

Zoom Link:

<https://us06web.zoom.us/j/86177295124?pwd=Z2lrYyftDUlc4OGdJUjRUSmtpdW5OZz09>

Hour	Thursday 2 March
10:00 - 10:15	<p style="text-align: center;">Welcome</p> <p style="text-align: center;"><i>Dr. Rodolfo Camacho Velázquez, CMI President</i></p>
<p>SESSION 1. POROUS SYSTEMS IN ENERGY RESOURCES</p> <p>Moderator: Dr. Erick Luna Rojero and Dr. Víctor Leonardo Teja Juárez</p>	
10:15 - 10:45	<p style="text-align: center;">Transport model in a fractured porous medium to estimate oil saturation in a gas cap</p> <p style="text-align: center;"><i>Erick Luna, Karina Vargas, Norma García, Bernardo Carreón, Manuel Coronado</i></p>
10:45 - 11:15	<p style="text-align: center;">Application of a pore network model from microtomography images to a Bedford limestone sample</p> <p style="text-align: center;"><i>Pablo A. Ramírez Trejos, Martín A. Díaz-Viera</i></p>
11:15 - 11:25	<u>BREAK</u>
11:25 - 12:50	<p style="text-align: center;">Kimberly Clark Lecture:</p> <p style="text-align: center;">Vascular Materials: Predicting Design Evolution</p> <p style="text-align: center;"><i>Professor Adrian Bejan</i></p>
12:50 - 13:00	<u>BREAK</u>
13:00 - 13:30	<p style="text-align: center;">Contribution of the absorption and desorption process in the production of hydraulically fractured horizontal wells</p> <p style="text-align: center;"><i>Rosa Ma. Mariscal-Romero, Rodolfo G. Camacho-Velázquez</i></p>
13:30 - 14:00	<p style="text-align: center;">Permeability scaling in igneous rock samples from the Los Humeros reservoir, Mexico, using X-ray microtomography</p> <p style="text-align: center;"><i>Dante Arteaga, Sandra Vega, Luis Olmos</i></p>
14:00 - 14:30	<p style="text-align: center;">Evaluation of CO₂ fracturing in unconventional shale reservoirs</p> <p style="text-align: center;"><i>Carlos Felipe Silva Escalante; Rodolfo Gabriel Camacho Velázquez; Ana Paulina Gómora Figueroa</i></p>
14:30 - 16:00	LUNCH BREAK



16:00 - 16:30	<p>Numerical simulation of oil-water displacement at pore scale in the presence of surfactants</p> <p><i>Jorge A. Briones-Carrillo; Carlos G. Aguilar-Madera, Víctor Matías-Pérez, Ignacio Navarro-de León, Sóstenes Méndez-Delgado, José V. Flores-Cano, Lázaro Molina-Espinosa</i></p>
<p>SESSION 2. SOILS AND AQUIFERS</p> <p>Moderator: Dr. Antonio Quevedo Tiznado</p>	
16:30 - 17:00	<p>Analysis of the space-time evolution of the static level in the southern part of the aquifer of the Basin of Mexico</p> <p><i>José E. Revueltas Martínez; Graciela Herrera Zamarrón; Mario A. Hernández Hernández; Hugo Enrique Júnez Ferrerira</i></p>
17:00 - 17:30	<p>Analysis of the estimation of vertical displacement with InSAR associated with the upper aquitard of the southern portion of the Basin of Mexico</p> <p><i>Miguel Angel Velasco Lindero</i></p>
17:30 - 18:30	<p>CMI ASSEMBLY</p>

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Hora	Friday 3 March
<p>SESSION 3. GEOTHERMAL SYSTEMS</p> <p>Moderator: Dr. Jorge Andaverde Arredondo</p>	
9:00 - 9:30	<p>Techno-economic analysis of electricity generation by enhanced geothermal systems at proposed sites in Mexico</p> <p><i>Julio Ramírez Vicencio, Abel Felipe Hernández Ochoa, Roberto Israel Ramírez Sotelo, Alfonso Aragón Aguilar, Siomara López Blanco</i></p>
9:30 - 10:00	<p>Approximation to the solution of potential problems with interfaces using generalized finite differences</p> <p><i>Ricardo Román-Gutiérrez, Francisco Javier Domínguez-Mota, Calor Chávez-Negrete, José Alberto Guzmán Torres, Gerardo Tinoco Guerrero</i></p>

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SESSION 4. OTHER APPLICATIONS	
Moderator: Dr. Ana Paulina Gómora Figueroa	
10:00 – 10:30	Fluid flow model in a highly compressible porous medium subjected to centrifugal force <i>Manuel Coronado, Santiago Plata, Erick Luna, Martín A. Díaz-Viera y William Vicente y Rodríguez</i>
10:30 - 11:00	Comparative study of the nuclear magnetization response in confined fluids at the pore scale <i>Sinai Morales Chávez, Martín A. Díaz Viera</i>
11:00 – 11:30	What have we learned, and can we learn about the porous structure captured with X-ray microtomography? <i>Sandra Vega</i>
11:30 - 11:50	BREAK
SESSION 5. ARTIFICIAL POROUS SYSTEMS	
Moderator: Dra. Sandra Vega	
11:50 - 12:20	Analysis of Water Flow with Transport of Solids in Pervious Concrete using Comsol Multiphysics <i>Carlos Ignacio Vizcaino López</i>
12:20 - 12:50	Study of systems with Ti-6Al-4V gradient porosity for biomedical applications <i>Rogelio Jr. Macias Ambriz, Luis Rafael Olmos Navarrete, Pedro Garnica Gonzales</i>
12:50 - 13:20	Estimation of the porosity-permeability relationship of stochastically simulated fractured porous media using a copula-based quantile regression <i>Martín A. Díaz-Viera, Evgeny Pervago, Manuel Coronado, Mario E. Ramos García</i>

**9^{na} ANNUAL MEETING OF THE
MEXICO INTERPORE CHAPTER**

March 02-03, 2023
RACMI-2023 in Hybrid mode



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13:20 - 13:50	Alteration of wettability in carbonate rocks with surfactants and silicon oxide nanoparticles <i>Adrián Peralta Jarquín, Ana Paulina Gómora Figueroa</i>
13:50 - 14:20	Porosity scaling with cellular automata <i>Juan Eduardo Linares Pérez, Sandra Vega</i>
14:20 - 14:30	RACMI 2023 CLOSURE
14:30 - 16:30	LUNCH BREAK
16:30 - 17:30	VISIT TO THE GEOSCIENCE CENTER, JURQUILLA (OPTIONAL)