



Republic of the Philippines
Department of Education
National Capital Region
DIVISION OF CITY SCHOOLS
Quezon City, Metro Manila



September 29, 2011

MEMORANDUM

To: Asst. Schools Division Superintendents
Division/District Supervisors
Public/Private Secondary School Principals
Head Teachers/Teachers In-Charge

Nuclear Energy: Challenges and Opportunities

1. Attached is Regional Letter No. 335, dated September 23, 2011, from Dr. Elena R. Ruiz, Schools Division Superintendent, Officer-in-Charge, Office of the Regional Director re: **"Nuclear Energy: Challenges and Opportunities"**, the content of which is self-explanatory for the information and guidance of the field.
2. Immediate and wide dissemination of this Memorandum is desired.

YOLANDA C. ARCO
Chief Administrative Officer
OIC, Office of the Schools Division Superintendent



Republika ng Pilipinas
(Republic of the Philippines)
KAGAWARAN NG EDUKASYON
(DEPARTMENT OF EDUCATION)
PAMBANSANG PUNONG REHIYON
(NATIONAL CAPITAL REGION)
Daang Misamis, Bago Bantay, Lungsod Quezon
(Misamis St., Bago Bantay, Quezon City)

Department of Education
National Capital Region
RECORDS SECTION

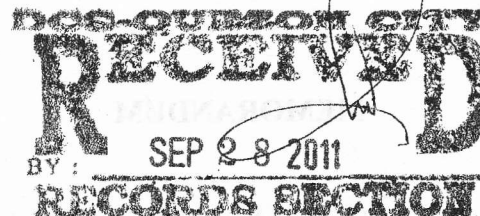
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By: _____
Date: 9/22/11 Time: _____

September 23, 2011

To: Schools Division Superintendents

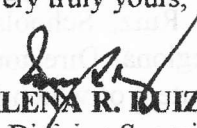
Dear Sir/Madam:



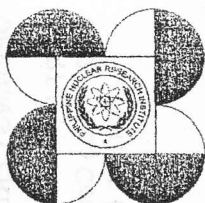
Enclosed is a letter from Ms. Christina A. Petrache, Ph.D, Chairperson, Executive Committee AEW 2011, Philippine Nuclear Research Institute (PNRI), Commonwealth Avenue, Diliman, Quezon City, inviting the participation of high school students to the 39th Atomic Energy Week (AEW) on December 5-9, 2011 with the theme "Nuclear Energy: Challenges and Opportunities," for your information and appropriate action.

Immediate and wide dissemination of this Regional Letter is desired.

Very truly yours,


ELENA R. RUIZ
Schools Division Superintendent
Officer-In-Charge
Office of the Regional Director

Regional Letter No. 355
F3/F12



Republic of the Philippines
Department of Science and Technology
PHILIPPINE NUCLEAR RESEARCH INSTITUTE
Address: Commonwealth Avenue, Diliman, Quezon City
PO Box No 213 UP Quezon City; No 932 Manila; No 1314 Central, Quezon City
Telephone No 929-60 to 19 Fax No 920-16-46

20 September 2011

DR. ELENA C. RUIZ

Regional Director
Department of Education- NCR
Misamis St., Bago Bantay, Quezon City



Dear Dr. Ruiz:

We are pleased to inform you that the Philippine Nuclear Research Institute (PNRI) will be celebrating its 39th Atomic Energy Week (AEW) on December 5-9, 2011 with the theme **"Nuclear Energy: Challenges and Opportunities"**.

This year's AEW celebration is geared towards public awareness on the benefits of nuclear technology to the country and on giving them a wider perspective on the issues that surround nuclear energy. To achieve this, the institute is opening its doors to the public through several activities- technical sessions, exhibits and guided tours within the PNRI compound. We hope that this would facilitate the transfer of information to the public and give them a better understanding of nuclear energy and technology.

In this regard, we would like to seek your assistance on disseminating this information to the private and public secondary schools within the Metro Manila. We would like to invite fourth year high school students to visit our institute in Commonwealth Ave., Diliman, Quezon City and join us in our AEW celebration.

Please find attached our schedule of activities for your reference. For further information, please contact Mr. Raymond Sugang at 929-6011 local 281 or 276.

Very truly yours,

Christina A. Petrache
CHRISTINA A PETRACHE, Ph. D.
Chairperson
Executive Committee AEW 2011

39th AEW Celebration Monday December 05, 2011

OPENING CEREMONIES

PART I

8:30 Flag Ceremony
Wreath Laying at the Monument
Dr. & Mrs. Florencio I. S. Medina III
and Family assisted by
Dr. Alumanda M. Dela Rosa
Dr. Corazon C. Bernido
and Division Chiefs

PART II

9:00 Thanksgiving Mass

PART III

10:00 Opening Program
Invocation
Singing of the National Anthem

Opening Remarks
Dr. Corazon C. Bernido
Deputy Director, PNRI

Introduction of the Keynote
Speaker
Dr. Alumanda M. Dela Rosa
Director, PNRI

Keynote Address
Sec. Mario Montejo
DOST

Special Number
Mr. Angel T. Bautista VII
NATA

OPENING OF EXHIBITS
Sec Montejo
Assisted by
Dr. Alumanda M. Dela Rosa
Dr. Corazon C. Bernido

11:30 Press Conference
PNRI Auditorium
Dr. Alumanda M. Dela Rosa
Resource Person

Mr. Angel T. Bautista VII
Master of Ceremonies

PART IV

13:30 PNRI Employees Day

39th AEW Celebration Tuesday December 06, 2011

TECHNICAL SESSION I

"Challenges of Nuclear Energy"

13:00 – 13:30 Registration PNRI Auditorium

Invocation
Philippine National Anthem

13:30 – 14:45 Fukushima
Mr. Leonardo Leopando
Head, Reactor Operation

14:45 – 15:00 BREAK

15:00 – 15:40 PLUME
Ms. Preciosa Corazon Pabroa
Head, Nuclear Analytical Techniques
& Applications Section

15:40 – 16:20 Environmental Surveillance
Mr. Teofilo Y. Garcia
Head, Health Physics Section

16:20 – 17:00 Food Analysis
Mr. Joseph Michael D. Racho
Nuclear Analytical Techniques
& Applications Section

Moderator

39th AEW Celebration Wednesday December 07, 2011**TECHNICAL SESSION II****"Opportunities in Nuclear Energy"**

13:00 – 13:30	Registration Invocation Philippine National Anthem	PNRI Auditorium <hr/> <hr/>
13:30 – 14:10	Co-60 Irradiation	Ms. Luvimina G. Lanuza Head, Irradiation Services Section
14:10 – 14:50	Radiation Protection	Ms. Estrella S. Caseria Head, Standards Section
14:50 – 15:00	BREAK	
15:00 – 15:40	Tc-99m/Gamma Column Scanning	Ms. Adelina DM. Bulos Head, Isotopes Techniques Section
15:40 – 16:20	NATA services	Ms. Preciosa Corazon Pabroa Head, Nuclear Analytical Techniques & Applications Section
16:20 – 17:00	NonDestructive Testing	Mr. Renato R. Baniaga Head, Engineering & Electronics Services Section

Moderator

"Positron emission tomography (PET)"

17:30 – 13:30	Registration Invocation Philippine National Anthem	Hotel <hr/> <hr/>
18:30 – 20:00	PET Topics	Dr. Teofilo San Luis Dean, Asian School of Nuclear Medicine

39th AEW Celebration Thursday December 08, 2011**TECHNICAL DEMONSTRATION (for Engineering & Science College Students &
Science High School Students)****Morning & Afternoon (09:00 – 17:00)**

Magnetic Particle Testing
Penetrant Testing
Ultrasonic Testing
X-ray and Gamma-ray Radiography
Eddy Current Testing
Infrared Thermography
Moisture Density Gauging
NDT in Concrete
Different Shielding Materials
Isotope Identifier

In-Charge:

Mr. Renato R. Baniaga
Mr. Archimedes Andres
Mr. Ramoncito
Ms. Perciditas Cansino
Mr. Arturo Salih

39th AEW Celebration Friday December 09, 2011

Morning

QUIZ SHOW (Semi-Final and Final)

Afternoon

CLOSING CEREMONIES

Invocation

Singing of the National Anthem

Opening Remarks

Dr. Alumanda M. Dela Rosa
Director, PNRI

Introduction of the Keynote
Speaker

Dr. Alumanda M. Dela Rosa
Director, PNRI

Keynote Address

Mayor Herbert Bautista
Quezon City

Awarding Ceremony for Quiz Show Winners

Awarding Ceremony for PNRI Employees

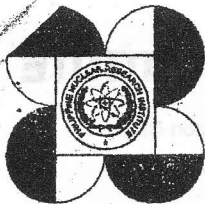
Special Number

NATA

Closing Remarks

Dr. Corazon C. Bernido
Deputy Director, PNRI

Master of Ceremonies



Republic of the Philippines
Department of Science and Technology

PHILIPPINE NUCLEAR RESEARCH INSTITUTE

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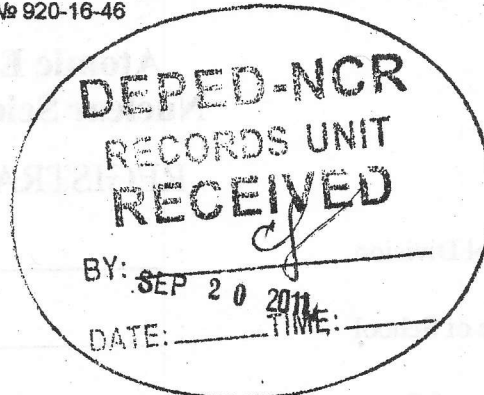
19 September 2011

DR. ELENA C. RUIZ

Regional Director

Department of Education- NCR

Misamis St., Bago Bantay, Quezon City



Dear Dr. Ruiz:

The Philippine Nuclear Research Institute (PNRI) of the Department of Science and Technology will again be spearheading the celebration of Atomic Energy Week, the 39th, at the PNRI Compound on 5-9 December 2011 with the theme: **"Nuclear Energy: Challenges and Opportunities"**. The annual celebration is aimed at raising the public's awareness, particularly the youth, on the safe and valuable applications of radiation in the various fields of research, industry and the environment. This year's event will focus particularly on understanding the nature and benefits of nuclear energy and technology.

Activities during the weeklong celebration will include guided tours & film showing, scientific/technical sessions, and exhibits. In line with the goal of encouraging maximum learning outcomes from students, a quiz contest for high school students will be conducted on **December 9, 2011**. An elimination round will be conducted on **November 25, 2011**. Pre-registration for the eliminations is required by submitting the attached *"Registration Form"* by **November 23, 2011**. Cash prizes and trophies will be given to the first, second and third placers. A more detailed description of the contest mechanics is attached herewith.

In this regard, we kindly request your good office for an endorsement of the event to both private and public secondary schools within Metro Manila. For any inquiries, you may contact the Chairperson for the quiz contest, Ms. Preciosa Corazon Pabroa at tel. no. 9296011 to 19 loc 276 or email at pcbapbroa@pnri.dost.gov.ph.

Thank you very much and we hope for your support in this endeavor.

Very truly yours,

CHRISTINA A. PETRACHE, Ph.D.

Chairperson

Executive Committee AEW 2011



Republic of the Philippines
Department of Science and Technology

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Address: Commonwealth Avenue, Diliman, Quezon City
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Atomic Energy Week Nuclear Science Quiz 2011

REGISTRATION FORM

School Division : _____

Name of School : _____

Names of Contestants : 1) _____

2) _____

Signatures of Contestants : 1) _____

2) _____

Name of Coach : _____

Signature of Coach : _____

Contact Details : _____

Please return the filled-up registration form to the Philippine Nuclear Research Institute c/o Ms. Preciosa Corazon B. Pabroa or Ms. Camille Grace dL. Bucal or email to pcbpbabroa@pnri.dost.gov.ph or cgdlbucal@pnri.dost.gov.ph or fax to this number, 9267343. An endorsement letter from the school division superintendent must accompany this submission. Please make sure that you get a copy of the acknowledgment receipt.

Acknowledgment Receipt

This is to acknowledge receipt of the registration form for the Atomic Energy Week Nuclear Science Quiz 2011 of:

Name of School : _____

Name of Contestants : _____

Name of Coach : _____

Acknowledged by : _____

Date/Time Received : _____

Nuclear Science Quiz 2011
PNRI Auditorium, Philippine Nuclear Research Institute

Quiz Rules and Mechanics

The Nuclear Science Quiz 2011 will be conducted in three rounds

- Elimination Round - 25 November 2011, 8:00 a.m. – 12 p.m.
- Semi-Final - 09 December 2011, 8:00 a.m – 10:00 a.m.
- Final Round - 09 December 2011, 10:00 a.m – 12:00 p.m.

Who may join?

Bona fide students from both public and private secondary schools representing the 14 school divisions in the National Capital Region.

ELIMINATION ROUND - 25 NOVEMBER 2011

1. Interested participants should pre-register by 23 November 2011.
2. On the day of the Elimination Round, only pre-registered participants will be allowed to participate.
3. Elimination round will be conducted through a written examination covering topics in nuclear science.
4. Each participating school shall be composed of a team of two (2) students and an official coach and should be officially endorsed by the school division superintendent.
5. The top twenty five (25) teams shall qualify to compete in the semi-final round.

SEMI-FINAL ROUND – 09 DECEMBER 2011

1. The top twenty five (25) teams who passed the Elimination Round held last 25 November 2011 shall qualify to participate in the Semi-final Round. No alternates will be allowed. In case a member of the team is not present, the other member will continue to participate alone in the Quiz.
2. The Semi-final Round is a staged game quiz show.
3. A quizmaster will read the questions orally. Multiple-choice letters will be placed in front of the stage.
4. The teams will be given time to line up at the letter corresponding to their answer. Both members of each team must line up together at the letter of their choice to have their answer counted as correct.
5. Five (5) incorrect answers incurred by a team will automatically eliminate it from continuing in the Semi-Final Round.
6. For questions which would require calculations, sheets of paper and ball pens will be distributed to the participants. No calculators, dictionaries, references, etc. will be allowed.
7. The remaining top five (5) teams will proceed to the Final Round.
8. Questions and point of clarifications should be directed to the quizmaster and the Board of Judges.
9. In case of a tie, the actual scores garnered by each team will be considered. The top (5) team will be determined corresponding to the top (5) highest scores.
10. The officials of the Quiz shall have the right to disqualify any team who violates the

rules of the Quiz.

11. The results of the Quiz will be final and unappealable.

FINAL ROUND - 09 December 2011

1. The top five (5) teams in the semifinal round will proceed to the Final Round which will be held right after the Semi-Final Round.
2. The Final Round is a staged quiz show.
3. The quizmaster will read questions covering topics in Nuclear Science. Each question will be read twice by the quizmaster. He will specify the type of question (multiple choice or problem solving), the allotted time to answer the question (30 seconds for problem solving and 10 seconds for a multiple choice item), and the corresponding points to be earned by the team before reading the question.
4. Answering the question will be a team effort of the 2 members of the team. At the signal to start, the team will answer the question by writing answer on the paper provided. At the signal to end, the team will raise the paper with the answer written on it. The answer of each team will be read aloud by the quizmaster. The correct answer to each question posed will be given by the quizmaster after all the answers have been read. The team with the correct answer will be given a corresponding point.
5. The results of the Quiz will be tabulated on a scoreboard and on a score sheet.
6. In case of a tie, the following procedure to break the tie will be followed:

TIE-BREAKING PROCEDURE

- a. The quizmaster will read twice at least 5 questions. Before reading the question, he will announce the type of question, the time allotted to answer it, and the corresponding points to be earned by the team.
 - b. At the end of the specified time, the team will raise the paper with the answer on it. The quizmaster will read the answer of the teams before giving the correct answer. A corresponding point is credited to the team for every correct answer.
 - c. The team with the highest number of correct answers will be declared winners.
 - d. The tie-breaking procedure will be repeated until the top 3 teams are chosen.
7. The teams will be ranked corresponding to the accumulated number of points garnered of each. The Board of Judges will declare the first, second and third prize winners and runners-up accordingly.
 8. The officials of the quiz have the right to disqualify any team who violates the rules of the quiz.
 9. The results of the quiz will be final and unappealable.
 10. The winners will receive cash prizes, trophies and certificates in the afternoon of the same day during the Closing Ceremonies of the AEW.