective presentation of data 	20%
E. Documentation, Presentation, and Writing Skills <ul style="list-style-type: none"> • Clear, orderly, and effective presentation of the project • Model, if any 	10%
TOTAL	100%

3. Three (3) winners for each category will be chosen. The winners will receive the following prizes:

1 st Place	Certificates, Medals, and 7,000 pesos
2 nd Place	Certificates, Medals, and 4,000 pesos

3 rd Place	Certificates, Medals, and 2,000 pesos
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- During the event/contest proper, the researcher/s should be present together with their adviser. In case the adviser is not present as an official guardian of the students, an endorsement letter of the alternate guardian must be presented, signed by the Principal or Science and Technology Department Head.
- The researchers are required to wear **semi-formal attire** during the contest proper (**school uniforms will not be considered as semi-formal attire**). Failure to follow the prescribed attire will result to a deduction of **three (3) points** in the team's final score.
- The researchers are advised to bring their school ID during registration on the event proper.

PROGRAMME

Time	Task/Event	Persons Involved
7:00-8:30	Registration	Members
8:30-9:30	Opening	
9:30-9:40	Travel time	YG Member
9:40-9:50	Briefing, Preparation, Mechanics	Members
9:50-11:35	Green Life and Green Technology Screening	Members
11:35-12:35	Lunch, Judging time	Judges, Members
12:35-12:45	Announcement of Top 5	Hosts
12:50-1:00	Travel time	Members
1:00-3:30	Briefing & Mechanics, YG Finals, Acknowledgement of Judges	Members, YG Heads
4:00-5:00	Awarding and Closing Ceremony	

MENTAL SMACKDOWN 2019

Rationale:

Mental Smackdown is a nationwide annual competition for junior high school students. It aims to give its participants a healthy competition among teams from various schools and provide an avenue for academic growth, not only in the fields of mathematics, biology, chemistry, and physics but also in the field of environmental issues, which for this year, is about **green nanotechnology**.

Objectives:

- To promote academic and intellectual excellence among junior high school students;
- To measure and challenge the strategic capability of the participants;
- To recognize participants who are interested in mathematics and sciences as well as in the field of nanotechnology;
- To encourage the participation of students, as well as their coaches, in broadening knowledge and in increasing awareness on issues regarding green nanotechnology.

Mechanics:

- Each school can be represented by a maximum of **two (2) teams**; wherein each team is composed of **three (3) members**. The members of the team shall consist of **one (1) representative** each from **8th grade, 9th grade, and 10th grade**. **Participants are required to wear their respective school uniforms and school IDs. Duly registered teacher-coaches are also required to wear their respective school IDs.** Failure to comply will result to **disqualification**.
- Participants must fill out the Mental Smackdown 2019 Applications form uploaded at www.nsycph.weebly.com. Deadline of submission of forms for registration will be on **February 1, 2019** respectively.

- Registration fee is at **Php 400.00** (inclusive of food for the three members of the team and NSYC Kit) **per team** while walk-in registration is at **Php 500.00** (inclusive of food for the three members of the team and NSYC Kit) **per team**.
- Mental Smackdown 2019 will be divided into three (3) rounds, namely, the **Elimination Round**, the **Semi-Final Round**, and the **Final Round**.

Elimination Round

- In the Elimination Round, all members of the team will take written **multiple-choice type** exam. The exam consists of **100 questions** from **Biology, Chemistry, Physics, and Mathematics**, which is good for **two (2) hours**. Moreover, questions in relation to this year's theme, **green nanotechnology**, are also included.
- The final score for this round will be determined from the **mean scores of all three members** for the team. Then, all three members of the team will proceed, if it happens so, to the Semi-Final and Final Rounds
- The number of teams that will proceed to the Semi-Final round will be announced **before the Elimination Round**.

Semi-Final Round

- The Semi-Final Round is a team versus team round. This round will be divided into three levels namely, the **Easy, Average, and Difficult** levels.
- Pointing system, time allotment to answer the question and type of questions for each level is summarized below:

Level	No. of Questions	Time Allotment	Type of Question	Point		
				Correct	Incorrect	No Answer
Easy	10	15 sec	Multiple Choice, Identification	1	0	0
Average	7	30 sec	Multiple Choice, Identification, Problem Solving	3	-1	0
Difficult	5	60 sec	Multiple Choice, Identification, Problem Solving	5	-3	-2

- Each question will come in **random categories** (Biology, Chemistry, Physics, Mathematics, or Theme-Related)
- This round is equipped with **power-ups** which the teams may opt to use.
 - A total of **six (6) power-ups** will be given to each of the participating teams before the start of the Semi-Final Round. These six are consisted of the following items.

Quantity	Item	Power
5	Nanorod	Multiplier (x2)
1	Bucky ball	Immunity

- After the category of the question is revealed, the teams will be given a chance to choose if they are going to use a power-up or not. This means that they are only allowed to use a **maximum of six (6) power-ups** to at most **six (6) different questions only**. The choice of consuming all the

six power-ups within the 22-questioned Semi-Final Round or not is also up to the team.

- c) The team has decided –
i. To use a multiplier

Once they have already decided to use a nanorod, reading the question will proceed. After reading the answer, the chosen power-up will take effect. The corresponding point/s for that certain question if the team answered correctly, incorrectly, or no answer at all will be doubled.

ii. To use an IMMUNITY

Once they have already decided to use the bucky ball, reading of the question will proceed. After revealing the answer, the chosen power-up will take effect. If the team answered correctly, they will have the full point/s for that certain questions. If the team answered incorrectly, they will have the full point/s for that certain question. However, if the team answered correctly or had no answer at all, no points (0) will be accounted for that certain question.

iii. Not to use any power-ups

After not choosing any of the power-ups, reading of the question will proceed. After the answer is revealed, the original scoring point for that certain category question will be accounted for whether or the team answered correctly, incorrectly, or no answer at all.

12. The **Top Five (5) teams** who will get the highest scores will proceed to the Final Round.

Final Round

13. **Thirteen (13) questions** will be asked in random categories (General Science, Biology, Chemistry, Physics, Mathematics, or Theme-Related) to be answered within **60 seconds**. In this round, the difficulty of the questions is not categorized anymore; thus, may come in random. In addition, no more power-ups will be included in the questions.
14. At the start of the Final Round, the score accumulated by the top five (5) teams from the Semi-Final round will no longer be included; meaning, all teams' scores will revert back to zero.
15. This round will have the following pointing system:

Round	No. of Questions	Type of Question	Point		
			Correct	Incorrect	No Answer
Finals	13	Multiple Choice, Identification, Problem Solving	1	-1	0

For the Semi-Final and Final Round

16. Each question will be flashed on the screen and will be read by the quiz masters twice. After the **second (2nd) reading**, the quiz masters shall say **“go”**. Automatically, the time allotted per question will begin with the word “go” by the quiz master. Members can write their answers on the answer boards once the question is flashed on the screen. After the time limit and the buzzer sounds, the team must stop writing and raise their answer boards. The quiz master shall read and verify the teams' answer.
17. The final answer should be written **legibly** and **encircled**, otherwise the answer will **NOT be considered**. Moreover, **numeric** final answers resulted from calculations should be **rounded off into 2 decimal places** *UNLESS OTHERWISE

STATED* Also, **abbreviated** final answer will not be considered, otherwise stated in the question. Each team will be given **ONE** calculator to use. However, for certain questions where the use of calculators is prohibited, the calculators shall be surrendered to the proctors and shall be returned only after the answer for that question is announced. Calculators to be used will be **Casio fx-991ES plus** and will be **provided** by the proctors.

Clincher Round

18. In case of a tie, in the Semi-Final or the Final Round or both, a clincher round will be carried out. The **first team to answer incorrectly** or has **no answer at all** (while the other team(s) answered correctly) will lose the chance to win the round. The last one remaining team will get the place where the teams had tied.
19. If two or more teams get the correct answer at the same time, these teams will advance to the next question until the **top 5** (Semi-Final Round) and the **top 3** (Final Round) will be filled in.

Awarding

20. After the Final Round, the team who gets the highest score will be automatically declared the **Champion**; and the second (2nd) and third (3rd) highest will be declared **First Runner-Up** and **Second Runner-Up**, respectively.
21. The top 3 teams will receive the following prizes:

Champion – Trophy, Medals, Certificates and 10,000 Php

First Runner-Up – Medals, Certificates and 3000 Php

Second Runner-Up – Medals, Certificates and 2000 Php

Protests

22. Protests can be made only by **any member or the duly registered teacher-coach** of the team. These should be referred to the Board of Judges immediately, before the quiz masters read the next question, failure to do so shall nullify the protest and the contest proper shall proceed.
23. The decision of the Board of Judges is **final** and **irrevocable** in all questions/protests.

Programme

Time	Task/Event	Remarks
7:00 – 8:30	NSYC Registration	
8:30 – 9:30	Opening Program	-Opening Remarks (c/o Megan or adviser) -Prayer (UP AChES Chorus) -School Roll Call -Introduction of Judges -Room Assignments
9:30 – 9:40	Travel Time	Seating arrangements for Elimination
9:40 – 9:45	Eliminations Instructions	DOs and DON'Ts for Eliminations Round
9:45 – 11:45	Eliminations	
11:45 – 1:00	Lunch	-Checking, Announcement of Qualified Teams or Semis -Seating Arrangements for the Teams
1:00 – 1:10	Semi-Finals Mechanics	-Mechanics -Questions and Clarifications
1:10 – 2:40	Semi-Finals	
2:40-2:55	Clincher Round	
2:55 – 3:00	Break	
3:00 – 3:10	Finals Mechanics	-Mechanics -Questions and Clarifications

3:10 – 4:20	Finals	
4:20-4:30	Clincher	
4:30 – 5:15	Awarding & Closing Remarks	c/o Aljay Habulan
5:15 onwards	Pack up!	

UNIVERSITY OF THE PHILIPPINES LOS BAÑOS
College, Laguna, Philippines 4031

OFFICE OF THE CHANCELLOR

24 October 2018

Dr. Leonor Magtolis Briones
Secretary
Department of Education
DepEd Complex, Meralco Ave.,
Pasig City, Metro Manila

Dear **Secretary Briones**:

This is to endorse the **National Science and Youth Congress 2019 (NSYC)** of the UP Alliance of Chemical Engineering Students (UP AChES), a duly recognized socio-academic organization of the Department of Chemical Engineering, College of Engineering and Agro-Industrial Technology, University of the Philippines Los Baños (UPLB), scheduled on **09 February 2019**.

The NSYC 2019 is an inter-high school competition which aims to celebrate today's young and innovative minds through a quiz contest (Mental Smackdown), a symposium (Syntegrate), and a science fair (Youth Greenovation). It will also serve as a venue for junior and senior high school students from different parts of the country to showcase their scientific knowledge and practice friendly competition among them.

The NSYC 2019 will serve as a significant platform to advance the thrusts of chemical engineering in the country and at the same time provide an avenue for meaningful exchanges and collaborations among its participants.

Thank you very much.

Truly yours,


SERLIE B. JAMIAS
Vice Chancellor for Community Affairs
and Officer-in-Charge

cc: OSA
CEAT Dean's Office
Dr. Rowena B. Carpio, Senior Adviser, CEAT
Engr. Clare L. Garing, Junior Adviser, CEAT
Engr. Kristel M. Gatdula, Junior Adviser, CEAT
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University of the Philippines Los Baños
Office of Student Affairs
STUDENT ORGANIZATIONS AND ACTIVITIES DIVISION

Room 8, Student Union Building, University of the Philippines Los Baños, College, Laguna 4031
Tel. No.: (049) 501-6761 | soad@uplbsa.org | www.uplbsa.org | http://www.facebook.com/uplbsa

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SOAD
DATE 11/12/18
TIME 1:00 PM

ACTIVITY PERMIT

A-11278

Organization
Title of Activity
Activity Type
Purpose
Date/Time/Venue

ID-124: UP ALLIANCE OF CHEMICAL ENGINEERING STUDENTS (UP ACHES)
National Science and Youth Congress
Contest - Academic Development
To promote camaraderie and academic excellence among high school students and encourage them as agents of innovation.
Sat, February 9, 2019 (7:00 AM-7:00 PM) @ EE Auditorium

COPY OF ORGANIZATION

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Venue certified available:

KAREN-CHRISTINE C. AGNO

Venue Administrator's Name and Signature

We agree to be present in and take full responsibility of the activity and submit the photos and narrative reports online a month after. This permit MUST be signed and submitted to SOAD on or before **Fri, February 1, 2019 (4pm)**, otherwise this permit becomes INVALID. Tampering or editing this form is strictly prohibited unless it has been authorized by a SOAD personnel.

MEGAN G. BADONGEN

Head

CLARE L. GARING

Junior Adviser

ROWENA B. CARPIO

Senior Adviser

Attachments:
-mechanics and prizes

Recommending approval:

Approved:

ROCKY T. MARCELINO
Head, SOAD

ELENO O. PERALTA
OIC, OSA