

Monday, June 07, 2021		t_{start}	t_{end}	Title	Authors
		9:00	9:30	Plenary Session 1-Yong-Guan Zhu	
5.1. Sustainable Mitigation		9:30	9:45	Preliminary investigations to assess potentialities of applying the SASMIT Protocol in three contrasting hydrogeological environments in Bangladesh	K.M. Ahmed, M.J. Alam, A.S.M. Woobaidllah, M.M.A. Akif, M.M. Bishal, I. Rahman, P. Bhattacharya, M.T. Islam, M. von Brömssen, S. Sharma, I.H. Russel & N. Akter
		9:45	10:00	Phytoremediation Strategies of Arsenic-Contaminated Surface Water Near Former Mining Pit 'Kolong' using Arsenic Hyperaccumulator Pteris vittata as Mitigation Measurement in Bangka Island, Indonesia	G. S. Satria, G. Widyastuti
		10:00	10:15	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
		10:15	10:30	Phytoremediation of arsenic contaminated soil and water through some hyperaccumulator pteridophytic plants	A.C. Samal, P. Bhattacharya, J.P. Maity, A. Mallick, S. C. Santra J. Schullehner, L. Ramsay, M.M. Petersen, B. Hansen, P. van der Wens, D. Voutchkova & S.M. Kristiansen
		10:30	10:45	Arsenic concentrations "as low as reasonably possible": Leaders, laggards and possibilities for a guideline <10 µg/L	
		10:45	11:15	<i>Coffee break (30min)</i>	
5.1. Sustainable Mitigation		11:15	11:30	Is the colour of the sediment a pointer to predict arsenic safe water? Exploration from the field in Bihar, India	B.K.Thakur, M. Jakariya & P. Bhattacharya
		11:30	11:45	Can community deep tubewells provide safe drinking water? Evidence from a randomized experiment in rural Bangladesh.	S. Cocciolo, S. Ghisolfi, A. Habib, S.M.A. Rashid, A. Tompsett
		11:45	12:00	Utilizing citizen science to develop knowledge exchange and sampling analysis schemes on geogenic arsenic in groundwater in Patna, India	S. T. Addison, D. A. Polya & L. A. Richards
		12:00	12:15	Biosurfactant mediated arsenic mobilization	L. S. S. Araújo, M. C. Teixeira M.J. Alam, K.M. Ahmed, M.M.A. Akif, M.M. Bishal, I. Rahman, P. Bhattacharya, M.T Islam, M. von Bromssen, S. Sharma, I H Russel &N. Akhter
	12:15	12:30	Drillers mapping – as supportive tool to assess local hydrogeologic setting to enhance private sector capacity for scaling up safe water access		

	12:30	12:45	Development of an open access arsenic biosensor	J. Gasulla, J. Ezequiel Alba Posse, A. Teijeiro, A. Nadra
	12:45	13:30	Lunch break	
	13:30	14:30	Inaugural session	
	14:30	15:30	Plenary Session 2(1)-Alejo Pérez Carrera (2)-Luiz Roberto Guimaraes Guiherme	
	15:30	16:00	Coffee break (30min)	
	16:00	16:30	Session discussion theme 5.1	
4.1. Adsorption	16:30	16:45	Dynamic membrane pre-coated with micro-sized iron oxy-hydroxide for arsenic removal: application study and mathematical modelling	M. Usman, A. Idrissi Belkasmi & M.Ernst
	16:45	17:00	Biochar as a potential material for removal of arsenic from water	N.K. Niazi, I. Bibi & M. Shahid
	17:00	17:15	Sulphur modified nano zerovalent iron (S-nZVI) for enhanced removal of arsenic from aqueous solution	P. Singh, S. Bhowmick, P. Mondal & D. Chatterjee
	17:15	17:30	A promising stable chitosan-Fe (III) adsorbent for arsenate removal from drinking water.	S. Todd-Supuy, R. González-Rodríguez, A. Caballero-Chavarria, O. Rojas-Carrillo & L. G. Romero-Esquivel
	17:30	17:45	Removal of arsenic dissolved in mine tailings using Technosols.	E. Llumiquinga, J. Capa, D. Bolaños & L. Cumbal
	17:45	18:00	Removal of roxsarsone and its metabolites by a sludge-based, biochar supported zerovalent iron nanocomposite: adsorption and redox transformation.	M.Lei, B. Li, B. Tie & H. Du
	18:00	18:15	Removal of arsenic from water by liquid membrane based separation technology.	S. Sarkar & P. Saha

Tuesday, June 08, 2021		t_{start}	t_{end}	Title	Authors
	9:00	9:30	Plenary Session 3-Doris van Halem		
<i>2.1.Processes and pathways of arsenic in agricultural ecosystems</i>	9:30	9:45	Application of “trade-off value” to identifying optimum soil Eh for simultaneous reduction of dissolved arsenic and cadmium and greenhouse gas emission in paddy fields	T. Honmaa, Y. Shiratoria, S. Sudob, T. Makinob, c, K. Nakamurab & H. Katoub	
	9:45	10:00	Effect of inorganic selenium in soil on the translocation of arsenic from soil to rice plant	G.D. Yang, G. R. Pokhrel, K. T. Wang & H.M. Zhuang	
	10:00	10:15	The association of the biogeochemical processes between arsenic and organic substances in paddy soils	G. L. Duan, Y. P. Yang, X.Y. Yi & Y.G. Zhu	
	10:15	10:30	Rice seeds (IR64) priming with potassium humate enhances germination and growth under arsenic stressed condition	D. Mridha, A. De, A. Das, N. Roy Chowdhury, M. Joardar & T. Roychowdhury	
	10:30	10:45	Using machine learning to map arsenic in rice in Bangladesh	J. E. Podgorski, S. Islam and David A. Polya	
	10:45	11:15	Session discussion theme 2.1		
	11:15	11:45	Coffee break (30min)		
<i>3.2. Genetic predisposition of chronic arsenic poisoning</i>	11:45	12:00	Arsenic exposure in population of Bihar and increasing cancer incidences : A corelative study	A. Kumar, M. Ali & A.K. Ghosh	
	12:00	12:15	MicroRNAs may have some important contribution in arsenic induced skin lesions and other non-dermatological health effects in human	N. Banerjee & A.K.Giri	
	12:15	12:30	As3MT polymorphisms and Vitamin D: effects in arsenic elimination and genotoxic damage in women of Poopó Lake - Bolivia	J. Mamani & N. Tirado	
	12:30	13:30	Lunch break		
	13:30	14:30	Plenary Session 4 (1)-Barry Rosen Plenary Session 4 (2)-Maria Armienta Aurora		
	14:30	15:30	Panel discussion-Recent advances in arsenic research: distribution in environmental matrices, health impacts and technologies for remediation		
	15:30	16:00	Coffee break (30min)		

	16:00	16:15	Structure of the Arsl C-As lyase with bound substrate roxarsone and mutational studies of active site residues: Elucidating the catalytic mechanism of degradation of organoarsenicals	V.S. Nadar, M. Yoshinaga & B.P. Rosen
3.2. Genetic predisposition of chronic arsenic poisoning	16:15	16:30	Organoarsenicals inhibit bacterial peptidoglycan biosynthesis by targeting MurA	L. D. Garbinski, B. P. Rosen and M. Yoshinaga
	16:30	16:45	Identification of the biosynthetic gene cluster for the organoarsenical antibiotic arsinothricin.	A. E. Galván, S. M. Utturkar, B. P. Rosen and M. Yoshinaga
	16:45	17:00	Study of the M287T polymorphism of the As3MT gene in children	P.G. Medrano Salas, D.E. Chairez Olivares, J. Alegria & M.I. Martínez Acuña
	17:00	17:30	Session discussion theme 3.2	
	17:30	17:45	Health risk of inorganic arsenic from rice-based diets	S. Islam, M.M. Rahman, R. Naidu
	17:45	18:00	Health hazards of groundwater contamination with Arsenic in Bhojpur village, India	S.K. Sharma
3.6. Threshold values of food arsenic	18:00	18:15	Arsenic in Cooked and Uncooked Rice: A Field Scale Study in Rural Bengal. West Bengal, India.	U. Mandal, D. Chatterjee, M. Mazumder, P. Ghosh
	18:15	18:30	Linear OR Non-linear-Association of low-level inorganic arsenic exposure from rice with age-standardized mortality risk of cardiovascular disease in England and Wales	L. Xu, D. A. Polya, Q. Li & D. Mondal
	18:30	19:00	Session discussion theme 3.6	

Wednesday, June 09, 2021		t_{start}	t_{end}	Title	Authors
	9:00	9:30	Plenary Session 5-Karin Broberg		
<i>3.3. Reliable biomarkers for arsenic exposure</i>	9:30	9:45	Severe arsenic exposure in the population of Chapar village of Samasatipur district of Bihar	A. Kumar, M. Ali, R. Kumar & A.K. Ghosh, P. Salaun, A.C.G. Gourain	
	9:45	10:00	Arsenic exposure and cancer-related biomarkers in indigenous populations in Bolivia – modification by arsenic metabolism efficiency	J. De Loma, N. Tirado, M. Levi, J. Gardon & K. Broberg	
	10:00	10:15	Maternal arsenic species and methylation capacity: concentrations and associated factors in the Spanish INMA cohort	R. Soler-Blasco, M. Murcia, M. Lozano, A. Lertxundi, A. Irizar, N. Lertxundi, L. Santa-Marina, A. Signes, J. Vioque, L. Imaz, F. Ballester & S. Llop	
<i>3.4. Neurophysiological and IQ impacts of arsenic</i>	10:15	10:30	Cognitive impairment and its relation to serum brain-derived neurotropic factor in arsenic-exposed adult individuals in Bangladesh	M.S. Islam, A.E. Siddique, Y. Karim, F. Hossen, V. Mondal, Z. Hosen, S. Himeno, K. Hossain	
	10:30	10:45	The possible neuroprotective role of Resveratrol supplementation on arsenic trioxide-induced neurotoxicity in female mice hippocampus	K. Mehta, B. Kaur, K.K. Pandey, P. Dhar	
	10:45	11:15	<i>Coffee break</i>		
<i>3.4. Neurophysiological and IQ impacts of arsenic</i>	11:15	11:30	Prenatal exposure to total arsenic and its association with neuropsychological development at 5 years old in a Spanish cohort	R. Soler-Blasco, M. Murcia, M. Lozano, M. Malaguarnera, L. González-Safont, M.J. López-Espinosa, A. Esplugues, F. Ballester, S. Llop	
	11:30	12:00	Session discussion theme 3.3&3.4		
<i>4.4.Pilot Studies</i>	12:00	12:15	Arsenic and disinfection byproducts concentrations in Osijek's water distribution system, Eastern Croatia	L. Kurajica, M. Ujević Bošnjak, J. Štiglić, Ž. Romić, J. Zima, F. Dako & V. Santo	
	12:15	12:30	Introduction of Low-Cost Sustainable Solution for Household Arsenic Groundwater Treatment in Kudpur, Punjab Pakistan.	S. Batool, N. Ali, A. Farooqi	
	12:30	13:30	<i>Lunch break</i>		

		13:30 14:30		Plenary Session 6(1)-Alexander van Geen Plenary Session 6(2)-Conrad J. Choiniere	
		14:30 15:30		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	
4.4.Pilot Studies	15:30	15:45	Subsurface arsenic removal (SAR): Lessons learned from a long-term pilot application.	E.E. Cañas Kurz, U. Hellriegel, V.T. Luong, J. Bundschuh, T. Winkelkemper & J. Hoinkis.	
	15:45	16:00	Modular treatment of arsenic laden saline groundwater in South and Southeast Asia – Findings of pilot trials in Mekong Delta, Vietnam.	J. Hoinkis	
	16:00	16:15	Influence of softening on arsenic adsorption at water treatment plant Ouddorp (the Netherlands)	De Ridder, D. , Abdoel Gafour, S., Vollaard, P., Hofs, B., Schaaf, B., Hogendoorn, A., Ahmad, A., van der Wal, A.	
	16:15	16:30	Enhanced Arsenic Removal in Rapid Sand Filtration – A Practical Assessment of Fe(II), Fe(III) and NaMnO ₄ dosing for As removal <1 µg/L at WTP Prinsenbosch	T. van Dijk	
	16:30	16:45	Small scale set ups for Arsenic treatment. Examples in Argentina.	M.I. Litter	
	16:45	17:00	Arsenic precipitation using arsenic-bearing hematite residues	V.S.T. Ciminelli, H.L. Mendes & C.L. Caldeira	
	17:00	17:15	Arsenic contaminated groundwater in Serbia and the application of pilot scale investigations in the search for sustainable water supply solutions	M. Watson, A. Tubic, J. Nikic, J. Agbaba & B. Dalmacija	
	17:15	17:30	Arsenic removal by iron coagulation/flocculation and double filtration.	L.G. Romero-Esquivel, A. Lazo, A. Araya, L. Gomez & R. G. Fernández	
	17:30	17:45	Improvements on the EcoMetales process for the abatement of arsenic	R. Pezoa, N. Parra, M. Acuña & C. Rebolledo	
	17:45	18:00	Removal of low concentrations of arsenic by coagulation-ultrafiltration	P. Vollaard, B. Hofs, A. Jeworrek, D. de Ridder, A. Hogendoorn, A. Ahmad, A. van der Wal	
	18:00	18:30	Session discussion theme 4.4		