

Section	Number	Title	Authors
Analysis	P001	APPLICATION OF AN AUTOMATED CLEANUP SYSTEM FOR THE ANALYSIS OF PCDD/PCDF IN ENVIRONMENTAL SAMPLES	E. Abad, J. Saul_, J. Caixach and J. Rivera*
Analysis	P002	The Analysis Of SOCs In Vegetation: Influences Of Plant Type And Preparation/ Extraction Technique.	Jonathan L Barber, Gareth O. Thomas, Wendy A. Ockenden, Kilian E.C. Smith, Mike Howsam and Kevin C. Jones
Analysis	P003	DETERMINATION OF PHENOLIC XENOESTROGENS IN SEDIMENTS AND SEWAGE SLUDGES BY HRGC/LRMS	Ulrike Bolz, Wolfgang K_rner and Hanspaul Hagenmaier
Analysis	P004	QUANTITATION OF NON-ORTHO POLYCHLORINATED BIPHENYLS IN STANDARD REFERENCE MATERIALS	W. Wayne Brubaker, Jr., Michele M. Schantz, and Stephen A. Wise
Analysis	P005	COMPARATIVE ANALYSIS OF TOXAPHENE COMPOUNDS USING SPLIT/SPLITLESS AND ON-COLUMN INJECTION IN CAPILLARY GAS CHROMATOGRAPHY	Hans-Rudolf Buser, Peter Haglund*, Markus D. M_ller, Thomas Poiger, and Christoffer Rappe*
Analysis	P006	A Novel Low-Cost Air Sampling Device (AmbStack Sampler) and Detection System (CALUX Bioassay) for Measuring Air Emissions of Dioxin, Furan, and PCB on a TEQ Basis Tested With a Model Industrial Boiler	George C. Clark 1, Michael Chu 1, Dahman Touati 2, Barry Rayfield 3, Jon Stone 4, and Marcus Cooke 5
Analysis	P007	Improved determination of selected POPs in human serum using solid-phase disk extraction and dual-column CGC-ECD	Adrian Covaci, An Pauwels and Paul Schepens
Analysis	P008	ANALYSIS OF ORGANOCHLORINE COMPOUNDS IN HUMAN MILK	Marie Aunea, Sam Atumaa, Per Ola Darneruda, Anders Wicklund-Glynnab and Sven Cnattingiusc
Analysis	P009	APPLICATION OF THE NEW C18 SPEEDISKSTM TO THE ANALYSIS OF POLYCHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURANS IN WATER AND EFFLUENT SAMPLES	E. Pujadas1,2, J. D_az-Ferrero1,2, R. Mart_1, F. Broto-Puig2, L. Comellas2, M.C. Rodr_quez-Larena1
Analysis	P010	The Isomer Distribution and Congener Profile of Polychlorinated Dibenzo-p-dioxins (PCDDs) in Ball Clay from the Mississippi Embayment (Sledge, Mississippi)	Joseph Ferrario, Danny McDaniel , and Christian Byrne
Analysis	P011	Rapid Screening of PCDD/Fs : Comparison between Immunoassay, GC/MS/MS and HRGC/HRMS on different fly ashes.	Jean-Fran_ois Focant, Gauthier Eppe, Edwin De Pauw
Analysis	P012	Analysis of Haloacetic Acids in Drinking Water using Electrospray Ionization _ High Field Asymmetric Waveform Ion Mobility Spectrometry _ Mass Spectrometry	Barbara Ells, Kenneth L. Froese, Steve E. Hrudey, David Barnett, Randy Purves, Roger Guevremont
Analysis	P013	Disturbance of PCDD/PCDF Analysis caused by Impurities from commercial 13c-labelled PCB-standards	Peter F_rst1, Lothar Bathe1, Rainer Malisch2, Helmut Winterhalter2, Richard Palavinskask3 and Wolfgang Mathar3
Analysis	P014	OCCURRENCE OF PCDD/PCDF AND PAH IN DIFFERENT ENVIRONMENTAL MATRICES IN A NORTHERN-EASTERN REGION OF ITALY	Italo Gardan (a), Nicola Favaro (a), Alessandro Conte (a), Monica Zanato (a), Lutz M_ller (b)
Analysis	P015	Applications of Tandem Mass Spectrometry to Environmental Analysis: Ultratrace Determination of PCDD/PCDF, PCB, PAH, DDT and Related Compounds.	Alessandro Guarini, Tiziana Fiorani and Carlo Busetto
Analysis	P016	EXTENSION OF U.S. EPA METHODS 0023A/8290 TO INCLUDE 13C12-LABELLED MONO-, DI-, AND TRI-CHLORINATED DIBENZO-p-DIOXIN AND DIBENZOFURAN STANDARDS	Brian K. Gullett1, Jeffrey V. Ryan1, Dennis Tabor2
Analysis	P017	The Binding of 1,2,3,7,8_Pentachlorodibenzo_p_Dioxin Metabolites With Rat Urinary and Biliary Carrier Proteins	Heldur Hakk, Gerald Larsen, and Vernon J. Feil
Analysis	P018	Immunoassay Analysis of Dioxin in Soil: VALIDATION OF TEQ Screening at 500 ppt using Rapid Extraction and Cleanup	Robert O. Harrison* and Robert E. Carlson**
Analysis	P019	Accelerated Solvent Extraction (ASE) of Different Matrices in the Analysis of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans: Method Development and Comparison to Soxhlet Extraction	B. Henkelmann, T. Wottgen, G. Chen*, K.-W. Schramm, A. Kettrup
Analysis	P020	ANALYSIS OF MINED CLAY PRODUCTS FOR PCDDs/PCDFs BY HIGH-RESOLUTION MASS SPECTROMETRY (HRGC/HRMS) AND QUADRUPOLE ION STORAGE MASS SPECTROMETRY/MASS SPECTROMETRY (QISMS/MS)	Jim Holcomb, Joseph Ferrario* and Christian Byrne*
Analysis	P021	CRITICAL ANALYTICAL ASPECTS TO DETECT PCDDs AND PCDFs IN THE VENICE LAGOON AT THE LOW LEVEL OF 13 fgTE/L	Anna Laura Iamiceli, Alessandro di Domenico, Nicola Iacovella, Luigi Turrio Baldassarri
Analysis	P022	A High Efficiency All Glass Sampling and Concentration Device for Adsorptive Semivolatile Organics	Mark Gehrkea,c, Shubhen Kapilaa,c, Paul Namc and Virgil Flaniganb,c
Analysis	P023	Conversion Method for GC Retention Times of PCB Congeners	Hiroshi Kato, Yoshihisa Ueda and Tetsuo Higuchi

Analysis	P024	Extract of the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans in Municipal Incinerator Fly Ash with Supercritical Carbon Dioxide	Satoshi Kawajiri, *Motonobu Goto and *Tutomu Hirose
Analysis	P025	TOX AS A NOVEL ALTERNATIVE INDEX OF DIOXINS IN FLUE GAS	Katsuya Kawamoto
Analysis	P026	Rapid PCDD/PCDF Screening Method for Fly Ash with Ion Trap MS/MS	YUKIO KEMMOCHI*, AND AKIHIRO ARIKAWA
Analysis	P027	Separation of 2,3,7,8-substituted polychlorodibenzo-p-dioxins and polychlorodibenzofurans on a new mixed stationary phase.	Byoung Eog Kim, Min Kyun Kim, Kyuoung Tae Kim and Seong Ki Chang*
Analysis	P028	Pentachlorophenol Mediated Contamination of Leather and Leather Goods with Polychlorinated Dibenzo-p-dioxins and Dibenzofurans	J_rg Klasmeier1 and Michael S. McLachlan2
Analysis	P029	Comparison of Pressurized Fluid (PFE) and Soxhlet Extraction of PCDD/F from Soil Samples	Wilhelm Knoth
Analysis	P030	DETERMINATION OF PAHs, PCBs AND PCDD/Fs IN SURFACE WATER USING THE GOULDEN LARGE-SAMPLE EXTRACTOR AND HIGH RESOLUTION MASS SPECTROMETRY.	Charles Brochu1, Paule Tremblay1 and Bernard Rondeau2.
Analysis	P031	ANALYTICAL METHODOLOGIES FOR DETERMINATION OF PCB IN BIOLOGICAL MATERIAL - INTERCALIBRATION STUDIES UNVEIL TODAY ' S STATE OF THE ART	Gunilla Lindstr_m1, H_kan Wingfors and Bert van Bavel
Analysis	P032	PERSISTENT ORGANOCHLORINE POLLUTANTS IN HUMAN ADIPOSE TISSUE FROM SAVANNAH, GEORGIA, U.S.A.	B.G. Loganathan, K.D. Seaford, J.D. Morton, K.S. Sajwan*, and D.A. Owen.
Analysis	P033	PERSISTENT ORGANOCHLORINE CONTAMINATION IN SEDIMENTS AND FISH FROM ATLANTIC COASTAL AND BRACKISH WATERS OFF SAVANNAH, GEORGIA, USA.	B. G. Loganathan, J. D. Morton, K. D. Seaford, K. S. Sajwan*, J. P. Richardson* and D. A. Owen
Analysis	P034	Method for Congener-Specific Determination of Dioxin-like PCBs in Biota and Soil/Sediments.	Karen A. MacPherson , Terry M. Kolic, V. Khurana and Eric.J.Reiner.
Analysis	P035	COMPARISON OF SFE WITH SOXHLET AND SONICATION FOR THE DETERMINATION OF PCDD/PCDF IN SOIL SAMPLES	Mari Mannila 1, Jaana Koistinen 1 and Terttu Vartiainen 1,2
Analysis	P036	Synthesis and identification of polybrominated ortho-phenoxyanisoles and phenols in Baltic salmon (Salmo salar)	G_ran Marsh1, Lillemor Asplund2, Maria Athanasiadou1, Saleh Twaij1 and Eva Jakobsson1
Analysis	P037	DETERMINATION OF LOW DIOXINS AND PCB ' S CONCENTRATION IN AMBIENT WATER USING LARGE VOLUME " IN SITU " PRE-CONCENTRATION SYSTEM	Yasumoto Magara(1), Takako Aizawa(2), Masanori Ando(3), Masatoshi Morita(4), Hiroyasu Ito(4), Yoshie Seki(5) and Tohru Matsumura(5)
Analysis	P038	DEVELOPMENT OF AIR PRECIPITATION TRAP SAMPLER FOR DIOXINS	Tohru Matsumura(1), Hiroji Shamoto(1), Toshiaki Ohtsuka(1) and Masatoshi Morita(2)
Analysis	P039	Rapid Extraction of Dioxins from Soil, Fly Ash and XAD-2 Resin Using Accelerated Solvent Extraction (ASE) and Hot Extraction	Hitoshi Miyamoto, Kenji Ohtsuka, Yoshikane Fukuda and Yohichi Ishibashi
Analysis	P040	FINGERPRINTING ANALYSIS OF PCDD/PCDF SOURCES IN A SURFACE WATER OUTFALL NEAR A PETROLEUM REFINERY	Michael L. Moore, Matthew K. Butcher, Kevin Connor*, Dennis J. Paustenbach**, and Dipti B. Mathur
Analysis	P041	POLYCHLOROBIPHENYLS (PCBs) IN THE SEDIMENT AND SURFACE WATER OF THE VENICE LAGOON	Ivo Moret*, **, Rossano Piazza**, Andrea Gambaro*, **, Marco Benedetti** and Paolo Cescon*, **
Analysis	P042	SENSITIVE DETERMINATION METHOD OF DIOXINS AND RELATED COMPOUNDS IN HUMAN BLOOD	Yuko Masuzaki*, Tohru Matsumura*, Tatsuya Hattori*, Shingo Kimura † , Hiroshi Noda † , Shunji Hashimoto § and Masatoshi Morita §
Analysis	P043	Determination of Volatile Chloroorganic Compounds Using Quartz Crystal Microbalance	Ryuichi Naganawa, Kazutoshi Noda, Hiroaki Tao, Mamoru Tominaga and Akira Miyazaki
Analysis	P044	Efficient and Economical Measuring Method of PCDDs/Fs for Flue Gas	Yutaka Nagayanagi, Yoshihiro Saito, Akira Aono, Jun Nagata, Mika Kato* ,Kohei Urano* and Haruhisa Syudo**
Analysis	P045	COMPARATIVE PCDD/Fs ANALYSIS IN DIFFERENT MATRICES (FISH, HARBOUR SEDIMENT, INDUSTRIAL SLUDGE, MSWI ASH) EXTRACTED BY PRESSURIZED FLUID EXTRACTION AND BY TRADITIONAL SOXHLET. PRELIMINARY RESULTS.	Stefano Raccanelli, Vladimiro Bonamin*, Maurizio Favotto, Valerio Di Marco, Werner Tirler**
Analysis	P046	Current Activities in Environmental Standard Reference Materials for Trace Halogenated Organic Pollutants	Michele M. Schantz, Dianne L. Poster, and Stephen A. Wise
Analysis	P047	A Comparison and Discussion of Two Differing Methods of Measuring Dioxin-like Compounds: Gas Chromatography-Mass Spectrometry and the CALUX Bioassay - Implications for Health Studies	Arnold J. Schecter1, Shane U. Sheu1, Linda S. Birnbaum2, Michael J. DeVito2, Michael S. Denison3, and Olaf P_pke4

Analysis	P048	VALIDATION STUDY OF PROPOSED PROTOCOL FOR AN "ENHANCED OECD TEST GUIDELINE 407" USING FLUTAMIDE AND 17 α -METHYLTESTOSTERONE.	Makoto Shibutani, Kazuhiro Toyoda, Takayoshi Imazawa, Hideaki Nakamura, Makoto Miyauchi, Takatoshi Koujitani, Toru Tamura and Masao Hirose
Analysis	P049	PCDDs, PCDFs, Co-PCBs and PCB Congener Analysis in Environmental Samples Using the Automated Sample Cleanup System	Sun Kyoung Shin ¹ , Young Hee Chung ¹ , Harmid Shirkhan ²
Analysis	P050	Ion trap MS/MS detection, a sensitive and selective alternative for the analysis of Toxaphenes and chlorinated Paraffins	Sonja Skopp*, Michael Oehme* and Hubert Brand+
Analysis	P051	Analysis of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzo-furans by the Accelerated Solvent Extraction (ASE) and HPLC Cleanup	Noriyuki Suzuki § #, Koji Tosa §, Masashi Yasuda §, Takeo Sakurai**# and Junko Nakanishi**#
Analysis	P052	Rapid Method for Quantification of PCB in Transformer Oil	Makoto Takada ¹), Hisayuki Toda ¹), Ryuji Uchida ²)
Analysis	P053	Investigations regarding separate sampling of PCDD/F in gas and solid phase of incineration flue gas by filtration techniques	Takumi Takasugaa, Fumio Babab, Takeo Kobayashib, Makoto Satoc, Masato Kuratac, and Masayuki Kokadod
Analysis	P054	GC-MS Analysis of PCDD /F on two capillary columns of different polarity in the same GC-MS system.	Werner Tirler, Massimo Doneg_
Analysis	P055	Determination of Polycyclic Aromatic Hydrocarbons and Polychlorobiphenyls in Whole Human Blood by SFE-GC-MS.	L. Turrio-Baldassarri,* C. La Rocca,* N. Iacovella,* A. di Domenico,* G. Spera,** A. Cornoldi,** C. Lubrano,** L. Silvestroni.**
Analysis	P056	Results from the 4th round of the International Intercalibration Study on PCDDs, PCDFs, mono-ortho and planar PCBs: Part 1 Incineration.	Bert van Bavel ¹ , Per Andersson ¹ , Christoffer Rappe ¹ , Mats Tysklind ¹ and Nobuo Takeda ²
Analysis	P057	Fast screening for PCBs, pesticides and brominated flame retardants in biological samples by SFE-LC in combination with GC-TOF.	Bert van Bavel, Jonathan Hughes*, Steve Davis*, H_kan Wingfors and Gunilla Lindstr_m.
Analysis	P058	Results from the 4th round of the International Intercalibration Study on PCDDs, PCDFs, mono-ortho and planar PCBs: Part 2 Sediment/Soil/Sludge	Bert van Bavel ¹ , Christoffer Rappe ¹ , Mats Tysklind ¹ and Nobuo Takeda ²
Analysis	P059	MASS SPECTROMETRIC CHARACTERIZATION OF Q1, A c9H3Cl7N2 CONTAMINANT in ENVIRONMENTAL SAMPLES	Walter Vetter ¹ , Lutz Alder ² , Richard Palavinkas ²
Analysis	P060	Combined microwave-assisted extraction and gel-permeation chromatography as sample clean-up for fish tissue and blubber of marine mammals	Walter Vetter, Marion Weichbrodt, Ariadna Batista, Bernd Luckas
Analysis	P061	Advantages of the solvent mixture ethyl acetate/cyclohexane (1:1, v:v) for microwave-assisted extraction and accelerated solvent extraction in view of quantitative determination of organochlorines in fish tissue	Marion Weichbrodt, Walter Vetter, Bernd Luckas
Analysis	P062	Results from the first Round of the Korea-Interlab Calibration Study on PCDDs, PCDFs : Incineration Extract	Chang Han Joo ¹ , Seok Won Eom ² , Sam Cwan Kim ³ , Seong Ki Jang ³ , Jae Cheon You ¹
Analysis	P063	Determination of TEQ in Chimney Soot by PCDD/PCDF Enzymeimmunoassay a Comparison with GC/MS data	M. Zennegg and P. Schmid
Analysis	P064	On-Line Real-Time Measurement of PAHs and PCDD/F Surrogates in the Flue Gas of Industrial Waste Incineration Processes	R.Zimmermann* ^{1,2} , H.J.Heger ¹ , M.Blumenstock ¹ , R.Dorfner ¹ , U.Nikolai ³ , K.-W.Schramm ¹ , A.Kettrup ^{1,2}
Brominated Flame Retardants	P065	BIOMAGNIFICATION QUANTIFICATION OF PBDEs IN FISH using stable nitrogen isotopes	Sven Burreau ¹ , ² , Dag Broman ¹ and Yngve Zeb_hr ¹
Brominated Flame Retardants	P066	Temporal trends of a polybrominated diphenyl ether (PBDE), a methoxylated PBDE, and hexabromocyclo-dodecane (HBCD) in Swedish biota	Amelie Kierkegaard, Ulla Sellstr_m, Anders Bignert*, Mats Olsson*, Lillemor Asplund, Bo Jansson and Cynthia de Wit
Brominated Flame Retardants	P067	Binding of 2,2',4,4',5-Pentabromodiphenyl ether (BDE-99) and/or its metabolites to mammalian urinary and biliary carrier proteins	Gerald Larsen a), Heldur Hakk a), Eva Klasson-Wehler b, *), Ulrika_rn b), and _ke Bergman b)
Brominated Flame Retardants	P068	DISTRIBUTION OF THE FLAME RETARDANT TETRABROMO-BISPHENOL A IN PREGNANT AND FETAL RATS AND EFFECT ON THYROID HORMONE HOMEOSTASIS	Ilonka A.T.M. Meerts*, Yvonne Assink*, Peter H. Cenijs*, Bert M. Weijers**, Hans H.J. van den Berg*, _ke Bergman***, Jan H. Koeman*, and Abraham Brouwer*.*.*.*
Brominated Flame Retardants	P069	Polybrominated diphenyl ethers in human liver and adipose tissues. A pilot study.	Daiva Meironyt_ Guvenius and Koidu Nor_n
Brominated Flame Retardants	P070	BROMINATED FLAME RETARDANTS IN SEDIMENTS FROM EUROPEAN ESTUARIES, THE BALTIC SEA AND IN SEWAGE SLUDGE	Ulla Sellstr_m, Amelie Kierkegaard, Tomas Alsberg, Per Jonsson*, Cajsa Wahlberg** and Cynthia de Wit
Chiral Compounds	P071	THE RELATIVE CONTRIBUTIONS OF PRIMARY AND SECONDARY SOURCES OF ATMOSPHERIC PCB IN BIRMINGHAM, U.K.	Jianzhang Ren and Stuart Harrad*

Chiral Compounds	P072	Characterisation of partially ethylated g-cyclodextrins, a well suited alternative for the enantioselective separation of toxaphenes by HRGC	Alexandra Jaus and Michael Oehme
Chiral Compounds	P073	ENANTIOMERIC SEPARATION OF CHIRAL METHYLSULPHONYL PCB CONGENERS IN LIVER AND ADIPOSE TISSUE FROM RATS DOSED WITH A50:	Christina Larsson ¹ , Thomas Ellerichmann ² , Stephan Franke ² , Maria Athanasiadou ¹ , Heinrich H_hnerfuss ² and _ke Bergman ¹
Chiral Compounds	P074	Toxaphene residues in sediment and biota from a highly polluted area: congener- and enantioselective analysis	Walter Vetter ¹ and Keith Maruya ²
Emission Control and Abatement Technologies	P075	Catalytic destruction of polychlorinated organics over commercial SCR catalysts	Slawomir Lomnicki ¹ , Igor Yeskendirov ¹ , Zhengtian Xu ² , Michelle Waters ² and Michael Amiridis ¹
Emission Control and Abatement Technologies	P076	Effects of Dust Composition on Removal Characteristics for Dioxins.	Fumio Baba, Takeo Kobayashi, Makoto Sato*, Masato Kurata*, Takumi Takasuga** and Masayuki Kokado***
Emission Control and Abatement Technologies	P077	DIOXIN EMISSION FROM COMBUSTION OF WASTE AUTOMOBILE OILS AS FUEL FOR SMALL HEATING FURNACES	E.S. Brodsky, N.A.Klyuev, A.Z.Razyapov*
Emission Control and Abatement Technologies	P078	The Dioxin Removal in the flue gas of the Waste Incineration Plant by the FLR and SCR units	Hyun Chul Choi, Cheon Gil Park, Hee Je Seung, Tae Young Oh and Yong Duk Lee*
Emission Control and Abatement Technologies	P079	Possibility of Reducing Total Dioxins Emission during Treatment of Exhaust Gas in Municipal Solid Waste Incineration (MSWI) Plants	FUTAMURA Osamu*, SASAKI Makoto**, SATOU Youji**, TSUKAMOTO Teruaki**
Emission Control and Abatement Technologies	P080	BACTERIUM CAPABLE OF BIODEGRADATION OF DIOXIN-LIKE SUBSTANCES	1. Sadayori Hoshina, 2. David H. Figurski, 3. I.Bernard Weinstein , 4. Hiroshi Gohda, 5. Tooru Furuichi
Emission Control and Abatement Technologies	P081	Assessment of Radiolysis and Chemical Dehalogenation for Decontamination of PCBs and PCDDs in Soil	Paul Nam ² , Qunhui Liu ¹ , Shubhen Kapila ^{1,2} , Wander Tumiatti ³ , and Adriana Porciani ³
Emission Control and Abatement Technologies	P082	Dioxin Removal and Decomposition with Moving Bed Activated Carbon Adsorption Tower and Regenerator	Isamu Kawakami ^A , Mitsuyasu Kanamura ^A , Shin-ichi Sakai ^B and Yoshio Yagi ^C
Emission Control and Abatement Technologies	P083	Removal Efficiency of PCDDs/PCDFs by Air Pollution Control Devices in Municipal Solid Waste Incinerators	Kim Sam-Cwan ¹ , Jeon Sung-Hwan ¹ , Jung Il-Rok ¹ , Kim Ki-Hun ¹ , Kwon Myung-Hee ¹ , Kim Jae-Hyung ¹ , Yi Jun-Heung ² , Kim Seung-Jin ² , You .Jae-Cheon ² , Jung Dong-Hee ²
Emission Control and Abatement Technologies	P084	High Temperature Oxidation of Dioxins	Paul-Marie MARQUAIRE, Ralf W_RNER, Philippe RAMBAUD and Fran_ois BARONNET
Emission Control and Abatement Technologies	P085	Basic Study on Gas/Particle Partitioning of PCDD/F	Hartmut M_tzing, Werner Baumann, Berit Becker, Klaus Jay*, Hanns-Rudolf Paur and Helmut Seifert
Emission Control and Abatement Technologies	P086	Reduction of PCDD/F Formation Using Alkaline impregnated Powdered Activated Carbon	Hiroshi Miyata, Naoaki Fujiyoshi, Noboru Fujiwara and Francis W. Karasek*
Emission Control and Abatement Technologies	P087	numerical simulation of dioxin formation in a stoker-type furnace	Mamoru Mizumoto, Ryuhei Kawabe, Joji Honda*, Shinji Tanaka, Atsushi Morihara
Emission Control and Abatement Technologies	P088	First step toward biodegradation of dioxins by means of a reactor	Kunichika Nakamiya, Sadayori Hoshina*, Ikuo Souta**, Kazuei Ishii and Tohru Furuichi
Emission Control and Abatement Technologies	P089	THERMODYNAMIC EVALUATION ON THE FORMATION OF DIOXINS AND ABATEMENT EFFECT OF INHIBITORS IN COMBUSTION GAS	Akira Yazawa* and Shigeatsu Nakazawa**
Emission Control and Abatement Technologies	P090	Dioxin separation with natural zeolites	Peter Neumann and Klaus. G. Schmidt
Emission Control and Abatement Technologies	P091	Jet-REMPLI coupled to the Municipal Waste Incinerator Stuttgart One further Step towards Continuous PIC Monitoring	Reinhold Thanner, Matthias Nomayo, Horst-Henning Grotheer, and Roland St_tzle*
Emission Control and Abatement Technologies	P092	DEVELOPMENT OF A REAL-TIME CONTINUOUS EMISSIONS MONITOR FOR DIOXINS and other CHLORINATED Aromatics	Harald Oser, David R. Crosley, Michael J. Coggiola, and Gregory W. Faris
Emission Control and Abatement Technologies	P093	THE EFFECT OF CHEMICAL INHIBITOR ON PCDD/F CONCENTRATIONS IN DIFFERENT PARTICLE SIZE FRACTIONS	P_ivi Ruokoj_rvi, Marjaleena Aatamila, Kari Tuppurainen, Ismo Halonen, Juhani Ruuskanen
Emission Control and Abatement Technologies	P094	Destruction of Chlorofluorocarbons (CFCs) in Municipal Solid Waste (MSW) Incineration Plants and Behavior of Organohalogen Compounds	Nakamura, K.a), Minami, H.a), Weber, R.b), Takasuga, T.c) and Sakai, S.d)
Emission Control and Abatement Technologies	P095	HEXACHLOROBENZENE HYDRODECHLORINATION IN THE PRESENCE OF BIMETALLIC CATALYSTS	*V.I. Simagina, **A.J. Renouprez, **G. Bergeret, ***M.T Gimenez, *I.V. Stoyanova,*M.B. Egorova, *V.A.Likholobov

Emission Control and Abatement Technologies	P096	Measures to Prevent Emissions of PCDDs/DFs and Co-planar PCBs from Crematories in Japan	Nobuo Takeda, Masaki Takaoka, Takeshi Fujiwara, Hisayuki Takeyama*, Shoji Eguchi**
Emission Control and Abatement Technologies	P097	A Continuous Technology for Decontamination of Electrical Equipment through Dechlorination of PCBs/PCTs/PCDFs/PCDDs in Insulating Oil - CDP Process Applications	W. Tumiatti1, A.Porciani1,R.Actis1, S.Kapila2 and P.Nam2
Emission Control and Abatement Technologies	P098	Pressurised hot water extraction (PHWE) of PCDFs from industrial soil.	Bert van Bavel, Kari Hartonen*, Christoffer Rappe, Lars _berg and Marja-Liisa Riekkola*
Emission Control and Abatement Technologies	P099	CATALYTIC DESTRUCTION OF DIOXINS OVER GOLD-DEPOSITED METAL OXIDES	Osamu Kajikawa, *Xiang-sheng Wang, Takeshi Tabata, Osamu Okada
Emission Control and Abatement Technologies	P100	Low Temperature Decomposition of PCBs by TiO2-Based V2O5-WO3 Catalyst	Roland Weber1), Takeshi Sakurai1) and Hanspaul Hagenmaier2)
Emission Control and Abatement Technologies	P101	Subcritical water degradation of dioxins	I. Windal*, S. Hawthorne#, E. De Pauw*
Chiral Compounds	P102	Species-dependent enantioselective transformation of HHCB, AHTN and ATII in crucian carp (Carassius carassius) and tench (Tinca tinca)	Robert Gatermann1,4, Heinrich H_hnerfuss1, Scarlett Biselli1, Gerhard G. Rimkus3, Markus Hecker2, Roland Kallenborn4, and Ludwig Karbe2
Chiral Compounds	P103	Separation of HHCB, AHTN, ATII, AHDI and DPDI by enantioselective capillary gas chromatography and preparative separation of HHCB and ATII by enantioselective HPLC	Scarlett Biselli1, Helmut Dittmer1, Robert Gatermann2, Roland Kallenborn2, Wilfried A. K_nig1, and Heinrich H_hnerfuss1
Formation and Sources	P104	COMPARISON OF DIFFERENT COMBUSTION FACILITIES ACCORDING TO THEIR EMISSION PROFILES OF POLYCHLORINATED COMPOUNDS	Martin Blumenstock*)1, Ralf Zimmermann*)2, Karl-Werner Schramm2 and Antonius Ketrup1,2
Formation and Sources	P105	Dioxins from the Sintering Process. (VII) Adsorption/Desorption data from 'de novo' Tests. Activation energy of (presumed) equilibrium values.	A.Buekens, P.Prakhar, L.Stieglitz*, P.Jacobs**
Formation and Sources	P106	Dioxins from the Sintering Process. (IV) Characterisation, analysis and 'de novo' testing of sintering belt siftings. Influence of temperature, hydrogen chloride and activated carbon addition.	R. Weber**, A.Buekens, P.Segers, F. Rivet. L.Stieglitz*
Formation and Sources	P107	Characterization of the Nature of De Novo Synthesis by 13C NMR	H. Huang, M. Biesemans* and A. Buekens
Formation and Sources	P108	Dioxins from the Sintering Process. (I) Particle Characterisation and SEM/wet analysis of Samples.	A.Buekens, H.Huang, L.Stieglitz*
Formation and Sources	P109	Dioxins from the Sintering Process. (II) Samples and their propensity to form Dioxins, as derived by a 'de novo' laboratory test.	L.Stieglitz*, J.Polzer*, K.Hell*, R.Weber**, A.Buekens, P.Prakhar, F. Rivet.
Formation and Sources	P110	Dioxin Studies on a MSW-Incinerator.	L. Stieglitz*, K. Hell*, K.Matthys**, F.Rivet***, A.Buekens***
Formation and Sources	P111	Dioxins from the Sintering Process. (V) Characterisation, analysis and 'de novo' testing of Samples. Statistical correlations	A.Buekens, P.Prakhar, F. Rivet, L.Stieglitz*
Formation and Sources	P112	PCDD Formation from Chlorophenol on Fly Ash Surface Studied by Fourier Transform Infrared Spectroscopy	H. Huang, A. Buekens and P. Jacobs*
Formation and Sources	P113	Dioxins from the Sintering Process. (III) Operating factors influencing upon 'de novo' formation of field 2 dust	L.Stieglitz*, A.Buekens
Formation and Sources	P114	Characterization of Emissions of Dioxins and Furans from Ethylene Dichloride (EDC), Vinyl Chloride Monomer (VCM) and Polyvinyl Chloride (PVC) Facilities in the United States. III. Oxvchlorination Catalvst.	W. F. Carroll, Jr., T. C. Berger, F. E. Borrelli, J. W. Lewis, J. Ledvina, R. L. McCreedy, T. P. Smith, D. R. Tuhovak, and A. F. Weston
Formation and Sources	P115	LIME AS THE SOURCE OF PCDD/F CONTAMINATION IN CITRUS PULP PELLETS FROM BRASIL	Gabriela Carvalhaes, Paul Brooks, Thomas Krauss
Formation and Sources	P116	ON CATALYTIC PROPERTIES OF IRON ORE AND SINTER AND ITS ROLE IN DIOXIN FORMATION AND DESTRUCTION IN IRON METALLURGY	Mariusz K. Cieplik, Robert Louw, Jose M. Pastor Carbonell
Formation and Sources	P117	ANALYSIS OF DIOXIN-LIKE COMPOUNDS IN VEGETATION AND SOIL SAMPLES BURNED IN CATALAN FOREST FIRES. COMPARISON WITH THE CORRESPONDENT UNBURNED MATERIAL.	M. Mart_nez1,2, J. D_az-Ferrero1,2, R. Mart_1, F. Broto-Puig2, L. Comellas2,
Formation and Sources	P118	Congener Profiles of PCDD/Fs in Soil and Vegetation Samples Collected Near to a Municipal Waste Incinerator	Jos_ L. Domingo, Salvador Granero, Mercedes G_mez, Juan M. Llobet and Marta Schuhmacher
Formation and Sources	P119	Change of PCDD/PCDF Profiles in the Wet Scrubber System of a Fluidized-Bed Incinerator used for Municipal Solid Waste	Horst C. Gass, Frank Neugebauer

Formation and Sources	P120	PCDD/F EMISSIONS FROM UNCONTROLLED, DOMESTIC WASTE BURNING	Brian K. Gullett ¹ , Paul M. Lemieux ¹ , Christopher C. Lutes ² , Chris K. Winterrowd ² , Dwain L. Winters ³
Formation and Sources	P121	Formation of PCDD/Fs in artificial solid waste incineration in a laboratory-scale fluidized bed reactor	Takeshi Hatanaka, Takashi Imagawa and Masao Takeuchi
Formation and Sources	P122	Comparison of the Formation Pattern of PCDD/F and Related Compounds on Fly Ashes from an Iron Ore Reprocessing Plant and MSWI	Hell, K, Stieglitz, L., Bautz, H., Will, R., Zwick, G.
Formation and Sources	P123	Physical-Chemical Properties of Polyfluorinated Dibenzo-p-dioxins and Dibenzofurans	Dorte Herzke* und Wolfgang Rotard Nobuyasu Kanda 1, Katsuya Kawamoto 2, Susumu Ayukawa 3, Hirotsuna Ito 4, Haruo Miyata 5, Kazuki Murahashi 6 and Yasuaki Harada 1
Formation and Sources	P124	DIOXINS FORMATION ON FLY ASH OF PYROLYSIS-MELTING PROCESS FOR MSW (I) - FORMATION BEHAVIOR IN A FLY ASH MODEL SYSTEM -	Kurunthachalam Kannan ¹ , Masahide Kawano ² , Yuji Kashima ³ , Mitsuaki Matsui ³ , and John P. Giesy ¹
Formation and Sources	P125	Extractable Organohalogen (EOX) in Sediment and Biota Collected at an Estuarine Marsh near a Former Chlor-alkali Facility	Anglique P.J.M. van Birgelen ¹ , Charles H. bert ^{1*} , Martin L. Wenk ² , Linda K. Grimes ³ , Robert E. Chapin ¹ , Greg S. Travlos ¹ , Joel Mahler ¹ , and John R. Bucher ¹ .
Formation and Sources	P126	Toxicity of 3,3',4,4'-tetrachloroazobenzene and 3,3',4,4'-tetrachloroazoxybenzene in rats and mice	Eiki Kasai*, Takehiro Kobayashi* and Takashi Nakamura*
Formation and Sources	P127	FORMATION OF PCDD/Fs ON IRON OXIDES FROM CHLOROBENZENE AND CHLOROPHENOL	Yuji Kashima*, Mitsuaki Matsui*, Masahide Kawano**, Morio Ueda**, Toshiki Tojo**, Genta Takahashi**, Muneaki Matsuda**, Kazunori Anbe***, Rikuo Doi*, and Tada-aki Wakimoto**
Formation and Sources	P128	CHARACTERISTICS OF EXTRACTABLE ORGANIC HALOGENS IN ASH SAMPLES FROM MEDICAL SOLID WASTE INCINERATOR	Katsuya Kawamoto*, Nobuyasu Kanda**, Katsuhiko Kobayashi***, Tomohiro Wada****, Shigehiro Shibakawa***** and Yasuaki Harada**
Formation and Sources	P129	DIOXINS FORMATION ON FLY ASH OF PYROLYSIS-MELTING PROCESS FOR MSW (II) - CHARACTERIZATION BASED ON CONGENER AND ISOMER PATTERN-	Tomohiro Wada****, Shigehiro Shibakawa***** and Yasuaki Harada**
Formation and Sources	P130	REMOVAL OF ULTRATRACES PCDD/PCDF FROM VINYLCHLORIDE PRODUCTION WASTE WATER	Faiz Khizbullin, Ludmila Chernova and Irina Muslimova
Formation and Sources	P131	SECONDARY DIOXIN POLLUTION OF WATER IN THE PROCESS OF CHLORINATION	Faiz Khizbullin, Irina Muslimova and Ludmila Chernova
Formation and Sources	P132	DIOXIN EMISSION BY INSTALLATIONS FOR CHLORORGANIC COMPOUNDS PRODUCTION IN THE REPUBLIC OF BASHKORTOSTAN, RUSSIA	Faiz Khizbullin, Valery Maystrenko, Ludmila Chernova, Irina Khasanova and Irina Muslimova
Formation and Sources	P133	Formation and Emission Status of PCDDs/PCDFs in Municipal Solid Waste Incinerators in Korea	Kim Sam-Cwan ¹ , Jeon Sung-Hwan ¹ , Jung Il-Rok ¹ , Kim Ki-Hun ¹ , Kwon Myung-Hee ¹ , Kim Jae-Hyung ¹ , Yi Jun-Heung ² , Kim Seung-Jin ² , You Jae-Cheon ² , Jung Dong-Hee ²
Formation and Sources	P134	PCDD/F Concentrations in the Surroundings of a Cement Kiln/Co-Processing Waste Plant in Rio de Janeiro, Brazil	Thomas Kraussa, Ana M.C.B.Bragab, Edson R. Marinsb, Gabriela Carvalhaesa and Paul Brooks
Formation and Sources	P135	HYDRO CHEMICAL MODELLING OF SECONDARY DIOXIN POLLUTION	Nikolay V. Sokolov*, Dmitry Y. Kultin, Galina L. Vidovich, Olga K. Lebedeva** and Grigory A. Bogdanovsky
Formation and Sources	P136	LEVELS OF CHLORINATED DIOXIN AND FURAN CONTAMINATION AT VARIOUS DEPTHS IN PENTACHLOROPHENOL TREATED WOOD.	Gerald L. Larsen and Vernon J. Feil
Formation and Sources	P137	SNAr Reactions in Pyridine-Containing Dioxins and Predioxins	Vladimir V.Litvak, Anton V.Litvak, and Eugenia G.Saikovich
Formation and Sources	P138	Synthesis of polyhaloid pyridine-containing predioxins	Vladimir V.Litvak, Anton V.Litvak, and Eugenia G.Saikovich,
Formation and Sources	P139	Synthesis of new dioxins	Vladimir V.Litvak, Anton V.Litvak, and Eugenia G.Saikovich,
Formation and Sources	P140	Evidence that diffuse domestic burning is an important source of PCDD/Fs and co-PCBs	Rainer Lohmann and Kevin C. Jones
Formation and Sources	P141	Long-Term Monitoring of Dioxin Emissions of a Hazardous Waste Incinerator during Lowered Incineration Temperature	Johannes Mayer,* Werner Rentschler,** Jrgen Sczech***
Formation and Sources	P142	PCDDs AND PCDFs IN VEHICLE EXHAUST PARTICLES	Yuichi Miyabara, Shunji Hashimoto, Masaru Sagai* and Masatoshi Morita
Formation and Sources	P143	DEVELOPMENT OF DIOXIN AND FURAN AIR EMISSION FACTORS FROM MUNICIPAL SOLID WASTE INCINERATORS IN REGIONE LOMBARDIA (ITALY)	Cristina Martines*, Roberto Fanelli**, Giuseppe Pastorelli***, Luigi Pistone****
Formation and Sources	P144	Effects of oxygen, sulphur dioxide, sulphuric acid and peroxides on formation of polychlorinated biphenyls (PCBs), dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) on the MWI fly ash.	R. Grabic ² , S. Marklund ^{3*} , V. Pek_rek ^{1*} , M. Pun_och__ ¹ and J. Ullrich ¹

Formation and Sources	P145	MONITORING PCDD/F DE-NOVO SYNTHESIS IN A MUNICIPAL WASTE INCINERATOR	Stefano Raccanelli, Werner Tirlir*, Maurizio Favotto, Massimo Doneg_*
Formation and Sources	P146	PCDD/F EMISSIONS DURING LIGNITE - BIOMASS WASTEWOOD CO-COMBUSTION IN A MOVING GRATE INDUSTRIAL COMBUSTOR	P. Samaras1, G. Skodras1,2, G. P. Sakellariopoulos1,2, M. Blumenstock3, K. W. Schramm3 and A. Ketttrup3
Formation and Sources	P147	Levels of Dioxins and Dibenzofurans Found in Various Environmental Sources of Contamination in Palestinian West Bank Territory	Arnold Schechter1, Hassan Dweik2, Olaf P_pke3, and Elihu Richter4
Formation and Sources	P148	Fire of a flame retarded TV	Gunilla Soderstrom and Stellan Marklund
Formation and Sources	P149	REDUCTION OF DIOXINS FROM A MUNICIPAL SOLID WASTE INCINERATOR BY NATURAL GAS REBURNING	Ryo Takeya, Yasunobu Suzuki*, Yukio Kozai** and Haruhisa Sugiyama***
Formation and Sources	P150	Dioxin countermeasure and Dioxin Emission from Small Incineration Plants	Masaru Tanaka, Takashi Ikeguchi
Formation and Sources	P151	COMPUTATIONAL PREDICTION OF THE HEATS OF FORMATION FOR GASEOUS FLUORO AND CHLOROBENZENES BY APPLYING ISODESMIC APPROACH	Kentaro Tsuchiya, Hiroumi Shiina, and Masaaki Oya
Formation and Sources	P152	STUDY ON THE EMISSION OF DIOXINS FROM VARIOUS INDUSTRIAL WASTES INCINERATORS	Katsumi Yamamura*, Takashi Ikeguchi** and Hatsuo Uehara*
Formation and Sources	P153	Prenatal and Postnatal PCB and Dioxin Exposure and Cognitive Abilities in the Dutch cohort at School Age	Hestien Vreugdenhil*, Caren Lanting**, Svati Patandin*, Rudy Boersma**, and Nynke Weisglas-Kuperus*
Formation and Sources	P154	Role of Basic Oxides on the De Novo Synthesis of PCDD/PCDF and the Influence of the Gas Phase Composition	Roland Webera, Takumi Takasugab, and Hanspaul Hagenmaierc
Formation and Sources	P155	PCDD/F Isomer Pattern in Fluidized Bed Incineration and the Correlation to the Isomer Pattern via De Novo Synthesis from PAHs	R. Weber1), F. Iino2)*, T. Imagawa3), M. Takeuchi3), T. Sakurai1), and M. Sadakata2)
Formation and Sources	P156	DE NOVO synthesis of polychlorinated dibenzofurans on fly ash from a Belgian sintering belt and its inhibition.	C_line XHROUET, Catherine PIRARD, Edwin DE PAUW
Formation and Sources	P157	UREA AS PCDD/F INHIBITOR IN INCINERATION OF RDF	Niina Yli-Keturi, P_iivi Ruokoj_rvi*, Arja Asikainen*, Juhani Ruuskanen*, Ismo Halonen** and Kari H_nninen
Formation and Sources	P158	On the mechanism of formation OF PCDD/PCDFs in thermal sources. THE Role of electronic factors	Sergei S. Yufit
Environmental Fate and Transport	P159	EFFECTS OF SEDIMENT BIOGEOCHEMISTRY ON DIOXIN DECHLORINATION PATTERNS: THE NEW YORK-NEW JERSEY ESTUARY	Adriaens, Peter, Shiang Fu, Iris D. Albrecht, and Andrei L. Barkovskii
Environmental Fate and Transport	P160	Variability In The PCB Concentrations Of Vegetation	Jonathan L. Barber, Gareth O. Thomas, Sophie A. Parkman and Kevin C. Jones
Environmental Fate and Transport	P161	Altered CB congener composition in Baltic herring indicates ongoing pollution	Anders Bignert, Mats Olsson, Lillemor Asplund*, Ulla Eriksson* and Lisbeth H_ggberg*
Environmental Fate and Transport	P162	Different regioselectivities of reductive dioxin-dechlorination by anaerobic bacteria from river sediments of the Bitterfeld district (Germany)	Michael Bunge*, Hendrik Ballerstedt* and Ute Lechner*
Environmental Fate and Transport	P163	TRENDS AND DYNAMICS OF CHLORDANES IN THE COASTAL ATMOSPHERE OF THE MID-ATLANTIC UNITED STATES	NO AUTHER
Environmental Fate and Transport	P164	Comparison of 1997 and 1998 PCB concentrations in conifer forest vegetation in the region of Swan Hills, Alberta, Canada.	Kenneth L. Froese, Jules M. Blais, Derek C.G. Muir
Environmental Fate and Transport	P165	STUDY OF THE POP ATMOSPHERIC MOBILITY BY QSAR APPROACH	Paola Gramatica, Stefano Pozzi, Federica Consolaro and Roberto Todeschini*
Environmental Fate and Transport	P166	Measurements of Octanol-Air Partition Coefficients for Chlorinated Dioxins / Furans: Applications to Describing Surface-Air Partitioning	Tom Harner, Nicholas Green and Kevin C. Jones
Environmental Fate and Transport	P167	AIR-TO-GRASS TRANSFER OF PCBs	Gian Marco Currado and Stuart Harrad*
Environmental Fate and Transport	P168	PCDDs AND PCDFs CONTAMINATION IN THE NORTHERN PACIFIC AREA REFLECTED ON SQUID LIVER TISSUES	Shunji Hashimoto*, Yasuyuki Shibata*, Hiroyuki Tanaka †, Akihiko Yatsu § and Masatoshi Morita*
Environmental Fate and Transport	P169	ENVIRONMENTAL DISTRIBUTION OF PCDD/Fs FROM VINYLCHLORIDE MONOMER PRODUCTION: CASE SK_LDVIK	Pirjo Isosaari*, Hannu Kiviranta*, Tuula Kohonen***, Veli-Pekka Salonen****, Jouko Tuomisto*, and Terttu Vartiainen*, **
Environmental Fate and Transport	P170	A Study on the Photochemical Transformation of Particle-Borne Tetrachloro-Dibenzo-p-Dioxins	Xinzhong Zhang2, Shubhen Kapila1,2, Paul Nam1, Philip Whitefield1,2 and Virgil Flanigan 1,3

Environmental Fate and Transport	P171	WATER IN SUBCRITICAL CONDITION - AN EFFECTIVE SOLVENT FOR THE EXTRACTION OF DIOXINS FROM SOILS.	V.S. Soyfer, . . . Shelepchikov*, N. . . Kluyev, B. . . Rudenko*
Environmental Fate and Transport	P172	THE LEVELS OF PCDD/FS IN FISH IN RIVER KYMIJOKI POLLUTED BY KY-5 MANUFACTURING	Markku Korhonen, Matti Verta and Jouni Lehtoranta, Hannu Kiviranta* and Terttu Vartiainen*
Environmental Fate and Transport	P173	Detailed studies of the factors controlling short-term variations of atmospheric PCDD/F concentrations	Rainer Lohmann, Nicholas J.L. Green and Kevin C. Jones
Environmental Fate and Transport	P174	Semivolatile organic chemicals (SOCs) in leaves collected in Brisbane, Australia	Jochen F. M_ller1,3, Michael S. McLachlan2, Darryl W. Hawker3, Des W. Connell3
Environmental Fate and Transport	P175	Flux and Characteristics of Atmospheric Deposition of PCDD/Fs and Coplanar PCBs in the Kanto Region, Japan	Isamu Ogura*, Shigeki Masunaga*, † and Junko Nakanishi*, †
Environmental Fate and Transport	P176	Organochlorine Pesticides in UK Air	Andrew J. Petersa, Peter Colemanb and Kevin C. Jonesa
Environmental Fate and Transport	P177	Accumulation and Partition of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/F) in different tissues of fish and their top-Predators in a heavily polluted lake Area	K.-W. Schramm1, W.Z. Wu2, Y. Xu2, B. Henkelmann1, A. Kettrup1
Environmental Fate and Transport	P178	COMPARISON OF SOIL CONCENTRATIONS OF DIOXINS AND FURANS WITH PREDICTIONS BASED ON AERIAL DEPOSITION MODELLING	Walter J. Shields, John A. Maloy,* Lisa Yost, and Daniel Peek**
Environmental Fate and Transport	P179	PCBs IN DAIRY COWS - METABOLISM AND BODY-BURDEN	G.O. Thomas, A.J. Sweetman and K.C. Jones
Environmental Fate and Transport	P180	CHROMATOGRAPHIC AND THERMODYNAMIC DATA OF DECHLORINATION REACTIONS OF POLYCHLORINATED BIPHENYLS	I- Ming Chen, Fang-Cheng Chang, Ming-Fong Hsu and Yei-Shung Wang
Inventories	P181	Sealants with PCB in Sk_rholmen, Stockholm.	Anneli _stebro
Inventories	P182	STRATEGIES USED IN THE SWEDISH DIOXIN SURVEY	Cynthia A. de Wit and Christoffer Rappe*
Inventories	P183	EXPERIMENTAL STUDY ON DIOXINS EMISSION FROM OPEN BURNING SIMULATION OF SELECTED WASTES	Takashi Ikeguchi and Masaru Tanaka
Mathematical Models	P184	Stochastic Models for Papilloma Formation Following Exposure to TCDD	Elizabeth A. Brooks, Michael C. Kohn, Ang_lique P.J.M. van Birgelen, George W. Lucier, and Christopher J. Portier
Mathematical Models	P185	Quantitative Structure/Activity Relationships for Laterally Chlorinated Dibenzo-p-Dioxins Using Spectroscopically Generated Molecular Geometry Parameters, Valence-Bond Approximations and Hvdrophobicity Parameters	James Grainger, Jacqueline Lovingood, Patricia C McClure and Donald G. Patterson, Jr.
Mathematical Models	P186	MULTIVARIATE PHYSICO-CHEMICAL CHARACTERISATION OF POLYBROMINATED DIPHENYL ETHERS (PBDE)	Mikael T Harju and Mats Tysklind
Mathematical Models	P187	Physiological Modelling Prediction of Equivalent Skin Burdens from Oral and Transdermal Doses of TCDD	Michael C. Kohn and Ang_lique P.J.M. van Birgelen
Mathematical Models	P188	A QSAR STUDY OF SOME PCBs' LIGAND-BINDING AFFINITY TO THE CYTOSOLIC Ah RECEPTOR (AhR)	David F.V. Lewis and Miriam N. Jacobs
Mathematical Models	P189	An Evaluation of EPA ' s ISCST -Version 3 Model Part 2. Deposition and Soil Concentration of Dioxins	Matthew Lorber1, Randall Robinson2, Alan Eschenroeder3
Mathematical Models	P190	An Evaluation of EPA ' s ISCST -Version 3 Model Part 1. Air Dispersion of Dioxins	Alan Eschenroeder1, Matthew Lorber2
Mathematical Models	P191	Molecular Modelling for Predicting the Toxicity of Dioxins Furans and PolyChloro Biphenyl (PCB) Compounds	Pluton Pullumbi and Ivan Milosavljevic
Mathematical Models	P192	Environmental Fate and Origin Estimation of Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by the Dynamic Multimedia Environmental Fate Model	Noriyuki Suzuki § #, Koji Tosa §, Masashi Yasuda §, Takeo Sakurai*# and Junko Nakanishi**#
Toxahene, the Underestimated pesticide	P193	ENANTIOMER RATIOS OF TOXAPHENE IN ABIOTIC AND BIOLOGICAL SAMPLES FROM LAKE SUPERIOR	Heidi Karlsson1, Derek Muir1, William Strachan1, Sean Backus1, David DeVault2 and D. ,Michael Whittle3
Toxahene, the Underestimated pesticide	P194	COMPOSITION OF CAMPHECHLOR	Vladimir A. Nikiforov*, Vladimir A. Karavan** and Sergei A. Miltsov*
Toxahene, the Underestimated pesticide	P195	RELATIVE RETENTION TIMES OF CHLORINATED TERPENES	Vladimir A. Nikiforov*, Vladimir A. Karavan** and Sergei A. Miltsov*
Toxahene, the Underestimated pesticide	P196	PCB/TOXAPHENE GROUP SEPARATION BY HP-GPC AND HPLC PRIOR TO CONGENER SPECIFIC ANALYSIS OF TOXAPHENE	Gerhard G. Rimkus and Marcus Rummler

Toxahene, the Underestimated pesticide	P197	Differentiating between sources of toxaphene transported to Lake Winnipeg during the 1997 Red River Flood	G.A. Stern , A.R. Stewart and G.T. Tomy
Toxahene, the Underestimated pesticide	P198	GC/MS ANALYSIS OF 5-exo,6-exo,8,10-TETRACHLORODIHYDRO-CAMPHENE AND A HEPTACHLORO ISOLATE FROM MELIPAX	Walter Vetter, Bernd Krock, and Bernd Luckas
Toxahene, the Underestimated pesticide	P199	Spatial and temporal trends of toxaphenes in eggs of common terns (<i>Sterna hirundo</i>) breeding at the North Sea coast of Germany	J_rgen Witte, A. B_the and W. Ternes
Endocrine Disruption	P200	LONG-TERM ENDOCRINE RELATED OUTCOMES OF 2,3,7,8-TCDD EXPOSURE: THE SEVESO MORTALITY STUDY	Andrea Baccarelli § *, Angela C. Pesatori *, Maria Teresa Landi *, Dario Consonni * and Pier A. Bertazzi *
Endocrine Disruption	P201	Determination of the estrogenic activity in effluents of a landfill leachate treatment plant analyzed by the E-screen	Peter A. Behnisch1, Kenji Fujii1, Ken SHIOZAKI2 , Isamu KAWAKAMI3 and Shin-ichi Sakai4
Endocrine Disruption	P202	QUANTITATION OF NONYLPHENOLS IN AN INDUSTRIAL TEXTILE EFFLUENT USING GC-MS AND LC-NMR	E. Benfenati*, P. Pierucci*, R. Fanelli*, A. Preiss** and K. Levsen**
Endocrine Disruption	P203	Use of synanthropic "sentinel" bird population to monitor environmental levels of EDCs: the case of the common swift (<i>Apus apus</i>)	Dr. Claudio Carere
Endocrine Disruption	P204	DIOXIN IMPACT ON MALE REPRODUCTIVE SYSTEM IN SAMARA REGION OF RUSSIA	N.P.Goncharov, A.N.Nizhnik, A.D.Dobracheva, T.N. Todua, G.V. Katsiya, N.T.Verbovaya*, A.A.Britvin*
Endocrine Disruption	P205	Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on luteal cell function. Tissue culture approach.	E.L. Gregoraszcuk., E.Zabiely., R. Piek_o., A. Grochowalski* , A.W_jtowicz., M. Mika **
Endocrine Disruption	P206	Combination effects of different ratios of PCB 153 and the phytoestrogen genistein upon DNA synthesis in an MCF-7 breast cancer cell line.	Miriam N. Jacobs* Sue Starkey** and Richard Hoffman**
Endocrine Disruption	P207	Temporal trends in human exposure to PCDD/Fs: A link with testicular cancer incidence rates?	Andrew Kibble and Stuart Harrad
Endocrine Disruption	P208	EVIDENCE FOR ESTROGENIC AND TCDD-LIKE ACTIVITIES IN EXTRACTS OF BLOOD AND SEMEN OF MEN	Miroslav Machala, Jan Vondr_cek*, Robert Ulrich, Ji__ Rube_, Radim _r_m**
Endocrine Disruption	P209	EFFECTS OF SIX XENOBIOTICS ON SURVIVAL, HORMONE CONCENTRATIONS, AND MORPHOMETRIC ENDPOINTS OF NORTHERN BOBWHITE QUAIL (<i>COLINUS VIRGINIANUS</i>)	C. Sills McMurry, John M. Matter*, Richard L. Dickerson
Endocrine Disruption	P210	EFFECTS OF BINARY MIXTURES OF SIX XENOBIOTICS ON HORMONE CONCENTRATIONS AND MORPHOMETRIC ENDPOINTS OF NORTHERN BOBWHITE QUAIL (<i>COLINUS VIRGINIANUS</i>)	C. Sills McMurry and Richard L. Dickerson
Endocrine Disruption	P211	Modifying effects of methoxychlor in uterine carcinogenesis model using heterozygous P53 deficient CBA mice treated with N-ethyl-N-nitrosourea	Kunitoshi Mitsumori, Hiroshi Onodera, Kazuo Yasuhara, Hisayoshi Takagi, Takatoshi Koujitani and Masao Hirose
Endocrine Disruption	P212	EFFECTS OF GESTATIONAL AND LACTATIONAL EXPOSURE TO 2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN ON PITUITARY AND THYROID HORMONE LEVELS IN MALE RATS	Noriko Nishimura1, Seiichiro Ohsako1,3, Shubhashish Sarkar2, Yuichi Miyabara1,3, Chiharu Tohyama1 1,3, Hideko Sone2,3 and Junzo Yonemoto2.3.
Endocrine Disruption	P213	Soot as a Source of estrogen- and Androgen Receptor Activating Compounds	Klaus Rehmman*, **, Karl-Werner Schramm** and Antonius A. Kettrup*,**
Endocrine Disruption	P214	ENDOCRINE DISRUPTORS AND HUMAN HEALTH - AN UPDATE	Stephen H. Safe
Endocrine Disruption	P215	Clinical laboratory manifestations of perinatal exposure to background levels of dioxins in Dutch children	Gavin W. ten Tusscher1, Hendrik J. Pluim2, Kees Olie3, Janna G. Koppe4
Endocrine Disruption	P216	XENOESTROGEN TISSUE CONCENTRATIONS CORRELATED TO BIOLOGICAL RESPONSES IN MICE	Elin M. Ulrich 1, Andrea Caperell-Grant 2, Ronald A. Hites 1, Robert M. Bigsby 2
Endocrine Disruption	P217	Estrogenic Potency of Individual Nonylphenol Congeners Isolated from Technical Mixtures	N. Yamashita 1, K. Kannan 2, S. Hashimoto 3, A. Miyazaki 1 and J. P. Giesy 2
Toxicokinetics	P218	ENHANCED EXCRETION OF DIOXIN BY MICE FROM INTAKE OF DIETARY FIBER BEARING LINKED PORPHYRINS	Osamu Aozasa, Tadahiro Tetsumi, Souichi Ohta, Teruyuki Nakao and Hideaki Miyata
Toxicokinetics	P219	TCDD kinetics in Seveso patients	G. Carrier1, R.C. Brunet2, P. Mocarelli3, P. Brambilla3, P. Gerthoux3, L.L. Needham4 and D.G.Patterson4
Toxicokinetics	P220	ROLE OF CYP1A2 ON TOXICOKINETIC BEHAVIOR OF PHAHS IN KNOCKOUT (CYP1A2-/-) VERSUS PARENTAL (CYP1A2+/+) STRAINS OF MICE	Janet J. Diliberto and Linda S. Birnbaum

Toxicokinetics	P221	Bioaccumulation and biotransformation of polychlorinated n-alkanes (PCAs) by juvenile rainbow trout (<i>Oncorhynchus mykiss</i>): Relationships with carbon chain length, chlorine content and Kow	Aaron T. Fisk* and Derek. C.G. Muir**
Toxicokinetics	P222	HALF-LIVES (T1/2) OF POLYCHLORINATED DIBENZO-p-DIOXINS (PCDDs) IN RATS AND HUMANS	Harald J. Geyer*, Karl-Werner Schramm*, Irene Scheunert** and Antonius Kettrup*
Toxicokinetics	P223	Comparative metabolism of polychlorinated biphenyls (Kanechlor-500) in rats, hamsters and guinea pigs	Koichi Haraguchi, Nobuyuki Koga*, Hidetoshi Yoshimura*, Hiroaki Kuroki and Yoshito Masuda
Toxicokinetics	P224	Metabolism of Tetrachlorobiphenyls by Chinese Hamster Liver Microsomes	Nobuyuki Koga*, Tomoyo Kanamaru*, Nahoko Oishi*, Hiroaki Kuroki**, Koichi Haraguchi**, Yoshito Masuda** and Hidetoshi Yoshimura*
Toxicokinetics	P225	Identification of CYPs involved in biotransformation of Ugilec 141 isomers using rat and human hepatic microsomes.	Hester J Kramer °, Henk-Jan Drenth °, Roel HLJ Fleuren °, Sander Hengeveldt °, Martin VandenBerg °, Joost DeJongh*
Toxicokinetics	P226	SELECTIVE BIOACCUMULATION OF PCBs BY PHOCIDS FROM THE ESTUARY AND GULF OF ST. LAWRENCE	Michel Lebeuf, Karen Bernt and Mike Hammill
Toxicokinetics	P227	PCBs, DDTs AND METHYLSULFONE PCB AND 4,4'-DDE METABOLITES IN CETACEANS FROM THE ATLANTIC OCEAN	R.J. Hansler*, J. Moisey*, E. Montie**, R.J. Norstrom*, J.P. Boon***, M. van den Berg, W. Seinen and R.J. Letcher
Toxicokinetics	P228	Studies on the uptake and carry over of polychlorinated dibenzodioxins and dibenzofurans from contaminated citrus pulp pellets to cows milk	W.A. Traag*1), M.J.B. Mengelers*1), C.A. Kan*1), R. Malisch*2)
Toxicology	P229	DIFFERENTIAL TOXICITIES OF TWO LOTS OF AROCLOR 1254	Deborah E. Burgin, Janet J. DilibertoH, Prasad R. Kodavantil, Linda S. BirnbaumH
Toxicology	P230	STUDY OF LONG - TERM EFFECTS OF TCDD ON THE MICROSOMAL ONOOXYGENASES OF RAT LIVER	Yuri I. Chernyak1.2 and Nina I. Portyanaya 1.2
Toxicology	P231	SENSITIVITY AND SPECIFICITY IN DETECTION OF PHARMACOLOGICAL AGENTS THAT ACTIVATE THE Ah RECEPTOR SIGNALLING SYSTEM	George C. Clark1, David J. Brown1, Shawn. D. Seidel2 Dorothy Phelan2 and Michael S. Denison2
Toxicology	P232	Interactive EffectS of three polychlorinated biphenyls on ethoxyresorufin-o-deethylase (EROD) activity IN VITRO	Elena Fattore, Mattias _berg, Niklas Johansson and Helen H_kansson
Toxicology	P233	EFFECT OF PCBs AND 2,4-DMA ON HEPATOCYTE ENZYME ACTIVITY IN RATS	Alexander Gilmanov, Guzel Abdullina and Felix Kamilov
Toxicology	P234	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Alters Epithelial Development of the Seminal Vesicles	Jonathan T. Hamm 1,2, Barney R. Sparrow 3, Douglas Wolf 2 and Linda S. Birnbaum 2.
Toxicology	P235	BEHAVIOURAL EFFECTS OF POSTNATAL EXPOSURE TO PCB CONGENERS 126 and 153 IN RATS	Edel Holene a, Inger Nafstad a, Janneche Utne Skaare a, b and Terje Sagvolden c
Toxicology	P236	Evaluation of the Mononuclear Phagocyte System State under the Influence of Dioxin-containing Herbicide Amino Salt 2,4-Dichlorophenoxyacetic acid	Elvira Imelbayeva, Svetlana Teplova*, Felix Kamilov, Artur Imelbayev
Toxicology	P237	Toxicity of dimethylammonium salt of 2,4-dichloro-phenoxyacetic acid in rats after oral administration	Dinara Kaioumova*, Farit Kaioumov** and Caner S_sal*
Toxicology	P238	Induction of hepatic microsomal UDP-glucuronosyltransferase by methylsulfonyl metabolites of polychlorinated biphenyl congeners in rats	Yoshihisa Kato a, Koichi Haraguchib, Tomoo Shibahara a, Yasuhiko Shinmura a, Yoshito Masudab, Masakuni Degawaa and Ryohei Kimuraa
Toxicology	P239	IMMUNOSUPPRESSIVE EFFECTS OF PHENYLTIN COMPOUNDS ON HUMAN NATURAL KILLER (NK) CELL FUNCTION IN VITRO	B. G. Loganathan, S. Hariharan, K. Kannan* and M. M. Whalen**
Toxicology	P240	Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin on hepatic retinyl ester hydrolase activities in the rat.	Charlotte Nilsson1, V Aza_s-Br_sco2, EH Harrison3, AM van Bennekum4, H H_kansson1 Keiko Nohara1,3, Hidekazu Fujimaki1,3, Hiroko Ushio1, Takahiro Kobayashi1,3, Shin-ichi Tsukumo1,3, Mika Kijima1,3, Yuichi Mivabara1.3. Junzo Yonemoto2.3 and Chiharu Tohvama1.3
Toxicology	P241	CHANGES IN THYMOCYTE DEVELOPMENT AND THYMIC EMIGRANTS IN RATS EXPOSED TO 2,3,7,8-TETRACHLORODIBENZO-p-DIOXIN	Oakes DJ, Pollak JK and Webster WS
Toxicology	P242	Effects of a herbicide formulation, Tordon 75D_ and its individual components on the oxidative functions of mitochondria	
Toxicology	P243	Structure-Ah Receptor Agonist/Binding Activity Relationships of Various Chlorine-Substituted Diindolymethane Compounds	Kavita Ramamoorthy, Andrew McDougal and Stephen H. Safe

Toxicology	P244	Effects of polychlorinated biphenyls on bone growth	Juliane Schaar, Anke Bernstein, Andreas K_chenhoff*, Gregor Seliger* and Werner Hein
Toxicology	P245	DO RECENT CHANGES IN TEF values have A major impact on TEQ of biological samples?	Arnold Schecter1, Linda S. Birnbaum2, and Shane U. Sheu1
Toxicology	P246	Toxicity of 3,3',4,4'-tetrachloroazobenzene and 3,3',4,4'-tetrachloroazoxybenzene in rats and mice	Ang_lique P.J.M. van Birgelen1, Charles H_bert1*, Martin L. Wenk2, Linda K. Grimes3, Robert E. Chapin1, Greg S. Travlos1, Joel Mahler1, and John R. Bucher1.
Toxicology	P247	TCDD ENHANCES TGF-a-INDUCED TRANSFORMATION OF HUMAN ENDOMETRIAL CELLS IN CULTURE	Jae-Ho Yang and Sun-Young Kim
Toxicology	P248	PALATAL RUGA ANOMALIES INDUCED BY DIOXINS IN MICE	Mineo Yasuda, Kohji A. Matsui, Toshio N. Takagi, and Keisuke Yamashita
Toxicology	P249	The oscillating recovery in cellularity of the bone marrow and CFU-GMs after intraperitoneal 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) exposure	Byung-Il Yoon, Yoko Hirabayashi, Yukio Ogawa, Jun Kanno, Tohru Inoue, Toyozo Kaneko
Mechanisms of Toxicity: New Insights on the Ah Receptor	P250	Angiogenesis gene downregulation in placenta of ARNT-deficient embryos.	Barbara D. Abbott and Angela R. Buckalew
Mechanisms of Toxicity: New Insights on the Ah Receptor	P251	Regulation of Prostaglandin Endoperoxide H Synthase-2 Induction by TCDD in Rat Hepatocytes	C. B_chle1, A.-M. Boerboom1, C. El-Bahay2, E. Gerber2, R. Kahl2, G.H. Degen3, J. Abel1, C. Vogel1
Mechanisms of Toxicity: New Insights on the Ah Receptor	P252	FUNCTIONAL STATE OF PARADONT IN RATS INTOXICATED WITH PHENOXYHERBICIDE	Alia F. Kaioumova, Rinat Z. Bouranbaev, Farit A. Kaioumov.
Mechanisms of Toxicity: New Insights on the Ah Receptor	P253	The Biochemistry of Tumor Promotion and Inhibition in PCB-dosed Rats	John F. Brown, Jr., Kenneth M. Fish, Jay B. Silkworth, and Brian A. Mayes
Mechanisms of Toxicity: New Insights on the Ah Receptor	P254	High oxidative component in the mechanisms of PCDD/F action can lead to its seeming non-mutagenicity for humans	Ludmila Khripach, Vyacheslav Zhurkov, Julia Revazova and Boris Revich*
Mechanisms of Toxicity: New Insights on the Ah Receptor	P255	ACTIVATION OF CALCIUM-DEPENDENT AND -INDEPENDENT PHOSPHOLIPASE A2 BY NON-COPLANAR POLYCHLORINATED BIPHENYLS IN RAT CEREBELLAR GRANULE NEURONS	Prasada Rao S. Kodavanti and Ethel C. Derr-Yellin
Mechanisms of Toxicity: New Insights on the Ah Receptor	P256	Metabolites of biphenyls and halogenated biphenyls: reactivity of dihydroxylated biphenyls in vitro and in vivo	Gabriele Ludewig*, Hans-Joachim Lehmler**, A. Bergman*** and Larry W. Robertson**
Mechanisms of Toxicity: New Insights on the Ah Receptor	P257	MECHANISMS OF ACTION INVOLVING REACTIVE METABOLITES AND OXIDATIVE STRESS: A THEORETICAL AND EMPIRICAL REVIEW.	Tom Muir
Mechanisms of Toxicity: New Insights on the Ah Receptor	P258	Transcriptional activation of insulin-like growth factor binding protein-4 (IGFBP-4) by 17 β -estradiol and inhibition by TCDD	Chunhua Qin and Stephen Safe
Mechanisms of Toxicity: New Insights on the Ah Receptor	P259	TCDD Localization in Centrilobular and Periportal Hepatocytes	M.J. Santostefano*, V.M. Richardson †, N.J. Walker ¶, J. Blanton †, K.O. Lindros §, G.W. Lucier ¶, S.K. Alcasey †, and L.S. Birnbaum †
Mechanisms of Toxicity: New Insights on the Ah Receptor	P260	RESVERATROL IS A COMPETITIVE ANTAGONIST ON THE ARYL HYDROCARBON RECEPTOR.	Robert F. Casper* #, Monique Quesne, Ian M. Rogers #, Takuhiko Shirota #, Andr_ Jolivet, Edwin Milgrom and Jean-Fran_ois Savouret.
Mechanisms of Toxicity: New Insights on the Ah Receptor	P261	CYP1A1 AND CYP1B1 EXPRESSION IN SPRAGUE-DAWLEY RATS FED AROCLORS 1016, 1242, 1254, AND 1260 FOR 6 MONTHS	Jay B. Silkworth, Thomas R. Sutter*, James H. Kim*, Kenneth M. Fish, John F. Brown, Jr., and Brian A. Mayes
Mechanisms of Toxicity: New Insights on the Ah Receptor	P262	The Role of CYP1A2 on Oxidative Stress following Exposure to 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Knockout (CYP1A2 $^{-/-}$) versus Parental (CYP1A2 $^{+/+}$) Strains of Mice	Brian Slezak, Janet Diliberto*, and Linda Birnbaum*
Mechanisms of Toxicity: New Insights on the Ah Receptor	P263	Different Levels of Hepatic Cytochrome P450 Induction by Equitoxic Quantities of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin Given as a Single or Multiple Doses	Vladimir V. Litvak, Vasily I. Kaledin*, Ludmila F. Gulyaeva**, Eugenia G. Saikovich, Valery P. Nikolin*, Valentin V. Vlassov
Mechanisms of Toxicity: New Insights on the Ah Receptor	P264	Ortho-Substituted Biphenyls Activate Respiratory Burst in Granulocytes from Humans	Anne Kristoffersen, _yvind A. Voie, P_I Wiik and Frode Fonnum
Mechanisms of Toxicity: New Insights on the Ah Receptor	P265	Influence of ovariectomy and 17 _-estradiol on the promotion of altered hepatocellular foci by TCDD	Michael Wyde *, George Lucier, and Nigel Walker
Mechanisms of Toxicity: New Insights on the Ah Receptor	P266	PCB-Mediated Endothelial Cell Dysfunction: Implications in Atherosclerosis	Bernhard Hennig, Rabih Slim, Michal Toborek, Alan Daugherty and Larry W. Robertson

Ecotoxicology	P267	ENVIRONMENTAL PICTURE OF PCDD/FS POLLUTION OF RECEIVING ENVIRONMENTS AND REPRESENTATIVES OF NATURAL ECOSYSTEMS IN IMPACT, BUFFER AND BACKGROUND AREAS	Zarema Amirova*, Natalia Kuramshina**, Edvard Kruglov*
Ecotoxicology	P268	LINKING HABITAT USE OF STRIPED BASS IN THE HUDSON RIVER, NEW YORK (USA) TO THE ACCUMULATION OF POLYCHLORINATED BIPHENYL CONGENERS	Joel E. Baker, Jeffrey T.F. Ashley, David H. Secor, Erik Slokovitz, and Samantha Q. Wales
Ecotoxicology	P269	FOOD CHAIN ACCUMULATION OF DDT AND SOME OF ITS METABOLITES IN FISH FROM LAKE MAGGIORE (ITALY) AFTER AN ACCIDENTAL RELEASE - EVALUATED BY THE USE OF STABLE NITROGEN ISOTOPES AND OTHER BIOTIC PARAMETERS.	Dag Broman*, Antonio Di Guardo**, Davide Calamari**
Ecotoxicology	P270	VARIATION OF ACCUMULATION AND CLEARANCE OF THE PRE DIOXIN 5-CHLORO-2-(2,4-DICHLOROPHENOXY)-PHENOL (IRGASAN DP 300, TRICLOSAN) WITH THE pH OF WATER.	Christian Schettgen, Anke Schmidt* and Werner Butte
Ecotoxicology	P271	PCDD/Fs, Non-ortho PCBs, DDTs, HCHs, CHLs, and HCB in Black-tailed Gull from Breeding Grounds, Korea	Jae-Won Choi, Muneaki Matsuda, Masahide Kawano, Byung-Yoon Min* and Tadaaki Wakimoto
Ecotoxicology	P272	4,4-DICHLORODIPHENYLETHYLENE (4.4-DDE) IS A 3-METHYLCHOLANTHRENE-TYPE INDUCER IN THE DEER MOUSE (<i>Peromyscus maniculatus</i>) BUT AN AROCLOR-LIKE INDUCER IN THE VOLE (<i>Microtus ochrogastror</i>).	Lynn T. Frame, Daam Settachan and Richard L. Dickerson
Ecotoxicology	P273	BEHAVIOUR OF 2,4-D, PROPANIL HERBICIDES AND THEIR METABOLITES AS DIOXIN CARRIERS AND PREDECESSORS IN SOIL-BOTTOM SEDIMENTS SYSTEM	Rauf V.Galiulin and Rumiya R.Galiulina
Ecotoxicology	P274	ACCUMULATION OF EXTRACTABLE ORGANIC HALOGENS (EOX) AND PERSISTENT MAN-MADE ORGANOCHLORINE COMPOUNDS BY GREY-TAILED TATTLER (<i>Heteroscelus brevipes</i>)	Masahide Kawano*, Kyosuke Yamamoto*, Yoshimitsu Shigata**, Ryo Tatsukawa* and Tadaaki Wakimoto*
Ecotoxicology	P275	CONCENTRATIONS OF METHYL SULPHONE METABOLITES OF PCBs AND DDE IN SEALS FROM THE GULF OF ST. LAWRENCE	Nathalie Prud'homme 1, Charles Brochu 1, Serge Moore 1, Michel Lebeuf 2 and Mike Hammill 2
Ecotoxicology	P276	POSTNATAL TRANSFER OF POLYBROMINATED DIPHENYL ETHER, PBDE, IN JUVENILE LONG-FINNED PILOT WHALE (<i>Globicephala melas</i>) IN THE ATLANTIC - A FATAL LEGACY	Gunilla Lindström 1*, Maria Dam**, Erika Sundelin* and Bert van Bavel*
Ecotoxicology	P277	EFFECTS OF IN VITRO EXPOSURE TO PCBs ON POLAR BEAR (<i>Ursus Maritimus</i>) LYMPHOCYTE PROLIFERATION	O. Marco Pagliarulo*, Denis Flipo*, Alexandra Lacroix*, Jason Duffe**, Malcolm A. Ramsay***, Ross J. Norstrom**, Michel Fournier****
Ecotoxicology	P278	PERSISTENT, BIOACCUMULATIVE, TOXIC CHEMICALS IN THE ECOSYSTEM OF THE BALTIC SEA (ESTONIAN DATA)	Ott Roots
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P279	CHLORINATED POLYCYCLIC AROMATIC HYDROCARBONS IN THE WASTE WATER OF PULP AND PAPER MILLS	E.S.Brodsky, N.A.Klyuev, V.S.Soyfer, V.A.Ibragimov*
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P280	ENVIRONMENTAL BASELINE LEVELS OF DIOXINS AND FURANS IN THE REGION OF OPORTO	Miguel Coutinho1, Cristina Boia2, Carlos Borrego1,2, Paula Mata1, Julieta Costa1, Ricardo Rodrigues1, Paulo Gomes1 and Madalena Neves1
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P281	ASSESSMENT OF PCDD/Fs, PCBs, AND HEAVY METALS IN SOIL: A MEASURE OF THE IMPACT OF THE INDUSTRIAL ZONE OF PORTO MARGHERA ON INLAND COASTAL AREAS OF ITALY	Stefano Della Sala1, Roberto Scazzola2, Carlo Terrabujo2, Paolo Giandon2, Richard J. Wenning3, David G. Dodge3, William J. Luksembura4. and Shellv A. Wearraff4
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P282	Monitoring PCDD/Fs in the Vicinity of an Old Municipal Waste Incinerator, 1996-1998. Part I: Soil Monitoring	Salvador Granero, Jos_ L. Domingo, Marta Schuhmacher, Juan M. Llobet and Hans A.M. de Kok*
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P283	CYCLODIENE PESTICIDE RESIDUES IN MOLLUSCS, CRUSTACEANS AND FISH IN THE GULF OF GDANSK, BALTIC SEA	Jerzy Falandysz*, Bo Strandberg**, Lidia Strandberg*, Per-Anders Bergqvist** and Christoffer Rappe**
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P284	COMPILATION OF EU DIOXIN EXPOSURE AND HEALTH DATA: ENVIRONMENTAL LEVELS	Heidi Fiedler 1, Deborah Buckley-Golder 2, Peter Coleman 2, Katie King 2, and Anne Petersen 2
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P285	Coplanar Polychlorinated Biphenyls in Soils: Contents and Patterns	Frerichs, B. Gras

Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P286	PCDD/Fs in Archived Historical Soils	Joanne L. Wooda, Nicholas J.L. Greena, A.E Johnstonb and Kevin C. Jonesa
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P287	FACTORS INFLUENCING ATMOSPHERIC CONCENTRATIONS OF PCBs	Gian Marco Currado and Stuart Harrad*
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P288	The Study on the Contents of PCDDs/PCDFs in Ambient Air, Edible Goods and Human Serum in Korea.	Yunje Kim*, Jaehoon Yu, Myungsoo Kim
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P289	Background Levels of PCDD/F in Soils of Germany	Wilhelm Knoth, Wolfgang Rotard*, Wilfried Christmann
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P290	ORGANOCHLORINE PESTICIDES AND DIOXINS IN SOILS	Komogortseva L., Prosyannikov E.
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P291	Variation of non-ortho coplanar PCBs, polychlorinated dibenzo-p-dioxins and dibenzofurans in the atmosphere	Yoichi Kurokawa*, Takahiko Matsueda, Matayoshi Nakamura, Kazumi Fukamachi
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P292	PCDD/F Emission of the French Iron and Steel Industry and Evaluation of the Impact in the Environment	Berho2, C. Le Caignec1, P. Le Lou_r2, C. Ranty2
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P293	Air - water exchange of PCDD/Fs in the Raritan Bay / Hudson River Estuary	Rainer Lohmann, Eric Nelson*, Steven J. Eisenreich* and Kevin C. Jones
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P294	DIOXINS AND CO-PLANER PCBs IN AMBIENT AIR COMPARISON OF HIGH VOLUME AND LOW VOLUME AIR SAMPLING-	Masatoshi Morita(1) , Shingo Kimura(2) , Hiroshi Noda (2), Masaki Hijiya(3) and Tohru Matsumura(3)
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P295	DETAIL SURVEY OF PCDDs, PCDFs AND NON-ORTHO COPLANAR PCBs IN AMBIENT AIR AT THE NORTHERN AREA IN OSAKA, JAPAN	Hideaki Miyata, Shigekadzu Takamitsu, Teruyuki Nakao, Osamu Aozasa and Souichi Ohta
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P296	Concentration Levels and Behavior Characteristics of PCDDs/DFs in Atmosphere	Gon Ok, Hyo-Bang Moon, Sung-Hee Ji, and Young-Ho Han
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P297	Concentration Levels and Distribution Characteristics of PCDDs/DFs in Soil from Pusan area, Korea	Gon Ok, Sung-Hee Ji, Hyo-Bang Moon and Young-Ho Han
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P298	NATIONAL ENVIRONMENTAL MONITORING IN JAPAN	Kuniaki Makiya*, Hirozo Ueda*, Takeshi Nakano**, Noriyuki Suzuki***, Kiyoshi Tanabe † and Masatoshi Morita †
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P299	Complex Pollution in Soil by Dioxin Analogues and Polycyclic Aromatic Hydrocarbons in Saitama Prefecture	Teruyuki Nakao, Souichi Ohta, Osamu Aozasa and Hideaki Miyata
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P300	Organic contaminants in natural surface soils from Svalbard	Martin Schlabach and Eiliv Steinnes*
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P301	Dioxin and Furan Concentrations in Snow of Moscow Region, Russia	S.Yu.Semenov, G.V.Zykova, V.N.Smirnov, G.G.Finakov, A.V.Koverga*, O.M.Gorban*.

Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P302	Hygienic aspects of 2,4-D employment in Ukraine.	M.G.Prodanchuk, R.Yu.Sova, E.I.Daviduk, S.V.Snoz
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P303	ECOTOXICOLOGICAL AND HEALTH EFFECTS CAUSED BY PCPs, PCDEs, PCDDs, AND PCDFs IN RIVER KYMIJOKI SEDIMENTS, SOUTH-EASTERN FINLAND	Matti Verta, Markku Korhonen, Jouni Lehtoranta and Simo Salo, Terttu Vartiainen and Hannu Kiviranta*, Jussi Kukkonen and Heikki H m l inen**. Pirio Mikkelson and Helena Palm***
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P304	Halogenated Dibenzo-p-Dioxins and Dibenzofurans in Atmospheric Deposition in an Urban Area (Osaka) in Japan	Isao Watanabe and Masahiro Ugawa
Environmental Levels (Air and Soil) of Other Organohalogenes and Dioxins	P305	A Study on the distribution of PCDDs/Fs in the leachate of open landfill site	Youngoog Lee, Incheol Ryu, Seogwon Eom, Minyoung Kim and Jaiyoung Shin
Environmental Levels in Sediment, Sewage, Sludge and Food	P306	Toxic organic microcontaminants in edible marine species from the Adriatic Sea	Susana Bayarri,* Luigi Turrio Baldassarri,** Nicola Iacovella,** Fabrizio Rodriguez,** and Alessandro di Domenico**
Environmental Levels in Sediment, Sewage, Sludge and Food	P307	Polychlorinated biphenyls in sediments of the Venice Lagoon and their toxicity with respect to other organic microcontaminants	L.G. Bellucci, S. Raccanelli*, M. Frignani, C. Carraro**
Environmental Levels in Sediment, Sewage, Sludge and Food	P308	Dioxins, Furans and PCBs Determinations in Sediment and Fish Tissue Following Forest Fires	Michael G. Ikonomou1, Stephan Gabos2, Donald Schopfloch2, Jay White3, Ellie Prepas3, Dennis Prince4, Weiping Chen2
Environmental Levels in Sediment, Sewage, Sludge and Food	P309	PRIORITY MICROCONTAMINANTS IN SEDIMENT SAMPLES FROM THE VENICE LAGOON: EXAMPLES OF VERTICAL AND HORIZONTAL DISTRIBUTIONS AND INTRA-SITE VARIABILITY	Vladimiro Bonamin,a Alessandro di Domenico,b Roberto Fanelli,cFabiola Ferri,b Luigi Turrio Baldassarri,b Giovanni Ziemacki b
Environmental Levels in Sediment, Sewage, Sludge and Food	P310	DETERMINATION OF PCDD/F AND NON-ORTHO PCB LEVELS IN TWO ENVIRONMENTS OF RIVER EBRO (SPAIN).	M. Cabes1,2, J. D_az-Ferrero1,2, R. Mart_1, F. Broto-Puig2, L. Comellas2, M.C. Rodr_quez-Larena1
Environmental Levels in Sediment, Sewage, Sludge and Food	P311	Decrease of PCDD-PCDF content in CONTAMINATED COW ' S MILK	Koenraad Duhem*, Daniel. Fraisse**
Environmental Levels in Sediment, Sewage, Sludge and Food	P312	A Compendium of World-wide Dioxin Levels	Ray K. Forrester,* Jurgen Exner,** and Sandra L. Potter*
Environmental Levels in Sediment, Sewage, Sludge and Food	P313	PCDD/PCDF LEVELS IN DAIRY PRODUCTS FROM NORTH RHINE-WESTPHALIA 1990 - 1998	Peter F_rst and Klaus Wilmers
Environmental Levels in Sediment, Sewage, Sludge and Food	P314	Polycyclic Aromatic Hydrocarbons in Water, Fish and Deer Liver Samples Following Forest Fires	Stephan Gabos1, Donald Schopfloch1, Brian R. Fowler2, Jay White3, Ellie Prepas3, Dennis Prince4, Weiping Chen 1
Environmental Levels in Sediment, Sewage, Sludge and Food	P315	Historical Record of Polychlorinated Naphthalenes in a Semi-Rural Lake Sediment, Cumbria UK	Bondi Gevao, Tom Harner and Kevin C. Jones
Environmental Levels in Sediment, Sewage, Sludge and Food	P316	PCDD/Fs and PCBs in Sediment Samples from the Venice Lagoon	Nicholas JL Green1, Joanne Wood1, Ruth E Alcock1, Antonio Marcomini2, Kevin C Jones1
Environmental Levels in Sediment, Sewage, Sludge and Food	P317	PCDD/Fs and PCBs in Aquatic Organisms from the Venice Lagoon: Spatial and Species Variations	Nicholas JL Green1, Joanne L Wood1, Ruth E Alcock1, Stephano Della Sala2, Franco D ' Andrea3, Kevin C Jones1

Environmental Levels in Sediment, Sewage, Sludge and Food	P318	Distribution Characteristics of Polychlorinated biphenyls in the marine sediments of Ulsan Bay, Korea	Jong Hak Jeong, Yeo Jeong Joo, Dong Hwan Kwak and Gi Ho Jeong
Environmental Levels in Sediment, Sewage, Sludge and Food	P319	LEVELS OF 2,3,7,8-SUBSTITUTED PCDD AND PCDF IN CETACEANS FROM THE MEDITERRANEAN SEA	B. Jim_nez1 O. Jim_nez2, S. Reich3, E. Eljarrat4 , J. Rivera4 and M.J. Gonz_lez1
Environmental Levels in Sediment, Sewage, Sludge and Food	P320	Source identification of PCDD/Fs in a sewage treatment plant of a German village	Matthias Koch1, Wilhelm Knoth2, Wolfgang Rotard1
Environmental Levels in Sediment, Sewage, Sludge and Food	P321	PCDD/Fs in sediment cores of North-East Germany	Koch, M.1, Ricking, M.2, Rotard, W.1, Mailahn, W.3, Knoth, W.4, Pribyl, J.3, Pachur, H.-J.2
Environmental Levels in Sediment, Sewage, Sludge and Food	P322	DIOXINS IN RINGED SEALS (<i>Phoca hispida</i>) FROM THE BALTIC SEA AND SPITSBERGEN	Jaana Koistinen1, Madeleine Nyman2, Eero Helle2 and Terttu Vartiainen1,3
Environmental Levels in Sediment, Sewage, Sludge and Food	P323	GERMAN-FRENCH JOINT PROJECT: PCDD/F IN FOOD SAMPLES FROM UPPER RHINE RIVER VALLEY	Rainer Malisch1), Fr_d_rique Le Querrec2), Bruno Schnepf and Daniel Fraise3
Environmental Levels in Sediment, Sewage, Sludge and Food	P324	occurrence of organochlorine pollutants in three dated sediment cores from the lagoon of Venice	Antonio Marcomini1, Vladimiro Bonamin2, Sandro Degetto3 and Andrea Giacometti1
Environmental Levels in Sediment, Sewage, Sludge and Food	P325	Historical Contribution of Different Sources to Environmental Dioxin Pollution Estimated from the Lake Shinji Sediment Core	Shigeki Masunaga1, 2, Yuan Yao1, 2, Isamu Ogura1, Satoshi Nakai1, Yutaka Kanai3, Masumi Yamamuro3, and Junko Nakanishi1, 2
Environmental Levels in Sediment, Sewage, Sludge and Food	P326	FATE OF PCDD/Fs IN THERMAL TREATMENT OF POLLUTED SEDIMENTS	R.Miglio**, C.Cozzolino*, A.Bassetti*, M.C.Cristofori***, A. Gorni***, E.Berneschi***, A.Rollo***.
Environmental Levels in Sediment, Sewage, Sludge and Food	P327	Concentration Levels and Characteristics of PCDDs/DFs in Sediment of Korea	Gon Ok, Sung-Hee Ji, Hyo-Bang Moon, Young-Seup Kim and Han-Seup Yang*
Environmental Levels in Sediment, Sewage, Sludge and Food	P328	Levels of coplanar and non-coplanar polychlorinated biphenyls (PCB) in eel and sediment samples from Berlin/Germany	L. M_ller1), F. Neugebauer1), H. Fromme2)
Environmental Levels in Sediment, Sewage, Sludge and Food	P329	Levels of Extractable Organically Bound Chlorine and Identified Organohalogen Pollutants in Baltic Sea Herring Oil, its Fractions and Rat Liver.	Mattias _berg, Natalia Stern, Helena Casabona, Niklas Johansson, S_ren Jensen*, Peter Haglund**, Helen H_kansson
Environmental Levels in Sediment, Sewage, Sludge and Food	P330	RESIDUE DEPLETION STUDY OF PCDDs AND PCDFs IN DOSED BEEF CATTLE	Stephen Thorpe, Mitchell Kelly, James Startin, Nigel Harrison* and Martin Rose
Environmental Levels in Sediment, Sewage, Sludge and Food	P331	LEVELS OF PAHs, PCBs AND CHLORINATED PESTICIDES IN BOTTOM SEDIMENTS FROM GUBA PECHENGA, THE BARENTS SEA, RUSSIA	Vladimir Savinov*, Tatiana Savinova, Salve Dahle, Gennady Matishov* and Gennady Iljin*
Environmental Levels in Sediment, Sewage, Sludge and Food	P332	DETERMINATION OF POLYCHLORINATED DIBENZO-p-DIOXIN AND DIBENZOFURAN CONGENERS IN AIR PARTICULATE AND MARINE SEDIMENT STANDARD REFERENCE MATERIALS (SRMs)	Chung H. Chiu1, Gary Poole1, Richard Turle1, W. Wayne Brubaker, Jr.2, Michele M. Schantz2, and Stephen A. Wise2
Environmental Levels in Sediment, Sewage, Sludge and Food	P333	Polycyclic Aromatic Hydrocarbons in Sediment Following Forest Fires	Weiping Chen1, Donald Schopflocher1, Brian R. Fowler2, Jay White3, Ellie Prepas3, Dennis Prince4, Stephan Gabos1

Environmental Levels in Sediment, Sewage, Sludge and Food	P334	Emission Patterns of PCDDs/PCDFs in Environmental Samples in Korea	Young Hee Chung, Sun Kyoung Shin, Seong Ki Jang, Won Seok Lee, Jae In Lee, Sang Don Kim, Dong Hoon Lee, Jin Seong Park
Environmental Levels in Sediment, Sewage, Sludge and Food	P335	SURVEY OF PCDD/F LEVELS IN UK SEWAGE SLUDGES	Joanna Stevens, Nicholas J.L.Green and Kevin C. Jones
Environmental Levels in Sediment, Sewage, Sludge and Food	P336	PCDD/Fs IN SEWAGE AND SOME PRODUCTS OF BAIKAL PULP AND PAPER MILL (BPPM).	Tarasova E.N.*, Mamontov A.A.*, Mamontova E.A.*, Amorova Z.**
Environmental Levels in Sediment, Sewage, Sludge and Food	P337	PRESENCE OF Q1, a NEW C9H3Cl7N2 organochlorine contaminant in ENVIRONMENTAL SAMPLES	Walter Vetter
Environmental Levels in Sediment, Sewage, Sludge and Food	P338	Evaluation of the MEAN content of dioxins and furans in heat treated milk at the consumption level in France	Elisabeth E. Vindel, Koenraad Duhem, Benoit Durand*, Barbara Dufour*, Jean-Pierre Guyonnet**, Daniel Fraisse*** and Fr_d_rique Le Querrec****
Environmental Levels in Sediment, Sewage, Sludge and Food	P339	Assessment of intake and related toxicity of polychlorinated biphenyls in the Italian diet.*	E. Zuccato, G. Mariani, S. Mangiapan, P. Grasso and R. Fanelli
Indoor and Occupational Pollutants	P340	Lessons from a strange case of dioxin contamination	N.Hiel §, B.Jaeger §, N.Winker §, K.Schrei §, F.Wurst*, G.Neundlinger+
POPs-International Action To Address Dioxins And Furans	P341	PERSISTENT ORGANIC POLLUTANTS: RUSSIAN REALITY	Fedorov Lev A.
POPs-International Action To Address Dioxins And Furans	P342	Canadian Environmental Quality Guidelines (water, sediment, and tissue) for Dioxins and Furans to protect aquatic life and wildlife	Susan L. Roe*, Brenda Koenig**, Howard Singleton †, Karen Keenleyside*, Donald D. MacDonald ‡, Donald E. Andersen*, Sherry L. Walker*, Lars Juergensen*, Sherri Smith*, and R. Scott Teedii.
Human Exposure	P343	Changes of biological parameters in breast-fed infants due to PCDD/PCDF/PCB background Exposure ?	Klaus Abraham, Olaf P_pke*, Ulrich Wahn and Hans Helge
Human Exposure	P344	THE INTAKE AND CLEARANCE OF PCBs IN HUMANS - A GENERIC MODEL OF LIFETIME EXPOSURE	Ruth E Alcock, Andy J Sweetman, Ching-Yi Juan and Kevin C Jones
Human Exposure	P345	Cord blood levels of PCBs, p,p'-DDE and HCB in infants born in communities adjacent to a PCB-contaminated hazardous waste site.	Larisa Altshul,1 Susan Korrick,1,2 Paige Tolbert3, Richard Monson.1,4
Human Exposure	P346	Analyzing a Substructure of Phenoxylherbicide Production Workers Cohort by the Pattern Recognition	Zarema Amirova
Human Exposure	P347	PCDD/Fs Levels in Blood and Human Milk from Urban and Rural Areas Of Bashkortostan, Russia	Zarema Amirova, Edward Kruglov, Elena Loshkina, Radic Chalilov
Human Exposure	P348	COMPILATION OF EU DIOXIN EXPOSURE AND HEALTH DATA	Deborah Buckley-Golder, Peter Coleman, Mark Davies, Katie King, Anne Petersen, John Watterson, Heidi Fiedler*, Annika Hanberg**
Human Exposure	P349	Levels of Polychlorinated Organic Compounds in Dutch mother ' s milk: Time trend analysis of dioxins by means of Physiologically Based Pharmacokinetic modelling.	Carin E.J. Cuijpers1, Marco J. Zeilmaker1, G. van der Molen2, W. Slob3 and A.K. Dijen Liem4
Human Exposure	P350	PERSISTENT ORGANOCHELORINE COMPOUNDS IN BREAST MILK FROM TWO CONSECUTIVE LACTATIONS OF THE SAME DONORS	Katarzyna Czaja, Jan K. Ludwicki, Katarzyna Goralczyk, and Pawel Strucinski
Human Exposure	P351	ANALYSIS OF ORGANOCHELORINE COMPOUNDS IN HUMAN MILK	Marie Aunea, Sam Atumaa, Per Ola Darneruda, Anders Wicklund-Glynnab and Sven Cnattingiusc
Human Exposure	P352	The significance of inhalation exposure to polychlorinated biphenyls (PCB) for the health of school children	Anna Barbara Fischer, Ilona Bleeker, Friedrich Tilkes und Thomas Eikmann
Human Exposure	P353	QUANTITATION OF MCF-7 BREAST CANCER CELL PROLIFERATION, IN VITRO, IN RESPONSE TO POLYCHLORINATED BIPHENYL MIXTURES EXTRACTED AND ANALYZED FROM HUMAN BREAST TISSUE	Regina Brierley, Ed Scollon, George Cobb, Lynn T. Frame, and Richard L. Dickerson

Human Exposure	P354	PCDD/PCDF LEVELS IN VARIOUS TISSUES FROM Sudden infant death syndrome (SIDS) CASES	Peter F_rst1, Thomas Bajanowski2, Klaus Wilmers1, Helga K_hler2 and Bernd Brinkmann2
Human Exposure	P355	Real Time Monitoring of Particulate-Bound Polycyclic Aromatic Hydrocarbons in Indoor and Outdoor Air	Dennis Prince1, Stephan Gabos2, Weiping Chen2, and Alex MacKenzie2
Human Exposure	P356	Preliminary Analysis of the Levels of PCDDs and PCDFs in the Blood of Irkutsk Region Residents	Elena Grosheva
Human Exposure	P357	Dietary exposure and human body burden to Organochlorine Pesticides and PCBs in children and women in Northern Germany	Gudrun Petzold, Maik Sch_fer, Christiane Benthe, Guido Ostendorp, Gabriele Schade*, Michael Wilhelm** and Birger Heinzow
Human Exposure	P358	Concentrations of PCDDs, PCDFs, Co-PCBs and Organochlorine pesticides in the blood and breast milk in Japanese women	Takao Iida*, Hironori Hirakawa*, Takahiko Matsueda*, Reiko Nakagawa*, Tsuguhide Hori* and Junya Nagayama**
Human Exposure	P359	RISK FACTORS FOR HIGH TCDD LEVELS IN WOMEN FROM COTTON-GROWING STATE-FARMS IN SOUTHERN KAZAKHSTAN	Kim Hooper1, Tamara Chuvakova2, Douglas Hayward3, Ying-Yin Cheng1
Human Exposure	P360	PCDD/PCDF LEVELS IN BREAST MILK FROM AN ETHNICALLY DIVERSE POPULATION NEAR A HAZARDOUS WASTE SITE IN STOCKTON, CALIFORNIA	Kim Hooper1, Myrto X. Petreas1, Jianwen She1, Pat Visita1, Mandy Mok1, Jennifer Winkler1, Michael McKinney1, Ying-Yin Cheng1, Barbara Reisberg2, Kav Ruhstaller3
Human Exposure	P361	DECREASE OF PCDDs, PCDFs AND Co-PCBs LEVELS IN HUMAN MILK FROM OSAKA (1973-1996)	Shinjiro Hori, Yoshimasa Konishi and Katuyoshi Kuwabara
Human Exposure	P362	Investigation of dietary exposure to PCDDs, PCDFs, and dioxin-like PCBs in Kyusyu district, Japan	Tsuguhide Hori*, Takao Iida*, Takahiko Matsueda*, Matayoshi Nakamura*, Hironori Hirakawa*, Kyoichiro Kataoka*, and Masatake Tovoda**
Human Exposure	P363	EXPOSURE STUDY OF WORKERS HANDLING PCB-CONTAINING WASTE	Karel Jan_k and Georg Becher*
Human Exposure	P364	A PCB INPUT-OUTPUT BALANCE ON A HUMAN	C-Y. Juan, G.O. Thomas, K.T. Semple and K. C. Jones
Human Exposure	P365	Preventive measures and their consequences on uptake and health effects of polychlorinated dibenzodioxins and -furans (PCDD/F) in workers exposed during demolition of a former pesticide producing factory	Detlev Jung*, Katrin Kraus*, Lutz Maskow**, Olaf P_pke***, Johannes Konietzko*
Human Exposure	P366	COMPILATION OF EU DIOXIN EXPOSURE AND HEALTH DATA: HUMAN EXPOSURE AND HUMAN LEVELS	Katie King1, Heidi Fiedler2 and Deborah Buckley-Golder1
Human Exposure	P367	CONCENTRATION OF POLYCHLORINATED DIBENZO-p-DIOXINS AND THEIR RELATED COMPOUNDS IN THE HUMAN BILE IN RELATION TO THOSE IN THE LIVER AND BLOOD	Kimiyoshi Kitamura*, Shaw Watanabe*, Masahito Nagahashi*, Tahei Miki*, Takehiko Yamada** and Junichi Hata**
Human Exposure	P368	Human exposure to Ky-5 originating PCDD/Fs in Kymijoki area, Finland	Hannu Kiviranta1, Matti Verta3, Markku Korhonen3, Terttu Vartiainen1,2
Human Exposure	P369	Biomonitoring study of people living near or working at a municipal solid waste incinerator, before and after two years of functioning.	CARLOS A. GONZALEZ (1), MANOLIS . KOGEVINAS (2), ENRIQUE GADEA (3), ALICIA HUICI(3), ALBA BOSCH (4) MARIA J. BLEDA (1) and OLAF P PKE (5)
Human Exposure	P370	THE AMERICAN PEOPLE ' S FINAL REASSESSMENT OF DIOXIN	Stephen U. Lester
Human Exposure	P371	TEQ Doses for CDD/Fs and PCBs General Population Exposure to Dioxin-Like Compounds in the United States During the 1990's	John Schaum1, Dwain L. Winters2, Linda Phillips3, Matthew N. Lorber1
Human Exposure	P372	PCBs in human samples	Takahiko Matsueda*, Takao Iida*, Hironori Hirakawa* and Junya Nagayama**
Human Exposure	P373	PCDD/F Levels in German Canteen Food	Richard Mayer
Human Exposure	P374	Effects of Perinatal Exposure to Dieldrin and Heptachlor Epoxide on Lymphocyte Subsets in Japanese Infants	Junya Nagayama a, Hiroshi Tsuji b, Reiko Nakagawa c, Takao Iida c, Takashi Yanagawa d, Hisaji Igarashi e, Jun ' ichiro Fukushima e and Tadavoshi Watanabe f
Human Exposure	P375	Effects of Donor Age on Frequency of Sister Chromatid Exchanges and Accumulation of Dioxins and Related Chemicals in Healthy Japanese	Junya Nagayama a, Mayumi Nagayama a, Takao Iida b, Hironori Hirakawa b, Takahiko Matsueda b, Masafumi Ohki c and Hiroshi Tsuji d
Human Exposure	P376	Effects of Perinatal Exposure to Dieldrin and Heptachlor Epoxide on Thyroid Hormone Status in Japanese Infants	Junya Nagayama a, Ken Okamura b, Reiko Nakagawa c, Takao Iida c, Takashi Yanagawa d, Hisaji Igarashi e, Jun ' ichiro Fukushima e and Tadavoshi Watanabe f

Human Exposure	P377	Indicators of exposure and disease in the late phase of dioxin poisoning	Manfred Neubergerx, Christoffer Rappexx, Andrew Smithxxx Sture Bergekxx, Reinhard J_gerxxxx, Michael Kundix, Chang Kee Limxxx and Hakan Winoforsxx
Human Exposure	P378	Distribution of PCBs, DDE, Hexachlorobenzene and Methylsulfonyl Metabolites of PCB and DDE among Lipoprotein and Protein Fractions of Human Blood Plasma	Koidu Nor_n1, Cecilia Weistrand1 and Fredrik Karpe2
Human Exposure	P379	Transfer of PCDDs, PCDFs and non-ortho Co-PCBs via Placenta from Japanese Mother Blood to Umbilical Blood as Fetus Blood	Souichi Ohta*, Ichiro Orino**, Osamu Aozasa*, Teruyuki Nakao*, Minoru Ueki** and Hideaki Miyata*
Human Exposure	P380	Secondary Exposure of Female Partners by Occupationally Exposed Workers to PCDD/Fs and b-HCH (home transfer)	Alfred Manz 1 and Olaf P_pke 2
Human Exposure	P381	PCDD/Fs in Humans, Follow up of Background Data for Germany, 1998/99	P_pke O., Herrmann Th., Schilling B.
Human Exposure	P382	INFLUENCE OF GEOGRAPHICAL AND WEATHER PATTERNS ON ENVIRONMENTAL POLLUTION BY DDT AND ITS METABOLITES IN ZIMBABWE	Ordias Chikuni*, Charles F.B. Nhachi*, Paul Neill*, Inger Nafstad**, Anuschka Polder** and Janneche Utne Skaare***
Human Exposure	P383	Dioxin in environmental, blood, breast milk, cow milk in Chapaevs town	Boris Revich1, Efim Brodsky2, Youriy Sotskov3
Human Exposure	P384	Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans in Juvenile Human Thymus	Kai Riecke, Ralf Stahlmann, Richard Palavinskas*, Vladimir Alexi-Meskishvili** and Wolfgang Mathar*
Human Exposure	P385	THE EFFECTS OF COOKING BY VARIOUS METHODS ON CONCENTRATIONS OF PCDDs AND PCDFs IN BOVINE MEAT	Stephen Thorpe, Mitchell Kelly, James Startin, Nigel Harrison* and Martin Rose
Human Exposure	P386	HEXACHLOROBENZENE AND OTHER ORGANOCHLORINE COMPOUNDS INCORPORATION TO THE NEW-BORNS AND ITS EFFECTS ON NEONATAL NEUROLOGICAL DEVELOPMENT AT 6-8 WEEKS OF LIFE.	M Sala1, N Ribas-Fit_1, E Cardo1, ME de Muga1, X Basaga_a1, C Maz_n2, E Marco3, J Sunyer1.
Human Exposure	P387	Dioxins and Dibenzofurans in THE Blood of Workers and Residents of Industrial Towns in THE Irkutsk Region of Russian Siberia	Arnold Schecter1, Elena I. Grosheva2, Olaf P_pke3, John Jake Ryan4, Zarema Amirova5, and Andrew Silver1
Human Exposure	P388	CHLORACNE AND ELEVATED Dioxin and Dibenzofuran Levels in THE Blood of two Japanese Municipal Incinerator Workers and OF THE WIFE OF ONE WORKER	Arnold Schecter1, Hideaki Miyata2, Souichi Ohta2, Osamu Aozasa2, Teruyuki Nakao2, and Yoshito Masuda3
Human Exposure	P389	Levels of Dioxins and Dibenzofurans in Breast Milk of Women Residing in Two Towns in THE Irkutsk Region of Russian Siberia	Arnold Schecter1, Elena I. Grosheva2, Nina I. Matorova3, John Jake Ryan4, Peter F_rst5, Olaf P_pke6 and Andrew Silver1
Human Exposure	P390	BACKGROUND LEVELS OF NON-ORTHO-SUBSTITUTED (COPLANAR) POLYCHLORINATED BIPHENYLS IN HUMAN SERUM OF MISSOURI RESIDENTS	Shadel BN*, Evans RG*, Roberts D**, Clardy S**, Jordan-Izaguirre D***, Patterson Jr, DG, Needham, LL
Human Exposure	P391	PCDDs, PCDFs, and PCBs concentrations in breast milk from two areas in Korea : Body burden of mothers and implications for infant feeding.	Dongchun Shin, Jiyeon Yang, Soungun Park, and Yoonseok Jang*
Human Exposure	P392	Concentration of PCBs and chlorinated pesticides in bone lipid from Irish and British men.	Stringer, R.L.,* Hodges, S.**, Santillo, D.* , Gower, M.** , Harris, M.*** , Wienburg, C.L.# & Johnston, P.A.*
Human Exposure	P393	TOTAL DIOXIN EXPOSURE ASSESSMENT: A JAPANESE CASE STUDY IN TWO AREAS CONDUCTED BY JAPAN ENVIRONMENT AGENCY	Shingo Kimura*, Hiroshi Noda*, Kiyoshi Tanabe**, Takeo Sakurai**, Noriyuki Suzuki***, Chiharu Tohyama** and Masatoshi Morita**
Human Exposure	P394	Intake of PCDDs, PCDFs and Co-PCBs in Breast-Fed Infants of Japan	Hiroshi Tada1) Seiichi Oda2), Tomoko Kitajima2), masatoshi Morita3), Koichi Nakamura4)4)
Human Exposure	P395	PRESENCE OF DIOXINS IN HUMAN FOLLICULAR FLUID: THEIR POSSIBLE STAGE-SPECIFIC ACTION ON THE DEVELOPMENT OF PREIMPLANTATION MOUSE EMBRYOS	Yasushi Takai1, Osamu Tsutsumi1,2, Hiroto Uechi1, Hideko Sone3, Junzo Yonemoto3, Mikio Momoeda1, Chiharu Tohyama4, Shunji Hashimoto5. Masatoshi Morita3 and Yuui Taketani1
Human Exposure	P396	Does perinatal exposure to background levels of dioxins have a lasting effect on the human dentition?	Mina Forouhandeh-Gever1, Gavin W. ten Tusscher2, Mathijs Westra3, Hans van der Slikke4, Kees Olie5, Janna G. Koppe6 Valic E., Jahn O.,1 Geusau A., 1 Stingl G., 2P_pke O.,3 Winker N., Wolf C.
Human Exposure	P397	TCDD Intoxication of Vienna: Viewpoint of occupational medicine	Deborah Wallace
Human Exposure	P398	Consumer Exposures to Plasticizers and Other Migrants	
Human Exposure	P399	Dietary intake of PCDD/F by small children with different food consumption measured by the duplicate method	J_rgen Wittsiepe, Petra Schrey, and Michael Wilhelm
Different Accidents	P400	Formation and Concentration Level of PCDDs/DFs by Fire Accident in Korea	Gon Ok, Hyo-Bang Moon, Sung-Hee Ji, and Young-Ho Han
Seveso	P401	Clinical and histopathological findings in Seveso chloracne	Marcello Monti, Stefania Motta, Paolo Brambilla*, Pierluigi Tramacere*, Mariangela Cazzaniga*

Seveso	P402	INCREASED D-GLUCARIC ACID EXCRETION IN SUBJECTS HIGHLY EXPOSED TO TCDD	Mariangela Cazzaniga, Paolo Brambilla, Laura Colombo, Giorgio Bellati*, Gaetano Ideo**, Larry L. Needham*** and Paolo Mocarelli
Seveso	P403	TYPES OF CHLORACNE IN SEVESO PEOPLE AND AHR GENETIC VARIABILITY	Elena Copreni, Cristina Dassi, Paolo Brambilla, Marcello Monti*, Pierluigi Tramacere and Paolo Mocarelli
Seveso	P404	AHR RESPONSE TO TCDD IN HUMANS	Cristina Dassi, Paolo Brambilla, Stefano Signorini, Donald G. Jr Patterson* and Paolo Mocarelli
Epidemiology: Recent Results and Research Paths	P405	Ten-Year Update of a Cohort Mortality Study of Workers with Potential Exposure to Higher Chlorinated Dioxins	K.M. Bodner (1), L.J. Bloemen (2), J.M. Ramlow (1), B. L. Jammer (1), J.B. Cartmill (1) M.L. Chau (3), M. L. Carson(4)
Epidemiology: Recent Results and Research Paths	P406	A PROPOSED FLUORESCENT MICROSCOPIC METHODOLOGY OF DISTINGUISHING OF DIOXIN-LIKE BIOLOGICAL EFFECTS IN WILD ANIMALS	Vladimir M. Bresler, Lev Fishelson* and Avigdor Abelson.
Epidemiology: Recent Results and Research Paths	P407	SEX RATIO OF INFANTS IN A TCDD-CONTAMINATED REGION IN SOUTHERN KAZAKHSTAN	Kim Hooper ¹ , Tamara Chuvakova ² , Ying-Yin Cheng ¹
Epidemiology: Recent Results and Research Paths	P408	Breast-fed infants possibly exposed to dioxins in milk, compared to formula-fed infants, have unexpectedly lower incidence of endometriosis in later adult life	Y.Ikezuki, O. Tsutsumi ¹ , Y. Takai, M. Momoeda, M. Ono ² , Y. Taketani
Epidemiology: Recent Results and Research Paths	P409	U. S. ARMY CHEMICAL CORPS VIETNAM VETERANS HEALTH STUDY: PRELIMINARY RESULTS	Han K. Kang, ¹ Nancy A. Dalager, ¹ Larry L. Needham, ² Donald G.Patterson,Jr, ² Genevieve M. Matanoski, ³ Sukon Kanchanaraksa ³ and Peter S.J. Lees ³
Epidemiology: Recent Results and Research Paths	P410	SERUM DIOXIN LEVEL IN RELATION TO DIABETES MELLITUS AND GLUCOSE INTOLERANCE AMONG AIR FORCE VETERANS WITH BACKGROUND LEVELS OF EXPOSURE	Matthew P. Longnecker* and Joel E. Michalek**
Epidemiology: Recent Results and Research Paths	P411	A DIOXIN DOSE-RESPONSE CALCULATION FROM PUBLISHED EPIDEMIOLOGICAL DATA	Fred Parham, Christopher Portier
Epidemiology: Recent Results and Research Paths	P412	Analysis of PCB congeners (by GC-ECD) and dioxin-like toxic equivalence (by CALUX assay) in females with endometriosis and other fertility problems	Pauwels 1, P. Cenin 2,3, A. Covaci 1, J. Weyler 4, P.J.C. Schepens 1, A. Brouwer 2,3
Epidemiology: Recent Results and Research Paths	P413	CANCER INCIDENCE IN THE SEVESO POPULATION, 1977-1991	A.C. Pesatori 1, A. Tironi 2, Consonni 2, A. Baccarelli 1, M. Rubagotti 2, S. Bachetti 1, I. Bernucci 3, M.T. Landi 4, C. Zocchetti 2, P.A. Bertazzi 1
Epidemiology: Recent Results and Research Paths	P414	Anthropometric and psychometric examinations OF conscripts born to mothers with a high intake of fish contaminated with persistent organochlorines	Lars Rylander, Lars Hagmar
Epidemiology: Recent Results and Research Paths	P415	Vietnamese Dioxin Blood AND MILK Levels 1970-1999 and implications for future epidemiology studies	Arnold Schecter ¹ , Le Cao Dai ² , Lori Fischbach ¹ , and Olaf P_pke ³
Epidemiology: Recent Results and Research Paths	P416	Prenatal and Postnatal PCB and Dioxin Exposure and Cognitive Abilities in the Dutch cohort at School Age	Hestien Vreugdenhil*, Caren Lanting**, Svati Patandin*, Rudy Boersma**, and Nynke Weisglas-Kuperus*
Epidemiology: Recent Results and Research Paths	P417	IMMUNOLOGICAL EFFECTS OF BACKGROUND EXPOSURE TO POLYCHLORINATED BIPHENYLS AND DIOXINS IN DUTCH TODDLERS	Nynke Weisglas-Kuperus, Svati Patandin, Guy Berbers*, Theo Sas, Paul Mulder **, Pieter Sauer, Herbert Hooijkaas***.
Risk Assessment and Risk Management	P418	DIOXIN FREE QUALITY MARK: WHY NOT?	Vladimiro Bonamin, Stefano Raccanelli*
Risk Assessment and Risk Management	P419	PRIORITY MICROCONTAMINANTS IN THE VENICE LAGOON: THE JOINT EFFORT OF THE ITALIAN MINISTRY OF THE ENVIRONMENT AND THE NATIONAL INSTITUTE FOR HEALTH TO DEFINE EXPOSURE AND RISK SCENARIOS	Terri Ballard, Massimo Cardelli, Alessandro di Domenico, Elena De Felip, Fabiola Ferri, Anna Rita Fulgenzi, Nicola Iacovella, Roberto Miniero, Luigi Turrio Baldassarri, Giovanni A. Zapponi, Giovanni Ziemacki
Risk Assessment and Risk Management	P420	The Use of Monte Carlo Simulation Techniques for Risk Assessment: Study of a Municipal Waste Incinerator	Montse Meneses, Marta Schuhmacher, Salvador Granero, Juan M. Lobet, and Jos_ L. Domingo
Risk Assessment and Risk Management	P421	EFFECTS of emission reductions of Dioxins and related compounds on sediment concentrations and (eco)toxicological risks in the Netherlands	Wiegert J. Dulfer*, Cees van de Guchte**, and Erik H.G. Evers*
Risk Assessment and Risk Management	P422	Hydro Priority Pollutants (HPP) - a chemical ranking and scoring system for effective risk management.	Jorunn Gundersen, Sigrun Einarson, Unni Ingvild Musdalslien, Hans J_rgen Hegg, Kristin Eide Lunde, H_kon Oskar Halvorsen
Risk Assessment and Risk Management	P423	RISK ASSESSMENT TO THE PCDD/Fs DERIVED FROM THE AMBIENT AIR OF CITY IN KOREA	Hyomin Lee, Myungsoo Kim*, Dongchun Shin**, Yong Chung**, Shindo Kim***

Risk Assessment and Risk Management	P424	An Innovative Injury Quantification Approach for Organisms Exposed to AhR Active Compounds	David F. Ludwig*, Timothy J. Iannuzzi*, Kurunthachalam Kannan**, John P. Giesy**, Stephen H. Safe***, Linda M. Schmeising****, Nicholas W. Gard****, Michael L. Moore****, and Kevin T. Connor*.
Risk Assessment and Risk Management	P425	Assessment of Dioxin-like Effect of Ash Extracts - Comparison of Chemical Analysis and In Vitro Bioassay -	Mitsuaki Matsui , Yuji Kashima, Masahide Kawano*, Morio Ueda*, Toshiki Tojo*, Genta Takahashi*, Muneaki Matsuda*, Rikuo Doi, Tadaaki Wakimoto*
Risk Assessment and Risk Management	P426	A RETROSPECTIVE SOCIO-ECONOMIC OVERVIEW OF CONTROL MEASURES FOR CHLORINATED SUBSTANCES.	Tom Muir, Environment Canada, Ontario Region, 867 Lakeshore Road, Burlington, Ontario, Canada.
Risk Assessment and Risk Management	P427	HEALTH RISK ASSESSMENT OF DIOXIN EXPOSURE: THE NEERLAND-WIJK (WILRIJK, BELGIUM)	Johan Nouwen, Christa Cornelis, Raf De Fr_, Pierre Geuzens
Risk Assessment and Risk Management	P428	ATSDR ' s Guidance Values for Dioxins	H. R. Pohl, J. Holler, C.T. De Rosa
Risk Assessment and Risk Management	P429	Evaluation of the U.S. EPA ' s " Human Health Risk Assessment Protocol for Hazardous Waste Combustion Facilities " , with Emphasis on PCDD/PCDFs	Richard O. Richter (1) and Dennis J. Paustenbach (2)
Risk Assessment and Risk Management	P430	Uncertainty analysis of dioxin toxicity - its implication to human risk assessment	Jun Sekizawa*, Kiyoshi Imai**, Yukie Ohya*
Risk Assessment and Risk Management	P431	Dioxins and other carcinogenic substances in life-cycle work (assessment of relative risk potential)	Ernst-Josef Spindler, Manfred Engelmann
Risk Assessment and Risk Management	P432	Uncertainties in the Toxic Equivalency Factor concept: Future directions	Ang_lique P.J.M. van Birgelen
Risk Assessment and Risk Management	P433	Hexachlorobenzene is also a dioxin-like compound: Possible impact on the TEQ	Ang_lique P.J.M. van Birgelen
Risk Assessment and Risk Management	P434	State of affairs with regard to the dioxin contamination of animal feed in Belgium (the Belgian dioxin affair)	M.J.B. Mengelers, L.A.P. Hoogenboom and W.A. Traag
Risk Assessment and Risk Management	P435	Assessment of human risk for adverse effects of endocrine active environmental organohalogenated substances (OHS). Effects of perinatal exposure to OHS in human infants	Shalini Soechitram, _ke Bergman*, Bram Brouwer** and Pieter J.J. Sauer for the RENCO-studygroup