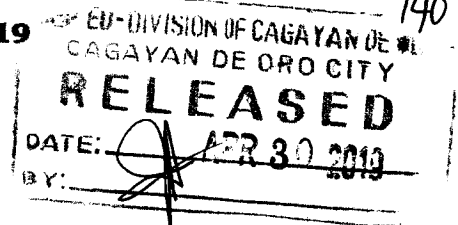


Department of Education  
Region X- NORTHERN MINDANAO  
DIVISION OF CAGAYAN DE ORO CITY  
Fr. William F. Masterson, SJ Avenue,  
KM5, Upper Balulang, Cagayan de Oro City



April 29, 2019

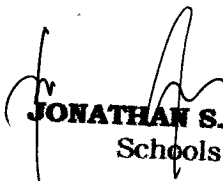


**MEMORANDUM**

TO: **SOCMOB Program Specialists**  
**DRRM Division Coordinator**  
**SCHOOL HEADS AND SCHOOL DRRM FOCAL PERSONS OF:**  
City Central School  
South City Central School  
West Central School  
Kauswagan Central School  
Bugo Central School  
Bulua Central School  
North City Central School  
East City Central School  
Lumbia Central School

**ATTENDANCE TO THE S.O.S. WORKSHOP (STRENGTHENING ORDER IN SCHOOLS) OF THE PHILIPPINES RESILIENCE OF SCHOOLS TO MULTI-HAZARD (PRISMH) PROJECT**

1. You are hereby directed to attend the S.O.S Workshop on May 3, 2019 8:00AM to 5:00 PM at the AVR 1, Old Library, Xavier University Main Campus relative to the pilot project of University College Lodon, De La Salle University and Xavier University - Ateneo de Cagayan entitled Philippines Resilience of Schools to Multi-Hazard (PRISMH). Please see attached letter of invitation for details.
2. Travel and other incidental expenses shall be charged to local funds, subject to auditing and accounting rules and regulations.
3. Immediate and wide dissemination of this Memorandum is desired.

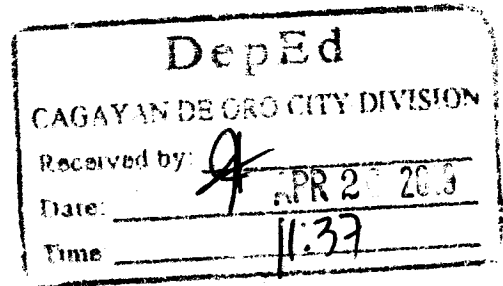
  
**JONATHAN S. DELA PEÑA, Ph.D., CESO V**  
Schools Division Superintendent



**Xavier University**  
 ATENEO DE CAGAYAN

In Consortium with  
 ATENEO DE DAVAO UNIVERSITY and  
 ATENEO DE ZAMBOANGA UNIVERSITY

Office of the Vice President for Social Development



24<sup>th</sup> April 2019

**Jonathan S dela Peña, PhD, CESO V**  
 Schools Division Superintendent  
 Department of Education – Cagayan de Oro Division

Dear Dr. Jonathan,

I am pleased to inform you that Cagayan de Oro City has been chosen as the pilot area in a project called: **Philippines Resilience of Schools to Multi-Hazard (PRISMH)**. This project is a joint collaboration between the University College London (UCL), De La Salle University (DLSU), and Xavier University - Ateneo de Cagayan (XU).

The aim of this project is to develop an advanced resilience assessment framework for school infrastructures subjected to multiple natural hazards in the Philippines. In particular, the project addresses risk from seismic, wind, and flood hazards. The project also looks at the functionality and resilience of schools during and in the aftermath of disasters. The PRISMH project is funded by the British Council and the Commission on Higher Education (CHED). For your reference, attached please find the PRISMH Project Primer.

As a commitment to advocating safe schools in the Philippines, we are cordially inviting **you (or your representative)**, and your **DRRM Focal Person** to the **S.O.S Workshop (Strengthening Order in Schools)**. The workshop aims to: (1) Introduce the concept of organizational resilience to school leaders in maintaining educational continuity against natural hazards, and (2) Assess the emergency awareness, response, and restoration of school services before, during, and after a disaster. Attached please find the draft Program Flow of the workshop.

This activity will be on **May 3, 2019 (Friday), 8:00AM – 5:00PM** at the **AVR 1, Old Library, Xavier University Main Campus**. **This workshop is FREE, and exclusive to invited participants.**

With your kind permission, we also wish to invite the **Principals** and the **DRRM Focal Persons** of the following **Nine (9) Central Schools** in the city, which were pilot schools in a survey we did in 2015:

- |                              |                             |
|------------------------------|-----------------------------|
| (1) City Central School      | (6) Bulua Elementary School |
| (2) South Central School     | (7) North Central School    |
| (3) West Central School      | (8) East Central School     |
| (4) Kauswagan Central School | (9) Lumbia Central School   |
| (5) Bugo Central School      |                             |

We look forward to your positive reply. Thank you very much!

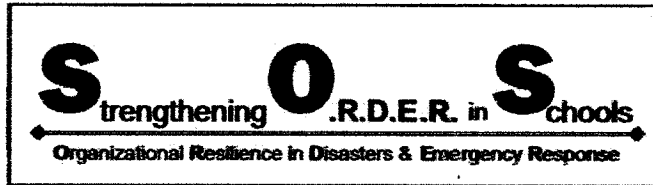
Very respectfully yours,

**Dexter S. Lo**  
 Director, Institutional Societal Engagement  
 Xavier University - Ateneo de Cagayan

*For queries, please contact Ms. Therese Rhea Rose Baliwag: 0936-953-3884*



**PRISMH**  
Philippines Resilience of  
Schools to Multi-Hazard



**May 3, 2019 | AVR1, Old Library, Xavier University Main Campus**

PROGRAM	
AM SESSION	
08:00 – 08:45	<p><u>Presentation:</u></p> <ul style="list-style-type: none"> <li>➤ <b>Call for Resilience of Schools Against Natural Hazards</b> Engr. Raniel Cris L. Macabare</li> </ul> <p><u>Key topic/s:</u></p> <ul style="list-style-type: none"> <li>○ <i>The global initiative to make schools safer from disasters.</i></li> <li>○ <i>What is the S.O.S. project and how can it be applied to the school organization?</i></li> </ul>
08:45 – 09:30	<p><u>Presentation:</u></p> <ul style="list-style-type: none"> <li>➤ <b>Hazard Preparedness in Schools</b> Engr. Samantha Louise N. Jarder</li> </ul> <p><u>Key topic/s:</u></p> <ul style="list-style-type: none"> <li>○ <i>How can I prepare my school against impending hazards?</i></li> </ul>
09:30 – 09:45	SNACKS
09:45 – 10:30	<p><u>Presentation:</u></p> <ul style="list-style-type: none"> <li>➤ <b>Evacuation Procedures</b> Engr. Salvador G. Olaivar</li> </ul> <p><u>Key topic/s:</u></p> <ul style="list-style-type: none"> <li>○ <i>How can I reinforce my buildings for proper evacuation?</i></li> <li>○ <i>Evacuation protocol</i></li> </ul>

10:30 – 11:00	<u>Presentation:</u> ➤ <b>Warnings &amp; Communication</b> Engr. Samantha Louise N. Jarder <u>Key topic/s:</u> <ul style="list-style-type: none"> <li>○ <i>How are warnings monitored in the school facility?</i></li> <li>○ <i>What is the decision-making process for class suspension?</i></li> </ul>
11:00 – 12:30	<b>LUNCH</b>
<b>PM SESSION</b>	
12:30 – 01:30	<u>Presentation:</u> ➤ <b>How Can We Design Disaster Resilient Schools?</b> Engr. Raniel Cris L. Macabare <u>Key topic/s:</u> <ul style="list-style-type: none"> <li>○ <i>Building Resilience</i></li> <li>○ <i>Organizational Resilience</i></li> <li>○ <i>Ambient Resilience</i></li> </ul>
01:30 – 02:15	<u>Presentation:</u> ➤ <b>Past Experiences of Schools from Disasters</b> Engr. Salvador G. Olaivar <u>Key topic/s:</u> <ul style="list-style-type: none"> <li>○ <i>Who are severely affected in the community?</i></li> <li>○ <i>How are communities able to recover after the disaster?</i></li> </ul>
02:15 – 02:45	<b>Quick Survey of the S.O.S. Project</b>
02:45 – 03:00	<b>SNACKS</b>
03:00 – 04:00	➤ <b>Sharing of Resource Materials</b> PRISMH Team <ul style="list-style-type: none"> <li>○ <i>How safe is my building assessment?</i></li> <li>○ <i>School Building Safety Assessment</i></li> <li>○ <i>Hazard Preparedness Checklist</i></li> </ul>
04:00 – 04:10	<b>Closing Remarks</b>



Contact Information:

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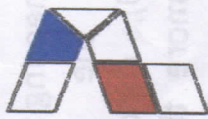
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**BRITISH  
COUNCIL**



**PRISMH**  
Philippines Resilience of  
Schools to Multi-Hazard



Xavier University



## Philippines Resilience of Schools to Multi-Hazard (PRISMH)

A Primer

In 2015, the Xavier University Engineering Resource Center (XUERC), in coordination with the Department of Education (DepEd – Region 10), conducted a rapid structural assessment study of more than 200 school buildings in the nine Central Schools of Cagayan de Oro City, Philippines. The XUERC team used widely accepted methodologies that were tailored to the Philippine setting by structural engineering experts from the De La Salle University – Civil Engineering Department (DLSU).

Results show that more than half of the existing buildings, many of which are built before the seismic provisions of the current structural code were updated, may be at risk when exposed to large earthquake events. This means that a more detailed review of both the structural and functional systems of the schools is highly recommended.

To this aim, the Earthquake and People Interaction Centre (EPICentre) at the University College London (UCL) in the United Kingdom, DLSU and XUERC collaborated for a joint research project on: “Safer Communities through Safer Schools” (SCOSSO) in Cagayan de Oro City. The main aim of SCOSSO is to develop an innovative, advanced, multi-hazard risk assessment framework for school infrastructures in the Philippines. As a result, the SCOSSO mobile application is now available for free download and use to conduct rapid visual surveying and vulnerability

assessment of schools against strong winds, floods, and earthquakes. The app will give instant simplified physical vulnerability estimation, and the data can be easily extracted to spread sheet. To date, the app has been used to survey more than 300 schools in five different countries around the world.

To further enhance and harmonize the physical and social vulnerabilities with regards to resilience of school infrastructures subjected to multiple hazards in the Philippines, the UCL-EPICentre, DLSU and XUERC have again partnered for a project called PRISMH, to investigate the effectiveness of building retrofit measures, early warning provisions and social preparedness measures as means of preventing casualties, reducing economic losses and maintaining functionality of school infrastructures and its role in the community during disasters.

The PRISMH project will focus on learning how school infrastructures functioned and were used during past disaster events, particularly: in Surigao during the 2017 earthquake, in Tacloban during Typhoon Haiyan, and in Cagayan de Oro during recent floods events. The project aims to develop an innovative and advanced multi-hazard resilience assessment framework and guidelines for the effective role and function of school infrastructures in promoting resilient communities in the Philippines.