

ISEAC-38 | 17-20 June 2014, EPFL, Lausanne
Scientific Program | General time schedule

MONDAY JUNE 16 2014

Time	Reception Hall
17:00 - 19:00	Symposium Registration and Welcome reception

TUESDAY JUNE 17 2014

08:00-09:00	Environmental / Food Registration		Reception Hall
09:00-09:10	Opening Ceremony		
	ROOM B (Level 0) Environmental		ROOM C (level 1) Food
	Analytical Challenges		Contaminants & Residues
09:15 - 09:45	Integrated electrochemical sensor probes for autonomous in situ mapping of inorganic chemical compounds Marie-Lou Tercier-Waeber	09:15 - 09:45	Studies on the extractability of incurred pesticides using Quechers Michelangelo Anastassiades
09:45 - 10:05	PORPHYRINS IN SENSING APPLICATIONS E. Fagadar-Cosma, D. Vlascici, R. Cristescu and G. Fagadar-Cosma	09:45 - 10:05	ANALYSES OF HONEY BY QUECHERS-LC/GC-MS-MS: DETECTION OF INSECTICIDES (NEONICOTINOIDS, PYRE-THROIDS AND PYRAZOLES), AND IMPLICATIONS FOR BEE COLLAPSES AND FOR FOOD SAFETY J.M. Bonmatin, D. Paradis, G. Bérail and L.P. Belzunces
10:05 - 10:25	HPLC-ICP-AES BASED METHODOLOGY FOR CADMIUM SPECIATION IN FLOATING MACROPHYTES T.E. Romanova, O.V. Shuvaeva	10:05 - 10:25	ANALYSIS OF MIGRATING COMPOUNDS FROM PLASTIC BABY BOTTLES WITH GC-MS, GC-(Q)TOF MS AND LC-QTOF MS M. Onghena, E. Van Hoeck, J. Van Loco, M. Ibáñez, L. Cherta, T. Portolés, E. Pitarch, F. Hernández, A. Covaci

10:25 - 10:45	A NOVEL MICROFLUIDIC DEVICE FOR FAST EXTRACTION OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) FROM ENVIRONMENTAL WATERS – COMPARISON WITH STIR-BAR SORPTIVE EXTRACTION (SBSE) L. Foan, S. Vignoud, F. Ricoul and G. Marchand	10:25 - 10:45	SIMULTANEOUS DETERMINATION OF HIGHLY POLAR PESTICIDES in FRUITS AND VEGETABLES by LC-MS/MS C. Díez, A. Staub Sporri, E. Cognard, D. Ortelli, P. Edder and S. Rudaz
10:45 - 11:05	Coffee break	10:45 - 11:05	Coffee break
11:05 - 11:35	Nanotechnology versus Nanotoxicology: Controversial Aspects of Nanotechnological Applications Harald Krug	11:05 - 11:35	Advances in Rapid Testing Technologies for Food Safety and Quality Assessment Franz Ulberth
11:35 - 11:55	FIELD-FLOW FRACTIONATION USING ROTATING COILED COLUMNS IN THE ANALYSIS OF ENVIRONMENTAL PARTICULATE SAMPLES P.S. Fedotov, M.S. Ermolin and O.N. Katasonova	11:35 - 11:55	ACCELERATED DISCOVERY AND PROFILING OF PHARMACOLOGICALLY ACTIVE FOOD - INTRODUCING A NOVEL WORKFLOW FOR FOODOMICS. G. E. Morlock and I. Klingelhoef
11:55 - 12:15	A NOVEL METHOD FOR DIRECT DETECTION OF SILVER NANOPARTICLES IN SOLID SAMPLES K. Leopold and N. Feichtmeier	11:55 - 12:15	ANALYSIS OF PRIMARY AMINES FROM NYLON FOOD UTENSILS BY LIQUID CHROMATOGRAPHY-ORBITRAP HIGH RESOLUTION MASS SPECTROMETRY Y. Sanchis, C. Coscollà, and V. Yusà
12:15 - 12:35	DEVELOPMENT OF A NEW METHOD FOR ON-SITE MERCURY EXTRACTION FROM WATERS BASED ON GOLD NANOPARTICLE ADSORBERS J. Huber, M. Schlathauer and K. Leopold	12:15 - 12:35	TARGETED SCREENING AND QUANTIFICATION OF PCB AND DIOXINS IN VARIOUS FOODSTUFFS BY PTV LARGE VOLUME INJECTION COUPLED TO GC-MS/MS N. H. Ho, A. Bugey, P. Zimmerli, J. Nançoz, D. Ortelli and P. Edder

Lunch break

ISEAC-38 | 17-20 June 2014, EPFL, Lausanne
Scientific Program | General time schedule

14:00 - 14:20	Sponsor scientific talk: FROM DIRT TO DATA – OVERCOME THE BOTTLENECK IN EVERYDAY SIMPLE PREPARATION TASKS USING BUCHI SOLUTIONS Susanne Feifel, Product Group Manager, BÜCHI Labortechnik AG Flawil, Switzerland	14:00 - 14:20	Sponsor scientific talk: TRENDS IN QUALITY MANAGEMENT FOR FOOD – A SERVICE PROVIDER PERSPECTIVE Dr. Christian Hummert, Director AGRI and CTS Food, SGS Germany , Hamburg, Germany
	Sampling		Food Authenticity 1: Genomics and Proteomics
14:20 - 14:50	Understanding phytoplankton community dynamics using in situ high-resolution automated monitoring Francesco Pomati	14:20 - 14:40	FOODOMICS – PROTEIN / PEPTIDE BIOACTIVES AND THEIR HEALTH EFFECTS M. Kussmann, A. Panchaud and Michael Affolter
14:50 - 15:10	DEVELOPMENT OF A PASSIVE SAMPLER FOR THE QUANTIFICATION OF INORGANIC MERCURY AND METHYLMERCURY IN FRESHWATERS A. Magnier, A. Dabrin, G. Grisot and M. Coquery	14:40 - 15:00	PICOSECOND INFRARED LASER (PIRL) AS A NOVEL TOOL FOR BIOMOLECULE EXTRACTION M. Wurlitzer, M. Kwiatkowski, L. Ren, R.J.D. Miller and H. Schlüter
15:10 - 15:30	FIBER-OPTIC CHEMIFLUORESCENT IMMUNOASSAY FOR CONTINUOUS MONITORING OF AIRBORNE MITE ALLERGEN DER F1 K. Miyajima, Y. Suzuki, D. Miki, M. Arai, K. Toma, T. Arakawa, H. Shimomura and K. Mitsubayashi	15:00 - 15:30	Ultrabarcoding: current applications and future potential of genomic technology for high resolution identification of biological materials Quentin Cronk
15:30 - 15:50	MULTI-RESIDUE ANALYSIS OF EMERGING POLLUTANTS IN BENTHIC INVERTEBRATES BY MODIFIED MICRO-QUECHERS EXTRACTION AND NANOLC- MS/MS ANALYSIS: A NEW STRATEGY TO EVALUATE BIOACCUMULATION. A. Berlioz-Barbier, A. Buleté, E. Vulliet and C. Cren	15:30 - 15:50	DNA-BASED FOOD AUTHENTICITY CONTROL BY CLASSICAL AS WELL AS ISOTHERMAL AMPLIFICATION METHODS AND NEXT GENERATION SEQUENCING I. Haase, T. Janke, K. Juling, C. Käppel, R. Schubbert and S. Schulz

15:50 - 16:10	POPULATION NORMALIZATION WITH AMMONIUM (NH ₄ -N) IN WASTEWATER-BASED EPIDEMIOLOGY. F. Been, L. Rossi, C. Ort, S. Rudaz, O. Delémont and P. Esseiva	15:50 - 16:10	APPLYING POPULATION GENETICS FOR AUTHENTICATION OF MARINE FISH K. Behrmann, M. Fischer and H. Rehbein
16:10 - 18:00	Exhibition & Poster session		
18:00 - 19:30	Social event <i>Tasting of vaudois wines</i>		

WEDNESDAY JUNE 18 2014

	ROOM B (level 0) Environmental		ROOM C (level 1) Food
	Multi screening methods		Food Authenticity 2: Metabolomics
09:00 - 09:30	Contaminant diversity of the aquatic environment Heinz Singer	09:00 - 09:30	New insights into Food Quality Control by NMR Based Screening Manfred Spraul
09:30 - 09:50	A MULTI-RESIDUE METHOD FOR ANALYSIS OF VARIOUS ENDOCRINE DISRUPTORS IN INDOOR AND OUTDOOR AIR E. Moreau-Guigon, F. Alliot, J. Gasperi, M.J. Teil, M. Blanchard, C. Mandin, M. Chevreuil	09:30 - 09:50	VALIDATION OF 1H NMR METHODS FOR JUICE AND WINE ANALYSIS Y. B. Monakhova, B. Schütz, H. Schäfer, M. Spraul, T. Kuballa, R. Godelmann, H. Hahn, D. W. Lachenmeier
09:50 - 10:10	IMPLEMENTATION OF COMPLEMENTARY MONITORING STRATEGIES FOR AN EFFECTIVE SURVEY OF PSYCHOTROPIC DRUGS AND METABOLITES IN DRINKING WATER TREATMENT PLANTS IN THE PARISIAN AREA G. Lavisson-Bompard, S. Lardy-Fontan, V. Brièudes, P. Candido, M. Joyeux, B. Lalere and H. Budzinski	09:50 - 10:10	FOOD ANALYSIS TO CHECK QUALITY, SAFETY AND AUTHENTICITY BY FULL-AUTOMATED 1H-NMR M. Link, M. Spraul, H. Schaefer, F. Fang and B. Schuetz
10:10 - 10:30	SCREENING TOWARDS PHARMACEUTICAL RESIDUES IN WASTEWATER BASED ON ACCURATE MASS AND ISOTOPIC PATTERN USING HIGH-RESOLUTION ORBITRAP MASS SPECTROMETRY L. Vergeynst, H. Van Langenhove	10:10 - 10:30	FOOD PROFILING: AUTHENTICITY CONTROL BY UPLC-ESI-UHR-QTOF MASS SPECTROMETRY P. Werner and M. Fischer

ISEAC-38 | 17-20 June 2014, EPFL, Lausanne
Scientific Program | General time schedule

	and K. Demeestere		
10:30 - 10:50	Coffee break	09:30 - 10:50	Coffee break
10:50 - 11:20	Development of passive samplers for a better assessment of the chemical water quality : application to pesticides and pharmaceutical compounds Hélène Budzinski	10:50 - 11:20	OMICS approaches in food safety: from research tool to routine diagnostic Martin Wiedmann
11:20 - 12:40	Selected poster talks ENVIRONMENT	11:20 - 12:40	Selected poster talks FOOD

Lunch break

	ROOM B (level 0) Environmental & Food
	Emerging technologies for environment & food analytics 1
14:00 - 14:30	Isotopes and elements Markus Boner
14:30 - 14:50	SIMPLE AND INEXPENSIVE METHOD FOR ANALYSIS OF LIQUID SAMPLES S. Pihlasalo, Å. Rinnan, N. Kiskonen, N. Hollo, J. Nurmi, P. Hänninen, and H. Härmä
14:50 - 15:10	ELEMENTAL PROFILING BY ICP-AES COMBINED WITH SEPARATION AND CHEMOMETRIC TOOLS IN BOTANICAL ORIGIN DETERMINATION S. Rončević, L. Pitarević Svedružić, I. Nemet, T. Hudina, and B. Mitić
15:10 - 15:30	IMPROVING THE COMPARABILITY OF ANALYTICAL ENVIRONMENTAL MEASUREMENTS BY THE IMPLEMENTATION OF A METROLOGICAL INFRASTRUCTURE J. Cabillic, C. Fallot, B. Lalere and S. Vaslin Reimann
15:30 - 15:50	TRANSFORMATION OF DRUGS OF ABUSE DURING WATER CHLORINATION: A LIQUID CHROMATOGRAPHY-QUADRUPOLE-TIME- OF-FLIGHT-MASS SPECTROMETRY ASSESSMENT J.B. Quintana, I. González-Mariño, J.B. Quintana, I. Rodríguez and R. Cela
15:50 - 16:10	DEDICATED REFERENCE MATERIALS AS A N ESSENTIAL TOOL FOR QUALITY CONTROL IN ENVIRONMENTAL RESEARCH (project MODAS) M. Rutkowska, K. Dubalska, P. Konieczka and J. Namieśnik
16:10 - 16:45	Coffee break
16:45 - 18:00	Public lecture Title: Science meets public Subtitle: Food Safety: Simple Goals - Complicated Realities Dr. Steven Musser , Deputy Center Director for Scientific Operations, Center for Food Safety and Applied Nutrition, Food & Drug Administration (FDA, USA)
19:15 - 23:30	Social event <i>Gala dinner during a cruise on the lake Geneva</i>

THURSDAY JUNE 19 2014

10:00 - 12:30	<p>Think Tank - Food safety in a global market: Challenges for authorities, food industry and analytical strategies</p> <p>Anchorman: Prof. Dr. Ulrich Noehle (Germany)</p> <p>Participants:</p> <p>ELKE ANKLAM, PhD, European Commission, Directorate General Joint Research Centre, Institute for Reference Materials and Measurements (Belgium)</p> <p>MICHAEL BEER, Director Food Safety Division, Federal Office of Public Health (Switzerland)</p> <p>ANTHONY HUGGETT, Head Corporate Quality Management, Nestlé (Switzerland)</p> <p>CHRISTIAN HUMMERT, Ph.D., Director AGRI and CTS Food, SGS Germany (Germany)</p> <p>STEVEN MUSSER, Ph.D., FDA (Food & Drug Administration), Deputy Center Director for Scientific Operations, Center for Food Safety and Applied Nutrition, FDA (USA)</p> <p>SILVIO RAGGINI, Head Quality Management, COOP (Switzerland)</p> <p>REINER WITTKOWSKI, Ph.D, Prof., Vice President, BfR (Federal Institute for Risk Assessment) BfR (Germany)</p>
------------------	---

Lunch break

	Emerging technologies for environment & food analytics 2
14:00 - 14:30	Safety of food packaging materials from a food manufacturer perspective: Integrating analytical chemistry, biological activity (computational) toxicology and risk assessment. Amaury Patin
14:30 - 14:50	CHEMICAL ANALYSIS AND RISK ASSESSMENT OF PHTHALATES IN FOODS M. Kim, J.-M. Oh, H.-S. Lim and J.-C. Choi
14:50 - 15:10	HOTMELTS: ADHESION WITH RISK OF CONTAMINATION? M. Lommatzsch, T. Simat, M. Biedermann and K. Grob
15:10 - 15:30	Coffee break
15:30 - 16:00	Emerging technologies in mid-infrared sensing for environmental and food analysis Boris Mizaikoff
16:00 - 16:20	MERCURY SPECIATION IN URBAN DUST AFFECTED BY GOLD MINING – CHARACTERISATION, MODELLING, AND ASSESSMENT OF BIOAVAILABILITY. E.M. Cukrowska, J. Lusilao-Makiese Julien, B. Yalala, H. Tutu, and L.K. Chimuka
16:20 - 16:40	DEVELOPMENT OF A NEW PASSIVE SAMPLER BASED ON DIFFUSIVE MILLI-GEL BEADS FOR THE MEASUREMENT OF LABILE COPPER IN VINEYARD SOIL M. Perez, S. Reynaud, G. Lespes, M. Potin-Gautier, E. Mignard, P. Chéry, D. Schaumlöffel and B. Grassl
16:40 - 17:15	R. Frei Awards
17:30 - 18:25	IAEAC General Assembly Open to everybody, right of vote only for IAEAC members

ISEAC-38 | 17-20 June 2014, EPFL, Lausanne
Scientific Program | General time schedule

FRIDAY JUNE 20 2014

	ROOM B (level 0) Environmental & Food
	Emerging technologies for environment & food analytics 2
09:00 - 09:30	Microfluidic nanofiber-based biosensor systems Baumner, A.J.
09:30 - 09:50	APTAMERS: NOVEL APPLICATIONS FOR FOOD ANALYSIS T. Huenniger and M. Fischer
09:50 - 10:10	RAPID AND SELECTIVE BACTERIA DETECTION USING CONDUCTIVE POLYMER FILMS S. Tokonami, H. Nakata, M. Ikemoto, T. Kadoma, S. Takami, H. Shiigi and T. Nagaoka
10:10 - 10:30	ELECTROCHEMICAL BIOSENSORS FOR ENVIRONMENT AND FOOD SAFETY J. Rishpon, M. Buch, A. Nassar, O. Sela and M. Mossberg
10:30 – 10:50	Coffee break
10:50 – 11:10	BIOMONITORING SURVEY OF RESIDENTS AND EMERGENCY RESPONDERS EXPOSED TO ACRYLONITRILE AFTER THE TRAIN DISASTER IN WETTEREN (BELGIUM) J. Van Loco, T. De Smedt, K. De Cremer, S. Fierens, C. Vleminckx, I. Van Overmeire, G. Gijs, A. Van Nieuwenhuysse and H. Van Oyen
11:10 - 11:30	TRACE ANALYSIS OF CONTAMINANTS OF EMERGING CONCERN (CECs) IN PLANT TISSUES J. Gan, X.Q. Wu, and J. Conkle
11:30 - 11:50	THE ISO PROJECT “TECHNICAL SPECIFICATION FOR THE USE OF TXRF IN BIOLOGICAL AND ENVIRONMENTAL ANALYSIS” A. Gross, L.E. Depero, L. Borgese, K. Tsuji, T. Yamada, E. Margui and C. Strelti
11:50 - 12:30	Closing ceremony

30.5.2014/sd/mf