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Scientific Programme

Monday, 6 July

Time	Session	Speaker	Title
09:00–09:30	Opening		
Session 1		<i>Chair: Dasgupta P., Chocholouš P.</i>	
09:30–10:05	KL01	Růžicka J.	Flow programming – the future of flow analysis
10:05–10:20	OP01	Marshall G.	The optimal use of three dimensional space in the miniaturization of next generation flow instrumentation
10:20–10:40	IL01	Segundo M.A.	Improvement of analytical performance through reaction time control using flow-based methods
10:40–11:00	Coffee break		
Session 2		<i>Chair: Segundo M.A., Anthemidis A.</i>	
11:00–11:20	IL02	Kolev S.D.	Application of flow analysis sample pretreatment processes on a paper-based platform
11:20–11:40	IL03	Nacapricha D.	Contactless conductivity-based device for particle and cell sensing
11:40–12:00	IL04	Imato T.	Flow analysis using streams driven by centrifugal force
12:00–12:15	OP02	Elsholz O.	Low budget photometrical flow through detector
12:15–12:30	OP03	Santos I.	Flow injection coupled to electrospray ionization mass spectrometry for non-covalent binding determinations
12:30–12:45	OP04	Zagatto E.A.G.	Influence of flow pattern (constant or pulsed) in flow systems with gas diffusion
12:45–13:00	OP05	Šatinský D.	On-line solid phase extraction in SIC and HPLC – methods comparison
13:00–14:00	Lunch		
14:00–15:30	Poster session 1	P01–P29, P88	
Session 3		<i>Chair: Kolev S.D., Šatinský D.</i>	
15:30–16:05	KL02	Švec F.	Monolithic polymers in various formats for sample preparation and separation
16:05–16:40	KL03	Dasgupta P.	Novel ion detectors for chromatography/flow analysis
16:40–16:55	OP06	Fuh M.	Microfluidic liquid chromatography tandem mass spectrometry for food analysis
16:55–17:10	OP07	Batista A.D.	On-column preconcentration in sequential injection chromatography
17:10–17:25	OP08	Chocholouš P.	Coupled preconcentration with fluorescence detection in the lab-on-valve format for subnanomolar Zn determinations in seawater
17:25–17:40	OP09	Ayala A.	Spectrophotometric determination of palladium using 5-Br-PSAA by simultaneous injection effective mixing flow analysis
17:40–17:55	OP10	Amatatongchai M.	An amperometric flow injection analysis of glucose using a biosensor based on CNT-PDDA-PtNPs-modified carbon paste electrode

Tuesday, 7 July

Time	Session	Speaker	Title
Session 4		Chair: Miró M., Imato T.	
09:00–09:35	KL04	McKelvie I.	Water quality assessment by flow analysis: Game over or game on?
09:35–09:55	IL05	Worsfold P.	Fit for purpose flow injection techniques for the determination of trace metals in seawater
09:55–10:15	IL06	Rangel A.O.S.S.	Exploring 3-hydroxy-4-pyridinone chelators synthetic versatility to attain tailor made low toxicity chromogenic reagents for iron speciation in water samples
10:15–10:30	OP11	Luttmann R.	Applications of flow analysis systems in bioreactor monitoring and control
10:30–10:50	Coffee break		
Session 5		Chair: Rangel A.O.S.S., Sklenářová H.	
10:50–11:10	IL07	Teshima N.	Flow chemical analysis methods for water quality assessment
11:10–11:30	IL08	Anthemidis A.	Lab-In-SyringeA smart & green tool for automation and miniaturization of sample pretreatment
11:30–11:45	OP12	Nalewajko-Sieliwoniuk E.	Application of direct-injection detector integrated with the multi-pumping flow system to chemiluminescence determination of the total polyphenol index
11:45–12:00	OP13	Ito K.	Simultaneous and selective determination of nitrite, nitrate, and ammonium ions in seawater samples
12:00–12:15	OP14	Wieczorek M.	Flow manifold dedicated to determination of chromium with the use of innovative capacitance measurements method
12:15–12:30	OP15	Świt P.	Novel sequential-injection manifold for two-component generalized calibration strategy
12:30–12:45	OP16	Sulistiyarti H.	Extractionless-flow injection-indirect spectrophotometry for mercury(II) determination based on the formation of tetra-iodo-mercury(II) and starch-iodine complexes
12:45–13:00	OP17	Tsunoda K.	Electrospray ionization mass spectrometry using dehydration reaction at the interface as a new detection method of inorganic oxyanions
13:00–14:00	Lunch		
14:00–15:30	Poster session 2	P30–P59	
Session 6		Chair: Teshima N., Poláček M.	
15:30–16:05	KL05	Miró M.	Bead injection in mesofluidic platforms: tips and tricks
16:05–16:25	IL09	Macka M.	Flow analysis and portable capillary liquid chromatography using a modular flexible microfluidic open platform based on off-the-shelf components
16:25–16:40	OP18	Sklenářová H.	Sequential injection system as a monitoring tool for permeation studies
16:40–16:55	OP19	Jakmunee J.	Small scale flow injection system for high throughput determination of chemical oxygen demand (COD)
16:55–17:10	OP20	Almeida M.I.	Development of a paper-based microfluidic sensor for the determination of aldehydes in saliva samples
17:10–17:25	OP21	Ishimatsu R.	Flow Immunoassay of Immunoglobulin A Using Carbon Nanodots
17:25–17:40	OP22	Tsukagoshi K.	Tube radial distribution phenomenon using various types of mixed solvent solutions and its application to separation analysis
17:40–17:55	OP23	Suwanrut J.	Schlieren effect in liquid flow for thermal sensing
17:55–18:10	Announcement	Townshend A.	Elsevier announcement

Wednesday, 8 July

Time	Session	Speaker	Title
08:00–18:00	Outside workshop		

Thursday, 9 July

Time	Session	Speaker	Title
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Session 7 Chair: Kościelniak P., Bulatov A.V.

09:00–09:35	KL06	Cerdà V.	Chips and Tricks: How to build and use microfluidic systems in Flow Analysis
09:35–09:55	IL10	Santos J.L.M.	Chemo-sensing based on analyte-triggered modulation of CdTe quantum dots photoluminescence
09:55–10:15	IL11	Wang J.	Advances in selective protein isolation from complex sample matrixes with carbon nanostructures as sorbents
10:15–10:30	OP24	Satoh I.	Use of carbon fibers as supporting materials for flow-injection analyses of bio-related substances
10:30–10:50	Coffee break		

Session 8 Chair: Cerdà V., Nacaprícha D.

10:50–11:10	IL12	Zagatto E.A.G.	Flow analysis reaches maturity
11:10–11:30	IL13	Acebal C.C.	Solid-phase extraction in automated flow systems using carbon nanotubes as sorbents
11:30–11:50	IL14	Kościelniak P.	A critical approach to the recovery test in the context of analytical accuracy
11:50–12:05	OP25	Herera-Lopez E.J.	Modeling enzymatic reaction in sequential injection analysis
12:05–12:20	OP26	Bulatov A.V.	Automated effervescence assisted dispersive liquid-liquid microextraction based on a flow system. Application for the determination of antipyrine in saliva samples
12:20–12:35	OP27	Shishov A.	Reversed-phase chromatomembrane method as a new approach for flow extraction
12:35–12:50	OP28	Kozak J.	Iron speciation analysis in flow systems
13:00–14:00	Lunch		
14:00–15:30	Poster session 3	P60–P87	

Session 9 Chair: Solich P., Zagatto E.A.G.

15:30–15:50	IL15	Pasquini C.	Hybrid flow-batch analysis systems
15:50–16:05	OP29	Robert-Peillard F.	Monitoring of anaerobic digestion and biogas production processes: from a lab-scale MSC system to an industrial analyzer
16:05–16:20	OP30	Chantiwas R.	A microchip-based flow injection with chemiluminescence detection system for exploitation of interaction of metal-binding nanoparticle
16:20–16:35	OP31	Santos J.	An experimental approach to perform solid liquid extraction in flow systems
16:35–17:00	Closing Ceremony		Awards, announcement of future Flow analysis conferences

Friday, 10 July

Time	Session	Speaker	Title
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09:00–11:00	Roundtable workshop	Dasgupta P., Hansen E.H., Marshall G., Růžička J.	Future of Flow Analysis
11:00–12:00	Extended coffee break		
13:00–14:00	Excursion to the historical part of the Charles University (Rectorate of Charles University, Ovocný Trh 3/5) – leaving at 12:15 from Diplomat hotel		

List of Posters

Poster Session 1 – Monday, July 6

- P01 Sensitive kinetic-catalytic spectrophotometric method for cobalt determination using a chip coupled to a multisyringe flow injection analysis**
E.A.G. Zagatto, Brasil
- P02 Liquid membrane potentiometry for ion recognition in flow analysis**
V. Mansfeldova, Czech Republic
- P03 A novel gas diffusion flow-based procedure for respirometry monitoring in soils**
R. Frizzarin, Spain
- P04 Construction of capacitively coupled contactless conductivity detector as flow cell for particle sensing**
J. Sitanurak, Thailand
- P05 Flow-injection spectrophotometric determination of meloxicam by oxidation-reduction with KMnO_4**
S. Ali, Iraq
- P06 Metal carbonyl vapor generation coupled with dielectric barrier discharge to avoid plasma quench for optical emission spectrometry**
Y.L. Yu, China
- P07 Study on determination of calcium and magnesium with the use of parameters of a single peak registered in SIA system**
J. Paluch, Poland
- P08 Programmable flow injection method for evaluation of sulfonamides in natural waters**
P. Peixoto, Portugal
- P09 Development of a portable system for iodide spectrofluorimetric determination in seawater**
R. Frizzarin, Spain
- P10 A multi-pumping flow-based procedure for iodate determination in waters**
A. Ribeiro Martins da Silva, Brazil
- P11 Study of an epoxy/polyethyleneimine system as basis for enzyme microreactors**
L. Angnes, Brazil
- P12 Compact disk-type microfluidic device for electrochemical detection of glucose in human serum**
P. Rattanarat, Thailand
- P13 Chromatic analysis by monitoring of unmodified silver nanoparticles reduction on microfluidic paper-based analytical device (μpad) for selective determination of mercury**
M. Amatongchai, Thailand
- P14 Microfluidic and flow analysis system incorporating to multi-optical sensor for environmental monitoring: Towards green analytical chemistry**
N. Youngvises, Thailand

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- P15 Molecular recognition strategy under LOV-BI format**
I.I. Ramos, Portugal
- P16 Selective extraction and determination of Hg(II) using a hyphenated L-cysteine-Fe₃O₄@Au NPs-based microfluidic device with ICP-MS**
Y.L. Huang, Taiwan
- P17 Gasdiffusion of carbonic acids in flow through devices**
O. Elsholz, Germany
- P18 On-column focusing in sequential injection chromatography (SIC) for analyte enrichment, matrix exchange and separation of simazine and atrazine**
R. De Prá Urio, Brazil
- P19 Sequential injection (micellar) chromatography coupled to ICP OES for redox chromium speciation**
R. S. Amais, Brazil
- P20 Direct analysis of phenolic compounds in wine by sequential injection chromatography**
A. D. Batista, Brazil
- P21 Flow programming in gradient-elution flow injection chromatography**
M. Barbatsi, Greece
- P22 On-line monitoring of transdermal permeation of dual-loaded nanocarriers using a low-pressure chromatographic method**
S.S. Marques, Portugal
- P23 Indirect determination of copper using flow- injection and hydride generation atomic absorption spectrometer method (fi-hg-aas)**
S. AlGalali, Iraq
- P24 How important is the detector in Sequential Injection Chromatography?**
P. Chocholouš, Czech Republic
- P25 Platform of optical analysis device based carbon-polydimethylsiloxane compound for spectroscopic chamber integration on information terminal**
K. Morita, Japan
- P26 Droplet-Based Microfluidic Device coupled with Graphene-polyaniline modified Electrode for High-throughput Determination of 4-Aminophenol**
O. Chailapakul, Thailand
- P27 Serial dilution method to determine enzymatic activity in a sequential injection analysis system**
E.J. Herrera-López, Mexico
- P28 Hydrophilic interaction chromatography in SIC system – a novel approach in separation of polar compounds in flow systems**
D. Šatinský, Czech Republic
- P29 Application of gas chromatography-mass spectrometry method in petrochemical industry**
A. Mereke, Kazakhstan
- P88 Mesofluidic platform integrating restricted access-like sorbent for quality control of trace element contamination in honey prior to inductively-coupled plasma spectrometry**
M. Miró, Spain

Poster Session 2 – Tuesday, July 7

- P30** Determination of thiolic compounds, penicillamine, cysteine, tiopronine and glutathione in pharmaceuticals by flow injection analysis with spectrophotometric detection
L. Kukoc-Modun, Croatia
- P31** Sequential injection analysis of a novel amino acid N-acetylcysteine ethyl ester (NACET) with spectrophotometric detection
L. Kukoc-Modun, Croatia
- P32** Optimization of automatic MSFIA-HG-AFS method for the in vitro arsenic bioaccessability evaluation in corn and rice samples
L. Ferrer, Spain
- P33** A full automated flow-batch analyzer coupled to a Lab-made LED-photometer to determine sodium diclofenac and rutin in pharmaceutical formulations
W. Suarez, Brazil
- P34** Flow injection potentiometric method based on Ce(IV)/Ce(III) redox reaction for determination of total antioxidative activity
P. Klayprasert, Thailand
- P35** High spatial resolution nutrient data for real-time estuarine and coastal sampling using zone fluidics
C. Schwanger, Australia
- P36** MALDI-MS for microorganism identification in contaminated groundwater
I. Santos, Portugal
- P37** Doscon - on-line system for control and correction of treated wastewater
M. Kosobucka, Poland
- P38** Flow-based system for the determination of titratable and volatile acidity in wines
A. Rangel, Portugal
- P39** Spectrophotometric continuous flow technique for monitoring cyanide and thiocyanate
A. Atikah, Indonesia
- P40** Automated monitoring of drug permeation studies using Rhodamine 123 as a marker
L. Zelená, Czech Republic
- P41** Kinetic catalytic determination of Mn²⁺ in waters by a fully automated spectrophotometric method
L. Ferrer, Spain
- P42** Membraneless vaporization for simultaneous determination of ethanol and sulfite by flow analysis
P. Kraikaew, Thailand
- P43** Multi-pumping flow system for the screening of oxygen radical absorbance capacity (ORAC) of artichoke extracts
M. Pistón, Uruguay
- P44** Photo-induced chemiluminescence detection of dithiocarbamate pesticides by flow injection analysis based on the luminol-hydrogen peroxide reaction
A. Vlessidis, Greece

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- P45 A multi-pumping flow system for the determination of boron**
M. Knochen, Uruguay
- P46 Using lab-on-valve for renewable sorbent large volume preconcentration and determination of iron(II) from seawater at nanomolar concentration level**
P. Chocholouš, Czech Republic
- P47 Fully automated hplc determination of fluoroquinolones in biological fluids**
A. Pochivalov, Russia
- P48 Flow injection system for the electrochemical detection of peroxynitrite with a cobalt phthalocyanine modified screen printed carbon electrode**
I.S. Hosu, Romania
- P49 Sequential injection application of an expressly designed 3-hydroxy-4-pyridinone functionalized with a polyethylene glycol chain for the spectrophotometric determination of iron**
A. Rangel, Portugal
- P50 Simple flow injection titration for sensitive determination of free fatty acids in palm oil samples**
J. Jakmunee, Thailand
- P51 Tetracyclines chemical control based on in-line interaction with CdTe quantum dots**
J.L.M. Santos, Portugal
- P52 A double-beam photometric direct-injection detector for phosphate monitoring in wastewater**
S. Koronkiewicz, Poland
- P53 Extraction method for losartan determination in pharmaceuticals by sequential injection analysis with uv/vis and fluorimetric detection**
J. Hraniček, Czech Republic
- P54 Use of UV radiation for the sequential injection spectrophotometric determination of NO_x in natural waters**
A. Rangel, Portugal
- P55 Automatic physiologically-based extraction assay for assessment of bioaccessible micronutrients in transgenic and non-transgenic soybeans by on-line ICP-OES detection**
M. Miró, Spain
- P56 Trace silver determination in water and soil samples using flow injection on-line displacement-spe coupled with flame atomic absorption spectrometry**
A. Anthemidis, Greece
- P57 Multi-syringe flow analysis incorporating to multi-optical sensor for simultaneous determination of Fe(II), Fe(III), Mn(II) and Cu(II) in natural waters**
N. Youngvises, Thailand
- P58 Determination of Kjeldahl nitrogen contents in rubber by flow injection conductometric method**
J. Junsomboon, Thailand
- P59 A direct-injection pedd detection system dedicated for monitoring of phosphate in wastewater**
M. Trifescu, Poland

Poster Session 3 – Thursday, July 9

- P60** On-line flow injection molecularly imprinted solid phase extraction for the preconcentration and determination of 1-hydroxypyrene
A. Gallego, Spain
- P61** An automatic procedure for determination of tungsten using Quinaldine red
V. Andrich, Slovak Republic
- P62** Coupling of dynamic accessibility tests to liquid-chromatography using bead-injection mesofluidic analysis for monitoring leaching kinetics of xenobiotics in environmental solids
D.J. Cocovi-Solberg, Spain
- P63** Determination of estrogens in water samples by automatic in-syringe dispersive liquid-liquid microextraction coupled to gas chromatography
V. Cerdà, Spain
- P64** A flow-batch dispersive liquid-liquid microextraction with ionic liquid for the spectrophotometric determination of formaldehyde in milk
C. Nascimento, Brazil
- P65** An environmentally-friendly magnetic stirring assisted dispersive liquid-liquid microextraction method for UV filters determination in waters
R. Suárez, Spain
- P66** Simultaneous in-syringe magnetic stirring-assisted dispersive liquid-liquid microextraction and silylation of uv filters in water samples coupled to gc/ms
R. Suárez, Spain
- P67** Determination of atrazine and 2, 4-D in corn grains using MSFIA coupled to HPLC after microwave assisted extraction
R. Suárez, Spain
- P68** Development of a on-line LOV system coupled to GC-MS for determination of atrazine and 2,4-D in corn grain samples
R. Suárez, Spain
- P69** A multi-pumping flow analysis system with fluidized bed column for determination of soil phosphorus sorption capacity
J. Maria Cunha Machado, Brazil
- P70** Miniaturized automatic system for Ra-226 isolation and pre-concentration from drinking water
R. Rodríguez, Mexico
- P71** An automatic stirring assisted liquid-liquid microextraction system based on lab-in-syringe platform for on-line atomic spectrometric determination of trace metal
G. Giakissikli, Greece
- P72** ⁹⁹Tc determination exploiting in-syringe dispersive liquid-liquid micro-extraction previous liquid scintillation counting
L. Ferrer, Spain
- P74** Testing of carbon nanotubes as a sorbent for fully automated SPE procedure using metsulfuron methyl as a target analyte
L. Zelená, Czech Republic

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- P75 Automation of solid-phase extraction for preconcentration of steroid hormones in a sequential injection system**
H. Sklenářová, Czech Republic
- P76 The automation and optimization of solid-phase extraction for the determination of creatinine in sequential injection system**
Y. Miekh, Czech Republic
- P77 Determination of perchlorate in the atmospheric aerosol by ion chromatography**
M. Takeuchi, Japan
- P78 A field test of an online capillary electrophoresis method for inorganic anions**
V. Virtanen, Finland
- P79 Online capillary electrophoresis in environmental analysis of inorganic cations**
V. Virtanen, Finland
- P80 High performance and sequential injection liquid chromatography for separation triazine herbicides in waters after cloud point extraction**
R. De Prá Urio, Brazil
- P81 Analysis of lactate as a biomarker by capillary electrophoresis with capacitively coupled contactless conductivity system**
K. Nookaew, Thailand
- P82 Development of a simple capillary electrophoresis with UV detection for investigation of metal binding protein**
S. Seetasang, Thailand
- P83 An improved method for analysis of fatty acids by gas chromatography-mass spectrometry in depression patients**
A. Grela, Poland
- P84 Ultra performance liquid chromatography with photodiode array and chemiluminescence detection for the determination of polyphenolic antioxidants in herbal extracts**
J. Malejko, Poland
- P85 Development of a wireless in-situ smart analyser for phosphorus based on open-source hardware and software**
M. Knochen, Uruguay
- P86 Signal Amplification Using LSPR effect for SPR Detection of illegal compound in food**
K. Morita, Japan
- P87 Fully-automated dispersive micro-solid phase extraction using magnetic metal-organic frameworks and related materials in flow system**
S. Rengevičová, Slovak Republic