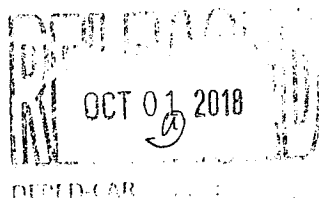




September 20, 2018

Regional Memorandum  
 No. 327-2018



**ADDENDUM and CORRIGENDUM TO REGIONAL MEMORANDUM NO. 312, s. 2018  
 (2018 Regional Science and Mathematics Festival)**

1. To coincide with the agreement during the pre-planning conference, please be informed of the changes in schedule of the deadline for the submission of Science Investigatory Project (SIP) and Research-based Mathematics Investigation (MI) from October 15-19 to October 26, 2018.
2. In addition to the activities outlined in the memorandum, the following are included:

Activities	Participant per Division
Robotics and Intelligent Machine (RIM)	3 project for individual 3 project for team
Science Innovation Expo	3 project

3. As per DepEd memo no. 134 s. 2018, the Regional Science High School is expected to join the regional fair directly. The RSHHs may submit only one entry per category in the regional fair.
4. The following documents are enclosed for information and guidance:

Enclosure 1	Guidelines on the Search for Outstanding Science Teacher
Enclosure 2	Format for Paper Invention Report
Enclosure 3	Format of Display Board for Science Innovation Expo
Enclosure 4	National Science Innovation Expo – Process Flow
Enclosure 5	Guidelines on the National Science and Technology Fair 2018 - 2019

5. Immediate dissemination and strict compliance to this Memorandum is desired.

  
**MAY B. ECLAR, PhD, CESO V**  
 Regional Director

**2018 Regional Search for the Outstanding Science Teacher**

Criteria	Weight	Level	score	MOVs
1. Instructional competence and teaching effectiveness	40			* All documents should be from June 2015 to May 2018
a. Performance Rating • 3 yrs rating period (2015-2016,2016-2017,217-2018)	15	4.9 – 5.0 4.7 - 4.8 4.5 – 4.6	15 12 10	Performance ratings
b. Instructional materials made duly recognize by higher authorities	10	National Regional Division District School	10 8 6 4 2	IMs Certification that the IM passed the standard set by the LRMS or recognition received from higher DepEd official.
c. Action Research, Innovation, CI	15	National Regional Division District School	15 12 10 8 5	Research paper Terminal report – Accepted Approved proposal Certificate of recognition
2. Outstanding accomplishments in Science	40		10	
a. Performing Science Club Adviser /YES-O adviser/Science coordinator	10	Designation Action plan Initiated project for the school, learner, community	2 2 6	a. Designation as science club adviser b. Action plan c. accomplishment report > communications > pictorials > Recognitions d. Certification from the School Head or higher DepEd official.
b. Winning coach in Science competitions such as quiz, Sci-dama, Science jingle, slogan etc. (1 <sup>st</sup> - Third place)	5	National Regional Division District School	5 4 3 2 1	Certificates ➤ Pictures may be attached to support the certificates.
c. Winning coach in Science Investigatory Project (SIP) (1 <sup>st</sup> - third place)	10	National Regional Division District School	10 8 6 4 2	➤ Certificates • Pictorials if there are.
d. Resource speaker, Facilitator or Trainor in science training, LAC sessions etc. • Teacher who was invited in 2 or more schools as resource speaker will get the point for the district level.	5	National Regional Division District School	5 4 3 2 1	➤ Certificates • Pictures if there are.
e. Demonstration teacher in science	3	National Regional Division District	3 2 1 0.5	➤ Certificate ➤ Lesson plan

f. Publish an article on science in Magazines and News papers • Writer of session guides and Lesson plans	2	National local	2 1	➤ Copy of the article
g. Active participation as TWG in science activities (Science Fair/Science camp/LAC/INSET/ etc.)	5	National Regional Division District School	5 4 3 2 1	➤ Certificates
3. Community Involvement a. Involvement in community activities, programs and projects	<b>5</b> 3	Chairman Member	3 2	Certification Other manuscript that will prove participation of the teacher to the community activities.
b. Membership in professional organizations	2	Officer Member	2 1	Certification Other manuscript that will prove the teacher involvement in the organization
4. Professional Development and Trainings attended	<b>5</b>	National Regional Division District School	5 4 3 2 1	Certification
5. Awards received	<b>10</b>	National Regional Division District School	10 8 6 4 2	Certification and pictorials
<b>Total</b>	<b>100</b>			

### Format of Paper Invention Report

#### **Invention Report Paper:**

- a) **Title Page and Table of Contents:** The title page and table of contents allows the reader to follow the organization of the paper quickly.
- b) **Introduction:**
  - 1) **Features and Specifications** – This describes the details of your invention.
  - 2) **Market Trends and Opportunities** – This part of the report must include three items: what inspired you to develop this invention, an explanation of what problem your invention will solve, and describe in detail how you determined that the invention that you created did not already exist. Explain what products are already on the market that are somewhat like your invention and describe how yours differs.
- c) **Materials and Methods:** Describe in detail how you made your invention. Explain what materials were used and how you put them together to make your invention. Your report should be detailed enough so that someone would be able to repeat the steps and make your invention. Directions on how to use the invention are also necessary here. You must include a detailed drawing(s) of your invention.
- d) **Results and Discussion:** This is the essence of your paper. Compare your results with theoretical values, published data, literature and related studies, commonly held beliefs, and/or expected results. Include a discussion of possible errors, statistics, graphs, pages with your raw collected data, etc. How did the data vary between repeated observations of similar events? How were your results affected by uncontrolled events? What would you do differently if you repeated this project? What other experiments should be conducted?
- f) **Conclusions:** This discusses the potential applications, possible customer benefits, and the impact of the problem in solving problems and issues of today and tomorrow.
- g) **Acknowledgements:** You should always credit those who have assisted you, including individuals, businesses and educational or research institutions.
- h) **References/Bibliography:** Your reference list should be written based on the Chicago Manual of Style. For more information, you may visit the websites below:

- <http://www.chicagomanualofstyle.org/home.html>
- <http://www.calvin.edu/library/knightcite/index.php>

For more information about this event please contact Ms. Anna Liza Chan at [annaliza.chan@deped.gov.ph](mailto:annaliza.chan@deped.gov.ph) for details.

**Format of Display Board for the Innovation Expo**

6.1 Sample Format of Display Board for Science Innovation Expo

Title	The title should be short but would capture the essence of the product/invention
Picture	picture of the product/invention only
Overview	What problem is solved by the invention? What are the existing solutions and what limitations do these solutions have?
Key Features	What are the novelty features of this invention?
Benefits and Impact	What are the benefits/impact of this invention to humans?
Developers' Name	Who is/are the inventors?

**Specifications:**

Each Display Board must have a 38" x 48" dimensions (portrait style)

**Judging Criteria:**

The following **criteria** are used to evaluate each project:

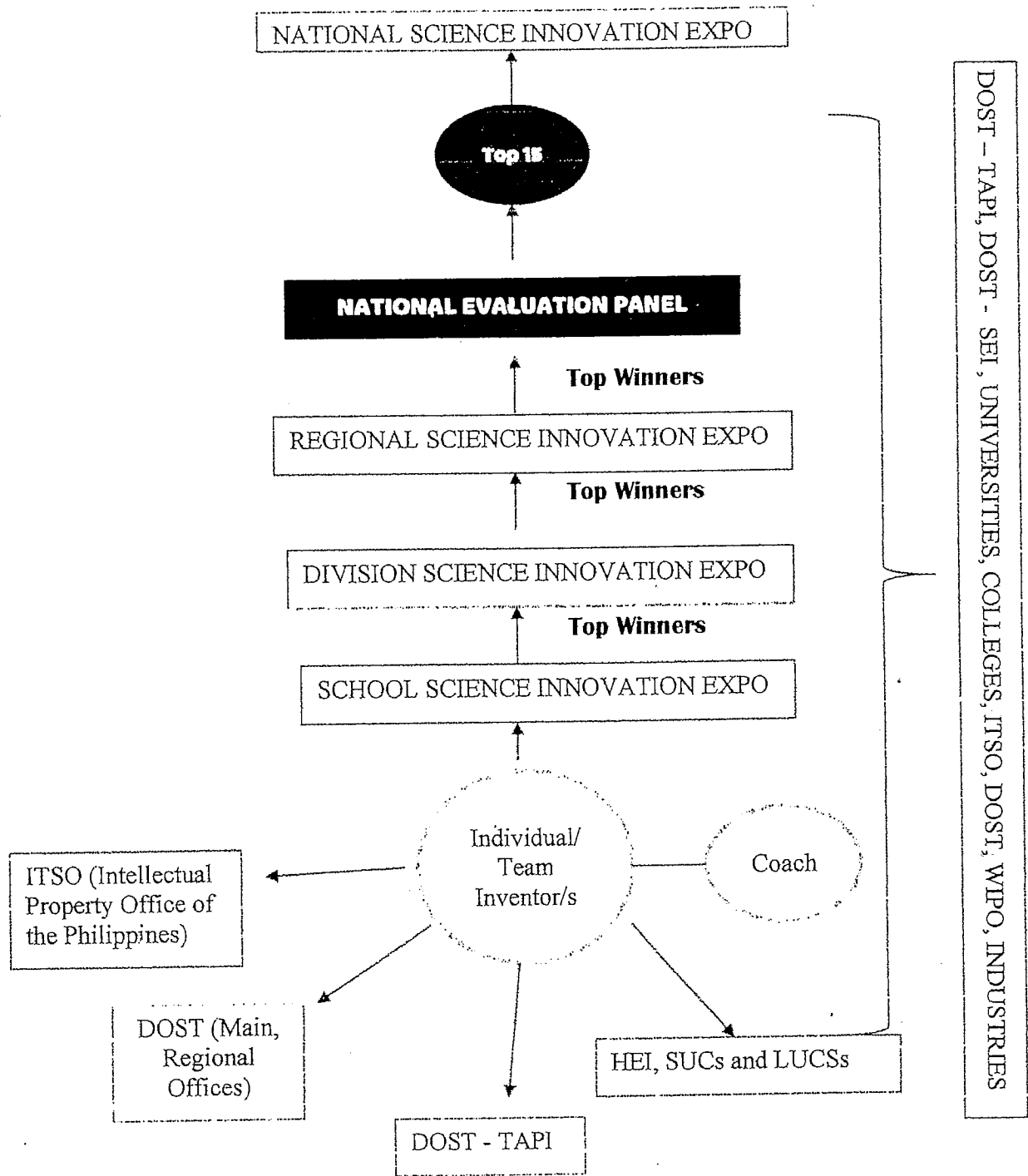
- (a) *Originality & Innovation..... (30 %)*
- (b) *Community Connection & Impact.....(25 %)*
- (c) *Functionality and Quality.....(25%)*
- (d) *Utilization of Patent Information.....(20%)*

The following are the **members of the evaluation panel** in each level:

A group eight or more judges composed of the ff. listed below shall be members of the evaluation panel who will select the qualified winners in each level:

- (a) patent experts
- (b) industry experts
- (c) business experts
- (d) business professionals
- (e) scientists
- (f) field experts
- (g) regional/division supervisors

**National Science Innovation Expo - Process Flow**



## **GUIDELINES ON THE NATIONAL SCIENCE AND TECHNOLOGY FAIR 2018 - 2019**

Similar to the previous national level fair, the National Science and Technology Fair (STF) for 2018 -2019 is an Intel ISEF-affiliated fair. As such, the requirements for affiliated fairs should be met and followed as stated in the ISEF guidelines mentioned on page 2 of this Memorandum.

### **1. The Science Fair**

The Bureau of Curriculum Development of the Department of Education (DepEd-BCD) shall conduct the **National STF 2018 -2019** on **February 18 - 22, 2018**.

The STF aims to promote Science and Technology consciousness and a culture of innovation among the youth. The NSTF also aims to identify the most creative and innovative student researchers from the Junior and Senior High School who shall represent the country in the international Science research fairs.

In addition to the existing research competition, there shall be other activities within the fair as described below.

#### **1.1 National Science Innovation Expo**

Innovation Expo is designed to showcase products and innovation of learners. It aims to crowd-source and display science and technology innovations and solutions to everyday challenges. Furthermore, it also serves as a venue to exchange ideas on Research and Development and Science and Technology.

The format of the paper is found in **Enclosure No. 5**.

The region can send two (2) inventions by an individual or by a team composed of a maximum of two (2) members only.

**Gawad Likhang Agham** shall be awarded to the most innovative invention exhibited at the fair.

### **2. The Research Competitions**

The competitions will be conducted among Junior and Senior High School students from both public and private schools. The first place winners in each of the categories at the Regional level shall represent the region to the National STF competition as approved by the national Scientific Review Committee (SRC).

The competition will start at the school level advancing to the division, regional, national then to the international level. Regional Science High Schools (RSHSs) are **expected** to join the regional fair directly. RSHSs may submit only one entry per category or a maximum of six (6) projects in the regional fair.

The participation of schools in the NSTF shall be clustered into **three major categories**: life science, physical science and robotics and intelligent machines. These major categories are further classified into different subcategories. See Enclosure No.