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IPN researcher wins National Electrochemistry Award

- **Dr. Elsa Miriam Arce Estrada will receive the award during the XXXVI National Congress of the Mexican Society of Electrochemistry**
- **Knowledge generation must be a strategic instrument to detonate and take advantage of the potential that Mexico has: Delfina Gomez Alvarez**
- **IPN ´s General Director, Arturo Reyes Sandoval, has expressed the individual and collective contributions of the polytechnic community contribute to institutional prestige**

For her professional career, impact of her research and training of highly qualified human resources, the Mexican Society of Electrochemistry awarded Dr. Elsa Miriam Arce Estrada, researcher at the School of Chemical Engineering and Extractive Industries (ESIQIE), of the National Polytechnic Institute, the *National Electrochemistry Award 2021.*

The Head of the Ministry of Public Education, Delfina Gomez Alvarez, has highlighted the importance of making the knowledge generation a strategic instrument to detonate and take advantage of the potential that Mexico has.

IPN´s General Director, Arturo Reyes Sandoval, has expressed that the individual and collective contributions of the polytechnic community contribute to maintaining a relevant institution, recognized for its contributions to national development and social impact.

Dr. Arce Estrada, attached to the Department of Engineering in Metallurgy and Materials of the Academy of Physical Metallurgy, will receive the award during the XXXVI National Congress of the Mexican Society of Electrochemistry (SMEQ), in virtual mode, which will be held from October 14 to 15.

In this event, the polytechnic scientist will present a conference on her trajectory and scientific contributions to the electrochemical community, among which the development of materials with application in fuel cells, batteries and supercapacitors, and in fields such as corrosion control and metal electrodeposite.

The specialist shared that electrochemistry has diverse applications such as in batteries, fuel cells, photoelectrochemical cells, microbial and enzymatic fuel cells, electrolyzers, metal recovery and refining, coatings, sensors, biosensors, corrosion control and environmental remediation; in the chemical industry to produce chlorine, soda and nylon, among others.

She said that there are a large number of national and transnational industries that require personnel with extensive knowledge in electrochemistry, so participation in research and in the application of knowledge should be promoted. She added that the SMEQ is a group founded in 1983 that currently has 250 members, of which more than 170 are students and 84 researchers.

With level III of the National System of Researchers and several dozen articles published in internationally recognized journals, Dr. Arce Estrada teaches undergraduate courses in electrochemistry and corrosion; in postgraduate, the subjects of corrosion, experimental techniques III, electrocatalysis, photoelectrocatalysis, nucleation and growth processes; she has directed numerous theses at both educational levels.

The academic, who has a Research and Teaching Laboratory at the Minerals and Materials Processing Center of the ESIQIE, said that her performance has been highly rewarding and said she is honored by the recognition, which derives in large part from the work with her students and the feedback she receives from them.

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