

The Latin American Journal of Science Education

Volume 8, Number 1, May 2021

Editor-in-Chief:

Carlos Bourbaki

Professor, Instituto Pedagógico Latinoamericano y Caribeño (Cuba), calle 154 No. 12906 entre 129 y 133 Reparto Reynold Garcia, Matanzas, Cuba CP 40100, E-mail: boubarkic@gmail.com, Phone: 53 45 265794 (Science Education, New Trends on Teaching Physics).

Associated Editors:

Josefina Barrera (Physics Education)

Professor, Escola Normal Superior, Universidade do Estado do Amazonas, Djalma Batista 2470, Chapada Manaus Brasil, Cep 69050-010, E-mail: josefinabk@gmail.com, Phone: 55-92-38787721, 55-92-81481376, 55-92-92623588, (Science Education, Training Science Teachers).

Lourdes Tarifa (Mathematics Education)

Professor, Universidad de Matanzas, Autopista a Varadero km 3, Matanzas Cuba, E-mail: Lourdes.tarifa@umcc.cu, Phone: 5345290261, 52737762 (Mathematics Education, Computing Applied to Education).

Viviane Andrade (Biology Education)

Profesora, do Instituto Oswaldo Cruz - Fiocruz/RJ - Brasil. Celular em Rio de Janeiro +55 21 99240-6554 (Educación en Biología)

Margarita Rasilla (Chemistry Education)

Professor, Instituto Politécnico Nacional. Hornos No. 1003, Col. Noche Buena, Municipio de Santa Cruz Xoxocotlán C.P. 71230. Oaxaca, México. Phone: (951) 517 0610 Ext. 82700. E-mail: mrasilla65@gmail.com, (Didactics of Experimental Sciences, Chemistry Education).

Technical Editor:

Rubén Bourbaki

Professor, Instituto de Educación en Ciencias A. C., Av. de las Flores 53, Juan González Romero, Del. Gustavo A. Madero, Distrito Federal, C. P. 07410, Ciudad de México, E-mail: rboubarki@gmail.com, Tel. 52+5528732751 (New Trends on Teaching Physics).

Editorial Advisory Board

Bayram Akarsu, Turkey
Carlos Sifredo Barrios, Cuba
Cécile de Hosson, France
Cleusa Suzana Oliveira de Araujo, Brazil
Eduardo Mancera, Mexico
Eduardo Moltó Gil, Cuba
Eduardo Montero, Ecuador
Enrique Arribas Garde, Spain
Fatih Tasar, Turkey
Fernando Ureña, Costa Rica
Johanna Camacho González, Chile
Manjula Devi Sharma, Australia
María Silvia Stipcich, Argentina
Marisa Michelini, Italia
Nelson Arias, Colombia
Patricia Camarena, Mexico
Verónica Tricio, Spain

Aim and scope

The Latin American Journal of Science Education (LAJSE) is an open access journal published biannually by the Latin American Science Education Research Association. The official website of the journal is <http://www.lajse.org>. All papers are subject to rigorous peer review and the decision to publish is based on the reviewers' comments. All papers should include a comprehensive, up-to-date literature review and the experimental results presented should demonstrate a significant advance over the current state of the art. LAJSE covers the following topics: Learning and teaching process in science. New trends on teaching science. The nature of science: History, Philosophy and Sociology of science. Curriculum in science and educational policies. Cultural topics on Science Education.

Manuscript submission

All submissions to LAJSE must be sent by e-mail to journal.lajse@gmail.com using the Word template and directions given in the link 'Manuscript submission' in <http://www.lajse.org>. We accept contributions in Portuguese, English and Spanish; in any case, an English abstract should be included.

Address editorial correspondence to Editor en Jefe, C. Bourbaki, Av. De las Flores 53, Col. Juan González Romero, Del. G. A. M., Ciudad de México, C. P. 07410, México. E-mail: ceml36@gmail.com.

Copyright and related rights

The Latin American Journal of Science Education Year 8, No. 1, May 2021, LAJSE is a biannual publication published by the Instituto de Educación en Ciencias AC, Av. De las Flores 53, Col. Juan González Romero, Del. G. A. M., Ciudad de México, C. P. 07440, +52 (55) 57505154, www.lajse.org, journal.lajse@gmail.com. Editor-in-Chief: C. Bourbaki. Exclusive Use Reservation of Rights No. 04-2014-062511125200-102, ISSN: ISSN 2007-9842. both awarded by the National Institute of Copyright. Edited by Institute of Science Education, Av. de las Flores 53, Juan González Romero, Del. Gustavo A. Madero, Distrito Federal, C. P. 07410, Ciudad de México, this issue was printed on November 30, 2014 with 500 copies. The opinions expressed by the authors do not necessarily reflect the position of the editor. The total or partial reproduction of content and images of the publication without authorization of the Instituto de Educación en Ciencias AC is prohibited.

Review

Ataiany Veloso
Patrik Marques

Webmaster

Dr. Rubén Sánchez Sánchez
CICATA Unidad Legaria IPN, Ciudad de México. Date of last modification: 01 May 2020.