# Department of Biology Bonier Bio-cas-asy ? 

 <br> \title{
# In partnership with <br> \title{ \title{ In partnership with <br> <br> <br> <br> <br> Young <br> <br> <br> <br> <br> Young <br> <br> <br> <br> <br> Young <br> <br> <br> <br> <br> Environmentalists' <br> <br> <br> <br> <br> Environmentalists' <br> <br> <br> <br> <br> Environmentalists' <br> <br> Society <br> <br> <br> "Seminar-Workshop <br> <br> <br> "Seminar-Workshop on Waste on Waste <br> <br> <br> Minimization and <br> <br> <br> Minimization and Management" Management" <br> <br> $$
x
$$ <br> <br> $$
8
$$ <br> <br>  <br> <br>  

 lists ${ }^{3}$ lists ${ }^{3}$ . . <br> <br> <br> \% <br> <br> <br> \% <br> <br> <br> \%
 <br> <br> <br> Environmental
} <br> <br> <br> Environmental
} <br> <br> <br> Environmental
}


\author{

## February 08, 2019 CAS Little Theatre Benguet State University <br> <br> 

}


# $+$ 


I. Basic Information:

Title of Activity:

Date and Venue:

Target Participants:

Estimated Cost:
Fund Source:

Proponents/Implementers: Department of Biology, CAS and Young Environmentalists' Society (YES)

Cooperating Agencies/Units: Ecological Waste Management Sector, EMB-DENR CAR

## II. Rationale:

One of the environmental problems of the Philippines especially in urban areas is the improper solid waste disposal. Even in residential and institutional areas, improper waste management is identified as one of the issues that needs to be addressed. Addressing issues on this would involve waste minimization and management. In waste minimization, there must be policies and processes to reduce the production of waste at society and individual level. It is also looking into the use of source reduction or environmentally sound recycling method. When considered as a source reduction method, it would include any practice that reduces the quantity and/or toxicity of pollutants entering the waste stream prior to recycling, treatment or disposal.

The Philippine government has signed into law the Republic Act No. 9003 otherwise known as Ecological Solid Waste Management Act of 2000. The law provides management mechanisms and requests all local government units (LGU's) to establish an ecological solid waste management program within their jurisdiction. In support to this target the Department of Environment and Natural Resources (DENR) have conducted trainings to assist and train LGU's and other groups, agencies and organizations. In a wider scope, the Colleges and State Universities, even Secondary and Elementary schools must also have a solid waste management program.

In response, Benguet State University through the Young Environmentalist Society (YES) and the Department of Biology of the College of Arts and Sciences (CAS) joins the celebration of National Zero Waste Month. Student leaders will be invited to an information education campaign and a workshop on waste minimization and management. This activity will serve as an opportunity and an important undertaking to learn more and have a deeper understanding about waste segregation, minimization and management. With this endeavour, we will be able to show our support in protecting our environment.

## III. Objectives:

1. Identify and understand waste minimization and management strategies or techniques;
2. Inculcate awareness on the need for waste minimization and management.
3. Formulate waste management programs, strategies and policies for possible implementation in the University and community.

## ACTIVITY DESIGN FORM

## IV. Target Participants: $\mathbf{7 6}$ Participants from BSU

> 15 Dep't. of Biology Faculty and Staff
> 60 Student Leaders
> 1 Resource Speaker from Ecological Waste Management Sector, EMB-DENR CAR

## V. Management:

Program: "Seminar - Workshop on Waste Minimization and Management"

| Time | Activity | Person-In-Charge |
| :--- | :--- | :--- |
| 7:30-8:00 | Registration | CEDRIC JAMES W. ANIPEW <br> Assistant Secretary, YES |
| $8: 00-8: 30$ | Invocation | KHYLE W. PALTICAN <br> Treasurer, YES |
|  | National Anthem | ELOISA M. LACADEN <br> PIO, YES |
|  | Opening Remarks | JILL P. DOMALEW <br> President, YES |
|  | Introduction of Resource Person | MILDRED L. MALINIAS <br> Secretary, YES |
| 8:30-10:00 | Lecture Proper | MR. DWIGHT A. DAODAO <br> Senior Environmental Management <br> Specialist |
| 10:00-11:00 | Workshop on the Formulation of <br> Waste Minimization \& Management <br> Programs | MR. DWIGHT A. DAODAO <br>  <br> BIOLOGY FACULTY MEMBERS <br> Facilitators |
| 11:00-11:45 | Presentation of Outputs | REPRESENTATIVE LEADER <br>  <br> from each College/Institution |
| Evaluation of Outputs |  <br> BIOLOGY FACULTY MEMBERS |  |
| 11:45-12:00 | Awarding of Certificates and Token | JOANNNA I. ALAFAG <br> Chairperson, Biology Department |
|  | Closing Remarks | MARICEL A. GURON <br> Adviser, YES |


| Activity | Faculty |
| :--- | :--- |
| Budget / Food / Token | ET Dom-ogen / LF Eslava / JC Paltiyan |
| Program Communication | JI Alafag / JV Nabus / AMM Sandoval |
| Hall Preparation | JM Leung / JT Napaldet |
| Moderators and Facilitators | MA Guron / JP Balangen / RA Gomez Jr. / <br> VD Lacanlale |
| Registration and Evaluation | DC Domondon / MM Tabon / SC Tipayno / |

## VI. Date and Venue:

February 8, 2019 (Friday)
8:00 AM-12:00 PM
CAS Little Theatre, Benguet State University

## ACTIVITY DESIGN FORM

## VII. Training Mechanics:

1. Seminar. The resource speaker will discuss topics on waste minimization and management strategies or techniques.
2. Workshop. With the guidance of the resource speaker and Biology faculty members, the participants will formulate waste management programs, strategies and policies for possible implementation in the University and community.
3. Monitoring. After the seminar-workshop, implementation of waste management programs, strategies and policies will be monitored by the student leaders and reports will be submitted.

## VIII. Expected Output:

1. Information dissemination
2. Formulation of waste management programs, strategies and policies for possible implementation in the University and community.
3. Monitoring of the implemented waste management programs, strategies and policies.
4. Reduction of waste generated in the University and community as a result of the implemented programs, strategies and policies.

## IX. Budgetary Requirements:

| Item | Unit | Unit Price | Total |
| :--- | :--- | :--- | :--- |
| AM Snacks | 76 pax | PhP 30.00 | PhP 2,280.00 |
| Lunch | 27 pax | PhP 100.00 | PhP 2,700.00 |
| Token for Resource Speaker | 1 pax | PhP 500.00 | PhP 500.00 |
| Markers (to be used in <br> workshop) | 10 pcs | PhP 35.00 | PhP 350.00 |
| Manila Paper (to be used in <br> workshop) | 10 pcs | PhP 5.00 | PhP 50.00 |
| Total: PhP 5,880.00 |  |  |  |

Prepared by:

Chair, Department of Biology

Noted by:


Dean, College of Arts and Science

Recommending Approval:

Vice President for Academic Affairs

Funds Appropriated:
ESTR如LITA M. DACLAN
Supervising Administrative Officer



Approved:
freliciáno g. calora, Jr.
President O4 FEB 2019

P.H.JLO.S.O.P.H.Y.

Growing in the science of life...
$-8086=$
V.ISSIO.N.

The leader in the pursuance of higher learning
in the life sciences in the Cordilleras.
M.ISS.IO.N.

To nurture generations of graduates who possess in-depth knowledge in addressing concerns in the biological and environmental sciences.

## O.B.J.E.C.IV.ES.

 To inculcate in the students adequate skills which are essential towards the pursuit of biological research and investigation;To train students who will generate and propagate knowledge for human development;

To develop achievers who will lead in building a progressive and clean environment;

To establish a core of professionals with proper attitudes and values who are dedicated to serve the University, community and country; and

To build a community of learners and scholars who can participate actively in improving the quality of life.


Biblog4

January 31, 2019

| Dr. Janet P. Pablo Dr. Samuel S. Poliden |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |
| Engr. Editha D. Carlos Dr. Conrado C. Bao-idang |  |  |  |
|  |  |  |  |
| Dr. Pelin B. Belino |  |  |  |
| Dr. Jude L. Tayaben |  |  |  |
| Dr. Imelda G. Parcasio <br> Dr. Marietta Q. Amatorio |  |  |  |
|  |  |  |  |
| Dr. Rex John G. Bawang Dr. Felipe S. Comila |  |  |  |
|  |  |  |  |
| Ms. Elizabeth M. Bay-an |  |  |  |
|  |  |  |  |

Dean, College of Agriculture

Dean, College of Arts and Sciences
Dean, College of Engineering and Applied Technology,
Dean, College of Forestry,
Dean, College of Home Economics and Technology
Dean, College of Nursing
Dean, College of Teacher Education
Dean, College of Veterinary Medicine
Dean, Institute of Human Kinetics
Dean, Institute of Public Administration
Executive Dean, Bokod Campus
Executive Dean, Buguias Campus

## Subject: Invitation to Attend "Seminar - Workshop on Waste Minimization and Management"

The Young Environmentalists' Society (YES), a recognized student organization of Benguet State University, in coordination with the Department of Biology, would like to participate in the National Zero Waste Month celebration. We see this as an opportunity and an important undertaking to learn more and have a deeper understanding about waste segregation, minimization and management. With this endeavor, we will be able to show our support in protecting our environment.

Relative to this purpose, we would like to invite 3 student leaders from your college $I$ institute to attend a "Seminar - Workshop on Waste Minimization and Management" on February 8, 2019 (Friday) from 8:00am to 12:00nn at CAS Little Theater. This activity will serve as an avenue for the student leaders to be able to:

1. Identify and understand waste minimization and management strategies or techniques;
2. Inculcate awareness on the need for waste minimization and management.
3. Formulate waste management programs, strategies and policies for possible implementation in the University and community.

Please submit the names of participants on or before Feb. 6, 2019 at cas.biology@bsu.edu.ph or 0915-289-8963.

Thank you very much and we look forward to seeing you.
Sincerely,
Jøanna. Alafag
Chairperson, Department of Biology
Endorsed:
Samuels. Potiden, Ph.D.
Dean, College of Arts and Sciences

Approved:
Kenneth A. Laruan, Ph.D.
Vice Ppesident for Academic Affairs

## ATTENDANCE FOR COLLEGE ACTIVITIES

| Document <br> Code: | CAS-10 | Revision <br> Number: | 0 |
| :--- | :--- | :--- | :--- |
| Effectivity: | April 30, 2018 |  |  |


| Activity: | Seminar-Workshop on Waste Minimization and Management |
| :--- | :--- |
| Date: | February 08, 2019; 8:00 am- 12:00 nn |
| Venue: | CAS Little Theatre, Benguet State University |


|  | NAME | COLLEGE/OFFICE/ |
| :--- | :--- | :---: | :---: | :---: |
| COURSE |  |  |$\quad$ COMMENTS

ATTENDANCE FOR COLLEGE ACTIVITIES

| Document <br> Code： | CAS－10 | Revision <br> Number： | 0 |
| :--- | :--- | :--- | :--- |
| Effectivity： | April 30，2018 |  |  |


| Activity： | Seminar－Workshop on Waste Minimization and Management |
| :--- | :--- |
| Date： | February 08，2019；8：00 am－12：00 nn |
| Venue： | CAS Little Theatre，Benguet State University |


|  | NAME | COLLEGE／OFFICE／COURSE | SIGNATURE |
| :---: | :---: | :---: | :---: |
| 36. | Latog．Caplaan T．I．－ | BSM | － |
| 37. | Beray，Janille M． | BSN | W |
| 38 | Baliag，Renilyn L．－ | BSN | Ceren |
| 39. | Tandi，Giselle Mar L．－ | BSN | sucu |
| 40. | Mentirim，Gimphy P． | Hso | Dpentican |
| 41. | Abibico．Nicote Husterine Nicole 1 | b．$B E N$ | Exaw |
| 42. | Banawa，Stetanie S．－ | BSN | Fiv |
| 43. | Cots，Daamefte kaye D． | Bax | Tmel $x_{\text {face }}$ |
| 44. | Bayaner．Chanz 5 ．－ | DSO | Asibnt |
| 45. | Juarsing，Glenda B． | BSN | viofia |
| 46. | Neweng，Rhouzzeah N．－ | BSN | N－ |
| 47. | AlINGAY，JEvie G．－ | BSN | ther |
| 48. | manguizan，mary Grade G． | BSN | crach． |
| 49. | vopes，Fnanne Geri p． | BSN | 动世碞 |
| 50. | Tumpeo，valerie D．－ | BSN | Copeste |
| 51. | Colas，Arixanne awyneth M．＇ | BSN | rexatue |
| 52. | Sumaya．Fayth Mae M． | DisN | （ayate ${ }^{\text {a }}$ |
| 53. | Kinaw，Dassy Joy C． | BSN | $8{ }^{2}$ |
| 54. | Balicag，Cate Astriegs．．－ | BSN | N |
| 55. | Pulas，Shaina Marie E－－ | $135 N$ | ＊${ }^{\text {dra }}$ |
| 56. | Aseso，Emilyk． | BSN | salet. |
| 57. | Apiy，Strena Raven D．－ | BCN | 潔い＂ |
| 58. | Aowes，Uohna S．－． | $B G N$ | yonelote |
| 59. | PACHO，Fardec Haidee．Jean B | BCN | upano |
| 60. | Codod Caluny Rore Cr | BSN | Camy |
| 61. | foritiza，danica 1．－ | BCHEM | $\operatorname{spO}$ |
| 62. | Bayacsan，jose B．－ | BSAKM | 10 |
| 63. | Gupaal，Allyza Glorianne M－ | BiN | tiftraal |
| 64. | DELOS SANTOU，Ira | BSN |  |
| 65. | Felix，angelica L．－ | BSN |  |
| 66. | Calimlim，Alyssa T | BSN | Rtcaun |
| 67. | Potacsil，Ramia Ruth D．－ | BSN | patael |
| 68. | Managmomyon．Eima Soy $\mu$ ，－ | BSN | Comery |
| 69. | Dulliyar Many Sidar D | PSSN |  |
| 70. | Saguibal，Asher Dianne M． | BSN | asay |

## ATTENDANCE FOR COLLEGE ACTIVITIES

| Document <br> Code: | CAS-10 | Revision <br> Number: | 0 |
| :--- | :--- | :--- | :--- |
| Effectivity: | April 30, 2018 |  |  |


| Activity: | Seminar-Workshop on Waste Minimization and Management |
| :--- | :--- |
| Date: | February 08, 2019; 8:00 am- 12:00 nn |
| Venue: | CAS Little Theatre, Benguet State University |



Name

- Catatino, Rumatin A.

2-Orgenn, Jouyleah 1.
E. Butgui, Flyune C.

4 Alibcang, Clydi M.

- Shanne delle pangpangdeo B.

6. Caymo, albbrey l.

7 Landocan, pose B.
8. Velasco, Banjacke A.
g. Aciong, trnel p.
iv Palacsa, keycerene A.
11 Farres, Haned Amn I
i. Mabiall Vanessa c.

1: Botiney, Elijah D
14. Ampanvey, Jackie M.
16. BeITANI, Jazzy NIAE 1 .
(o. Tibay, Emmanuelle claire s:

1a. Polis, Noralyn P.
1n. Latawan, Abegail pr

* Licard, sewer frances $u$.

21. Antere, Atileen 1.

2: Garraf. trisha
$23 \quad$ Sandoval, Elaine
2"* Camine waersores

a Britas, Many Grace G.
30. Holman, trika Faith C:

31 DOMAGAS, Gazelle
Q2 Kreis, Jacawe line D
3 Dalilis, Deanne Carla W.
34. Cernardo. Trisha Mae I. Dela Cruz. Karla Karina $E$.
Riloy: Lander Jomn S.
2- Heosta Khate S.
"jo Gapaa, Jibran

Course BSN
BUN
BSN
BSH
BSN
BSN
BSA
BSN
BSN
BSN
BSh
BSN
BSN
BSN
BSN
BCN
BSN
$B S N$
BSN
PSN
BSN
BSN
BSVN
$B S N$
BSN
BN

BSN
BSN
BSN BSN
BSN
BSN
BSN

BriN
BSN
signature


Tagnant


䄧enguet State $\mathfrak{A n i b e r s i t y}$ College of Arts and Sciences DEPARTMENT OF BIOLOGY Young Environmentalists' Society La Trinidad, Benguet


## ACTIVITY REPORTT

I. TITLE: Seminar-Workshop on Waste Minimization and Management

## II. AGENCIES/ORGANIZATIONS INVOLVED:

Department of Environment and Natural Resources - Cordillera Administrative Region (DENR-CAR) Benguet State University: College of Arts and Sciences, College of Nursing,
College of Home Economics and Technology, College of Engineering and Applied Technology and Institute of Public Administration
Department of Biology
Young Environmentalists' Society

## III. OVERVIEW

The whole month of January is also known as Zero Waste Month, as mandated by Presidential Proclamation no 760 , dated May 5, 2014. Zero waste is defined as an advocacy that promotes the designing and managing of products and processes to avoid and eliminate the volume and toxicity of waste and materials. It is also defined as a goal that is ethical, economical, efficient and visionary to guide people in having a resourceful lifestyle, in which discarded materials can be re-designed as resources for others to use. Zero Waste Month is also pursuant to Republic Act (RA) 9003, or the Ecological Solid Waste Management Act of 2000.

In celebration, a Seminar -Workshop was done at the College of Arts and Sciences- Little Theater to understand and at the same time, create a platform for the different student leaders to take the challenge in creating environmental programs for the University in terms of Solid Waste Management.

The University confirmed in the participation of the different student leaders from the College of Arts and Sciences, College of Nursing, College of Home Economics and Technology, College of Engineering and Applied Technology and Institute of Public Administration and the faculty of Biology Department together with the Young Environmentalists Society.

## IV. OBJECTIVES

a) Cognitive level: identify and understand waste minimization and management strategies or techniques;
b) Psychomotor level: formulate waste management programs, strategies, and/or policies in the University; and
c) Affective level: draw awareness on the need for waste minimization and management in the University and community.

## V. METHODOLOGY

In support of the National Zero Waste Month, the Department of Biology in coordination with the Young Environmentalists' Society undertakes a Seminar-Workshop to learn more and have a deeper understanding about waste segregation, minimization and management by inviting the different student leaders of the Colleges and Institutes of Benguet State University to participate in the said endeavor.

The activity started with a seminar with Senior Environmental Management Specialist Dwight A. Daodao as our guest speaker. He is from the Ecological Waste Management Sector EMB-DENR. He talked and explained about Solid Waste Management, its causes, effects and plans on how to resolve the issues associated with it.

The next part of the activity was a workshop on the planning and preparation of strategies and environmental programs or activities by the participants with the theme "Less is the New More in BSU" in their own college/institute for the whole University. The Area, Specific activity, Objectives, Time frame, Materials needed, Estimated Budget, and Person involved were the keys on the plan created. Included in the workshop is the presentation and evaluation of their outputs.

## VI. ACTION TAKEN

Invitation to the different colleges and institutes of the university were given. There were five (5) Colleges who responded and actively participated in the workshop, namely: the College Arts and Sciences, Nursing, Home Economics and Technology, Engineering and Applied Technology and Institute of Public Administration.

After having more informed of new concepts from the earlier seminar presented, the participants applied it by formulating different plans and strategies for their own college/institutes. A table for plans, scrap papers, markers, ballpen and manila paper were provided and distributed for the student leaders to utilize. After having completed the template, the representatives from each college discussed and explained their proposals. Prof. Jason M. Leung and Prof. Maricel A. Guron of the Department of Biology commented after their discussion and another meeting for student leaders will be expected.

The following are the outputs of our participants:

College of Nursing

| AREA | SPECIFIC ACTIVITY | OBJECTIVES | MATERIALS NEEDED | ESTIMATED <br> BUDGET | PERSON INVOLVE |
| :--- | :--- | :--- | :--- | :--- | :--- |
| CN | Capacity Building | Retooling of Solid Waste <br> Management Advocator. | Electronic devices, chairs, <br> tables | $10,000.00$ | Resource Speaker, <br> Interested BSU students |
|  | Information Dissemination of <br> SWM |  |  |  |  |
| BSU Admin | a. Inclusion to BSU flag <br> ceremony <br> b. BSU on air for <br> broadcasting | Raise awareness of SWM | Technical facilities, flyers | 500.00 | SWM members/Resource <br> person |
| Each College | Public Refilling station: Water <br> is life | Encourage students to reuse <br> their bottles. To reduce <br> purchasing plastic botles. | Initial water refill each jug. <br> 3 water jugs/college | $7,000.00$ |  |
| CR/Laboratory <br> wastes | Proper Waste disposal of <br> special wastes | Increase the quality of <br> cleanliness for treatment and <br> disposal. | Trash bins | $10,000.00$ | BSU Admin, College <br> deans, College <br> organizations |

College of Arts and Sciences,

| AREA | SPECIFIC ACTIVITY | OBJECTIVES | MATERIALS NEEDED | ESTIMATED <br> BUDGET | PERSON INVOLVE |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | WACS | To identify sources of student's wastes <br> and to characterize waste for its <br> management. | Coded bins, garbage bags |  | CAS students, to be led by <br> officers. CAS faculty |
|  | ART UPCYCLING/ <br> VERTICAL <br> GARDENING | For waste reduction at the same time <br> for additional beautification of the <br> building | Pet bottles, wires, <br> flowers/herbal | CAS students |  |
|  | IEC Module | Awareness of students about waste <br> minimization, water and energy <br> conservation | Flyers, posters |  | CAS students |
|  | Enhancement of NO <br> PLASTIC USE | To improve the implementation of no <br> plastic use within the university | Initial water refill each jug. <br> 3 water jugs/college |  | Establishment personnel, <br> students |

College of Engineering and Applied Technology,

| AREA | SPECIFIC ACTIVITY | OBJECTIVES | MATERIALS NEEDED | ESTIMATED <br> BUDGET | PERSON INVOLVED |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Waste <br> minimization | Composting for <br> biodegradable wastes | To lessen the waste disposal of the <br> college | Digging tools | $<100.00$ | CEAT students |
| Energy saving | Daily monitoring of <br> unnecessary plugged <br> electronics | To decrease the current consumption |  | Utility and officers |  |
| Water saving | Close more to store <br> more | To decrease the usage of water | Printing materials | $<100.00$ | everyone |
| Pumapel sa <br> kalikasan | Double sided printing | To dwindle in the over usage of <br> papers |  | everyone |  |
| Waste <br> minimization | Recycling/reusing | To lower waste disposal | Welding materials | $<100.00$ | CEAT students |
| Waste <br> minimization | Seminar/workshops on <br> waste and consuming | To inform/inculcate tostudents waste <br> management | Printing/writing tools | $<500.00$ | Students/officers |
| Waste <br> management | No Red-Policy | Downside the spitting of momma <br> anywhere | Constructing materials | $<1000.00$ | Violators of spitting momma |
| Water-saving | Provided drinking water <br> for students | To lessen the buying of dinks in <br> bottled water | Dispenser | CEAT students |  |

Here are some of the photo-documentations taken during the event:


Senior EMS Dwight A. Daodao giving his lecture on Waste Minimization


Participants during the Seminar held at CAS Little Theater


Presentation of BSU's Initiative in "Less is the new more in BSU" by Prof. Maricel Guron


Dr. Romeo A. Gomez Jr. Giving the Closing Remarks


Awarding of Certificate and giving of token to our Guest Speaker


IPA, CHET and CEAT Participants with Prof. Guron during the workshop


CAS and CN Participants with Prof. Guron during the workshop


Group Picture Taking of Participants with the Guest Speaker and Biology Faculty

## VII. SUMMARY

A lot of knowledge was shared and learned by the participants, achieving the objective on the cognitive level. After lecture, a workshop was done by the participants, headed by the Biology faculty and YES officers. The different representative from each college talked about their strategies and plans for their Solid Waste Management in their own college and evaluation of their outputs was done.

Creating an Environmental code for the University is the goal for the said activity in forming different strategies and plans for the Solid Waste Management of the campus and is expected to continue.

Prepared by:

Noted:

MARICEL A. GURON
Adviser
Young Environmentalist Society


JOANNA I. ALAFAG
Chairperson
Department of Biology

