

Republika ng Pilipinas
(Republic of the Philippines)
MINISTRI NG EDUKASYON, KULTURA AT ISPORTS
(MINISTRY OF EDUCATION, CULTURE AND SPORTS)
Maynila

August 13, 1982

MEC M E M O R A N D U M
No. 198, s. 1982

1982 SEARCH FOR THE OUTSTANDING YOUTH SCIENTISTS (TOYS)

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

1. Towards a wider and more effective participation of the youth in the promotion of science and technology, the Philippine Jaycees, Inc. and the Science Promotion Institute/National Science and Technology Authority (SPI/NSTA), in cooperation with the Ministry of Education, Culture and Sports (MECS), are holding the 1982 Search for the Outstanding Youth Scientists (TOYS) through a series of Science Fairs and Science Quizzes - municipal/provincial/city, regional and national levels.
2. The theme of this year's Search is "Natural Resources Management for Livelihood Development" with focus on the development and utilization of forest, mineral, food resources and solution to energy, health and nutrition and environmental issues.
3. The inclosed announcement/general guidelines should serve as source of information and guidance in the implementation of the activity for all levels.
4. Details of implementation at each level should be worked out by the NSTA regional officers/SPI and Philippine Jaycees representatives with the teachers and school officials concerned at their respective levels.
5. Regional and division supervisors of science, science club advisers, science club members and students are hereby requested to extend cooperation to the NSTA/SPI and Philippine Jaycees representatives and support, attend and actively participate in the 1982 Search for TOYS. Travel expenses incident to the participation of those concerned shall be charged against local funds, subject to the availability and the usual accounting and auditing rules and regulations.

6. It is desired that the contents of this Memorandum be widely and immediately disseminated.

(SGD.) ONOFRE D. CORPUZ
Minister

Incl.:
As stated

Reference:
None

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

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

- / CAMPAIGN
- / CONTEST
- / EXHIBITS
- / PUPILS
- / SCHOOLS
- / SOCIETY or ASSOCIATIONS
- / STUDENTS
- / UNIVERSITIES and COLLEGES

1982 SCIENCE FAIRS & QUIZZES

A N N O U N C E M E N T

THEME: "NATURAL RESOURCE MANAGEMENT FOR LIVELIHOOD DEVELOPMENT"

I. General Information

The Philippine Jaycees, Inc. and the Science Promotion Institute/ National Science and Technology Authority (SPI/NSTA) in cooperation with the Ministry of Education and Culture (MEC), announce the 1982 SEARCH FOR THE OUTSTANDING YOUTH SCIENTISTS (TOYS) through the holding of the series of Science Fairs and Science Quizzes - municipal, provincial, regional and national levels.

The Science Fair is a public presentation of investigatory projects undertaken by science club members. The investigatory projects exhibited by individuals or groups include research studies on the development and utilization of Forest, Fishery, Mineral, Food resources and solution to Energy, Health and Nutrition and Environmental issues. In these studies, the diverse disciplines in science are interlinked to provide practical solutions to the various problems of natural resources management geared toward livelihood mobilization.

The Science Fairs aims not only to tap science talents with constructive and innovative creativity but also to motivate them to pursue careers in science and technology. It also helps create a conducive atmosphere for science awareness and technology utilization among the viewing public.

The Science Fair is open to elementary, secondary, college, and Out-of-school Youth science club members preferably PSYSC affiliated.

The Science Fair Congress, which is open to the public, provides the participants opportunities to expound on and defend the feasibility of their investigatory projects before leading scientists and fellow investigators. The Congress develops in the participants right attitudes, decision-making, critical thinking and dynamic leadership. The dedication they put into the preparation of their investigatory projects, including the technical reports and the self-fulfillment that they experience, eventually motivate them to pursue scientific careers and related disciplines.

Agricultural, industrial and commercial establishments shall be encouraged to exhibit their products at the Science Fair site. Likewise, barangay leaders are invited to join the Fair by exhibiting the products of their respective barangays. Thus, the Science Fair is simultaneously a "Science-Agro-Industrial Fair", open to the public.

The Science Quiz is a challenging mental activity which provides the youth an opportunity to develop intellectual self-reliance, critical thinking and involvement in current issues which could ultimately motivate them to pursue careers in science and technology. It focuses on indigenous sources of energy,

The Science Quiz also aims to make science education more meaningful and relevant. Scientific principles/concepts and processes in the intellectual and social interaction and experience of participants in a way contribute to their preparation as future science leaders and catalytic agents of change of our country.

The Science Quiz is open to all science club members in the secondary level preferably PSYSC affiliated.

DATES AND VENUES OF THE SCIENCE FAIR

<u>Level</u>	<u>Date</u>	<u>Venue</u>
a. Municipal/City	September/82	decided by municipal chapters
b. Provincial	October/82	decided by provincial chapters
c. Regional	15-20 Nov./82	decided by regional chapters
d. National	24-28 Jan./82	Tacloban City

RULES AND CRITERIA

I. SCIENCE FAIR

A. Competitive Exhibitors

1. Elementary School Students (Elementary Category)
2. High School Students (Secondary Category)
3. Collegiate (Undergraduate) Students (Collegiate Category)
4. Out-of-school youths (Point of entry is highest level of education attended)

B. Special Exhibitors (Regional/National Science Fair)

1. Agro-Industrial-Commercial Entities

C. Criteria for Participation

1. Municipal

a. Elementary Category

1. Must be a bonafide science club member/members, preferably PSYSC affiliate;
2. Has/Have not taken any post-elementary school subjects;
3. Must be a winner/winners of local science fairs (school/district level);
4. Must not have been adjudged winner in any previous National Science Fair.

b. Secondary Category

1. Bonafide science club member/members, preferably PSYSC affiliate;
2. Has/Have not taken any post-secondary subjects;
3. Must be a winner/winners of local science fair (school/district level);
4. Must not have been adjudged winner in any previous National Science Fair;
5. Must not be a participant of the 1982 Science Quiz.

c. Collegiate Category

1. Bonafide science club member/members;
2. Has/Have not taken any post collegiate subjects;
3. Must be winner/winners of local science fair (school/district level);
4. Must not have been adjudged winner in any previous National Science Fair.

d. Out-of-School Youths

1. Bonafide science club member/members;
2. Must be winner/winners of local science fair (school/district level);
3. Must not have been adjudged winner in any previous National Science Fair.

2. Provincial Level

- a. The same as in the municipal level except 1.b. It must be winner of municipal level Science Fair.

Tabulated participation to the Provincial Science Fair per Region:
(Municipal Winners)

Reg.	No. of Municipalities	Elem. Group No. of Participants	Secondary No. of Participants	College Group No. of Participants	Total/ Region
1	172	516	516	516	1,548
2	113	339	339	339	1,017
3	116	348	348	348	1,044
4	210	630	630	630	1,890
NCR	14	39	42	39	120
5	112	336	336	336	1,008
6	122	366	366	366	1,098
7	122	366	366	366	1,098
8	138	414	414	414	1,242
9	86	258	258	258	774
10	112	336	336	336	1,008
11	79	237	237	237	711
12	100	300	300	300	900
13	1,496	4,485	4,488	4,485	13,458

3. Regional Level

a. The same as in the municipal level except

1.b. It must be winner of provincial Science Fair.

Tabulated participation to the Regional Science Fair per Region:
(Provincial/City Winners)

Reg. Provinces	Number of	Elem. Group Number of Participants	Secondary Grp. Number of Participants	College Group Number of Participants	Total/ Region
1	11	33	33	33	99
2	7	21	21	21	63
3	11	33	33	33	99
4	19	57	57	57	171
NCR	5	28	30	28	86
5	9	27	27	27	81
6	14	42	42	42	126
7	13	39	39	39	117
8	9	27	27	27	81
9	9	27	27	27	81
10	14	42	42	42	126
11	7	21	21	21	63
12	8	24	24	24	72
13	136	421	423	421	1,265

*Breakdown of Participation:

<u>Division</u>	<u>Elementary</u>	<u>Secondary</u>	<u>College</u>
Manila	10	10	10
Quezon City	8	8	8
Pasay	6	6	6
Caloocan	4	4	4
PSHS			
Total	28	30	28

4. National Level

a. The same as in the regional level with exception of Item No. 3 for each category changed from "local" to regional Science Fairs.

b. Participants per Category:

1. One (1) Outstanding awardee per region for College Group.
2. Two Outstanding awardee per region for Secondary Group.
3. One (1) Outstanding awardee per region for Elementary Group.

D. Nature of Investigatory Project

1. Contents -

The investigatory project -

- a. Must be focused on the Science Fair theme.
- b. Demonstrate/applies a scientific principle or an attempt to provide a new concept.
- c. Is a result of a continuing or parallel scientific research or investigation.
- d. Has a socio-economic utility value and relevance to livelihood development.
- e. Has an impact on the positive development of the project investigator towards science, technology and community.

2. Physical Specifications -

- a. Dimension should not be more than 1 m. deep (front to back) 1.25 m. wide (side to side) and 1.5 m. high (top to bottom);
- b. Should be durable with parts firmly attached;
- c. Complete with accessories including electrical connection/extension;
- d. Should provide safety measures to viewers and participants when dangerous chemicals, explosives, poisonous specimen are used in display;
- e. Illustrative visual aids and the technical write-up of the project on display should be limited to the space specified in a;
- f. Projects physically beyond specification no. a (on dimension) may be replaced with photographs and other visual devices.

E. Items to be submitted (to the TOYS Secretariat of respective areas)

1. Municipality

- a. Application for participation duly accomplished by the project investigator;
- b. Three (3) copies of the project write-ups, typewritten or mimeographed, double spaced on 8 1/2" x 13" coupon bond. (Submitted one week before the conduct of the Science Fair).

2. Provincial Level

- a. Required papers in the Municipal Level;
- b. Certificate of parental consent and medical certificate;
- c. Five copies of the project write-ups (Submitted two weeks before the conduct of the Science Fair);
- d. Certificate of Award signed by the Local Board of Judges.

3. Regional Level

- a. Required papers in the Municipal Level;
- b. Certificate of parental consent and medical certificate (dated five (5) days earlier than the scheduled Regional Science Fair);
- c. Ten (10) copies of the project write-up (submitted three weeks before the conduct of the Regional Science Fair);
- d. Certificate of Award signed by the Local Board of Judges and verified correct by the Chairman, Local Science Fair.

4. National Level

- a. Required papers in the Municipal Level;
- b. Certificate of parental consent and medical certificate (dated five (5) days earlier than the scheduled National Science Fair);
- c. Fifteen (15) copies of the project write-up (submitted not later than one month after the conduct of the Regional Science Fair. These are to be distributed to the members of the Board of Judges for study before the National Science Fair);
- d. Certificate of Award signed by the Chairman or a Member of the Board of Judges and DSPO-RC.

F. Prizes and Awards

1. Municipal Level

- a. Certificate of Award to the top three (3) ranking Science Fair participants in all levels;
- b. Certificate of Recognition to the science club advisers.

2. Provincial Level

- a. Collegiate Category
 1. P100.00 to each of the top three (3) ranking participant;
 2. Certificate of Recognition to the winners;
 3. Certificate of Merit to the Science Club Advisers.
- b. Secondary Category
 1. P75.00 to each of the top three (3) ranking participant;
 2. Certificate of Recognition to the winners;
 3. Certificate of Merit to the Science Club Advisers.
- c. Elementary Category
 1. P50.00 to each of the top three (3) ranking participant;
 2. Certificate of Recognition to the winners;
 3. Certificate of Merit to the Science Club Advisers.

3. Regional Level

a. Collegiate Category

1. P900.00 to the Outstanding Project Exhibitor;
2. Certificate of Recognition/Participation to Awardees;
3. Certificate of Merit/Appreciation to the Science Club Advisers;
4. Participation in the National Science Fair.

b. Secondary Category

1. P600.00 to each of the two (2) Outstanding Project Exhibitor;
2. Certificate of Recognition/Participation to Awardees;
3. Certificate of Merit/Appreciation to the Science Club Advisers;
4. Participation in the National Science Fair.

c. Elementary Category

1. P300.00 to the Outstanding Project Exhibitor;
2. Certificate of Recognition/Participation to Awardees;
3. Certificate of Merit/Appreciation to Science Club Advisers;
4. Participation in the National Science Fair.

4. National Level

A. Awardees

1. College Category
Two (2) Outstanding Youth Scientists
2. Secondary Category
Three (3) Outstanding Youth Scientists
3. Elementary Category
Two (2) Outstanding Youth Scientists

B. Awards

1. Cash Award (to be determined by the Awards and Recognition Committee);
2. Presidential Trophy to all the winners;
3. Plaques of Merit to the Advisers of the winning projects;
4. Certificate of Recognition to science clubs of winning projects;
5. Certificate of Recognition to science club members of the winning projects;
6. An award of P2,000.00 for any project on palay dryer that may be chosen by the International Rice Research Institute (IRRI) and the Bureau of Plant Industry (BPI);
7. Other prizes in kind that may be donated for specific awardees.

II. SCIENCE QUIZ

A. Qualification of Participants:

1. Municipal Level

- a. Member of a science club, preferably PSYSC affiliated;
- b. Winner of school/local level science quiz;
- c. Has not been adjudged winner in any previous National Science Quiz;
- d. Not a participant of the 1982 Science Fair;
- e. Has not enrolled/taken up any post-secondary school subject;
- f. Not related up to the second degree by consanguinity or affinity to any SPI employee or any member of the Philippine Jaycees, Inc.

2. Provincial Level

- a. The same as in the municipal level except l.b. It must be winner of municipal science quiz.

Below is the tabulated participation to the Provincial Science Quiz per Region:

Region	No. of Municipalities	No. of Participants
		(Secondary Level)
1	172	172
2	113	113
3	116	116
4	210	210
NCR	14	42
5	112	112
6	122	122
7	122	122
8	138	138
9	86	86
10	112	112
11	79	79
12	100	100
13	1,496	1,524

3. Regional Level:

- a. The same as in the municipal level except l.b.
It must be winner of provincial science quiz.

Below is the tabulated participation to the Regional Science Quiz per Region:

Region	No. of cities/provinces	No. of Participants (Sec. Level)
1	11	44
2	7	28
3	11	44
4	19	76
NCR	5	30
5	9	36
6	14	56
7	13	52
8	9	36
9	9	36
10	14	56
11	7	28
12	8	36
13	136	558

4. National Level

- a. Must have been declared winner in the regional level

B. Requisites for Participants:

1 Municipal level

- a. Duly accomplished application for participation/information sheet;
- b. Certificate of award as winner of local/school Science Quiz;
- c. Certificate of parental consent;
- d. Medical certificate dated five days earlier than the scheduled municipal Science Quiz.

Note: These should be submitted to the SPI-Philippine Jaycees municipal Science Quiz committee not later than ten days before the scheduled municipal Science Quiz.

*Same as breakdown of participants (secondary level) in the Science Fair-NCR

2. Provincial Level

- a. Participation papers in the municipal level;
- b. Certificate of award as winner of municipal science quiz;
- c. Parental Consent;
- d. Medical Certificate.

NOTE: These should be submitted to the SPI-Philippine Jaycees Provincial Science Quiz Committee not later than 10 days before the scheduled Provincial Science Quiz.

3. Regional Level

- a. Participation papers in the provincial level;
- b. Certificate of Award as winner of Provincial Science Quiz;
- c. Parental Consent;
- d. Medical Certificate.

NOTE: These should be submitted to the SPI-Phil. Jaycees Regional Science Quiz Committee not later than 10 days before the Regional Science Quiz.

4. National Level

- a. Participation papers from Regional Science Quiz;
- b. Medical certificate (date of issue not more than five (5) days before the NSFQ);
- c. Certificate of Parental Consent, dated after the RSQ;
- d. Certificate of Award as Outstanding Regional Science Quiz participant.

NOTE: These should be submitted to the 1982 National Science Quiz Coordinator, Science Promotion Institute, PTRI Bldg., Bicutan, Taguig, Metro Manila, not later than twenty (20) days before the 1982 National Science Quiz.

C. Prizes and Awards:

1. Municipal Level

- a. Certificate of Award to the top three ranking science quiz participants.
- b. Certificate of recognition to the science club adviser/trainer.

2. Provincial Level

- a. P75.00 each to the four (4) top ranking participants.
- b. Certificate of recognition to the science club adviser/trainer.

3. Regional Level

- a. Cash award of six hundred pesos (P600.00) to the top ranking participant;
- b. Cash award of four hundred pesos (P400.00) to the second ranking participant;
- c. Cash award of three hundred pesos (P300.00) to the third ranking participant;
- d. Cash award of two hundred pesos (P200.00) to the fourth ranking participant;
- e. Certificates of recognition to the science club advisers/trainers of the top four (4) ranking participants.

4. National Level (Three (3) Outstanding Youth Scientists)

a. First Ranking Awardee

1. Presidential Trophy
2. Cash Award
3. Plaque for the science club adviser/trainer
4. Certificate of recognition to the science club

b. Second Ranking Awardee

1. Trophy of Merit
2. Cash Award
3. Plaque for the science club adviser/trainer
4. Certificate of recognition to the science club

c. Third Ranking Awardee

1. Trophy of Merit
2. Cash Award
3. Plaque for the science club adviser/trainer
4. Certificate of recognition to the science club

D. Privileges of NSQ Participants

Only the top ranking awardee in the Regional Science Quiz will be given the following privileges:

1. Free transportation expenses (round trip) from residence to quiz site supported by tickets;
2. Free board and lodging for the duration of the NSQ (1 day before and 1 day after, 3 days)
3. Sixty pesos (P60.00) outright grant for miscellaneous expenses while on travel;
4. The participant is entitled to be chaperoned by his/her science club trainer who shall enjoy free board and lodging for the duration of the National Science Quiz.

E. Venue/Dates

LEVEL	DATE	VENUE
1. Municipal	September 1982	Determined by municipal Science Quiz Committee composed of SPI, Phil. Jaycees chapter, MEC, local government)
2. Provincial/City	October 1982	Determined by Provincial Science Quiz committee composed of SPI, Phil. Jaycees chapters, MEC, local government)
3. Regional	November 1982	Determined by Regional Science Quiz committee composed of SPI/NSTA Phil. Jaycees Regional Chapter, MEC Regional Officers and the local government.
4. National	January 1982	Region 8 - Tacloban City

F. Procedure :

1. Nature of the Quiz

The quiz will consist of two (2) phases: Phase I which is the objective type deals with knowledge, comprehension and simple application, synthesis, analysis and evaluation; phase II is subdivided into subphase II-A which involves manipulation skills (dealing with laboratory) and sub-phase II-B which is essay/oral.

Important: The framing of test questions and reproduction of test materials for the municipal science quiz will be a responsibility of the municipal science quiz committee. However, for the Provincial Science Quiz, test questions for Phase I & Phase II-A & B will be sent by SPI Central Office TOYS Secretariat. After the conduct, the stencilled test materials together with the provincial level answer sheets must be returned to the central office for research purpose.

2. Registration

All participants must be at the designated place of the quiz before 7:30 A.M. for registration. They must present their school/science club/PSYSC I.D. card to the quiz registrar.

3. Conduct and Selection

a. For municipal provincial, regional levels

1. All participants shall take phase I;
2. Only the top seven (7) ranking participants after phase I are qualified to take phase II-A which will be conducted on stage with public viewing.
3. The same participants in phase II-A are qualified to take Phase II-B on stage with public viewing.
4. Ties are broken by the tie-breaking questions.

b. National Level

1. All items in 3.a
2. Only the Most Outstanding Science Quiz awardee in each regional science quiz will participate in the National Science Quiz.

3. The three (3) top ranking awardees in the NSQ will be included in The Outstanding Youth Scientists (TOYS) for 1982.

Important: In all quiz levels, the decision of the Board of the Judges is final and unappealable.

G. Criteria for the Selection of the members of the Board of Judges of the Science Quiz.

1. Holder of a Bachelor's degree with specialization in any of the scientific discipline;
2. Employee of any of the Science Agencies;
3. Maybe a professor in any of the colleges/universities but not directly connected to any of the participating institutions;
4. Preferably must have had experience in previous Science Quiz;
5. Must be an expert in their own field of discipline;
6. Must have been involved in the formulation of test items in the Practicum and oral phase of the Quiz;
7. Maybe a member of the Board of Judges of the 1982 National Science Fair.

H. Additional Information

Forms for application for participation in the 1982 Science Fair and Science Quiz maybe secured by interested science club members/advisers, science supervisors, school principals, barangay captains, from the MEC division and regional offices, SPI Central Office, SPI/NSTA Field Centers and Philippine Jaycees Chapters.

Region I

1. Kalantiao Building
Lingayen, Pangasinan
2. 357 Tapuac District
Dagupan City
3. Laoag Central School
Laoag City
4. NSDB, BFD Building
Diego Silang St.,
Baguio City

Region II

5. Cagayan Teachers College
Tuguegarao, Cagayan

Region III

6. NSTA Building
San Fernando, Pampanga

7. Municipal Building
Malolos Bulacan

Region IV

8. Bureau of Supply Coordination
848 Oroquieta, Sta. Cruz

9. Provincial Development Staff
Motorpool, Calapan
Oriental Mindoro

National Capital Region (NCR)

10. Pasig Manpower Training Center
Pasig, Metro Manila

Region V

11. NSTA Building
Legaspi City

12. Camarines Sur National
College of Arts & Trades
Naga City

13. Division Office, MEC
Daet, Camarines Norte

Region 6

14. NSTA Building
Magsaysay Village
La Paz, Iloilo City

15. DBP Building
Gatuslao Street
Bacolod City

Region VII

16. Room 303 Capitol Bldg.
Cebu City

17. 27 J Clarin St.
Tagbilaran City

Region VIII

18. Rm. 44 Tacloban Shopping
Center, Tacloban City

19. JPR Subdivision
Calbayog City

Region IX

20. NSTA Bldg., Pettitt Barracks
Zamboanga City

21. Zamboanga Norte Provincial
Capitol Building
Dipolog City

22. Sulu High School
Jolo, Sulu

23. School Division Office
Isabela, Basilan

24. Division of Tawi-Tawi
Science Building
Bongao, Tawi-Tawi

Region X

25. NSTA Building
Carmen, Cagayan de Oro City

26. City Division Office
Juan Luna St.
Butuan City

Region XI

27. Trafcon Building
Magallanes St.
Davao City

28. Provincial Capitol
Tagum, Davao del Norte

29. Science & Math Building, MEC
Koronadal, South Cotabato

Region XII

30. Matea-Macro XII Bldg.
Cotabato City

I. Cooperating Agencies:

1. National Science and Technology Authority, NSTA
2. Ministry of Education and Culture, MEC
3. Office of Media Affairs, OMA
4. Presidential Management Staff, PMS
5. UP Science Education Center, UPSEC
6. Philippine Society of Youth Science Clubs, Inc., PSYSC
7. Science Club Advisers Association of the Philippines, Inc., SCAAP

(SGD.) EMIL Q. JAVIER
Chairman

1982 Search for TOYS

VWV/egm