The 9th International PCB Workshop

Kobe International Convention Center, Kobe, Japan October 9-13, 2016

Sunday, October 9, 2016

18:00 – 21:00 Welcome Reception

Monday, October 10, 2016

10:00 - 12:00 Citizen's Session (in Japanese)

Co-Chairs; Yoshina USUI (Hyogo Prefectural Sumahigashi High School)

Keiichi TANNO (Kobe City College of Nursing)

1. Research of Micro-Plastic (MP) at Suma beach (7/23/2016)

Ikuta, Azusa; Okano, Ami; Kinugawa, Kazushi; Tsukui, Hiroki; Tokutomi, Ten; Higashisaka, Hayato; Matuo, Rinna (Amagasaki Oda senior high school/ High school Student Forum for the purpose of thinking about the environment of the Seto Inland Sea)

2. Where do foreign plastic bottles which have been cast ashore on the coast of Akashi Strait come from?

Ishikawa, Masaki; Funabiki, Taisei; Ninomiya, Natsuki; Nabeshima, Junya; Matsubara, Fumiya; Adachi, Nao; Morimitsu, Syunpei; Motoyama, Syoya (Hyogo prefectural Kobe commercial high school)

- 3. "Seed project" an international understanding program through seeds exchange Takaoka, Kae (Hyogo Prefectural Agricultural High School, "Kenno"); Students
- 4. Capacity Building for Analysis and Reduction Measures of Persistent Organic Pollutants in Serbia

Vladimir P. Beškoski (University of Belgrade, Serbia); Takeshi Nakano (Osaka Univ.)

5. Changes over 1999 to 2015 in awareness among female students attending the K college of nursing regarding waste reduction and dioxin issues

Tanno, Keiichi; Watabe-Tsukano, Saori (Kobe City College of Nursing); Kadowaki, Seishi (University of Tsukuba); Nakata, Yasuo (Kobe Tokiwa University); Hiroshi HONDA (Kirishima Medical Center)

6. Is "chemical substance" equal to "pollutant" in our society?

Toga, Tetsuo (Nihon Nohyaku Co., Ltd.)

13:00 Opening

13:30 - 14:15 Plenary Lecturer 1-1

Masatoshi MORITA, Honorary Chairman, Japan Society for Environmental Chemistry Professor, Ehime University

14:15 - 15:00 Coffee Break

15:00 - 17:30 <u>Session #1</u> (8 speakers) "Environment"

PCB environmental fate and transport: Enantioselective analysis

Co-Chairs; Keri HORNBUCKLE (Univ. Iowa)

Hans LEHMLER (Univ. Iowa)

#1-1	Keri C Hornbuckle,	Legacy versus Modern: Sources of PCBs and OH-
15:00	University of Iowa, USA	PCBs to the Environment
#1-2	Takumi Takasuga,	PCB #11 (3, 3'-Dichlorobiphenyl) as a predominant
15:15	Shimadzu-Techno Research,	PCB congeners in ambient air from unintentional
	Ehime University, Japan	formation of organic pigment production
#1-3	Mitchell D. Erickson,	Aroclor Mis-identification in Environmental Samples
15:30	Mitchell D. Erickson Associates,	
	USA	
#1-4	Christian Bogdal,	Tracking and quantifying sources of PCBs in Zurich,
15:45	Swiss Federal Institute of	Switzerland
	Technology Zurich, Switzerland	
16:00	Q & A	
#1-5	Jacob de Boer,	Capacity building for PCB analysis around the world
16:15	VU University, Amsterdam,	
	Netherland	
#1-6	Jonathan N. Hogarh,	Atmospheric contamination from polychlorinated
16:30	Kwame Nkrumah University of	biphenyls in Ghana
	Science and Technology, Ghana	
#1-7	Pu Wang,	Polychlorinated biphenyls in the ambient air in the
16:45	Research Center for Eco-	King George Island, west Antarctica: temporal trend,
	Environmental Sciences,	chiral signature and source implications
	Chinese Academy of Sciences,	
	China	
#1-8	Hans-Joachim Lehmler,	Chiral Polychlorinated Biphenyl Transport,
17:00	The University of Iowa, USA	Metabolism and Distribution: An Update
17:15	Q & A	

17:30 - 18:00 Light Meal

18:00 - 21:00 <u>Session #2 (12 speakers)</u> "Emission"

Global inventory and management: National and international activities to limit human and environmental impact of PCBs

Co-Chairs; Roland WEBER, (POPs Environmental Consulting, Stuttgart)

Niklas JOHANSSON (Karolinska Institute and Melica Biologkonsult)

#2-1	Jacqueline Alvarez,	Efforts toward the elimination of PCBs
18:00	UNEP Overview & PEN	Life toward the eminiation of 1 obs
(skype)	ONE! OVERVIEW & LEN	
#2-2	Carmela Romero Centeno,	Promoting Industrial Development through the
18:15	United Nations Industrial	UNIDO PCB Program
10.15	Development Organization	ONIDO I OB I Togram
	(UNIDO) activities, Austria	
#2-3	Leah Aurea U. Texon,	Polychlorinated Biphenyl (PCB) Management
18:30	UNIDO, Philippines	Initiatives in the Philippines
#2-4	Rio Deswandi & Edward	Conducting PCBs Inventory under Incomplete
18:45	Nixon Pakpahan,	Information: An Indonesia's Experience
20min	UNIDO, Indonesia	mornadon. An machesia e Experience
#2-5	Zheng Peng,	Environmental standards, specification and
19:05	Foreign Economic Cooperation	guidance of Environmental Sound Management and
10min	Office, Ministry of Environmental	disposal of polychlorinated biphenyls waste in
	Protection of China, China	China
#2-6	Xinhua Gao,	Investigation and Disposal of Electrical Devices
19:15	Foreign Economic Cooperation	Containing PCBs in China
10min	Office, Ministry of Environmental	
	Protection of China, China	
#2-7	Nelson MANDA / John	Case Study of the GEF / UNITAR / UNDP / EPA-Ghana
19:25	Pwamang,	Project on Capacity Building for the Elimination of
	UNITAR, Switzerland	PCBs in Ghana
#2-8	Vladimir P Beškoski,	PCBs in Serbia, history of usage and present
19:40	Faculty of Chemistry, University	situation - can bioremediation solve this problem?
	of Belgrade, Serbia	
#2-9	of Belgrade, Serbia Åhr Evertson,	An Investigation of Occurrence and Transport of
#2-9 19:55		An Investigation of Occurrence and Transport of PCB in the Stream Väsbyån and Lake Oxundasjön in
19:55	Åhr Evertson, Upplands Väsby Municipality, Sweden	PCB in the Stream Väsbyån and Lake Oxundasjön in Upplands Väsby Municipality, Sweden
19:55 #2-10	Ahr Evertson, Upplands Väsby Municipality, Sweden Roland Weber,	PCB in the Stream Väsbyån and Lake Oxundasjön in Upplands Väsby Municipality, Sweden Towards Systematic Tracking of PCB-Sources for
19:55	Åhr Evertson,Upplands Väsby Municipality,SwedenRoland Weber,POPsEnvironmental	PCB in the Stream Väsbyån and Lake Oxundasjön in Upplands Väsby Municipality, Sweden
19:55 #2-10 20:10	Ahr Evertson, Upplands Väsby Municipality, Sweden Roland Weber, POPs Environmental Consulting, Germany	PCB in the Stream Väsbyån and Lake Oxundasjön in Upplands Väsby Municipality, Sweden Towards Systematic Tracking of PCB-Sources for Safe Food Production
19:55 #2-10 20:10 #2-11	Ahr Evertson, Upplands Väsby Municipality, Sweden Roland Weber, POPs Environmental Consulting, Germany Niklas Johansson,	PCB in the Stream Väsbyån and Lake Oxundasjön in Upplands Väsby Municipality, Sweden Towards Systematic Tracking of PCB-Sources for Safe Food Production National Follow-up to the 2010 Inventory of
19:55 #2-10 20:10	Ahr Evertson, Upplands Väsby Municipality, Sweden Roland Weber, POPs Environmental Consulting, Germany	PCB in the Stream Väsbyån and Lake Oxundasjön in Upplands Väsby Municipality, Sweden Towards Systematic Tracking of PCB-Sources for Safe Food Production National Follow-up to the 2010 Inventory of Identification, Remediation and Destruction of PCB
#2-10 20:10 #2-11 20:25	Ahr Evertson, Upplands Väsby Municipality, Sweden Roland Weber, POPs Environmental Consulting, Germany Niklas Johansson, Melica Biologkonsult, Sweden	PCB in the Stream Väsbyån and Lake Oxundasjön in Upplands Väsby Municipality, Sweden Towards Systematic Tracking of PCB-Sources for Safe Food Production National Follow-up to the 2010 Inventory of Identification, Remediation and Destruction of PCB in Sealant and Flooring Materials
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Tuesday, October 11, 2016

9:30 - 10:15 Plenary Lecturer 2-1

Masutaka FURUE, Professor, Kyusyu University

"Yusho and its latest findings; dioxin intoxication and its management"

10:15 - 10:45 Plenary Lecturer 2-2 (via internet/skype)

Leon GUO, Director, National Institute of Environmental Health Sciences, National Health Research Institutes, Zhunan, Taiwan.

"Cancer risk estimation in Yucheng people highly exposed to PCBs and PCDFs based on serum levels 15-24 years after exposure"

10:45 - 11:00 Coffee Break

11:00 - 13:15 Session #3 (8 speakers) "Cancer/Toxicity/Yusho"

Toxicity and carcinogenicity of PCBs

Co-Chairs; Takesumi YOSHIMURA (Foundation for Ambulance Service Development)

Beatrice LAUBY-SECRETAN (International Agency for Research on Cancer)

#3-1	Miroslav Machala,	In vitro toxicity profiling of low-molecular-weight
11:00	Veterinary Research Institute,	PCB congeners
	Brno, Czech Republic	
#3-2	Wei Feng,	Enantioselective actions of PCB95 atropisomers
11:15	University of California, Davis,	toward ryanodine receptors (RyRs) and
	USA	hippocampal neurons
#3-3	Beatrice Lauby-Secretan,	Linking exposure profile, mechanisms of
11:30	International Agency for Research	carcinogenicity, and target organs
	on Cancer, Lyon, France	
#3-4	Brent L. Finley,	Does PCB Exposure Cause Non-Hodgkins
11:45	Cardno ChemRisk, USA	Lymphoma? A Weight Of Evidence Evaluation
#3-5	Gabriele Ludewig,	Polychlorinated biphenyls (PCBs) target your
12:00	University of Iowa, USA	telomeres - which PCB, how, and what could be the
		consequences?
#3-6	Yungang Liu,	Human CYP2E1 is a major bioactivating enzyme
12:15	School of Public Health, Southern	responsible for the mutagenicity of
	Medical University, China	polychlorinated biphenyls
#3-7	Tsuguhide Hori,	Distribution of dioxins in sets of biological
12:30	Fukuoka Institute of Health and	samples collected from Japanese pregnant and
	Environmental Sciences, Japan	nursing woman
#3-8	Shusaku Hirakawa,	Accumulation properties of polychlorinated
12:45	Fukuoka Institute of Health and	biphenyl congeners in Yusho patients and
	Environmental Sciences, Japan	assessment of their cytochrome P450-dependent
		metabolism by in silico docking simulation
13:00	Q & A	

13:15 - 14:00 Lunch (Corporate Technology Seminar 1)

14:00 - 15:30 Poster session 1 (Odd Number, Tuesday, October 11)

15:30 -15: 45 Coffee Break

15:45 - 18:15 <u>Session #4</u> (8 speakers) "Metabolism"

PCB metabolism and endocrine disruption

Co-Chairs; T Michael DUFFE (Univ. Iowa)

Margaret JAMES (Univ. Florida)

#4-1	Margaret O James,	Recent advances in understanding PCB
15:45	University of Florida, USA	metabolism, both lower chlorinated and higher
		chlorinated congeners
#4-2	Hideyuki Inui,	Structural determinants of species differences on
16:00	Biosignal Research Center, Kobe	metabolism of dioxin-like polychlorinated
	University, Japan / Graduate	biphenyls by mammalian cytochrome P450
	School of Agricultural Science,	monooxygenases
	Kobe University, Japan	
#4-3	Nobuyuki Koga,	Distribution and excretion of 2,2',3,4',5,5',6-
16:15	Nakamura Gakuen University,	heptachlorobiphenyl (CB187) and its metabolites
	Japan	in rats and guinea pigs.
#4-4	Kei Nomiyama,	Toxicological assessment of PCBs and OH-PCBs
16:30	Center for Marine Environmental	in the brain of dogs using metabolomics approach
	Studies (CMES), Ehime	
	University, Japan	
#4-5	Hazuki Mizukawa,	in vivo analysis of PCB metabolic capacities and
16:45	Hokkaido University, Japan	effects on the thyroid hormone in cats
#4-6	Satomi Mizukami Murata,	Comparison of the effects of 20 kinds-OH-PCBs on
17:00	Institute for Agro-Environmental	PC12 cells
	Sciences, NARO / The Japan	
	Society for the Promotion of	
	Science, Japan	
#4-7	Michael W. Duffel,	Sulfation in the Metabolism and Potential
17:15	University of Iowa, USA	Endocrine Toxicities of Airborne PCBs
#4-8	Peter Behnisch,	The "Dirty Dozend" POPs & Other Pollutants:
17:30	BioDetection Systems bv,	Toxicological Profiling by in vitro Bioassays
	Amsterdam, Netherlands	
17:45	Q & A	
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19:00 - 21:15 Cruising & Banquet

Wednesday, October 12, 2016

9:30 - 10:15 Plenary Lecturer 3

Shin-ichi SAKAI, Professor, Kyoto University

"PCB Behavior and Control from the Points of Waste Destruction and Byproducts Formation"

10:15 - 10:30 Coffee Break

10:30 - 13:00 <u>Session #5</u> (7 speakers) "Human Exposures"

Co-Chairs; Nobuyuki KOGA (Nakamura Gakuen Univ.)

Tomas TRNOVEC (Slovak Medical Univ.)

#5-1	Rainer Malisch,	Results of determination of ndl-PCBs, dl-PCBs and
10:30	RURL, CVUA-FR, Germany	PCD/F in human milk samples of WHO/UNEP-
	-	coordinated exposure studies
#5-2	Risa Kakimoto,	Variability and reliability of PCB concentrations in
10:45	Faculty of Agriculture, Saga	multiple breast milk samples collected from the
	University, Japan	same mothers
#5-3	Shin Takahashi,	PCBs and BFRs in dust and human blood samples
11:00	Center of Advanced Technology for	from end of life vehicle (ELV) recycling sites in
	the Environment, Graduate School	northern Vietnam: comparison with E-waste
	of Agriculture, Ehime University,	recycling sites
	Japan / Center for Marine	
	Environmental Studies, Ehime	
	University, Japan	
#5-4	Peter Behnisch,	Bio-Monitoring of Chlorinated and Brominated
11:15	BioDetection Systems bv,	PCB/DIOXIN Contaminated Areas and their Impact
	Amsterdam, Netherlands	for Environment, Animals and Humans
#5-5	Andres Martinez,	Continuous release of PCBs from New Bedford
11:30	Department of Civil & Environmental	Harbor results in elevated concentrations in the
	Engineering, IIHR-Hydroscience	surrounding air
	and Engineering, The University of	
	Iowa, Iowa City, IA, USA	
#5-6	Majbrith Langeland,	Large national investigation of PCBs in indoor air
11:45	SWECO, Denmark	in homes, offices, institutions, universities,
		laboratories, storage spaces and workshops
#5-7	Bernhard Hennig,	Healthful Nutrition: A Life-Long Intervention
12:00	University of Kentucky, USA	against Environmental Insults
12:15	Q & A	

13:00 - 14:00 Lunch (Corporate Technology Seminar 2)

14:00 - 15:30 Poster session 2 (Even Number, Wednesday, October 12)

15:30 -15: 45 Coffee Break

15:45 - 18:25 <u>Session #6</u> (7 speakers) "Risk Evaluation"

PCB risk evaluation and environmental protection

Co-Chairs; Yasuhiro HIRAI (Kyoto Univ.)

David OSTERBERG (Univ. Iowa)

#6-1	Yasuhiro Hirai,	Emissions of PCBs from thermal sources and
15:45	Kyoto University, Japan	PCB waste in Japan
#6-2	Yo Osada,	Current measures to detoxify low-level PCB
16:05	Japan Industrial Waste	wastes in Japan
	Management Foundation, Japan	
#6-3	Leesun Kim,	Monitoring and Risk Assessment of
16:25	Kyungpook National University,	Polychlorinated Biphenyls in Agricultural Area in
	Republic of Korea	Ulsan
#6-4	John Morrow Bierschenk,	Mechanisms and Case Studies for InSitu and
16:45	TerraTherm, Inc. / SheGoTec,	ExSitu Thermal Remediation of PCB and Dioxin
	Inc, USA	
#6-5	Rune Ostergaard Haven,	Evaluation of remediation and intervention
17:05	Sweco Denmark A/S, Denmark	methods for PCB-contaminated buildings based
		on data from 33 remediation projects in Denmark
#6-6	David Osterberg,	Using Hollywood to make protective policy on
17:25	University of Iowa, USA	chemicals
#6-7	Madeleine K Scammell,	Community Engagement and Research
17:45	Department of Environmental	Translation of PCB monitoring in ambient air
	Health, Boston University School	around New Bedford Harbor, MA. USA
	of Public Health, USA	
18:05	Q&A	

18:25 - 19:00 Closing

19:00 - 21:00 Farewell Dinner

Poster presentation

Odd Number; Poster session 1 14:00 – 15:30, Tuesday, October 11

Even Number; Poster session 2 14:00 – 15:30, Wednesday, October 12

P-01 - P-30	Session #1; PCB environmental fate and transport: Enantioselective analysis	
P-31 - P-33	Session #2; Global inventory and management: National and internation	
	activities to limit human and environmental impact of PCBs	
P-34	Session #3; Toxicity and carcinogenicity of PCBs	
P-35 - P-46	Session #4; PCB metabolism and endocrine disruption	
P-47 - P-51	Session #5; Human exposures	
P-52 – P-77	Session #6; PCB risk evaluation and environmental protection	

P-01	Guorui Liu	Polychlorinated biphenyl (PCBs) profiles in
	Research Center for Eco-	cement kilns co-processing sewage sludge
	Environmental Sciences,	
	Chinese Academy of Sciences,	
	China	
P-02	Songyan Du	Data Mining and Source Apportionment to
	Rutgers University, USA	Understand Sources and Fate of PCBs
P-03	Yingming Li	Occurrence of PCB 11 in the yellow pigment,
	Research Center for Eco-	soil and sediment of China
	Environmental Sciences,	
	Chinese Academy of Sciences,	
	China	
P-04	Benoit Van Aken	2,5-Dichlorobiphenyl (2,5-DCB) - but not its
	Temple University, USA	toxic hydroxylated derivative (4'-OH-2,5-DCB)
		- elicits a safener-like response in the model
		plant Arabidopsis thaliana
P-05	Erika Isono	Congener-specific uptake of polychlorinated
	Graduate School of Agricultural	biphenyls by transporting factors in
	Science, Kobe University,	Cucurbita pepo
	Japan	
P-06	Niklas Johansson	Unforeseen Severe PCB Contamination
	Melica Biologkonsult /	Recently Detected in a Swedish Lake
	Karolinska Institutet, Sweden	
P-07	Roland Weber	Long term experience and standardization of
	POPs Environmental	biomonitoring PCBs in Bavaria/Germany
	Consulting, Germany	

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P-08	Kensaku Kakimoto	Organic halogen compounds in red-crowned
	Osaka prefectural institute of	cranes lived in Hokkaido, Japan
	public health, Japan	
P-09	Adam Jan Grochowalski	Determination of dioxins/furans, dI-PCBs,
	Krakow University of	ndl-PCBs in eggs from caged hens, free
	Technology, Poland	range and certified organic farms
P-10	Min-Kyu Park	Influence of industrial activities on the
	Ulsan National Institute of	contamination patterns of polychlorinated
	Science and Technology,	biphenyls in coastal sediments collected
	Republic of Korea	from major bays in South Korea
P-11	Jin-Woo Jeon	Nationwide monitoring of polychlorinated
	Ulsan National Institute of	biphenyls in soils collected from South
	Science and Technology,	Korea
	Republic of Korea	
P-12	Yoshikatsu Takazawa	Background air monitoring of
	National Institute for	polychlorinated biphenyls in Hateruma
	Environmental Studies, Japan	Island, Japan
P-13	Takeshi Nakano	PCB monitoring in air using passive
	Osaka University, Japan	sampling
P-14	Chisato Matsumura	Trends in PCB Concentrations of
	Hyogo Prefectural Institute of	Environmental samples for recent 40 years
	Environmental Sciences, Japan	
P-15	Qi Wang	Concentrations of Halogenated Polycyclic
	University of Shizuoka, Japan	Aromatic Hydrocarbons in Atmosphere in
		Japan
P-16	Daisy Ramirez-Ortiz	A targeted campaign to increase awareness
	University of Miami, USA	of PCB contamination in Guánica Bay, Puerto
		Rico among high school children
P-17	Hai Le Thi Le	Initial studies on toxic accumulate PCBs in
	Hanoi University of Natural	estuaries in the Northeastern region of
	Resources and Environment,	Vietnam
	Ministry of Natural Resource	
	and Environment, Viet Nam	
P-18	Yoshimasa Konishi	Monitoring of PCBs in aquaculture
	Osaka Prefectural Institute of	freshwater fish in Ho Chi Minh City, Vietnam
	Public Health, Japan	
P-19	Taizo Tsuda	Trends of PCB in fish from lakes in Japan,
		Sweden and USA
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	Lake Biwa Environmental	
	Research Institute, Japan	
P-20	Shunji Hashimoto	Data Mining for Targeted and Non-Targeted
	National Institute for	Monitoring of Environmental Pollutants by
	Environmental Studies, Japan	Using GCxGC/HRTofMS
P-21	Lirong Gao	Simultaneous analysis of polychlorinated
	Research Center for Eco-	biphenyls and polychlorinated naphthalenes
	Environmental Sciences,	by isotope dilution comprehensive two-
	Chinese Academy of Sciences,	dimensional gas chromatography high-
	China	resolution time-of-flight mass spectrometry
P-22	Mari Takazawa	Quantitative and Qualitative Analysis of
	Chubu University, Japan	halogenated organic compounds
		unintentionally generated in Waste Water
		Treatment Plant
P-23	Satoshi Endo	Comparative evaluation of polyethylene and
	Osaka City University, Japan	poly(oxymethylene) equilibrium passive
		samplers for measuring sediment pore water
		concentrations of PCBs
P-24	Hiromasa Fujii	Development of high throughput
	Nihon BUCHI K.K, Japan	concentration method for the sample
		preparation prior to PCB analysis
P-25	Hiroshi Takakuwa	Development of PCBs Analysis to Supply
	Agilent Technologies, Japan	Reclaimed Oil by Fast-GC Triple Stage
		Quadrupoles MS/MS with 13 Compounds
		Quantitation Method
P-26	Haruhiko Miyagawa	Quantitative Determination of Dioxins in
	Shimadzu corporation, Japan	Drinking Water by Isotope Dilution Triple
		Quadrupole GC-MS/MS
P-27	Miyuki Yamamoto	Enantioselective Analysis of Polychlorinated
	Kaneka Techno Research	Biphenyls (PCBs) by HRGC/MS
	Corporation, Japan	
P-28	Takae Takeuchi	Ab initio Study of Reaction Mechanisms for
	Nara Women's University	Formation of PCB Isomers With o-
	Japan	Dichlorophenyl Radicals
P-29	Tomoyuki Satoh	About reactivity of the PCB at the time of the
	Tohoku Afforestaion &	GC/MS(NICI) measurement
	Environmental Protection	

	Company,Ltd. Environmental	
	Analysis Center, Japan	
P-30	Akifumi Eguchi	Development of Simple Analytical Methods of
	Center for Preventive Medical	Polychlorinated Biphenyls (PCBs) in Human
	Sciences, Chiba University,	Serum by Gas Chromatography Negative Ion
	Japan	Chemical Ionization Quadrupole Mass
		Spectrometry
P-31	Darryl Frank Bawdon	The Management of Polychlorinated
	Manitoba Hydro, Canada	Biphenyls in Manitoba Hydro
P-32	Bounmany SOULIDETH	PCB Management at the Energy Sector of
	National Resources and	Laos PDR
	Environment Institute, Laos	
P-33	Mghames, Lama	PCBs Management in the Power Sector
	PMU / Ministry of Environment,	Project in the Republic of Lebanon
	Lebanon	
P-34	Akira Kubota	Reciprocal cross-talk between Ahr2 and Pxr
	Obihiro University of Agriculture	signaling in response to PCB126 and
	and Veterinary Medicine, Japan	pregnenolone in developing zebrafish
P-35	Erika Goto	Metabolic fates of CB118 by cytochrome
	Graduate School of Agricultural	P450 monooxygenase from soil bacterium
	Science, Kobe University,	under complex pollution and its structural
	Japan	basis
P-36	Hiroaki Kuroki	Formation of hydroxylated sulfur-containing
	Daiichi University, Japan	PCB metabolites from MeSO-PCB and
		MeSO ₂ -PCB in vitro and enantioselective
		analysis of unchanged MeSO-PCB and
		MeSO ₂ -PCB
P-37	Haruna Nagayoshi	Enantioselective metabolism of PCB 95 and
	Osaka Prefectural Institute of	183 by human metabolic enzymes
	Public Health, Japan	
P-38	Kohki Takaguchi	Disruption of mitochondrial functions by
	Center for Marine	PCB exposure in the dog brain: Toxicological
	Environmental Studies (CMES),	assessment using cross omics.
-	Ehime University, Japan	
P-39	Shinji Takeuchi	Effects of unintentional PCBs in pigments
	Hokkaido Institute of Public	and chemical products on transcriptional
	Health, Japan	activity via 10 nuclear receptors and aryl
		hydrocarbon receptor

P-40	Hiroyuki Kojima	Characterization of thyroid hormone receptor
	Hokkaido Institute of Public	and retinoid X receptor activities in 100
	Health, Japan	hydroxylated polychlorinated biphenyls
		using CHO-K1 cell-based transactivation
		assays
P-41	Eric Uwimana	Biotransformation of prochiral
	University of Iowa, USA	polychlorinated biphenyls (PCBs): a novel
		source of chiral PCB metabolite
P-42	Yuka Yoshinouchi	Risk assessment of disruption of estrogen
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