

<b>Monday, June 07, 2021</b>	<b>t<sub>start</sub></b>	<b>t<sub>end</sub></b>	<b>Title</b>	<b>Authors</b>
	<b>9:00</b>	<b>9:30</b>	<b>Plenary Session 1-Yong-Guan Zhu</b>	
<i>1.3.Arsenic and other trace elements in global groundwaters</i>	9:30	9:45	Processes controlling arsenic distributions in groundwater from an inland basin, China	Huaming Guo, Wei Xiu & Wen Qiao
	9:45	10:00	Controls of Lithology and Groundwater Pumping on Arsenic Contamination of Deep Groundwater in Bangladesh	Khan, M.R., van Geen, A., Ahmed, K.M., Michael, H
	10:00	10:15	Gold-mine related arsenic contamination of drinking water sources in Kolar Gold Fields, India	D. Ghosh, P. C. Arya & P.K. Sarath
	10:15	10:30	Speciation of arsenic in groundwater, sediment and plant leaves in north-western Bangladesh: Implications for arsenic mobilization	A.H.M. Selim Reza, C.-C. Brombach, H. Fröllje & T. Pichler
	10:30	10:45	Second-generation global risk map of groundwater arsenic contamination	J. Podgorski & M. Berg
	10:45	11:15	<b>Coffee break (30min)</b>	
<i>1.3.Arsenic and other trace elements in global groundwaters</i>	11:15	11:30	Arsenic contamination of groundwater from western part of the Bha-girathi River in the lower delta plain of West Bengal, India	B.A. Shah & S. Chatterjee
	11:30	11:45	Competitive adsorption mechanism of As(III) and As(V) in shallow groundwater of Jiangnan Plain	Y. Zhang., J.X. Wu., Q. Yu. & H.P. Ye
	11:45	12:00	Arsenic contamination in sedimentary groundwater basin of Mukunkan in Northern of Sri Lanka	M. Premathilaka & R. Chandrajith
	12:00	12:15	Arsenic occurrence in the groundwater of South Africa?	T.A. Abiye & P. Bhattacharya
	12:15	12:30	Understanding the groundwater systems in the High And Low Arsenic Zones across the Bhagirathi-Hooghly River, India	M. Chakraborty, A.K Mishra & A. Mukherjee
	12:30	13:30	<b>Lunch break</b>	
	<b>13:30</b>	<b>14:30</b>	<b>Inaugural session</b>	
	<b>14:30</b>	<b>15:30</b>	<b>Plenary Session 2(1)-Alejo Pérez Carrera (2)-Luiz Roberto Guimaraes Guiherme</b>	
	15:30	16:00	<b>Coffee break (30min)</b>	
<i>1.3.Arsenic and other trace</i>	16:00	16:15	Natural Occurrence and the Effects of the Evaporation on the Arsenic Concentrations in a Semi-Arid Area in the Mexican Altiplano	D. Cauich-Kau, A. Cardona-Benavides, J. Castro-Larragoitia & T. Rude

<i>elements in global groundwaters</i>	16:15	16:30	Arsenic in different water sources from Arica and Parinacota, Chile	G. Pincetti-Zúniga, L. Richards & D. Polya
	16:30	16:45	Advances in Improving the Knowledge of Geogenic Arsenic Distribution from Salto Uruguay Aquifers	E. Alvareda, E. Abelenda, I. Machado, V. Buhl, N. Mañay, J. Ramos & P. Gamazo
	16:45	17:00	Geochemical baseline of arsenic in surface water and sediments of Chile: Regional distribution and its relationship to geology and climate	J. Tapia
	17:00	17:15	Arsenic levels in groundwater and its correlation with relevant inorganic parameters in Uruguay from the Medical Geology point of view	I. Machado, V. Bühl & N. Mañay
	17:15	17:30	Presence of geogenic arsenic caused by thermal activity in the Celaya Valley Aquifer: Environmental implications	J.F.A. Landa-Arreguín, R.E. Villanueva-Estrada, J.E. Ortega-Gutiérrez, J.I. Morales-Arredondo, B.S. Amézaga-Campos & M.A. Armienta-Hernández
	17:30	17:45	Geologic/Geomorphic controls on groundwater arsenic occurrence in a loess-type aquifer in southern Pampean plain, Argentina	L. Sierra, P. Weinzettel, S. Dietrich, S. Bea, E. Kruse, L. Richards, G. Pincetti & D. Polya
	17:45	18:00	Distribution of Arsenic and Uranium in Groundwater Utilized as Drinking Water in Bihar, India	L. A. Richards, A. Kumar, P. Shankar, A. Gaurav, A. Ghosh, D.A. Polya
	18:00	18:15	Pseudo contour maps from Logistic Regression Modelling: case study of groundwater arsenic distribution in Gujarat State, India	R. Wu, Joel Podgorski, M. Berg & D.A. Polya
	18:15	18:30	Geochemistry of arsenic in surface and groundwaters of Los Pozuelos basin, Puna region, NW Argentina.	J. Murray, D.K. Nordstrom, B. Dold, A. Kirschbaum
18:30	19:00	<b>Session discussion theme 1.3</b>		

Tuesday, June 08, 2021		t <sub>start</sub>	t <sub>end</sub>	Title	Authors
	9:00	9:30	<b>Plenary Session 3-Doris van Halem</b>		
<i>1.2.Biogeochemical processes controlling arsenic mobility and redox transformation</i>	9:30	9:45	Optical and molecular signatures of dissolved organic matter in groundwater from the Hetao Basin, China	W. Qiao, & H.M. Guo	
	9:45	10:00	Arsenic transformation and possible mobilization by indigenous microbes in Hot spring environment	J.P. Maity, Y.H. Huang, G. Day, P. Banerjee, A.C. Samal, A. Ahmad, P. Bhattacharya, C.Y. Chen	
	10:00	10:15	Arsenite and arsenate binding to ferrihydrite organo-mineral coprecipitate: Implications for arsenic mobility and fate in natural environments	Huihui Du	
	10:15	10:30	Arsenic biotransformation in the Gut of Soil Fauna	Y. G. Zhu, H. T. Wang, G. W. Zhou, & X. M. Xue	
	10:30	10:45	Responses of bacteria and genes to arsenite under nitrate-reducing conditions in a non-contaminated paddy soil	Xiaomin Li, Shuang Li, Jiangtao Qiao, Fangbai Li	
	10:45	11:00	Linking microbial community composition to arsenic mobilization in the western Hetao Basin: Potential importance of ammonium as an electron donor	Wei Xiu, Jonathan Lloyd, Huaming Guo, Wei Dai, Sophie Nixon, Naji M. Bassil, Cui Ren, Chaoran Zhang, Tiantian Ke, David Polya	
	11:00	11:15	Investigation of Biochemical Properties of Soil and Groundwater in Arsenic affected blocks of Murshidabad district & isolation of potential Arsenic resistant Bacteria	S. Ahmed, A. Basu, D. Mandal, I. Saha & M. Biswas	
	11:15	11:45	Coffee break (30min)		
<i>1.2.Biogeochemical processes controlling arsenic mobility and redox transformation</i>	11:45	12:00	The role of (noble)gases in an As contaminated aquifer	A. Lightfoot, M.S. Brennwald, E. Stopelli, AdvectAs project members, R. Kipfer	
	12:00	12:15	Silcrete formations in black saline alkaline lakes of Pantanal da Nhecolândia. A natural mechanism for Arsenic trapping.	Amauris Hechavarría-Hernández, Anne Hélène Fostier, Katherine Chacón-Madrid, Laurent Barbiero	
	12:15	12:30	Arsenic bioconcentration in phytoplankton in Brazilian soda lakes	A.H. Fostier, A. Hechavarría-Hernandez, J.S. Costa, M. Fiore, J.P.	

				Leister, A.T. Rezende-Filho & L. Barbiero
	12:30	13:30	Lunch break	
	13:30	14:30	<b>Plenary Session 4 (1)-Barry Rosen</b>	
			<b>Plenary Session 4 (2)-Maria Armienta Aurora</b>	
	14:30	15:30	<b>Panel discussion-Recent advances in arsenic research: distribution in environmental matrices, health impacts and technologies for remediation</b>	
	15:30	16:00	Coffee break (30min)	
<i>1.2. Biogeochemical processes controlling arsenic mobility and redox transformation</i>	16:00	16:15	Factors controlling varying arsenic concentration in the Copiapó River, Atacama Region, Chile	K. Bieger & M.A. Alam
	16:15	16:30	Environmental Biochemistry of Arsenic Species in Contaminated Areas of Chile	I. Pizarro & D. Román
	16:30	16:45	Radiocarbon analysis of RNA, DIC, DOC and CH <sub>4</sub> to constrain the sustainability of pumping Pleistocene aquifers in Bangladesh	B. J. Mailloux, M. R. Mozumder, B. Bostick, T. Ellis, C. Harvey, G. Slater, E. Trembath-Reichert, I. Choudhury, K. M. Ahmed, A. van Geen
<i>1.5. Advances and challenges in arsenic analysis in solid and aqueous matrix</i>	<b>16:45</b>	<b>17:15</b>	<b>Session discussion theme 1.2</b>	
	17:15	17:30	Ultra-High Performance Liquid Chromatography (UHPLC) hyphenated to Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for fast analysis of arsenic species in environmental and biological media	I. Herath, J. Bundschuh, & P. Bhattacharya
	17:30	17:45	As(V) determination using bienzymatic biosensor AuNPs- Screen-Printed Electrode.	C. Núñez, V. Arancibia, V. Serafín, L. Agui & P. Yáñez-Sedeño
	17:45	18:00	Arsenic determination in urine samples by Anodic Stripping Voltammetry using different electrodes	J. José Triviño, C. Nuñez & V. Arancibia
	18:00	18:15	Novel Biosensor Field Kit for Trace Arsenic Analysis in Field Samples	E. Hicks, M. McDonald, C. Dalton, D. Silver & R.M. Mayall
	<b>18:15</b>	<b>18:45</b>	<b>Session discussion theme 1.5</b>	

Wednesday, June 09, 2021		$t_{start}$	$t_{end}$	Title	Authors
	9:00	9:30	<b>Plenary Session 5-Karin Broberg</b>		
4.2. Water matrix/ ion competition	9:30	9:45	Arsenic co-precipitation with iron oxidation products and retention during precipitate aging: Effects of phosphate, silicate and calcium.	A. Voegelin, A.-C. Senn, R. Kaegi, S. J. Hug	
	9:45	10:00	Sequential ferrous iron oxidation for arsenic removal from phosphate-containing groundwater.	M. Annaduzzaman, L.C. Rietveld, B.A. Hoque, D. van Halem	
	10:00	10:15	The implementation of co-precipitation combined with membrane filtration for arsenic removal: The effect of the water matrix on ferric hydroxide formation and membrane performance.	S.B. Rutten.	
4.3. Bioremediation	10:15	10:30	Extracellular polymeric substances reduce uptake but enhance transformation of arsenic in <i>Chlamydomonas reinhardtii</i> .	S. Naveed, Y Ge, C.H. Li, Z.Q. Jiang, Q.N. Yu, J.Y. Zhang and C.H. Zhang	
	10:30	10:45	Bioremediation of high-As Acid Mine Drainage from the Carnoulès mine (France) based on microbial iron and arsenic oxidation: from laboratory to the field.	C. Casiot, M., Héry, C. Diaz-Vanegas, A. Malclès, L. Fernandez-Rojo, E. Laroche, A. Desoeuvre, O. Bruneel, F. Battaglia-Brunet, C. Jouliau, L. Lin, P. Le Pape, G. Morin, J. Jacob.	
	10:45	11:15	Coffee break (30min)		
4.3. Bioremediation	11:15	11:30	Remediation of arsenic-rich acid mine water in sulfate-reducing bioreactors	F. Battaglia-Brunet, C. Jouliau, H. Tris, J. Jacob, C. Casiot, M. Hery	
	11:30	11:45	Molecular characterization of arsenite oxidizing bacteria for water treatment in rural communities of the state of Guanajuato, Mexico	U. E Rodríguez Castrejón, A. Serafín Muñoz, G. Cruz Jiménez, C. Cano Canchola & A. Álvarez Vargas	
	11:45	12:00	Integrating biological oxidation of arsenite by arsenic oxidizing bacteria with iron-electrocoagulation: A novel approach for enhanced removal of arsenite from water.	M. Roy, C. M. van Genuchten, L. C. Rietveld & D. van Halem	
	12:00	12:15	A prospective phytoremedial mechanism for arsenic from contaminated drinking water using <i>Hydrphila spinose</i> .	N. Roy Chowdhury, D. Sinha, A. Das, M. Joardar & T. Roychowdhury	
	12:15	12:45	<b>Session discussion theme 4.2 &amp; 4.3</b>		

	<b>12:45</b>	<b>13:30</b>	Lunch break
	<b>13:30</b>	<b>14:30</b>	Plenary Session 6(1)-Alexander van Geen Plenary Session 6(2)-Conrad J. Choiniere
	<b>14:30</b>	<b>15:30</b>	Closing & Panel discussion-Bridging Policy to Practice: why does the same (WHO) policy has different results around the world and what are good strategies to bridge policy to practice