



## WCCE11 - 11th WORLD CONGRESS OF CHEMICAL ENGINEERING

IACCHE - XXX Inter-American Congress of Chemical Engineering  
 CAIQ2023 - XI Argentinian Congress of Chemical Engineering  
 CIBIQ2023 - II Ibero-American Congress of Chemical Engineering  
 Buenos Aires - Argentina - June 4-8, 2023

"The global chemical engineering working for a better future world"



**GS11-Global Symposium on developments in Chemical Engineering in Iberoamerica: Resilient engineering and industry 5.0**

Thursday, June 8<sup>th</sup>  
 Auditorium 2  
 (Ground floor)

## PROGRAM

### ORAL SESSIONS

#### SESSION 1. DEVELOPMENTS IN CHEMICAL ENGINEERING IN IBEROAMERICA

Chairs: *Víctor Ramírez, IACChE, Perú*  
*Jeffrey Leon-Pulido, Ean University, Colombia*

Thursday, June 8<sup>th</sup>  
 Auditorium 2

<b>ID3051</b> KEYNOTE	<b>14:00-14:30</b>	"Biosensors based on natural products for possible wound healing monitoring" Vilcahuaman, K.; Elgegren, M.; Donayre, A.; Nakamatsu, J.; <u>Kim, S.</u> <i>Pontificia Universidad Católica del Perú (Perú)</i>
<b>ID1889</b>	<b>14:30-14:45</b>	"Presence of steroid hormones in lake titicaca and drinking water, Puno (PERÚ)" Zamalloa Cuba, W.A.; Condori Canaza, S.S. <i>National University of the Altiplano (Perú)</i>
<b>ID3031</b>	<b>14:45-15:00</b>	"A review of routes for hydrogen production in latin america and potential of enviromental impact" Gomez Pachón, J.V.; Mantilla Gonzalez, J.N.; Gonzalez Niño, L.V.; Jaime Nieto, R.A.; Cárdenas, V.O.; Ocampo, P.; Leon- Pulido, J. <i>Ean University (Colombia)</i>
<b>ID3127</b>	<b>15:00-15:15</b>	"Degradable PDA@PNIPAM-TA nanocomposites for Temperature- and NIR- Controlled Pesticide Release" Wang, M.T.; Fan, R.R.; <u>Le, Y.</u> <i>Beijing University of Chemical Technology (China)</i>
<b>ID3149</b>	<b>15:15-15:30</b>	"Separation of butanone and ethyl acetate azeotropes by ionic liquid extractive distillation: vapor-liquid equilibrium measurement, interaction analysis and process simulation" Feihu, L.; Ying, L.; Yanqi, W.; Mengyuan, L.; <u>Qunsheng, L.</u> <i>Beijing University of Chemical Technology (China)</i>
<b>ID3150</b>	<b>15:30-15:45</b>	"Simulation and optimization of the first distillation column in the recovery section of polyvinyl alcohol production" Mengyuan, L.; <u>Fan, G.</u> ; Qunsheng, L. <i>Beijing University of Chemical Technology (China)</i>

## POSTER SESSION

Thursday, June 8<sup>th</sup> (COFFEE AREA) 10:30-11:00 h & 16:00 -16:30 h

<b>ID1943</b>	“Estudo preliminar da aplicabilidade da metodologia da AOP-48 da OTAN na análise de estabilidade de pólvoras” Vasconcelos, C.J.F.S.F.; Da Silva, J.D.L.; Rodrigues, R.L.B.; <u>Peixoto, F.C.</u> <i>Instituto Militar de Engenharia, Brazilian Army (Brazil)</i>
<b>ID2606</b>	“Electrospinning jet technique describing nonwoven fibrous mats for various biotechnological and biomedical applications” Sabino, M.A.; <u>Rezende, R.A.</u> ; Silva, J.V.L. <i>University of Araraquara (Brazil)</i>
<b>ID2638</b>	“Application of Dynamic HAZOP in Operational Hazard Assessment in a Depropanizing Column Using Aspen Hysys® Simulator” Araújo, D.P. <sup>1</sup> ; Bahú, J.O. <sup>2</sup> ; León-Pulido, J. <sup>3</sup> ; Concha, V.O.C. <sup>1</sup> <sup>1</sup> <i>Federal University of São Paulo (UNIFESP) (Brazil).</i> <sup>2</sup> <i>University of Campinas (UNICAMP) (Brazil).</i> <sup>3</sup> <i>EAN University (Colombia)</i>
<b>ID3011</b>	“Análisis de basicidad y cálculo de masa de las cales de adición para la conformación de un sistema de escoria saturada de óxidos básicos en el proceso de fusión del horno EAF instalado en planta acería” Gómez, E.; <u>Monzón, V.</u> <i>Universidad de San Carlos de Guatemala (Guatemala)</i>
<b>ID3035</b>	“Thermochemical study of an upcycling process from cannabis hemp residues” <u>Convers-Sánchez, J.D.</u> ; Cárdenas, V.O.; González-Delgado, A.D.; Crissien Castillo, B.; Baptiste, B.; León-Pulido, J. <i>Ean University (Colombia)</i>
<b>ID3038</b>	“Evaluación ambiental de la producción de aceite y biochar de aguacate criollo-antillano producido al norte de Colombia mediante el Algoritmo WAR” León-Pulido, J.; Herrera-Rodríguez, T.C.; <u>González-Delgado, Á.D.</u> <i>Ean University (Colombia)</i>



### Coordinators

**Jeffrey León-Pulido**, School of Chemical Engineering, University Ean, Colombia (CO)  
**Lina María González Rodríguez**, School of Chemical Engineering, University of Antioquia, Colombia (CO)  
**Adriana Herrera**, University of Cartagena, Colombia (CO)  
**Debora A. Nabarlatz**, School of Chemical Engineering, Industrial University of Santander, Colombia (CO)  
**Juan Sebastián Guerrero**, Valle University, Colombia (CO)  
**Rodrigo A. Rezende**, School of Biotechnology, Araraquara University, Brazil (BR)  
**Viktor Cardenas Concha**, School of Chemical Engineering, Federal University of São Paulo, Brazil (BR)  
**Víctor Ramírez**, Former President IACCHE, Perú (PE)

Organized by:



Promoted and supported by:

