

Republika ng Pilipinas
(Republic of the Philippines)
MINISTERI NG ENKAWAYON, KULTURA AT ESPORTS
(MINISTRY OF EDUCATION, CULTURE AND SPORTS)
Manila

December 17, 1984

MECS M E M O R A N D U M
No. 199, s. 1984

1985 REGIONAL OPEN QUEST FOR MOST OUTSTANDING IMPROVISED
SECONDARY SCHOOL SCIENCE EQUIPMENT

To: Bureau Directors
Regional Directors
Schools Superintendents
Presidents, State Colleges and Universities
Heads of Private Schools, Colleges and Universities
Vocational School Superintendents/Administrators

1. The Science Promotion Institute, National Science and Technology Authority (NSTP-SPI) and the Ministry of Education, Culture and Sports are jointly sponsoring the 1985 Open Quest for Most Outstanding Improvised Secondary School Science Equipment. The competition will be formally launched on January 17, 1985, year 1901-1985 and the awarding of prizes will coincide with the celebration of National Science and Technology Week in July 1985.

2. The aim of the Open Quest is to give recognition to the creative and meritorious efforts undertaken by our secondary school teachers in the improvisation of science equipment for general science, biology, physics, and chemistry. Likewise, this is envisioned to enhance their ability to design and develop low cost science equipment using locally available materials and expertise, and to promote among them the idea of equipment improvisation.

3. The competition is open to all public and private secondary school science teachers. The implementing guidelines for the contest are enclosed.

4. It is desired that this matter be given wide publicity to ensure participation of as many high school science teachers as possible.

(SGD.) JAIME C. LAYA
Minister

Incl.:

As stated

ence:
Note

ument: 1-2-3-4--(D.O. 1-76)

as indicated in the Perpetual Index under the following subjects:

Course of Study, SECONDARY
CONTEXT
EQUIPMENT

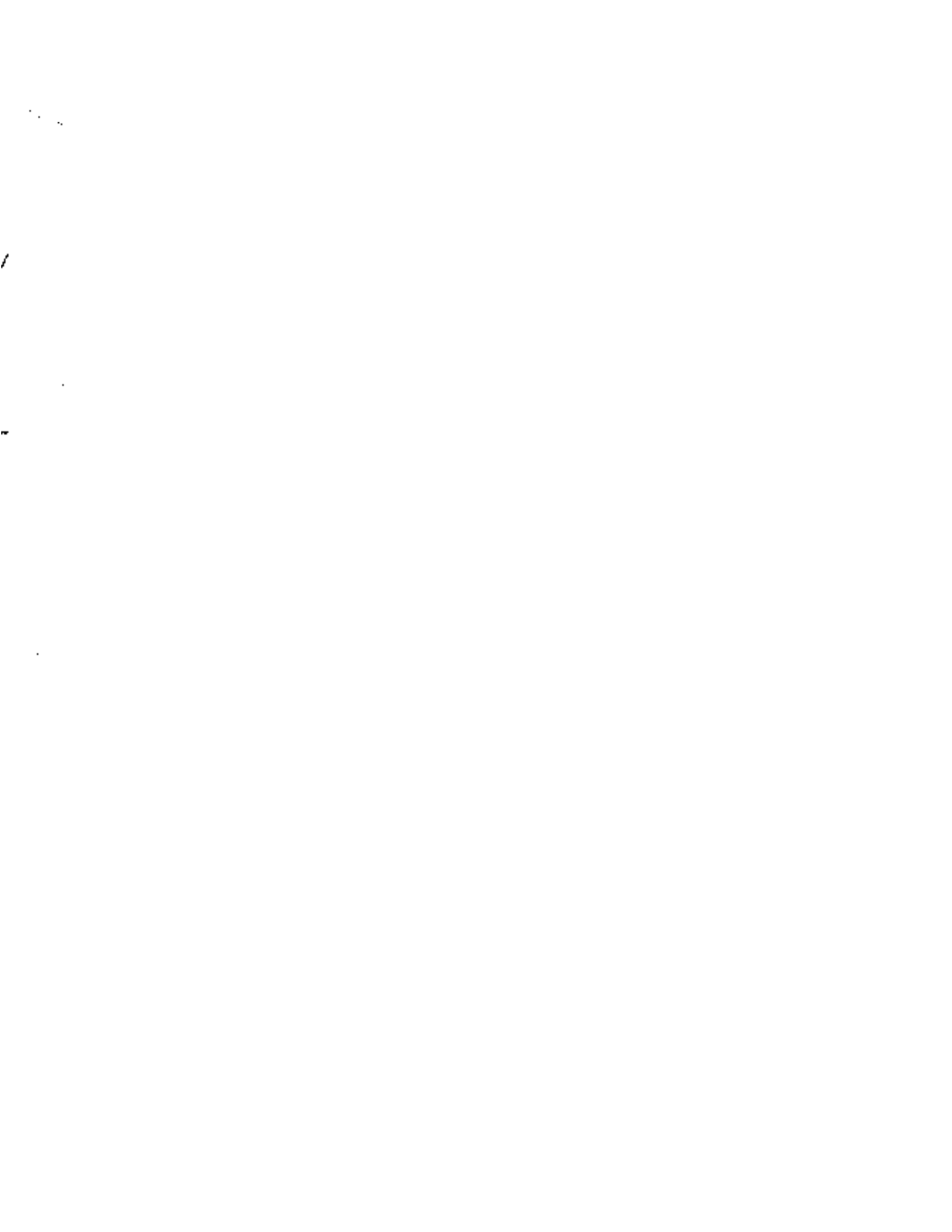
SCIENCE EDUCATION
TEACHERS

ed
B

GENERAL GUIDELINES

A. Participation

1. Competition is open to all secondary school science teachers in both public and private schools teaching any/all of the following subject areas: Biology, Chemistry, General Science, Physics.
2. The improvised equipment submitted should have been used/is being used by the teacher in his/her classroom teaching of Biology/Chemistry, General Science/Physics.
3. The equipment should have the following characteristics:
 - a. Teaching Effectiveness - aptness in helping/demonstrating scientific concepts.
 - b. Originality/Creativity - not an exact duplicate of an existing equipment, can be a modification/improvement of an existing equipment.
 - c. Functionality - serves the purpose for which it was made.
 - d. Cost - utilizes low-cost and locally available materials in the region.
 - e. Ease of Use - can be manipulated/operated by average students with minimum supervision.
 - f. Durability - may be used several times without breakdown under normal conditions. Easy to maintain/repair.
 - g. Replicability/duplicability - can be easily reproduced by others.
4. The equipment submitted for competition should be accompanied with a brief write-up and a working design which should include among others the following:
 - a. Construction procedure (description of how the apparatus is constructed)
 - b. The improvisation done
 - c. The scientific principle/theory being demonstrated/experimented
 - d. For teaching-learning activities - can be considered a successful equipment
 - e. The cost concept and skills developed
 - f. The cost of materials and labor in the construction of the improvised equipment
 - g. The limitation of the component developed
 - h. The references (persons consulted).
5. Requirements to be submitted for the contest:
 - a. The improvised science equipment



- a. A brief write-up and working design of the improvised science equipment
 - b. A certification that the entry is an individual/or group entry
 - c. A certification signed by the participant indicating that he/she developed the improvised science equipment
 - d. The participant's Information Sheet (Form I).
6. Participating teachers shall submit their entries together with other requirements directly to the NSTA regional coordinators, NSTA Regional Office in their respective regions at least one day before the scheduled regional contests which are as follows:

<u>Regions</u>	<u>Place</u>	<u>Date</u>
I	Tuguegarao City	June 18, 1985
II	Tuguegarao	June 18, 1985
III	San Fernando, Pangasinana	June 20, 1985
IV	San Pablo City	June 21, 1985
V	Lerzapl City	June 24, 1985
VI	Iloilo City	June 19, 1985
VII	Cebu City	June 18, 1985
VIII	Tacloban City	June 17, 1985
IX	Zamboanga City	June 18, 1985
X	Cagayan de Oro City	June 22, 1985
XI	Davao City	June 24, 1985
XII	Cotabato City	June 29, 1985
NCR	Science Promotion Institute, Mictan, Taguig, Metro Manila	June 25, 1985

7. There shall be only one regional selection.
8. All entries shall remain properties of the participants.

II. Selection Processes

1. The National Coordinating Committee shall:
 - a. determine/formulate the criteria for the selection of evaluators
 - b. formulate the criteria for the selection of the outstanding improvised equipment
 - c. schedule the regional contests such that the national team of judges will be able to work together effectively with all the regional teams of judges.
2. Judges/Evaluators - science education experts/specialists from the National Capital Region, one team each for Luzon, Visayas, Mindanao. Likewise, team of evaluators/judges from the regions will be selected. These two groups/teams will act together as judges in the regional contests.

3. All entries from the neighboring provinces/municipalities/bars must be brought to the designated site of the contest during scheduled date specified for the region. (Refer to A. No. 6)
4. There will be a preliminary selection of four best entries per subject area per region from which the outstanding improvised science equipment in the region for each subject shall be selected as per approved criteria of selection.

₹ 3,000 and Trophy for the most outstanding improvised equipment per field/region

₹ 1,000 and Plaque for the three runner-ups per field/region

5. Certificates of participation shall be awarded to all participants

ingays
the

ected,

on

nts.

R S T C _____
PROVINCE _____

Latest
I.D.
picture

1985 OPEN QUEST FOR OUTSTANDING
IMPROVISED SCIENCE EQUIPMENT

INFORMATION SHEET

1. NAME: _____
(Last) (First) (Middle)
2. SCHOOL: _____
(Name)

(Address)
3. HIGHEST EDUCATIONAL ATTAINMENT: _____
4. FIELD OF SPECIALIZATION: _____
5. NO. OF YEARS TEACHING: _____
6. SUBJECTS CURRENTLY TEACHING (1984-1985): _____
7. HAVE YOU EVER SUBMITTED THIS IN OTHER COMPETITION? _____
8. HAVE YOU USED THE EQUIPMENT IN YOUR TEACHING? _____ YES _____ NO
IF YES, NO. OF YEARS _____
9. ARE YOU WILLING TO DEMONSTRATE HOW THE EQUIPMENT IS USED DURING A
WORKSHOP? _____ YES _____ NO. OTHER SCIENTIFIC EDUCATION ACTIVITIES?
_____ YES _____ NO _____
10. WHERE CAN WE CONTACT YOU? _____

