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Republic of the Philippines  
**Department of Education**  
REGION IV-A CALABARZON



12 November 2024

In compliance with DepEd Order (DO) No. 8, s. 2013  
this advisory is issued not for endorsement per DO 28, s. 2001,  
but only for the information of DepEd officials,  
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### **International Teacher Survey on Green and Sustainable Chemistry (GSC) Practical Activities**

University of the Philippines – College of Education will conduct an international research project under the International Union of Pure and Applied Chemistry (IUPAC) Committee on Chemical Education.

The research project aims to improve understanding of the use of practical work in high school chemistry classes. It also involves a multi-cultural survey of secondary school chemistry teachers on their utilization of practical activities focused on green and sustainable chemistry. Data gathering will be done through a survey instrument that can be accessed through the link <https://eschemistry.org/iupac-survey/>.

All concerned are encouraged to disseminate the attached communication and to participate in this survey.

07/ROP2/ROP1



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**DIVISION OF CURRICULUM AND INSTRUCTION (DCI)**

22 October 2024

**DR. ALBERTO T. ESCOBARTE**

Regional Director  
Region IVA-CALABARZON  
Department of Education

Dear **Dr. Escobarte**:

Greetings!

The undersigned would like to initiate a collaboration with your esteemed institution through participation in the *International Teacher Survey on Green and Sustainable Chemistry (GSC) Practical Activities*, under the auspices of the International Union of Pure and Applied Chemistry (IUPAC) Committee on Chemical Education.


The objective of this project is to improve understanding of the use of practical work in high school chemistry classes. This project involves a multi-country survey of secondary school chemistry teachers on their utilization of practical activities focused on green and sustainable chemistry. Research findings of this international research project could provide valuable information to equip chemistry educators on the integration of green and sustainable chemistry practices and activities.

In line with this, our team would like to respectfully request your official endorsement to disseminate the abovementioned survey to high school educators teaching chemistry in your region. The regional dissemination of the survey facilitates obtaining diverse perspectives from different areas in the country that could eventually lead to more generalizable insights.

The survey instrument is accessible through this link: <https://eschemistry.org/iupac-survey/>. I have also attached the sample survey questions and the publication material that can be used in the dissemination. I can share the soft copy of the pubmat for your dissemination. For more details, you may visit the website <https://eschemistry.org>.

It is with fervent hope to obtain your preferential attention and kind consideration of this request. In case you have questions or clarifications, please feel free to contact the undersigned at [hmr Ramirez@up.edu.ph](mailto:hmr Ramirez@up.edu.ph) or +63 977 811 8698. Thank you very much.

Respectfully yours,

  
**HAZEL JOYCE M. RAMIREZ**  
Assistant Professor, UP College of Education  
Country Coordinator (Philippines), IUPAC Elements of Sustainable Chemistry



### Sample questions

How often do you typically do each of the following in your chemistry teaching?

Statement	More than once a week	Around once a week	Around once a month	A few times per year	Never
Have students perform chemistry experiments as a practical activity					
Have students interact with a computer simulation of a chemical process (e.g., PhET)					

What factors prevent you from using chemistry practical activities more often in your class? Select all that apply.

Please indicate the importance of each of the following factors when choosing chemistry practical activities to do with your class (either demonstration or student-performed).

Statement	Not at all important	Slightly important	Moderately important	Very important	Extremely important
The practical activity is clearly linked to local environmental issues					
Students have the opportunities to develop critical thinking and problem solving skills related to green and sustainable chemistry					

Where do you normally obtain your chemistry practical activities related to green chemistry and/or sustainable chemistry? Select all that apply.

If you would like to use more practical activities related to sustainability, what additional resources would you require?

### Pubmat



### Elements for Sustainable Chemistry

## IUPAC Teacher Survey



The objective of this project is to improve understanding of the use of **practical work in high school chemistry classes**, in particular in relation to the **integration of concepts of sustainability**.



We invite you to participate in this survey if you have **experience in teaching chemistry in high school**.

<https://eschemistry.org/iupac-survey/iupac-survey/>

For inquiries, you may contact [hmr Ramirez@up.edu.ph](mailto:hmr Ramirez@up.edu.ph).