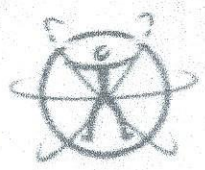


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RECORDS SECTION

Pambansang Kapiguanan ng mga Kabataan Samahang (PHILIPPINE SOCIETY OF YOUTH SCIENCE CLUBS)



Office of the National Director  
1001 EDSA, Alabang, Muntinlupa City

Office of the Regional Director  
16102248

October 17, 2016

Dir. Diosdado M. San Antonio  
Regional Director  
Department of Education – Region 4A  
Gate 2, Karangalan Drive, Cainta, Rizal

Dear Dr. San Antonio,

Greetings from the Science Clubbing Movement!

The Philippine Society of Youth Science Clubs (PSYSC) is a national organization of science clubs geared towards the promotion of scientific interests and consciousness among our youth. On its 45<sup>th</sup> year of existence, the organization continues to deliver quality and timely programs that supplement elementary and secondary science education.

On December 17-20, 2016, we will be conducting the 2016 National Children's Science Interactive Workshop (NCSIW 2016) in Bataan with the theme "Techno-surge: Rebooting the Syndroid System." This year's NCSIW will focus on understanding the fundamental concepts and current trends and breakthroughs in the field of Robotics. NCSIW 2016 also aims to promote research and development among elementary students by exposing them to robotics being a field of study and a possible career path. Other activities that will be highlighted are series of lectures and workshops, exposure trips and other educational and fun-filled activities.

Robotics is a very significant topic for the children as it has broad applications encompassing the areas of space and underwater exploration, manufacturing, medicine, agriculture, and consumer. Introducing them to robotics will expose them to the wonders and limitless potential of this emerging field of technology and hopefully encourage them to take an active role in its development. Hence, we would like to seek your provision by helping us in disseminating this information through advisories and endorsement to schools in your region. We have attached the materials needed for your reference.

We are hoping for your positive response. Should you have questions, please do not hesitate to contact us through the numbers indicated above. Please allow us to follow up on this matter.

Thank you very much and more power!

In the service of the Filipino Youth,

*Andre Rhey C. Haro*

Andre Rhey C. Haro  
Director  
NCSIW 2016

7999

10-26-16 1419

Noted by:

*Dr. Manolo G. Mena*

Dr. Manolo G. Mena  
Chairman

*Mark Ronald D. Eborde*

Mark Ronald D. Eborde  
President

*To: SDS  
For your appropriate  
action, please  
Thank - God bless  
[Signature]*



## NCSIW Science Fair 2016

NCSIW Science Fair 2016, an interelementary school competition, is a pioneering effort of the Philippine Society of the Science Clubs (PSYSC) that aims to meet the following objectives:

- 1. Promote Science, Technology and Environment among elementary school students;
- 2. Encourage research and development among students at the elementary level;
- 3. Provide a venue of interaction between young intellectuals and experts in the fields;
- 4. Facilitate an atmosphere of competitiveness as well as alliance in achieving scientific breakthroughs; and
- 5. Recognize the brilliance of budding scientists, engineers and researchers.

### PARTICIPANTS

The competition is open to all registered schools of the NCSIW 2016. A school may have at most two (2) entries. This is a team competition composed of a maximum of 3 students (with 1 student as an alternate presenter) and 1 adult of the participating school. The students and teachers to be participants to the NCSIW 2016. Student participants should be bona fide students of the school represented. The adviser should be a member of the faculty or administration of said school.

### GENERAL GUIDELINES

1. Rules and Regulations have been promulgated to govern the competition. Any matters arising from the same, shall be referred to the NCSIW 2016 Core Committee and its decision shall be FINAL and EXECUTORY.

2. The year's Science Fair focuses on addressing existing environmental problems in the Philippines

3. Innovative technology. Participants are to create a research-themed invention that will address such problems. They must incorporate mechanical, electrical, and/or computer-related approaches in developing an invention that will tackle environmental concerns. Inventions must have a good impact to the community and that it will help in creating a sustainable milieu for everyone.

4. Inventions must be the student's own original idea. Assistance is acceptable when building the invention, especially with safety and gathering materials, however the actual and main effort should be student-driven. Any help from adult must be documented in your Invention Journal (see "Invention Journal" section below for more information). Please remember, the inventions can include objects, projects, or finding a better way of doing something.

3. Safety is a priority. Inventions may NOT include: animals, matches, open flames, or dangerous chemicals. In addition, the use of electrical outlets will be permitted upon request and with the proper assistance. If you have questions regarding safety guidelines, please contact the NCSIW 2016 Core Committee at [psysc.nsiw2016@gmail.com](mailto:psysc.nsiw2016@gmail.com). Please keep in mind the safety of the many small children viewing the inventions during NCSIW 2016.
4. All entries must be original and should NOT have been presented in other competitions. The PSYSC has the right to distribute the Invention Journal for each entry to affiliates as part of their benefits from the organization.
5. The event is made up of two (2) parts: the Preliminary Judging and the Final Exhibit and Final Presentation.

### INVENTION JOURNAL

1. The Invention Journal is intended to be a working document and is viewed as a necessary piece of the inventing process. The journal should document steps taken to develop the invention—from initial brainstorming, through prototyping, to final submission.
2. The Invention Journal can be handwritten or encoded. An A4-sized (8.27" x 11.69") bond paper must be used.
3. First page must include the Title Page indicating: (1) Name of the Invention, (2) School's name, (3) Name of Science Club adviser and contact number, and (4) Corresponding names of student inventors.
4. There will be 5 Major Sections of the Journal and each section must begin on a new page. Section headings should be centered on the page.
5. The following are the major Sections and the corresponding description of expected information indicated:

- Initial Brainstorming: This part is valuable to the learning process and it is important for inventors to document how their idea took shape. In this section, you are to narrow down invention ideas and describe here how the idea evolved.
- Statement of Problem and Solution Ideas: Description of the problem to be solved and possible ways on how to solve it
- Description and Importance of the Invention: Describe the invention and how it solves the above stated problem. Include the steps taken to arrive at the solution.
- Design Plans, Diagrams, and Inventor's Notes: Inventors may show their designs or drawings on separate paper. In addition, if safety factors required an adult to assist, document who helped, the date, and how they helped.
- Test Your Invention: To show that your idea works, you should test it. Write the results of your tests. If it didn't work the first time, how did you change it and what were the results?

A softcopy of the Invention Journal must be submitted on or before Dec. 5, 2016 for preliminary judging. Once qualified, two hard copies are needed—one must be submitted during the registration proper on Dec. 17, 2016 and must be displayed along with the (1) Prototype, (2) model and/or schematic diagram and (3) the invention poster during the Official Exhibit, 9:00 AM to 12 NN of Dec. 17, 2016.

### PRELIMINARY JUDGING

1. Participants must submit a soft copy of their Invention Journal strictly on or before December 5, 2016 through our official email [psysc.nsiw2016@gmail.com](mailto:psysc.nsiw2016@gmail.com) with the email subject "NCSIW 2016 Science Fair Project -Name of Schools".
2. The Invention Journals submitted shall be pre-screened by our official judges. The official list of qualifiers for the final presentation and defense shall be released on December 8, 2016 at our official Facebook page.
3. Only the top five (5) teams based on the pre-final standing will advance to the Final Presentation and Defense. However, if there will only be ten (10) teams or less who joined, all of them will advance.
4. Preliminary Judging will be done on the following:

#### Overall Impression of the Invention (75%)

- Originality & Creativity (10%): Does the invention show imaginative problem solving and provide a novel solution?
- Earth Friendly (20%): Is this invention sensitive to our growing needs to be friendly to the Earth?
- Complexity (15%): Does the invention show significant depth and attention to detail?
- Innovation (20%): Is this a pioneering invention or an incremental improvement? Could it be made into a working device?
- Significance (20%): How significant is the problem being solved? Does it solve a problem of importance to others?

#### Documentation (20%)

- How well the Invention Journal explains the invention.
- Sufficient amount of data and explanation is presented.
- Clarity of graphs/illustrations used in the Journal

#### Scope of Help received with the Project (5%)

### OFFICIAL EXHIBIT AND PRESENTATION

1. Only the published qualifying teams are allowed to register at the sign-up booth for the contest installed during the registration on the event proper.
2. The qualifying teams should pass a hard copy of their Invention Journal during registration.

### EXHIBIT

1. Each registered qualifying team will be provided with a display area with a given dimension of 1.5m x 1.5m. The materials to be displayed must fit within the given dimensions. Otherwise, 5% will be deducted from the overall score of the team for the final exhibit.
2. Create an attractive display or perhaps an advertisement that will convince the judges and the world that they need what you have invented. Each exhibit display must include:

- a. a prototype, a model, and/or schematic design of the invention;
- b. a poster (4ft x 3 ft) providing information on what the invention is, highlighting the problem being addressed/its importance and how it works, and a copy of the Invention Journal.

3. The Exhibit score will be based on the following criteria:

- Overall appearance of Display (25%): Is the inventor's display eye-catching, attractive, and neatly done?
- Inventor's Journal (35%): Does the inventor's Journal clearly document their invention process, from brainstorming, through prototyping, to final product?
- Invention Model/Prototype or Schematic Design (40%): How effective was the model/prototype or design in illustrating the idea?

## PRESENTATION

1. Only two (2) participants are allowed to facilitate the presentation for each team on December 17, 2016, from 9:00 AM to 12 NN.
2. Each team will be given a maximum of five (5) minutes to deliver their oral presentation. The presenter will be forced to stop after the given time.
3. The oral defense will follow immediately after the oral presentation. Each team will be given 10 minutes (max) for this.
4. Contestants may only use PowerPoint Presentation or in PDF format for their presentations.
5. The Presentation score will be based on the following criteria:
  - I. Content and flow of presentation (40%)
  - II. Delivery and presentation skills (30%)
  - III. Mastery of the topic (30%)

## FINAL STANDING

1. The final standing will be based on the following:
  - I. Preliminary Judging (30%)
  - II. Final Exhibit (40%)
  - III. Final Presentation (30%)
2. Only three winners will be declared: Champion, 1st runner-up, and 2nd runner-up. The Champion will receive a trophy/plaque for the school, medal and certificate of recognition for each of the student participants. The 1st and 2nd runner-ups will also receive certificates of recognition for the participants.
3. The decision/s of the Board of Judges is/are final and irrevocable.
4. The NCSIW 2016 Core Committee reserves the right to modify rules deemed necessary without prior notice.

## CHEATING

The NCSIW 2016 Core Committee reserves the right to disqualify any participant found to commit cheating in any form. Also, the committee reserves the right to revoke any award given to any team found to commit cheating, upon which the participants should return all prizes obtained. Cheating includes plagiarism and other crime committed under the laws regarding patent.

## Future Culture Backtrack: Mission Cuisine (Pasalubong Festival)

1. All participating schools in NCSIW 2016 can join the Pasalubong Festival.
2. Only registered teachers from the participating schools are allowed to join, via a sign-up sheet available in the registration area during the event proper/along with the brochure/online.
3. Participating schools are advised to bring local food products and goods for at least a hundred people. Each participating school will be given their own space to set-up their booth on the night of date under the theme Future meets Culture, where participants must display and integrate elements of robotics and their home province simultaneously.
5. Participants are encouraged to use recycled materials and minimize expenditures, or their booths, which in turn may reflect on their chances of winning the Green Mover award (see 8.).
6. The foods and goods brought are NOT to be sold. They must be shared to the science clubbers who would want to have a taste of their delicacies or experience the different products of the regions.
7. Teachers are NOT allowed to ask help from students during the preparation. Students must be at the Sessions Hall for the Socials Night. Students will not be allowed in the area (Venue dependent).
8. The following Special Awards will be given: 2 major awards: the Gastronomaster (Best Food Presentation) and City's Chow Center (Best booth design), and 3 minor awards: GreenMover/Award, (for the booth that best utilized recycled materials in their booth design), the Most Diverse Products, and People's Choice Award. Plaques will be given to the major awardees. While certificates are given to the minor awardees.
9. The contest will be judged by a Board of Judges composed of 3-6 people.
10. The decision of the Board of Judges is final and irrevocable.
11. Failure to follow these rules will result in disqualification.
12. The NCSIW 2016 Programs Committee reserves the right to modify rules without prior notice.

## The Technocultural Convergence: Robot Dance Contest (Entertainment Night)

*"The sciences and engineering studies were not the only things to be lost as time has passed. As people became selfish and lazy, the celebrations and culture of days old were now only visible in history books, which themselves are now also considered as ancient artifacts of the people of the world. Now the with the help of everyone, the Sensors bring back the traditions of the past in a night of fun, friendship and competition, for a truly holistic Technosurge!"*

The competition is open to all NCSIW 2016 participating schools. Only one (1) eligible entry per school is allowed.

1. The concept for this year's Entertainment Night Competition is a dance contest in line with the theme of Robotics: a Robot Dance Contest. The task is to apply the concepts of the robot dance style, in a dance piece which is based on actions imitating robots and the "popping" funk style.
  - ex. <https://www.youtube.com/watch?v=R4EUCGqz8>
  - <https://www.youtube.com/watch?v=U-HgD2yGee>
2. Teams must also display a scene in the daily life inside the barrio/barangay of the team's dance routine, to foster an appreciation towards the simple tasks inside the barrio, such as fetching water from the well, or a celebration of the fiesta inside the barrio.
3. The following are the guidelines specific to the presentation:
  - The school entry may be comprised of 6-12 members who are registered participants of the NCSIW 2016 and bona fide students of the school they represent as of SY 2016-2017.
  - The performance should run for 5-7 minutes, inclusive of the entrance and exit. Three (3) points shall be deducted from the final score for every minute, or fraction thereof, that exceeds 7 minutes. (To clarify, a performance which exceeds the time limit by 2 seconds, and another that exceeds it by 59 seconds will both receive a total of three (3) points in deductions. Music begins after the hosts completely introduce the participants. Time starts when the music begins. Set up must be done during the allotted time before the contest proper only.
  - The performance must include elements of the robot dance style: popping and robot pantomime and one scene in "The Life in the Barrio" scenario that will be chosen by the performers themselves.
  - The dance number must have the accompaniment of a modern and lively music. Folk dances or accompaniment of folk music is not allowed.
  - No provocative choreographies and inappropriate clothing or attire will be permitted in any way. Entrants not adhering to said rules will automatically be disqualified.
  - Lifts, tosses, and aerials are not allowed. Participants are encouraged to exercise caution before attempting risky moves. The team chosen ensure that the movements and styles chosen are safe and executed well so as not to risk injury to any team member.
  - Liquid, gel, aerosol, glitter or similar substance that would affect the dancing surface are not allowed. The use of any pyrotechnic gadgets, smoke or combustible materials during the performance is strictly prohibited. The NCSIW 2016 Programs Committee reserves the right to disallow the use of any oversized or dangerous props, dependent on the verdict of the committee regarding the nature of the prop.