

How the European Union is managing the Legacy of Lindane and HCH waste.

What are the "Lessons learned" and what is the "Way forward"

21-24 Februrary, Zaragoza SPAIN

PROGRAMME







Caja Rural de Aragón (Coso, 29, 50003), and STREAMING

SPONSORS:













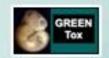












SUPPORTERS:





ORGANIZATION:













	TUESDAY, 21 FEBRUARY 2023						
08:30	Registration of participants (HALL-GROUND FLOOR)						
ROOM	1: AUDITORIUM TUESDAY, 21 FEBRUARY 2023						
09:15	Institutional group photo						
09:30 10:30	WELCOME, OPENING CEREMONY - Mr. Carlos Gamarra - Managing Director Climate Change and Environmental Education (Government of Aragon)						
	- Mrs. Isabel García Muñoz (Video) -Member of European Parliament (Aragon, Spain) - Mrs. Sagrario Pérez (Video) -General Directorate of Environmental Quality, Sustainability and Climate Change (Xunta Galicia) - Mrs. Karolin Braunsberger-Reinhold (Video) Member of European Parliament (Saxony-Anhalt, Germany) - Mrs. Maria Victoria Esteruelas - Aragonese Society of Agri-Environmental Management (SARGA)						
	- Mr. John Vijgen -International Association of HCH and Pesticides (IHPA)						
10:30 11:30	Session 1: Life SURFING Part 1 (Block 1) Chairs: Elena Cano & Jorge Net (15min /speaker)						
10:30 10:45 11:00 11:15	 Net J., Cano, E., Fernández, J., Velilla, S.M. LIFE SURFING: SURFactant enhanced chemical oxidation for remediatING DNAPL Sánchez-Valverde A., Romero P., Peiro A., Arjol M.A., Herranz C., Cano, E., Fernández J. LIFE SURFING: FACILITIES, EQUIPMENT, CONSUMABLES, AND RESOURCES IN THE TEST EXECUTION Fernández, J. Santos, A., Herranz, C. Cano, E. Lorenzo, D., Arjol, M.A. LIFE SURFING PROJECT, PREPARATORY WORKS FOR THE INJECTION OF SURFACTANTS AND OXIDANTS Fernández, J. Santos, A., Herranz, C. Net, J. Lorenzo, D., Arjol, M.A. LIFE SURFING PROJECT, ENHANCED SURFACTANTS EXTRACTION (SEAR) IN A FRACTURED AQUIFER. 						
11:30 12:00	COFFEE BREAK (HALL ROOM -1 ST FLOOR) SPONSORED BY:						
12:00 13:30	Session 2: Life SURFING Part 2 (Block 1) Chairs: Elena Cano & Jorge Net (15min /speaker)						
12:00 12:15 12:30	 Fernández, J. Santos, A., Herranz, C. Net, J., Saez P., Arjol, M.A., Lorenzo, D. LIFE SURFING PROJECT, IN SITU CHEMICAL OXIDATION ENHANCED WITH SURFACTANTS (SISCO) IN A FRACTURED AQUIFER Sanchez-Yepes, A. Santos, A., Fernández, J. Herranz, C. Cano, E. Lorenzo, D. LIFE SURFING PROJECT: CONTAMINATED EMULSION TREATMENT by ADSORPTION in GAC and ADSORBENT REGENERATION. Herranz, C, Fernández, J. Santos, A., Salvatierra, A., Cano, E. Lorenzo, D., Arjol, M.A. ON SITE REMEDIATION OF FLUIDS EXTRACTED IN SEAR TREATMENT IN THE LIFE SURFING PROJECT AT BAIIÍN – SABIÑÁNIGO (HUESCA): SELECTIVE POLLUTANTS OXIDATION AND ADSORPTION. 						
12:45 13:00 13:10	 Herranz, C., Arjol, M. A., Fernández, J., Santos, A. ON SITE ALKALINE HYDROLISIS OF FLUIDS EXTRACTED IN SEAR TREATMENT IN THE LIFE SURFING PROJECT AT BAILIN – SABIÑÁNIGO (HUESCA) Fabian Simón. Video LIFE SURFING Discussion 						
13:30 15:00	WELCOME LUNCH (HALL ROOM -1 ST FLOOR) sponsored by:						
	GOBIERNO DE ARAGON Sarga IHPA COMPLUTENSE MADRID						



ROOM	1: AUDITORIUM (1st floor) TUESDAY, 21 FEBRUARY 2023	ROOM	1 2 (3rd floor) TUESDAY, 21 FEBRUARY 2023	ROOM	3 (ground floor) TUESDAY, 21 FEBRUARY 2023
15:00 18:00 15:12 15:24 15:36	Session 3: STRATEGY-INFRASTRUCTURE-MONITORING SABINANIGO MEGA- SITE SESSION. (Block 2) Chairs: Jesús Fernández & Sonia Velilla (12min /speaker) 1. Cano, E., Fernández & Sonia Velilla (12min /speaker) 1. Cano, E., Fernández & Sonia Velilla (12min /speaker) 1. Cano, E., Fernández & Sonia Velilla, S.M., L. Monge, Arjol, M.A. CASE STUDY OF THE INFLUENCE OF GEOLOGY AND THE PRESENCE OF DIFFERENT MATRICES ON THE APPLICABILITY OF HCH REMEDIATION TECHNOLOGIES. 2. Velilla, S.M., Cano. E., Monge, L., Visanzay, A. UNIQUE STRATEGIO PROJECTS IN THE SITES AFFECTED BY HCH IN ARAGON. 3. Guadaño J., Gómez J., Granados E., Fernández J. MULTIDISCIPLINARY PERSPECTIVE OF THE ENVIRONMENTAL MANAGEMENT OF THE SARDAS SITE. 4.1. Monge, L. Velilla, S.M., Cano, E., Fernández, J., Net, J. PURIFICATION, ANALYSIS AND LABORATORY MANAGEMENT SERVICE, TECHNICAL ASSISTANCE TO THE FACULTY MANAGEMENT AND MONITORING FOR SPACES AFFECTED BY HCH CONTAMINATION. 4.2. Ruiz, A; Arjol, M.A.; L. Monge; Gonzalvo. P; Velilla, S.M., Cano, E., Fernández, J., Net, J. ENVIRONMENTAL MONITORING IN THE SURROUNDINGS OF THE SPACES AFFECTED BY THE RESIDUE FROM THE MANUFACTURE OF THE HEXACHLOROCYCLOHEXANE PESTICIDE IN THE TOWN OF SABIÑANIGO. 4.3. Arjol, M.A.; L. Monge; Cano, E., Velilla, S.M., Fernández, J., Net, J. AIR QUALITY MEASUREMENT TASKS IN RELATION TO THE DECONTAMINATION WORKS OF MANUFACTURING WASTE OF THE HEXACHLOROCYCLOHEXANE PESTICIDE IN THE TOWN OF SABIÑÁNIGO. 4.4. Gonzalvo, P., Ruiz, A., Monge, L., Velilla, S.M., Cano, E., Fernández, J., Net, J. LABORATORY HCH SABIÑÁNIGO-REFERENCE CENTER IN RESEARCH ON PERSISTENT ORGANIC COMPOUNDS. 4.5. Ayala, C., L. Monge., Cano, E., Velilla, S.M., Fernández, J., Net, J. INTEGRAL MANAGEMENT OF THE PREVENTION OCCUPATIONAL RISKS IN THE EXPLOITATION, EXECUTION OF WORKS AND SPECIAL ACTIONS, INVESTIGATION, AND REMEDIATION OF SOILS AND/OR SITES CONTAMINATED BY HCH. 5. Navarro, I., de la Torre, A., Arjol, M. A., Fernández, J., Martínez, M. A. PERSISTENT PESTICIDES IN AIR FROM A FORMER HCH PRODUCTION SITE IN SPAIN. 6.	15:00 17:30 15:00 15:13 15:26 15:39 15:52 16:05 16:18 16:31 16:44 16:57	Session 1: WASTE AND SOIL TECHNOLOGIES. WASTE MANAGEMENT EXPERIENCES, DESTRUCTION TECHNOLOGIES (Block 3) Chairs: Nick Morgan & Ion Barbarasa (13min /speaker) 1. Grégoire Hamon, Antoine Cunin. TREATMENT AND RECOVERY OF HAZARDOUS WASTE MANAGEMENT 2. John Follin, General Atomic. (ONLINE) COMMERCIAL ORGANIC CHEMICAL WASTE DESTRUCTION USING SUPERCRITICAL WATER OXIDATION. 3. Eriksen, Søren; Ploug, Niels; Nielsen, Steffen Griepke. CAN LOW TEMPERATURE THERMAL DESORPTION BE CONVERTED TO DESTRUCTION AND BE MORE SUSTAINABLE THAN TRADITIONAL INCINERATION." 4. Douglas Hallett (ONLINE). HYDROGEN REDUCTION OF HCH, PCBS, AND PLASTIC. 5. Zheng Peng (VIDEO). PROGRESS IN ENVIRONMENTALLY SOUND MANAGEMENT AND DISPOSAL OF PESTICIDE POPS WASTES IN CHINA. 6. Montse Papiol. HIGH TEMPERATURE INCINERATION OF POPS AND HAZARDOUS WASTE IS THE PROPER TREATMENT TO DESTROY THEM. 7. Saso Martinov. DDT DISPOSAL IN BANGLADESH. 8. Valentin Plesca, Larisa Cupcea, Ion Barbarasa. OBSOLETE PESTICIDES MANAGEMENT AND DESTRUCTION IN MOLDOVA. 9. Plesca, V., Barbarasa, I., Cupcea, L., Kubricht, J., Polak, M. MANAGEMENT OF POPS CONTAMINATED SITES IN MOLDOVA: CISMICHIOI LANDFILL. 10. Lud D., Schwemm D., Babaev E., Kalandadze B., Simon M.P., Weller P., Düring R-A. PESTICIDE INFORMATION	15:00 17:30 15:00 15:15 15:30 15:45 16:00 16:15 16:30 16:45 17:00 17:15 17:25	Session 1: DEALING WITH CHLOR ALKALI AND MERCURY: SYNERGY BETWEEN MINAMATA AND STOCKHOLM CONVENTION: PRACTICAL CASES (Block 4) Chairs: Ben Vauter (ONLINE) & Guido Van de Coterlet (15min /speaker) 1. Ben Vauter (ONLINE). CHLOR ALKALI INDUSTRY, GLOBAL MERCURY PARTNERSHIP AND THE MINAMATA CONVENTION ON MERCURY. 2. Roland Weber. RELEVANCE OF MERCURY CONTAMINATED SITES FOR GLOBAL MERCURY RELEASE AND IMPLEMENTATION SYNERGY OF THE MINAMATA & STOCKHOLM CONVENTION. 3. Nikola Jelinek. MERCURY CONTAMINATION AS A LEGACY OF CHEMICAL PRODUCTION IN THE CEE REGION. 4. Guido Van de Coterlet. WHERE STOCKHOLM MEETS MINAMATA — MERCURY AND HCH ISSUES AS CHLOR-ALKALI FACILITIES. 5. Xavier Ibarz. ECON INDUSTRIES: VACUDRY® TECHNOLOGY, CASE STUDY: MERCURY AND HCH WASTE TREATMENT FROM CHLORALKALI PLANTS. 6. Castellnou A. BATREC: TREATMENT OF MERCURY AND MERCURY WASTES: MERCURY STABILIZATION AND SAFE DISPOSAL. 7. Castellnou A. BATREC: HG DECONTAMINATION: CASE STUDIES IN SPAIN AND ABROAD, INCLUDING MERCURY BASED CHLORALKALI PLANT DECOMMISSIONING. 8. BOUGEWIJN FOKKE. ASGM (ARTISANAL AND SMALL-SCALE GOLD MINING) PROJECT INDONESIA 9. Conde Ana I. Carrasco, F.Javier. REMEDIATION OF MERCURY CONTAMINATED SITE. THE CASE OF ALMADEN DUMP AND THE ANTIQUE MERCURY METALLURGY FACILITIES OF ALMADENEJOS CERCO. 10. Ben Vauter (ONLINE). Conclusion. Discussion
16:45	 Samper J., Sobral B., Montenegro L., Guadaño J., Gómez J., Delgado F., San Román J., Fernández J. 2D MODEL OF GROUNDWATER FLOW AND DISSOLVED HCH TRANSPORT THROUGH THE GÁLLEGO RIVER ALLUVIAL AQUIFER DOWNSTREAM THE SARDAS HCH LANDFILL (HUESCA, SPAIN). 				
16:57	8. J Gómez, J Guadaño, Samper J., Sobral B., Suso J., Fernández J. TRACER TESTS IN THE HCH-AFFECTED ALLUVIAL AQUIFER DOWNSTREAM THE SARDAS LANDFILL (HUESCA, SPAIN).				



ROOM	1: AUDITORIUM (1st floor) TUESDAY, 21 FEBR	UARY 2023 RO	OM 2 (3rd floor)	TUESDAY, 21 FEBRUARY 2023	ROOM 3 (ground floor)	TUESDAY, 21 FEBRUARY 2023
17:09	 Samper J., Sobral B., Pisani B., Montenegro L., Guadañ Fernández J. 3D GROUNDWATER FLOW AND CO TRANSPORT MODEL OF THE SARDAS LANDFILL (HUESC. 	TNANIMATIC				
17:21	10. Rodríguez-Arévalo, J., Castaño, S., Martín-Ruiz, M., Ro R., Asanza, E., Delgado, F., San Román, J. DIAGNOSIS CONTAMINATION OF THE SARDAS LANDFILL (SABIÑÁ GÁLLEGO RIVER AND PROPOSAL FOR ACTION	OF LINDANE				
17:33	11. Alonso T., Alcalde D., Escobar-Arnanz J., Encinas R., Fern DISCHARGE TEMPORAL EVALUATION IN A TRANSECT LC DISCHARGE ZONE TO THE GALLEGO RIVER IN BAIL SABIÑANIGO (HUESCA).	CATED IN THE				
17:45	Discussion.					
17:00 19:00	TOURISTIC POINT INFORMATION (HALL-GROUND FLOOR)	·	·			
17:30	COFFEE BREAK (HALL ROOM -1 ST FLOOR) SPONSORED BY:					
19:00						
				CCO		
19:00	CITY SIGHTSEEING (HALL -GROUND FLOOR): TOUR SPONSORED	BY:				
				ADIEG.		
20:30	DINNER IN TRES MARES RESTAURANT P. º de Echegaray y Caba	llero, 82, 50003 Zara	goza (<u>https://goo</u>	o.gl/maps/4FZygZvc59D1pdh38) SONSORED BY:		
				ADIEG		



	WEDNESDAY, 22 FEBRUARY 2023							
ROOM	1: AUDITORIUM (1st floor)	ROOM	2 (3rd floor)	ROOM	3 (ground floor)			
09:00	Session 1: BIOREMEDIATION. PART 1 (Block 5)	09:00	Session 1: LIFEPOPWAT SESSION (Block 7)	09:00	Session 1: LIFECYCLE MANAGEMENT OF PESTICIDES AND			
11:30	Chairs: Alan Seech & Cosimo Masini (15 min /speaker)	11:30	Chairs: Miroslav Černík & Jan Němeček (15 min /speaker)	11:30	DISPOSAL IN CENTRAL ASIA COUNTRIES AND TÜRKIYE SESSION.			
					PART 1 (Block 10)			
09:00	Danny de Graaff, Tobias Praamstra, Cosimo Masini. MICROBIOME	09:00	1. FINAL: 3minute Video LIFEPOPWAT Hajek plant state of the art		Chairs: Stephan Robinson & Mark Davis (15min /speaker)			
	BASED REMEDIATION AND OTHER NATURE BASED TECHNIQUES		Hajek, January 2023.					
09:15	2. Cosimo Masini, Frederica Broglioli. INTEGRATED SUSTAINABLE	09:10	2. M.Černík, P. Hrabak, P. Brucek. WETLAND+® TECHNOLOGY:		Introduction Central Asia Session			
	APPROACH TO LINDANE.		TREATMENT OF HCH CONTAMINATED WATER BY A PASSIVE	09:00	Tania Santivanez (ONLINE). Welcome and introduction to			
09:30	3. Aguilar Bel, D., García Valero, A. DEGRADATION OF LINDANE BY	00.25	BIOLOGICALLY BASED REMEDIATION SYSTEM.	00:45	the session			
09:45	BIOLOGICAL TECHNOLOGY. 4. Jesica Soder, David Fernández, Daniel Salom, Ernest Marco, Teresa	09:25	3. Kończak,B., Gzyl, G., Moycho-Jędros, J., Kvapil, P., Ptackova, H., Wasiński, P., Łabaj, P., Antos, V. Cernik, M. Adamczyk,	09:15	2. Mark Davis. ARE PESTICIDES OBSOLETE?			
09.45	Vicent, Paqui Blánquez, Salom, D., Fernández-Verdejo, D., Soder-		M., Skalny, A., Wiesner-Sękala, M., Ratajski, P. ADAPTATION		Panel Discussion (moderator: Stephan Robinson)			
	Walz, J.M., Vicent, T., Marco-Urrea, E., Blánquez, P. LAB STUDIES		OF METHODOLOGICAL ASSUMPTIONS FOR DESIGN OF PILOT	09:30	3. Javidan Guliyev (AZE), Mansur Oshurbayev (KAZ)			
	LEADING TO DECISION-MAKING FOR IN SITU BIOREMEDIATION OF		SCALE WETLAND+ INSTALLATION FOR WATER TREATMENT	09.30	(ONLINE), Tinatin Doolotkeldieva (KGZ), Umedjon Ulughov			
	ORGANOHALIDES.		FROM HCH TAKING INTO ACCOUNT PRACTICAL LESSONS		(TJK) (ONLINE). OVERALL CHALLENGES IN THE REGION ON			
10:00	5. Kuntze, K. (ONLINE), Richnow, H., Fischer, A. SOURCE ALLOCATION		FROM DIFFICULT FIELD CONSTRUCTION PROCESS IN		OBSOLETE PESTICIDES AND PESTICIDE LIFE-CYCLE			
	AND DEGRADATION EVALUATION OF HCHS WITHIN A		JAWORZNO, POLAND (LIFEPOPWAT PROJECT).		MANAGEMENT.			
	CONTAMINATED AQUIFER USING COMPOUND-SPECIFIC STABLE	09:40	4. Němeček, J., Brůček, P., Hrabák, P., Černík, M. EXPERIENCE					
	CARBON ISOTOPE ANALYSIS (CSIA).		FROM OPERATION AND TUNNING OF WETLAND+®.		Results of the FAO Central Asia POPs project			
10:15	6. Escobar-Arnanz J., Berganza J., Brettes P., Encinas R., Alonso T.,	09:55	TECHNOLOGY FOR TREATMENT OF HCH-CONTAMINATED	9:45	4. Tania Santivanez (ONLINE). OVERVIEW OF FAO WORK ON			
	Alcalde D., Fernández J. ANALYSIS OF MICROBIAL COMMUNITIES		WATER.		IMPROVING PESTICIDE LIFE-CYCLE MANAGEMENT FOCUS			
	FOR THE IDENTIFICATION OF INOCULANTS FOR AN IN-SITU	10:10	5. Štrojsová, M., Balej, T. Hrabák, P., Černík, M. BENTHIC		ON CENTRAL ASIA AND TÜRKIYE.			
	BIOREACTOR FOR TREATING HCH CONTAMINATION IN		DIATOMS AS INDICATOR OF ENVIRONMENTAL IMPACT OF	10:00	5. Tinatin Doolotkeldieva. IN SITU IMPLEMENTATION OF			
	GROUNDWATER.		WETLAND+® TECHNOLOGY FOR TREATMENT OF HCH-		TRIALS ON MICROBIOLOGICAL REMEDIATION OF POPS			
10:30	7. Granados, E., Herranz, C., Salvatierra, A., Guadaño, J., Fernández, J.		CONTAMINATED WATER.		CONTAMINATED SOILS IN KYRGYZSTAN (SUBM).			
	CHARACTERIZATION OF NATURALLY PRESENT MICROBIAL	10:25	6. C. A. Arias. BENEFITS OF THE PRESENCE OF PLANTS IN	10:15	6. Assil Nurzhanova. PHYTOREMEDIATION OF POPS-			
	POPULATION AT SARDAS' LANDFILL AND INQUINOSA FACTORY IN		WETLAND+ SYSTEM TREATING HCH POLLUTED SITES.		CONTAMINATED SOILS: SOLUTIONS AND DEVELOPMENT			
	SABIÑANIGO, HUESCA.	10:40	7. Stanislava Vrchovecká, Tereza Sázavská, Klára Lísková, Pavel		PROSPECTS IN KAZAKHSTAN.			
10:45	8. Escobar-Arnanz J., Encinas R., Alonso T., Alcalde D., Fernández J.		Hrabák. GROUNDWATER HCH INDICATION VIA	10:30	7. Umedjon Ulughov. (ONLINE) AWARENESS RAISING WORK			
	APPLICATION OF MOLECULAR BIOLOGICAL TOOLS AND ISOTOPIC	40.55	PHYTOSCREENING OF TREES.		IN MINI-LANDFILL AREAS IN TAJIKISTAN + PLANNING OF			
	ANALYSIS FOR BIOGEOCHEMICAL CHARACTERIZATION OF	10:55	8. P. Svermova, J. Buresova, P. Bardos, and M. Černík.		REMEDIATION OF VILLAGE #1 MINI-LANDFILL.			
	FRACTURED BEDROCK AQUIFER IMPACTED BY DNAPL.		ASSESSMENT OF SOCIO-ECONOMIC IMPACT FOR WETLAND+®.	10:45	Q&A			
11:00	Discussion.	11:10	9. Antoine Joubert, Petr Kvapil. PROTOCOLS OFFER TO THE					
		11.10	CLIENTS FOR WETLAND+® REPLICATION.					
		11:15	10. FINAL: 3minute Video LIFEPOPWAT Hajek plant state of the art					
		11.13	Hajek, January 2023.					
			Discussion.					
11:30	COFFEE BREAK SPONSORED BY (HALL ROOM -1 ST FLOOR):		Discussion.					
12:00	COFFEE BREAK SPONSORED BY (HALL KOOWI-1 FLOOK).							
12.00								
			emgrisa					
12:00	Session 2: BIOREMEDIATION. PART 2 (Block 5)	12:00	Session 2: HCH IN EU SESSION (Block 8)	12:00	Session 2: LIFECYCLE MANAGEMENT OF PESTICIDES AND			
14:00	Chairs: Alan Seech & Cosimo Masini (15min /speaker)	14:00	Chairs: Javier Sancho & Boudewijn Fokke (15min /speaker)	14:00	DISPOSAL IN CENTRAL ASIA COUNTRIES AND TÜRKIYE SESSION.			
					PART 2 (Block 10)			
12:00	9. Eduardo Beltrán-Flores, Martí Pla-Ferriol, Maira Martínez-Alonso,	12:00	1. Boudewijn Fokke. INTRODUCTION HCH IN EU PROJECT.		Chairs: Stephan Robinson & Mark Davis (15min /speaker)			
	Núria Gaju, Montserrat Sarrà, Paqui Blánquez. PRELIMINARY	12:15	Katja Amstaetter. INVENTORY RESULTS FOR GERMANY.					
	STUDIES TO IMPLEMENT A PILOT REACTOR FOR THE BIOLOGICAL	12:30	3. Guido van de Cotelet. THE GEOGRAPHIC INFORMATION	12:00	8. Alexander Efimkin (ONLINE). EMPTY PESTICIDES			
	REMOVAL OF PESTICIDES FROM AGRICULTURAL WASHING		MODEL.		CONTAINER MANAGEMENT.			
	WASTEWATER.	12:45	4. Javier Sancho. ROAD MAP TO SUSTAINABLY MANAGE HCH	12:15	9. Alejandra Loayza (ONLINE), HIGHLY HAZARDOUS			
			CONTAMINATED SITES.		PESTICIDES ASSESSMENT			



					WEDNESDAY, 22 FEBRUARY 2023
ROOM	1: AUDITORIUM (1st floor)	ROOM	2 (3rd floor)	ROOM	3 (ground floor)
12:15	 Escobar-Arnanz J., Berganza J., Brettes P., Encinas R., Alonso T., Alcalde D., Fernández J. DESIGN, DEVELOPMENT AND SCALE-UP OF AN AEROBIC IN-SITU BIOREACTOR FOR REMOVAL OF HCH IN GROUNDWATER. Doolotkeldieva, T. D., Konurbaeva, M. U. APPLICATION OF THE METHOD OF PHYTOREMEDIATION OF PESTICIDE CONTAMINATED 		 Boudewijn Fokke. GUIDELINES SC POP CONTAMINATED SITE MANAGEMENT. John Vijgen. EU WIDE STRATEGY TO MANAGE HCH CONTAMINATED SITES. John Vijgen. STATUS OF THE IMPLEMENTATION OF THE EU WIDE STRATEGY. 	12:30	 Zsuzsanna Keresztes (ONLINE). REDUCTION OF PESTICIDES USE. Creation of a Central Asia Working Group on contaminated soft remediation and management Conclusions and findings of the session (chairmen), wrap-up.
12:45	SOILS IN A FIELD EXPERIMENTAL PLOT IN CHIM-KORGON VILLAGE 12. González J, Mancho C, Gil-Díaz M, García-Gonzalo P, Lobo M.C. ASSISTED-BIOREMEDIATION FOR THE DEGRADATION OF ORGANOCHLORINE COMPOUNDS.	13:45	Discussion.	12:45	Conclusions and initings of the session (chairmen), wrap-up.
13:00	13. Alan Seech, Michael Mueller. ENHANCED BIOREMEDIATION OF SOIL CONTAMINATED WITH LINDANE AND OTHER CHLORINATED PESTICIDES USING ZVI/ORGANIC CARBON REAGENTS.				
13:15	14. Santos, A., Checa-Fernández, A., Domínguez, C.M., Martín-Sanz, J.P., Valverde-Asenjo, I., Quintana-Nieto, J.R., Fernández-Sanjulián, J., Chicaiza-Guerra, K.Y. PRELIMINARY STUDY OF THE BIOREMEDIATION CAPACITY OF HORSE AMENDMENT IN SOILS CONTAMINATED WITH HCHS.				
13:30	Discussion.				
14:00	LUNCH SPONSORED BY (HALL ROOM -1 ST FLOOR):	110		INIV	E R S I D A D
15:00	GOBIER DE ARA	NO GON			PLUTENSE
15:00	Session 3: WASTE AND SOIL TECHNOLOGIES. In-Situ remediation	15:00	Session 3: HCH CASES - LINDANE NETWORK AND OTHERS	15:00	Session 3: TOXICOLOGY: NEW APPROACHES TO TESTING OF
18:00	technologies (Block 6) Chairs: Aurora Santos & Jesús Fernández (15min /speaker)	17:30	(Block 9) Chairs: Elena Cano & Angels Castellnou (15min /speaker)	18:00	CHEMICALS BASED ON OMICS AND EPIDEMIOLOGY: EXAMPLE DEVELOPMENTAL NEUROTOXICITY (Block 11) Chairs: Walter Lichtensteiger & Margret Schlumpf (15-20min
15:00	 Jeroen Vandenbruwane and Lionel Counet. SPIN® INJECTION TECHNOLOGY OR HOW TO PERFORM QUALITY INJECTIONS FOR AN OPTIMAL RESULT, EVEN IN LOW PERMEABILITY OR HETEROGENEOUS SOILS. EXPLANATIONS THROUGH THE CASE OF 	15:00	 Cano, E., Sánchez, A., Camiño, J.M., Hanzal, Z., Trump, M., Gzyl, G., Neri, B. LINDANET: EUROPEAN NETWORK OF LINDANE WASTE AFFECTED REGIONS WORKING TOGETHER TOWARDS A GREENER ENVIRONMENT. 		/speaker) First part: Exposure of wildlife and humans to chemicals
15:15	LINDANE. 2. Julien Maire, Antoine Joubert, Iheb Bouzid, Nicolas Fatin-Rouge,	15:15	 Joao PM Torres, Yago de Souza, John Vijgen. HCH IN BRAZIL- SOCIALIZING CHEMICAL RISKS AND OTHERS. 	15:00	 John Vijgen. DEVELOPMENT OF APPROACHES TO REMOV TOXIC SUBSTANCES FROM THE ENVIRONMENT.
	Fabien Laurent and Mathias Broquaire. INNOVATIVE HCH IN-SITU REMEDIATION USING POLYMER GEL AS A REAGENT CARRIER – RESULTS AT FIELD SCALE.	15:30	3. Chaos, Z., Celeiro, M., García-Jares, C., Monterroso, C. SPATIAL DISTRIBUTION OF HEXACHLOROCYCLOHEXANE ISOMERS IN		2. Pedro Cardoso. GLOBAL EFFECTS OF POLLUTANTS AND OTHER RISK FACTORS ON INVERTEBRATE FAUNA.
15:30	3. Marcello Carboni and Jack Shore. INSTALLATION, COMMISSIONING AND OPERATION OF AN INJECTABLE IN SITU PERMEABLE REACTIVE BARRIER TO PREVENT THE ADVECTION OF PER-AND POLYFLUOROALKYL SUBSTANCES AT A EUROPEAN AIRPORT.	15:45	OAK LEAVES AND TOPSOIL FROM O PORRIÑO (NW SPAIN). 4. Revuelto Palau, D., Fernández Cascán, J., Corujo Cristobal, J.M., Sainz Gutiérrez, R. CHARACTERIZATION AND MANAGEMENT OF LINDANE-CONTAINING WASTE AT AN ABANDONED LINDANE PRODUCTION FACILITY IN HUESCA	15:26	3. Yago de Souza Guida (ONLINE), Joao PM Torres, Rodrigo Ornellas Meire. BRAZILIAN PEOPLE STILL UNDER INCREASED RISK OF CANCER DEVELOPMENT DUE TO HEXACHLOROCYCLOHEXANE INHALATION EXPOSURE.
15:45	4. Escobar-Arnanz J., Encinas R., Alonso T., Alcalde D., Fernández J. DESIGN, OPERATIONAL AND PROCEDURES FOR THE APPLICATION OF IN SITU CHEMICAL OXIDATION TREATMENTS IN FRACTURED		PROVINCE (SPAIN). A SITE-SPECIFIC PROTOCOL DESIGN FOR WASTE CONDITIONING AND HANDLING FOR EX SITU FINAL TREATMENT.		Second part: New approaches to testing of chemicals based on OMICs and epidemiology: Example developmental neurotoxicity
16:00	BEDROCK AQUIFER IMPACTED BY AN OLD DNAPL. 5. Checa-Fernández, A., Santos, A., Romero, A., Domínguez, C.M. REMEDIATION OF HCHS-POLLUTED SOILS BY SURFACTANT-	16:00	5. Martin Forter (ONLINE). THE EXAMPLE OF UGINE-KUHLMANN HUNIGUE/FRANCE: THE REMEDIATION OF NOVARTIS AND THE QUESTION: DOES THE FRENCH INVENTORY FULLY COVERS THE		4. Joelle Rüegg. CONCEPT: EPIDEMIOLOGY- AND OMICS- BASED DEVELOPMENT OF AN IN VITRO TEST BATTERY FOR DEVELOPMENTAL NEUROTOXICITY.
16:15	 ENHANCED WASHING AND ACTIVATED PERSULFATE OXIDATION. Alonso T., Alcalde D., Escobar-Arnanz J., Encinas R., Fernández J. AIR SPARGING AND SOIL-VAPOR EXTRACTION PILOT TESTS IN BAILIN LANDFILL, SABIÑANIGO (HUESCA). 	16:15	6. Jaromir PLCH. (ONLINE) POLLUTION BY PESTICIDES, LINDANE AND SIMILAR SUBSTANCES IN SLOVAKIA.	15:52 16:05	 5. Carl-Gustaf Bornehag. EPIDEMIOLOGY IN CHILDREN AS A BASIS FOR TEST DEVELOPMENT. 6. Walter Lichtensteiger. USE OF COMPARATIVE TRANSCRIPTOMICS FOR TEST DEVELOPMENT.



					WEDNESDAY, 22 FEBRUARY 2023	
ROOM :	L: AUDITORIUM (1st floor)	ROOM 2	2 (3rd floor)	ROOM	3 (ground floor)	
16:30 16:45	 Santos A., Lorenzo D., Domínguez C.M., Cotillas S., García Cervilla R., Fernández J., Guadaño J., Gómez J. PILOT TEST SEAR APPLICATION IN SARDAS LANDFILL REMEDIATION. Lorenzo D., Domínguez C.M., García Cervilla R., Santos A., Checa-Fernández A., Fernández J., Guadaño J., Gómez J. ISCO AND S-ISCO EVALUATION IN THE REMEDIATION OF SARDAS ALLUVIUM. 	16:30 16:45	 Mickovski A., Andonova, S. REMOVAL OF TECHNICAL AND ECONOMIC BARRIERS TO INITIATING THE CLEAN-UP ACTIVITIES FOR ALPHA-HCH, BETA-HCH AND LINDANE CONTAMINATED SITES AT OHIS. I. Avramikos, G. Tsaimos, K.Prekas. REMOVAL OF TECHNICAL AND ECONOMIC BARRIERS TO INITIATING THE CLEAN-UP 	16:18 16:31 16:44	 Joelle Rüegg. CONTRIBUTION OF EPIGENETICS TO TEST DEVELOPMENT. Pim Leonards. ROLE OF METABOLOMICS IN TEST DEVELOPMENT AND CONCLUSIONS. Discussion. 	
17:00	9. Isidro, J., Fernández-Cascán, J., Guadaño, J., Sáez, C., Rodrigo, M.A. DESIGN AND VALIDATION OF ELECTROKINETIC TECHNIQUES FOR THE REMEDIATION OF THE ALLUVIAL SILT OF THE SARDAS LANDFILL (SABIÑANIGO) CONTAMINATED WITH HCHs.		ACTIVITIES FOR ALPHA-HCH, BETA-HCH AND LINDANE CONTAMINATED SITES AT OHIS. Discussion.			
17:15	10. Isidro, J., Fernández-Cascán, J., Guadaño, J., Sáez, C., Rodrigo, M.A. DISMANTLING STRATEGIES FOR HIGHLY HCH-POLLUTED LANDFILL LEACHATE DUMP USING ELECTROCHEMICALLY ASSISTED TECHNOLOGY.					
17:30	Discussion. COFFEE BREAK (HALL ROOM -1 ST FLOOR) SPONSORED BY:					
17:30 19:00	POSTER SESSION -(HALL ROOM -1 ST FLOOR) (Block 15) Cotillas, S., Santos, A., Lorenzo D., Bahamonde A., Palomo E., Conte L. REMED Salom, D., Fernández-Verdejo, D., Soder-Walz, J.M., Vicent, T., Marco-Urrea, GROUNDWATER.				IE REMOVAL OF CHLORINATED BENZENES AND LINDANE IN	
		pa Camin	iti L.N., Rombolà P., Neri, B. SNI SACCO RIVER VALLEY – CENTRAL ITALY: (CHARACTI	ERIZATION OF AGRICULTURAL AREAS.	
	Sala, M., Scaramozzino, P., Beccaloni E., Scaini F., D'Isidoro A., Iudicone G., Papa Caminiti L.N., Rombolà P., Neri, B. SNI SACCO RIVER VALLEY – CENTRAL ITALY: CHARACTERIZATION OF AGRICULTURAL AREAS. Pardo, A., Bellas, R., Franco, S., Camiño, J.M. INTEGRAL INVESTIGATION ON THE COUNCIL OF O PORRIÑO, LOOKING FOR SOLUTIONS TO THE GREAT DISPERSION OF THE CONTAMINATION.					
	Fraile, J. M., Herrerías, C. I., Lumbreras, R., Mayoral, J. A., Salvatella, L. DISPO	SAL OF PR	ODUCTION WASTE FROM LINDANE MANUFACTURING: COLLABORATION	I BETWEE	N UNIVERSIDAD DE ZARAGOZA AND GOBIERNO DE ARAGÓN	
	Santos, A., Checa-Fernández, A., Domínguez, C.M., Martín-Sanz, J.P., Valverdo SOILS CONTAMINATED WITH HCHS.	e-Asenjo,	I., Quintana-Nieto, J.R., Fernández-Sanjulián, J., Chicaiza-Guerra, K.Y. PRE	ELIMINAR	Y STUDY OF THE BIOREMEDIATION CAPACITY OF HORSE AMENDMEN	
	Amirova, Z. ASSESSMENT OF IN-SITE DIOXIN DEGRADATION IN WASTE, 1995-	2021.				
	Navarro, I., De la Torre, A., Sanz, P., Martínez, M. A. ASSESSING PERSISTENT C	RGANIC F	POLLUTANTS IN SPANISH AIR.			
	Ilona van der Kroef USE OF PORTABLE XRF ANALYZER AT POPS CONTAMINAT	ED SITES -	HOW TO RECOGNIZE AND AVOID THE MOST COMMON MISTAKES.			
	Chaos, Z., Méndez, A., Celeiro, M., García-Jares, C., Monterroso, C. IMPACT O	F ORGANI	IC MATERIALS ON HEXACHLOROCYCLOHEXANE VOLATILIZATION FROM C	ONTAMIN	NATED SOILS.	
	Monia PERUGINI, Annamaria IANNETTA, Giovanni Angelozzi, Lucia COPPOLA,	Sabrina TA	AIT, Enrica FABBRIZI4, Lorella CIFERRI5, Cinzia La Rocca. PESTICIDE EXPOS	URE AND	PREMATURE IDIOPATHIC THELARCHE IN GIRLS: THE PEACH PROJECT.	
	Rodríguez-Arévalo, J., Castaño, S., Martín-Ruiz, M., Rodríguez-Abad, R., Asan FACTORY	za, E., Del	gado, F., San Román, J. DESIGN AND EVALUATION OF TEST BY OXIDATIV	E METHO	D FOR DECONTAMINATION OF THE WALLS OF THE OLD INQUINOSA	



		1 =	THURSDAY, 23 FEBRUARY 2023
	1: AUDITORIUM (1st floor)		2 (3rd floor)
9:00	Session 1: EMERGING POLLUTANTS. PFAS SESSION. PART 1 (Block 12)	09:00	Session 1: PCB MANAGEMENT (Block 13)
11:30	Chairs: Roland Weber & Dietmar Müller Grabherr/Guido Van de Coterlet (20 min /speaker)	11:30	Chairs: Dirk Jan Hoogendoorn & Ed Verhamme (15min /speaker)
9:00	1. Roland Weber. PFAS CONTAMINATED SITES – A PERSONAL JOURNEY AND SOE; LESSONS LEARNED.	09:00	1. Dirk Jan Hoogendoorn. PCB PROJECTS IN EMERGING ECONOMIES: NEED FOR LOCAL TREATMEN
9:25	2. Joerg Frauenstein (ONLINE). PFAS IN SOIL AND GROUNDWATER — PROGRESS AND COMPREHENSIVE	00.15	STOCKHOLM CONVENTION DEADLINE 2028, TRANSPORT AND EXPORT OBSTACLES.
9:50	CHALLENGES IN GERMANY. 3. Frank Thomas Lange (ONLINE). INVESTIGATIVE SOIL AND WATER ANALYSIS AT AN OUTSTANDING LARGE- SCALE CONTAMINATED SITE: HOW NOVEL APPROACHES CAN HELP TO SOLVE THE PFAS PUZZLE.	09:15 09:30	 Barbarasa, I., Plesca, V., Cupcea, L., Marduhaeva L. PCB MANAGEMENT AND ELIMINATION IN MOLDOV. M. Gil-Díaz, R. A. Pérez, J. Alonso, E. Miguel, S. Diez-Pascual, M. C. Lobo. NANOREMEDIATION OF A SO POLLUTED WITH PCBS AND CR.
0:15		09:45	4. Roland Weber. MONITORING DIOXINS AND PCBS IN EGGS AS SENSITIVE INDICATORS FO
0:35	 Greet Schroeters (ONLINE) THE BELGIUM 3M CASE FROM A HEALTH PERSPECTIVE. Johan Ceenaeme (ONLINE). PFAS POLICY FOR SOIL AND GROUNDWATER IN FLANDERS (BELGIUM). 		ENVIRONMENTAL POLLUTION AND GLOBAL CONTAMINATED SITES AND RECOMMENDATIONS F REDUCING AND CONTROLLING RELEASES AND EXPOSURE.
0:55		10:00	5. Edgard Bilger. SODIUM TECHNOLOGY – THE CHOICE FOR TREATMEN T OF PCB AND POP'S.
	Discussion.	10:15	Frank Wauters. PCB DECONTAMINATION: AUTOCLAVE TECHNOLOGY. CASE STUDY: TREATMENT OF PCCONTAMINATED TRANSFORMERS.
11.15	6. Mayor Paweł Silbert (ONLINE). JAWORZNO PERSPECTIVE	10:30	 Egmont W Ottermann. THE SUB-SAHARAN CEMENT INDUSTRY POTENTIAL FOR THE DESTRUCTION (POP'S, PCB AND OTHER HAZARDOUS CHEMICALS.
		10:45	8. Ed Verhamme. CO-PROCESSING PCB & OTHER POP'S IN CEMENT KILNS A LOCAL SOLUTION.
		11:00	 Aleksandryan, A. (ONLINE)*, Khachatryan, A. INVESTIGATION FOR DIOXINS / FURANS AND DIOXIN-LI POLYCHLORINATED BIPHENYLS IN ARMENIA.
		11:15	Discussion.
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12.00) eı	mgrisa
	Session 2: EMERGING POLLUTANTS. PFAS SESSION. PART 2 (Block 12)	12:00	Mgrisa Session 2: TOXICOLOGY: CHEMICAL EXPOSURE OF WILDLIFE AND HUMANS (Block 14)
12:00			
2:00 4:00	Session 2: EMERGING POLLUTANTS. PFAS SESSION. PART 2 (Block 12)	12:00	Session 2: TOXICOLOGY: CHEMICAL EXPOSURE OF WILDLIFE AND HUMANS (Block 14) Chairs: Daniela Lud & Stephan Robinson (15min /speaker) 1. Morcelle, S., Tirado, L. PESTICIDES AND WILDLIFE FRIENDLY FARMING.
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			THURSDAY, 23 FEBRUARY 2023
ROO	/I 1: AUDITORIUM (1st floor)	ROOM 2 (3rd floor)	
14:00	CLOSURE SESSION		
15:00			
	- Mrs. Elena Cano Head of the Contaminated Soils Service (Government of Aragon)		
	- Mrs. Maria Victoria Esteruelas Aragonese Society of Agri-Environmental Management (SARGA) / Vicente Ros.	Responsible for Climate Change and Circular Economy Control Union	
	- D. John Vijgen - International Association of HCH and Pesticides (IHPA)		
	- Mr. Bram de Borst Chair of the Board (IHPA)		
	- Mr. Carlos Gamarra - Managing Director Climate Change and Environmental Education (Government of Aragon		
15:00			
16:30	CODIEDNO	IIII A A A A A A A A A A A A A A A A A	
	GOBIERNO DE ARAGON	rga IHPA 😘 (COMPLUTENSE	
	DE ARAGON	International HCH & Pesticides Association MADRID	
16:20	EINAL DECLADATION (*DISCUSSION FACE TO FACE NO ONLINE / NO INTERRETATION)		
16:30 17:30			
17.50			

	FRIDAY, 24 FEBRUARY 2023: FIELD TRIP SABIÑANIGO MEGASITE
07:20-07:30	Departure from Zaragoza at the meeting point in Plaza del Pilar
07:30- 09:00	Zaragoza – Sabiñánigo (90 min)
09:00- 09:30	COFFEE at Pirenarium (30 min)
09:30- 13:00	Sites visit (INQUINOSA, SARDAS y BAILIN) (3,5 h)
13:00 - 13:50	BRUNCH at Pirenarium (50 min)
14:00-15:30	Return to Zaragoza: 1ST stop Train/ bus Station /2nd stop morning meeting point in Plaza del Pilar (90 min)