

## Republic of the Philippines Department of Education Region V (Bicol) DIVISION OF CATANDUANES Virac, Catanduanes

CORDS SECTION
SEP 2 6 2016

DIVISION MEMORANDUM No. 99 s. 2016

### 2016 DIVISION SCIENCE AD TECHNOLOGY FAIR

## To: Secondary School Heads

- 1. This is to announce the conduct of the 2015 Division Science and Technology Fair on October 14, 2016 at SDO Conference Hall A, Schools Division Office at 8:00 AM.
- 2. The Science and Technology Fair aims to promote sciece consciousness among the youth and identify the most innovative researcher who will represent the Division in the coming Regional Science and Technology Fair on November 16-18, 2016 at a venue to be announced later. This year's fair encourages schools to promote science investigatory projects that will address environment protection and conservation of the ecosystem and the use of robotics in science research.
- 3. The deadline of the submission and the evaluation of papers by the SRC is on October 14, 2016.
- 4. SRC Members are directed to report at the Schools Division Office on October 14, 2016 to evaluate the papers. A planning conference of the SRC and the working committees will be held on October 7, 2016, at CID Office at 1 PM. Attached is the list of participants for the planning conference.
- 5. No registration fee shall be collected. Travel expenses of the participants shall be charged against local funds subject to the usual accounting and auditing rules and regualtions.
- 6. Enclosed is the Regional Memorandum No. 110 s.2016 for your reference.
- 7. For immediate dissemination and compliance.

SOCORRO V. DELA ROSA, CESO VI Schools Division Superintendent

## Enclosure 1

### **Science Review Committee**

- 1. Ronald Refre Mayngaway National High School
- 2. Jose Roy Aguilar Bato Rural Development High School
- 3. Claudette Caluban Catanduanes National High School
- 4. Mary Rose Sta. Rosa Supang-Datag National High School

## **Working Committee**

- 1. May Crispino SDO-SGOD
- 2. Mari Ann Manguerra CNHS
- 3. Beth Bernal San Miguel RDHS
- 4. John Dewey Chavez –Bato RDHS

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### REPUBLIC OF THE PHILIPPINES

## Department of Education

REGION V

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Regional Memorandum No. \_\_\_110\_s. 2016

September 21, 2016

## 2016 REGIONAL SCIENCE AND TECHNOLOGY FAIR (RSTF)

## To: SCHOOLS DIVISION SUPERINTENDENTS

- 1. This Office announces the conduct of the 2016 Regional Science and Technology Fair (RSTF) on November 16-18, 2016 at a venue to be announced later.
- 2. The Science and Technology Fair (STF) aims to promote Science and Technology consciousness among the youth and identify the most creative/innovative researcher who will represent the region in the coming National Science and Technology Fair (NSTF) this February, 2017. The schools are encouraged to promote Science Investigatory Projects that will address environmental protection, conservation of the ecosystem and the use of robotics in science research.
- 3. In order to ensure the successful conduct of the activity, the following schedule should be observed:

• Submission of Division Entries for Regional SRC Paper Evaluation

(Life and Applied Science)

-October 24, 2016

(Robotics Science)

-October 28, 2016

Regional Scientific Review Committee (SRC) Paper Evaluation

-October 25-31, 2016

Regional Science and Technology Fair

-November 16-18, 2016

- 4. All STE schools who were recipients of Robotics Kit and training last May and June of 2016 are expected to submit entries of their students in the regional fair. Likewise, advisers are requested to participate in the Robotics Olympics which is an add-on activity this year. Mechanics to this competition can be found in the attached enclosure.
- 5. A registration fee of One Thousand Five Hundred Pesos (PhP 1,500.00) shall be charged each participant and research adviser to defray cost for cash prizes, materials, medals, trophies, certificates, and all other operational expenses EXCEPT food and lodging of participants. Likewise, honoraria of the Scientific Review Committee (SRC) Evaluators shall be charged against Regional Funds while honoraria for the Board of Judges shall be charged against the STE Subsidy Fund downloaded to the region. Registration Fees and other expenses of participants relative to the conduct of the activity is chargeable against school MOOE/local and/or other sources subject to the usual accounting and auditing rules and regulations.

- 6. The same guidelines as specified in DepEd Memo No. 117, s. 2015 shall be followed this year. Likewise, TARPAULIN displays will not be used in the RSTF and NSTF in support of the environmental advocacy of the government in reducing the consumption of non-biodegradable or non-recyclable materials.
- 7. For immediate dissemination and strict compliance of all concerned.

AMONIFIEL G. ABCEDE
Regional Director

To be included in the Perpetual Index under the following subjects:

CELEBRATIONS/FESTIVALS CONTESTS SCHOOLS SCIENCE EDUCATION STUDENTS

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#### Magazininis e

## (ROBOTICS OLYMPICS FOR COACHES)

## Line Fallower Rules (Individual Category)

#### Otojek tive:

The goal of this contest is for the robot to complete the coorse of black inter on a while background and resolution from in the electron period of time.

#### Quality stress

Respectively. For the true leaveness commention is only for expected teacher.

#### Requirements for Reduct

1. The make shall be set contributed pro tempta contribu-

The substant on the editor be two wheeled drive (2VO), or four, wheeled drive robot (4WO).

The robot shall and beave say part of its body behind white proposating the fine;

4 The national and pump over, by over, climb, scratch, cut, burn, mark, damage, or destroy the lines.

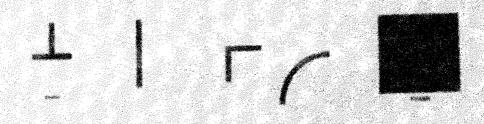
If the notice shall not be larger in their in langua area width, then 20 certainstres.
The demandance of a robot that changes its peometry during a run shall not be greater than 20 cm. 20 cm. There are no restrictions on the height of a robot.

6. Any disadiani of these retea will consist do immediate discretification.

## Rules for the competition

- Foreign community from crossory the start line and the robot crosses the first line. A robot is deemed to have crossed the line when the forward most part of the robot contacts or crosses over the line.
- 2. A marketim of 5 merutes is allowed for a robot to complete the course. A robot that carried complete the course in the adopted time shall be despublished.
- I fame shall be consecuted by an electromic gate system or by a judge with a stopwards, based on the availability of equipment in eather case the recorded time shall be long.
- 4. A robot that wanders off of the areas surface will be disqualified. A robot shall be disensed to have left the areas when any wheel, log, or track fee moved concludely off the areas surface.
- 5. The line following course shall traverse a white rectangle. The line shall be black, 18 nam (-width of an electrical tage) wide. There shall be a starting area of the beginning of the course and en exit area at the period.

is the low are the time that will be used in the competition



Organization

- The robot must be registered before the compension. The registration process includes technical inspection of the robus and marking the robot with a number sticker.
- 2. Lectrocal inspection must be completed by the time that is specified by the organizers.
- No objections shall be declared against the judges' declarers.
- 4. All quiestions and problems arising during the compellion are solved by the judges.

## Maze Solving Game Rules (Individual Category)

## Objective:

In this competition, the mission of the autonomous mobile robot is to negotiate a maza from specified starting corner to limit lime in the shortest possible time.

#### Qualification:

Registration for the mane solving competition is only for individual teacher.

## Rules for the Maza Solving:

- 1. The rapid shall be self-contained fro remote controls).
- 2 The robot can be either be two-wheelerd days (2WD) or four-wheeled drive robot (4WO)
- The robot shall not beave any part of its body beliefed while regardining the maze.
- 4. This robot shall not jurge over, by over, climb, scratch, out burn, mark, dainage.
- or constroy the works of the make 5. The robot shall not be larger, either in larger, or in well in than 10 censimetres. The decembers of a robot that changes his geometry during a run shall not be greater than 20cm × 20 cm. There are no restrictions on the height of a rossal.
- Any violation of these rules was constitute from adults disquediscolori.

## Rules for the mazo

 The muze is composed of 22cm × 22 cm unit squares. The week of the meas are 22 graphins and 0.5 on thick (assume 5 % tolerance for market).

- 2. The distance of the make walls are white and black, the logs of the walls are red, and the floor is plack (or wave). Insisted with most colore.
- 3 Warning. Do not assume the wasts are consistently white or black, or that the tops of the waits are consistently mill or that the floor is consistently black. Fading may occur, parts from different mazes may be used. Do not assume the floor provides a given amount of friction.
- 4 The start of the maze is located at one of the four corners. The start square is bounded on three sides try walls. The start line is located between the first and second squares. The destination goal is on the other side of the maze with a finish line tag.
- 5. Multiple paths to the destination square are allowed and are to be expected. The destination square has only one entrance.

#### Rules for the competition

- I Each contesting mobile robot is allocated a total of 5 minutes of access to the final maze. Any time used to adjust a robot between runs is included in the 5 minutes. Each run (from the start cell to the limitsh zone) in which a robot successfully reaches the destination aquare is given a funtime. The minimum run time shall be the robot's official time. First page goes to the robot with this shortest official time. Second prize to the next shortest, and so on. Robots that do not enter the finish zone will be ranked by the maximum number of cells they consecutively transverse without being tooched.
- 2 Each not seed be made from the starting square. The operator may abort a run at any time, if an operator losches the robot during a run, it is deemed aborted, and the robot must be removed from the maze. If a robot has already crossed the finish line, it may be removed at any time without affecting the run time of that run.
- After the made is declared, the operator shall not few information on the maze into the rubot.
- 4. The contestants are allowed to:
  - a adjust sensors.
  - If make repairs in case the robot breaks down.
- The run timer will start when front edge of the robot crosses the start line and stops when the front edge of the robot crosses the finish line.

#### Organisation

- 1. The robot must be registered before the competition. The registration process includes technical vispection of the robot and marking the robot with a number sticker.
- Technical inspection must be completed by the time that is specified by the organisers
- All questions and problems arising during the competition are solved by the referee.

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