Alliance of Mexican-Indian Geoscientific Opportunities WORKSHOP ON WATER, CLIMATE CHANGE AND DISASTERS

29th to 31st May 2019, Mexico City

Program

Auditorio Ricardo Monges López – Instituto de Geofísica, UNAM

29 May 2019		
08:45 – 09:15	Registration	
09:15 – 09:30	Inauguration ceremony	
WATER SESSION		
09:30 – 10:15	Mathematical modeling of groundwater flow and nitrate transport in the Mexico City aquifer Dr. Graciela Herrera-Zamarrón, Institute of Geophysics, UNAM	
10:15– 11:00	Inverse mass balance modeling using NETPATH code to identify the major subsurface hydrogeochemical processes in hard rock aquifer Dr. T. Subramani, College of Engineering Guindy, Anna University	
11:00 – 11:15	Discussion	
11:15 – 11:30	Coffee break	
11:30 – 12:15	Hydrogeological studies in Mexico City: groundwater flow modeling, land subsidence and deep exploration Dr. Eric Morales-Casique, Institute of Geology, UNAM	
12:15 – 13:00	Groundwater investigations in the Faculty of Engineering, UNAM Dr. José Antonio Hernández-Espriú, Faculty of Engineering, UNAM	
13:15 – 15:00	Lunch break ¹	
15:00 – 15:45	Groundwater dynamics in coastal aquifers: controls on salinization, seawater cycling and chemical fluxes Dr. K. Srinivasamoorthy, Department of Earth Sciences, Pondicherry University	
15:45 – 16:30	Challenges and opportunities in the application of the Regional Groundwater Flow Systems approach Dr. Oscar Arnoldo Escolero-Fuentes, Institute of Geology, UNAM	
16:30 – 16:45	Discussion	
16:45 – 17:00	Coffee break	
17:00 – 17:45	Fluoride and nitrate contamination in hard rock aquifers: Potential health risk assessment Dr. D. Karunanidhi, Sri Shakthi Institute of Engineering and Technology	
17:45 – 18:30	Effects of the M7.1 earthquake of 19th September 2017 in springs and wells of Morelos state Mexico M.I. Carlos Gutierrez-Ojeda, Mexican Institute of Water Technology (IMTA)	
18:30 – 18:45	Discussion	
30 May 2019		
09:00 – 14:00	Field visit (Ciudad Universitaria – Xochimilco – Ciudad Universitaria) ² Coordinators: Ing. Alberto Arias Paz, Faculty of Engineering, UNAM and Dr. Claudia Arango-Galván, Institute of Geophysics, UNAM Departing point: Parking area of Instituto de Geologia, UNAM	
17:00 – 18:00	Cultural event (Pancha Bhoota, los cinco elementos de la naturaleza con la danza Bharatanatyam) Performer: Ernesto de la Teja, Casa de Cultura de India en México A.C. Venue: Museo de Geología, Jaime Torres Bodet No. 176, Santa María La Ribera	

Auditorio Ricardo Monges López – Instituto de Geofísica, UNAM

31 May 2019

DISASTERS SESSION		
09:30 – 10:15	Understanding Disaster Risk and Disasters	
	Dr. Irasema Alcántara-Ayala, Institute of Geography, UNAM	
10:15 – 11:00	Coastal zone multi-hazard vulnerability assessment along the South-East coast of	
	India	
	Dr. G. Muthusankar, French Institute of Pondicherry	
11:00 – 11:15	Discussion	
11:15 – 11:30		
CLIMATE CHANGE AND PALEOCLIMATE SESSION		
11:30 – 12:15	The monsoon of North America: Observational and modelling activities	
	Dr. Ignacio Arturo Quintanar-Isaías, Centre for Atmospheric Sciences, UNAM	
12:15 – 13:00	Climate change Evaluation and its impact assessment in the Cauvery delta region	
	(south India) using Geospatial Technology	
	Dr. C. Lakshumanan, Centre for Remote Sensing, Bharathidasan University	
13:00 – 13:15	Discussion	
13:15 – 15:00	Lunch break ¹	
15:00 – 15:45	Paleoclimate change in Latin America over the last 2000 years	
	Dr. Abdel Sifeddine, Representative of IRD in Mexico	
15:45 – 16:30	The answer is blowing in the wind: Climate Variability during Holocene in the Gulf of	
	California Dr. Ligia Lucina Pérez-Cruz, Institute of Geophysics, UNAM	
16:30 – 16:45	Discussion	
16:45 – 17:00	Coffee break	
17:00 – 17:45	Carbon isotopes in sediments and groundwater: tools for chronology and	
	paleoclimate studies	
	Dr. Laura Beramendi Orosco, Institute of Geology, UNAM	
17:45 – 18:30	Responses of the arid ecosystems of Mexico to the late Quaternary global climate	
	changes	
10.20 10.45	Dr. Priyadarsi D. Roy, Institute of Geology, UNAM Discussion	
18:30 – 18:45		
18:45 – 18:50	Closing ceremony	
3 – 7 June 2019		
09:00 – 19:00	Post-Workshop field visit (Ciudad Universitaria – El Potosí Basin – Cieneguilla Basin –	
	Ciudad Universitaria) ³	
	Coordinator: Dr. Priyadarsi D. Roy, Institute of Geology, UNAM	
	Departing point: Parking area of Instituto de Geologia, UNAM	

 $^{^{\}scriptsize 1}$ No lunch will be provided for assistants.

² Limited availability. Organizing Committee will only provide transportation. Each participant is responsible for her/his own insurance and security.

³ Only for foreign experts.