ICCE 2019
THESSALONIKI

UNDER THE AUSPICES OF H. E. THE PRESIDENT OF THE HELLENIC REPUBLIC
MR PROKOPIOS PAVLOPOULOS

17TH INTERNATIONAL CONFERENCE ON CHEMISTRY AND THE ENVIRONMENT

16 - 20 JUNE 2019 THESSALONIKI, GREECE

Venue:
ARISTOTLE UNIVERSITY RESEARCH DISSEMINATION CENTER
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European Chemical Society
Division of Chemistry and the Environment

Ένωση Ελλήνων Χημικών
Association of Greek Chemists

CONFERENCE PROGRAMME

PREFACE

Dear participants of the 17th International Conference on Chemistry and Environment

On behalf of the division of chemistry and environment (DCE) of the European Chemical Society and of the Association of Greek Chemists, I would like to welcome you to the 17th International Conference on Chemistry and Environment, the so called ICCE, which is taking place under the auspices of the H.E., President of the Hellenic Republic, Mr. Prokopios Pavlopoulos and the department of Chemistry of the Aristotle University of Thessaloniki.

ICCE 2019 addresses scientists in the academia, industry and in governmental institutions alike. ICCE 2019 provides a unique information and communication platform for environmental scientists and a forum of professional exchange with collaborators and colleagues from related disciplines.

Participants, from more than 70 countries have submitted their works to be presented at the conference in oral and poster presentations. 5 plenary and 25 keynote lectures as well as 5 satellite events highlighting priority scientific issues within Environmental Chemistry have been planned. A panel discussion among editors from some of the most prestigious environmental science journals has been organized, aiming to give essential information and experience to young but also senior researchers about publishing articles in top rated peer reviewed journals.

Last but not least, I need to note that the successful organization of the conference wouldn't be possible without the support from our sponsors, who we deeply thank for their active support.

With these few words, I would like to welcome you to Thessaloniki and the ICCE 2019. I hope that you will enjoy the conference, by hearing interesting and lectures of high scientific quality, you will take the chance to meet old colleagues, to get to know new peers and find some time to explore the city of Thessaloniki, a city with more than 2300 years of history and very characteristic cultural life.

With my best regards

Ioannis Katsoyiannis
Chair of DCE and of ICCE 2019.

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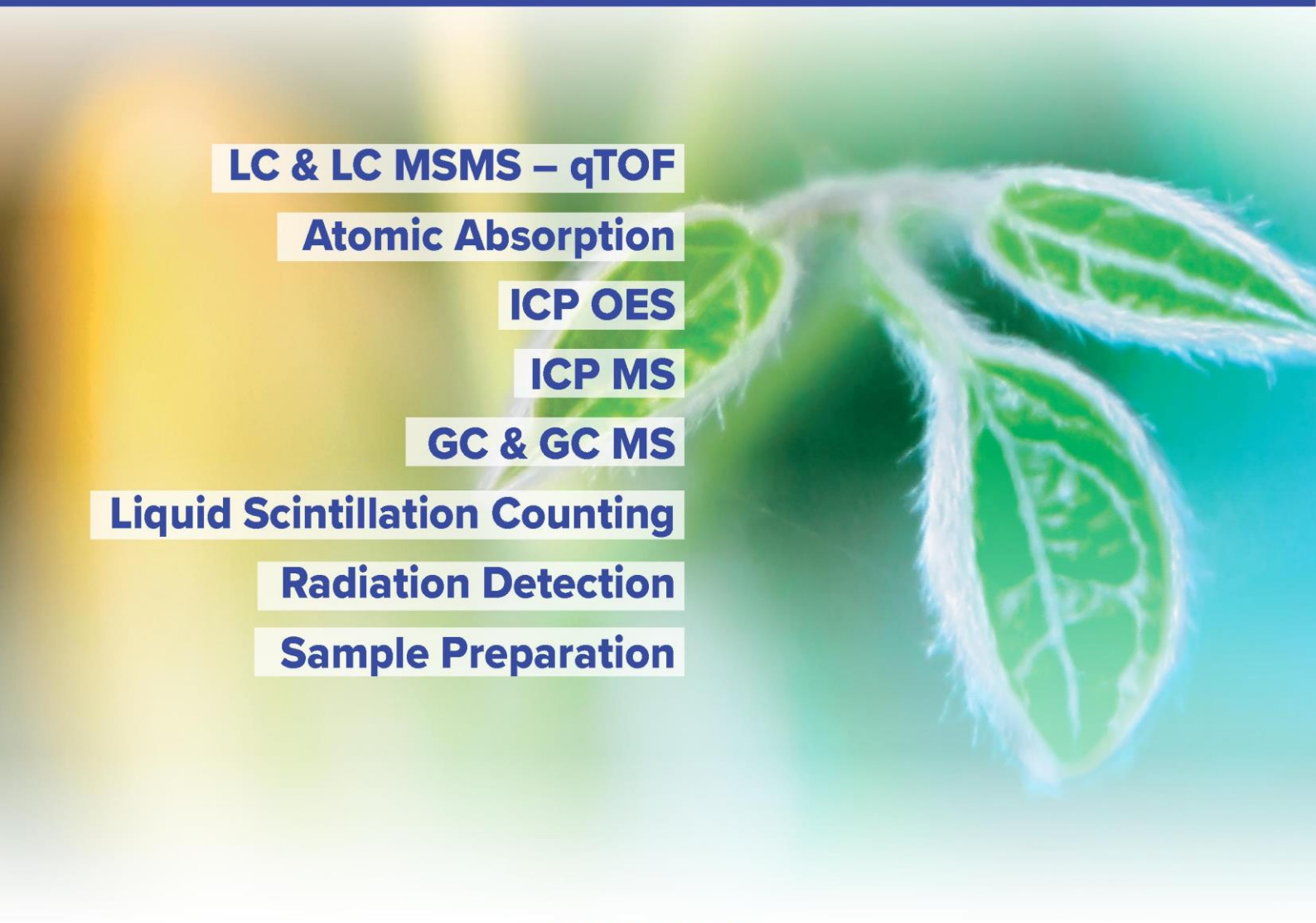

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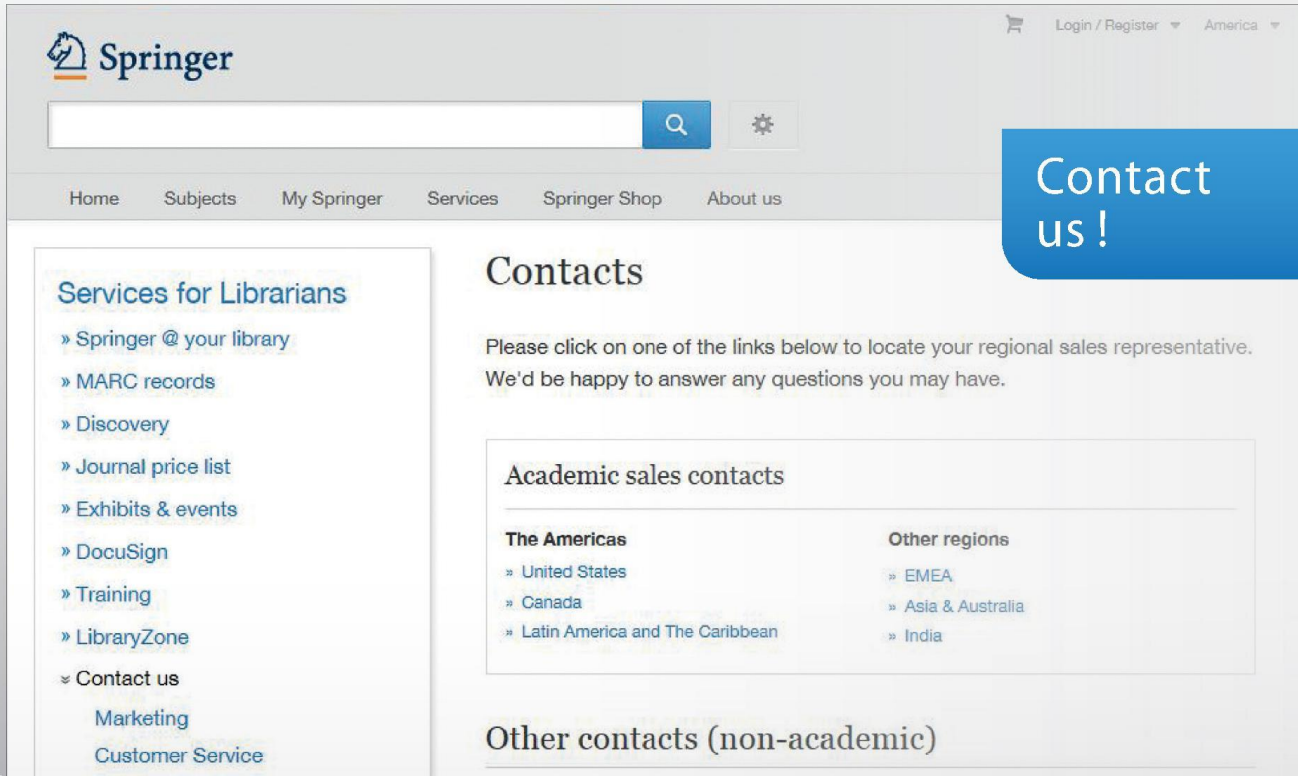

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- **Expertise in Ecotoxicology and Environnemental Toxicology**

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  With this strong expertise, the Foundation helps private companies in achieving their environmental transition.

- **Training and Education in Health and Environment**

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  The Foundation also ensures general public information through scientific conferences and open doors events.

- **Local and National environmental project coordination**

  To increase knowledge in environmental toxicity and help developing new tools, the Foundation manages local and national projects on environmental health and new biomarkers inventory.

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Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations	
Recycling and resource reuse as tools for efficient circular economy	
Environmental problems relevant to Mediterranean Sea and Gulf of Mexico (MedSea-GuMex)	
General	

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09:00	**Registration and Welcome Coffee**		
10:00-12:30	Satellite event **Multi-residue analysis of modern pesticides in soil**	Satellite event **Water reuse as a secure path to tackle water scarcity**	
12:30-13:00	**Coffee Break-Light Lunch**		
13:00-16:00	Satellite event **Glyphosate**	Satellite event **Scientific writing and publishing**	
18:00-19:00	**Conference Hall A: Opening Ceremony**		
19:00-20:00	Conference Hall A: Plenary Speaker **Professor Constantini Samara** **Department of Chemistry, Aristotle University of Thessaloniki, Greece**		
20:00	**Welcome Reception: Conference Venue** **Aristotle University Research Dissemination Centre (KEDEA)**		
MONDAY June 17, 2019 pages. 29-39			
Oral Presentations			
	CONFERENCE HALL A	CONFERENCE HALL B	CONFERENCE HALL C
08:00	**Registration and Welcome Coffee**		
09:00-10:00	Conference Hall A: Plenary Speaker **Professor Silvia Lacorte** **Department of Environmental Chemistry, Idaea-Csic, Barcelona, Spain**		
10:00-11:30	Session 1.1.A **Analytical Chemistry in environmental monitoring and chemistry studies**	Session 1.1.B **Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis**	Session 1.1.C **Innovation in drinking water treatment**
11:30-12:00	**Coffee Break**		
12:00-13:30	Session 1.2.A **Analytical Chemistry in environmental monitoring and chemistry studies**	Session 1.2.B **Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis**	Session 1.2.C **Urban contaminants: control measures, remediation actions and toxicological implications**
13:30-14:30	**Lunch Break**		
14:30-16:30	Session 1.3.A **Analytical Chemistry in environmental monitoring and chemistry studies**	Session 1.3.B **Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis**	Session 1.3.C **Urban contaminants: control measures, remediation actions and toxicological implications**

16:30-17:00	**Coffee Break**		
17:00-19:00	Session 1.4.A **Analytical Chemistry in environmental monitoring and chemistry studies**	Session 1.4.B **Investigating the environmental fate and ecotoxicology of glyphosate**	Session 1.4.C **Humic Substances: environmental dynamics and impact on water quality**
19:00-19:15	**Coffee Break**		
19:15-20:15	Session 1.5.A **Identifying critical nutrient emission zones in landscapes: a key for reducing water eutrophication?**	Session 1.5.B **General Session**	Session 1.5.C **Humic Substances: environmental dynamics and impact on water quality**
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10:00-19:00	**Analytical Chemistry in environmental monitoring and chemistry studies**		
10:00-19:00	**Urban contaminants: control measures, remediation actions and toxicological implications**		
10:00-19:00	**Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis**		
10:00-19:00	**Investigating the environmental fate and ecotoxicology of glyphosate**		
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Oral Presentations			
	CONFERENCE HALL A	CONFERENCE HALL B	CONFERENCE HALL C
08:00	**Registration and Welcome Coffee**		
09:00-10:00	Conference Hall A: Plenary Speaker **Professor Mathias Ernst** **Technical University of Hamburg, Germany**		
10:00-11:30	Session 2.1.A **Innovation in drinking water treatment**	Session 2.1.B **Analytical Chemistry in environmental monitoring and chemistry studies**	Session 2.1.C **Micropollutants and microplastics in the aquatic environment**
11:30-12:00	**Coffee Break**		
12:00-13:30	Session 2.2.A **Environmental fate of contaminants**	Session 2.2.B **Air pollution-chemistry and health risks**	Session 2.2.C **Micropollutants and microplastics in the aquatic environment**
13:30-14:30	**Lunch Break**		
14:30-16:30	Session 2.3.A **Urban contaminants: control measures, remediation actions and toxicological implications**	Session 2.3.B **Air pollution-chemistry and health risks**	Session 2.3.C **Micropollutants and microplastics in the aquatic environment**
16:30-17:00	**Coffee Break**		
17:00-19:00	Session 2.4.A **Risk assessment of emerging pollutants experimental and modelling approaches to fill the data gaps**	Session 2.4.B **Air pollution-chemistry and health risks**	Session 2.4.C **Micropollutants and microplastics in the aquatic environment**
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10:00-19:00	**Humic Substances: environmental dynamics and impact on water quality**		
10:00-19:00	**Micropollutants and microplastics in the aquatic environment**		

10:00-19:00	**Environmental fate of contaminants**		
10:00-19:00	**Air pollution-chemistry and health risks**		
10:00-19:00	**Innovation in drinking water treatment**		
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Oral Presentations			
	CONFERENCE HALL A	CONFERENCE HALL B	CONFERENCE HALL C
08:00	**Registration and Welcome Coffee**		
09:00-10:00	Conference Hall A: Plenary Speaker **Professor Urs von Gunten** **Swiss Federal Institute of Aquatic Science and Technology (Eawag) & École Polytechnique Fédérale de Lausanne (EPFL), Switzerland**		
10:00-11:30	Session 3.1.A **Oxidation and Advanced Oxidation processes in water and wastewater treatment**	Session 3.1.B **Soil Pollution and Monitoring**	Session 3.1.C **Risk assessment of emerging pollutants experimental and modelling approaches to fill the data gaps**
11:30-12:00	**Coffee Break**		
12:00-13:30	Session 3.2.A **Oxidation and Advanced Oxidation processes in water and wastewater treatment**	Session 3.2.B **Soil Pollution and Monitoring**	Session 3.2.C **Heavy metals and other inorganic pollutants in the environment and removal technologies**
13:30-14:30	**Lunch Break**		
14:30-16:30	Session 3.3.A **Oxidation and Advanced Oxidation processes in water and wastewater treatment**	Session 3.3.B **Advances in wastewater treatment**	Session 3.3.C **Heavy metals and other inorganic pollutants in the environment and removal technologies**
16:30-17:00	**Coffee Break**		
17:00-19:00	Session 3.4.A **Metabolomics**	Session 3.4.B **Environmental applications of nanomaterials**	Session 3.4.C **Panel Discussion by Journal Editors**
19:00-19:15	**Coffee Break**		
19:15-20:15	Session 3.5.A **Metabolomics**	Session 3.5.B **Environmental applications of nanomaterials**	Session 3.5.C **General Session**
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10:00-19:00	**Risk assessment of emerging pollutants experimental and modelling**		
10:00-19:00	**Oxidation and Advanced Oxidation processes in water and wastewater treatment**		
10:00-19:00	**Soil Pollution and Monitoring**		
10:00-19:00	**Heavy metals and other inorganic pollutants in the environment and removal technologies**		
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10:00-19:00	**Identifying critical nutrient emission zones in landscapes: a key for reducing water eutrophication?**		
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	CONFERENCE HALL A	CONFERENCE HALL B	CONFERENCE HALL C

08:00	**Registration and Welcome Coffee**		
09:00-10:00	Conference Hall A: Plenary Speaker **Professor Roland Kallenborn** **Norwegian University of Life Sciences and University Centre in Svalbard, Norway**		
10:00-11:30	Session 4.1.A **Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations**	Session 4.1.B **Satellite Event: University Education in Environmental Sciences**	Session 4.1.C **Soil Pollution and Monitoring**
11:30-12:00	**Coffee Break**		
12:00-13:30	Session 4.2.A **Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations**	Session 4.2.B **Satellite Event: University Education in Environmental Sciences**	Session 4.2.C **Recycling and resource reuse as tools for efficient circular economy**
13:30-14:30	**Lunch Break**		
14:30-16:30	Session 4.3.A **Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations**	Session 4.3.B **Environmental problems relevant to Mediterranean Sea and Gulf of Mexico (MedSea-GuMex)**	Session 4.3.C **Recycling and resource reuse as tools for efficient circular economy**
16:30-17:00	**Coffee Break**		
17:00-19:00	Session 4.4.A **General Session**	Session 4.4.B **Advances in wastewater treatment**	Session 4.4.C **Recycling and resource reuse as tools for efficient circular economy**
19:00-19:30	**CONFERENCE HALL A: Closing Ceremony**		
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10:00-19:00	**Environmental applications of nanomaterials**		
10:00-19:00	**Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations**		
10:00-19:00	**Recycling and resource reuse as tools for efficient circular economy**		
10:00-19:00	**Environmental problems relevant to Mediterranean Sea and Gulf of Mexico (MedSea-GuMex)**		
10:00-19:00	**General**		

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ID 76, 506	Titaley	Ivan	MTM Research Center, Örebro University, Sweden

ID 56	Tolis	Evangelos	University of Western Macedonia, Greece
ID 410, 563	Tolkou	Athanasia	Aristotle University of Thessaloniki, Greece
ID 309, 543	Tolosa	Imma	IAEA Environment Laboratories, Monaco
ID 386	Touloupi	Myrto	Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Greece
ID 49	Toumasatos	Zisimos	Aristsotle University of Thessaloniki, Greece
ID 333	Triantafyllidis	Konstantinos	Aristotle University of Thessaloniki, Greece
ID 268	Tsave	Polyxeni	Aristotle University of Thessaloniki, Greece
ID 253	Tsipi	Despina	General Chemical State Laboratory, Athens, Greece
ID 101	Tsygankov	Vasiliy	Far Eastern Federal University, Russian Federation
ID 119, 516	Tubić	Aleksandra	University of Novi Sad, Serbia
ID 51	Turner	Charlotta	Lund University, Sweden
ID 314, 544	Ueda	Ana	Federal Technological University of Paraná, Brazil
ID 190	Uhl	Wolfgang	Norwegian Institute for Water Research , Norway
ID 242	Usman	Muhammad	Technische Universität Hamburg, Germany
ID 317	Vaccari	Mentore	University of Brescia, Italy
ID 258	Van Den Steen	Katleen	Water-link, Belgium
ID 131	Vancsik	Anna Viktória	Hungarian Academy of Sciences, Hungary
ID 478	Vaneckova	Eva	J. Heyrovsky Institute of Physical Chemistry of the CAS, Czech Republic
ID 263	Varga	Zsuzsanna	École Polytechnique, France
ID 16, 501	Vasconcellos	Pérola	University of São Paulo, Brazil
ID 419	Vasjari	Majlinda	University of Tirana, Albania
ID 363	Velázquez-Gómez	Miguel	Institute for Environmental Assessement and Water Research (IDAEA-CSIC), Spain
ID 407	Vera	Teresa	Fundacion CEAM, Spain
ID 500	Viktoria	Kazantzi	Aristotle University of Thessaloniki, Greece
ID 409	Vlassopoulos	Dimitris	Anchor QEA LLC, United States
ID 171	Vogel	Martin	University of Münster, Germany
ID 183	Von Gunten	Urs	Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland
ID 423	Voutetaki	Alexia	Aristotle Univesrity of Thessaloniki, Greece
ID 156, 519	Vrana	Branislav	Masaryk University, Czech Republic
ID 403	Wagner	Stephan	Helmholtz-Centre for Environmental Research GmbH - UFZ, Germany
ID 13	Wen	Yuezhong	Zhejiang University,Institute of Environmental Health,
ID 256, 536	Wenk	Jannis	University of Bath, United Kingdom
ID 599	Worsfold	Paul	University of Plymouth, UK
ID 103	Wu	Mu Yan	The University of HONG KONG, Hong Kong
ID 452	Xaba	Thokozani	Vaal University of Technology, South Africa
ID 466	Xanthopoulou	Maria	Aristotle University of Thessaloniki, Greece
ID 45, 503	Xhaferaj	Nertil	Agricultural University of Tirana, Albania
ID 373, 554	Xhanari	Klodian	University of Tirana, Albania
ID 491	Xu	Xiaohong	University of Windsor, Canada
ID 9	Yao	Shanglin	Research Institute of Petroleum Exploration and Development, PetroChina, China
ID 269	Yavir	Kateryna	Gdańsk University of Technology (GUT), Poland
ID 62	Yfanti	Anthi	National and Kapodistrian University of Athens, Greece
ID 457	yoshikawa	takuya	Hokkaido University, Japan
ID 231	Zabaniotou	Anastasia	Aristotle University of Thessaloniki, Greece
ID 327, 547	Żabczyński	Sebastian	Silesian University of Technology, Poland
ID 121, 517	Zafeiraki	Effrosyni	National and Kapodistrian University of Athens, Greece
ID 61, 505	Zdarta	Agata	Poznan University of Technology, Poland
ID 129	Zhou	Junying	Nanjing institute of environmental science, China
ID 284	Zietzschmann	Frederik	Delft University of Technology, Netherlands
ID 485	Zin	Moh Moh	Szent Istvan University, Hungary
ID 472	Zouzelka	Radek	J. Heyrovsky Institute of Physical Chemistry of the CAS,
ID 384	Zumbülte	Nicole	TZW: DVGW - Water Technology Center, Germany
ID 586, 587	Zwiener	Christian	University of Tübingen, Germany

ICCE 2019 CONFERENCE PROGRAMME

SUNDAY June 16, 2019

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09:00	**Registration and Welcome Coffee**
10:00-12:30	*Sunday,* **Conference Hall A:** **Satellite event: Multi-residue analysis of modern pesticides in soil**
	Conveners: **Thomas D. Bucheli,** Agroscope **Eleni Karassali,** Benaki Phytopathological Institute **Daniel Wächter,** Swiss Soil Monitoring Network
	ID 585. Keynote Speech. **Comparison of two extraction methods – accelerated solvent extraction and QuEChERS – for pesticide analysis in soil**
	Mangold S., Wettstein F., Bucheli T. *AGROSCOPE, Environmental Analytics, Switzerland*
10:00-12:30	*Sunday,* **Conference Hall B:** **Satellite event: Water reuse as a secure path to tackle water scarcity**
	Conveners: **Dionysios Dionysiou,** University of Cincinnati, USA **Ioannis Katsoyiannis,** Aristotle University of Thessaloniki, Greece Keynote Speakers: **Prof. Dionysios Dionysiou**, University of Cincinnati, USA *"Advances and Challenges for the Removal of Contaminants of Emerging Concern in Wastewater Treatment"* **Dr. Bernd Gawlik,** European Commission *"Minimum Quality Requirements for Water Reuse in Europe – Balancing the needs* **Mr. Richard Elelman,** Head of Public Administrations of EURECAT-CTM *"Water Reuse -The Role of the Municipal Citizen in a Global Issue"* **Prof. Simos Malamis,** National Technical University of Athens, "*Greece Innovative domestic wastewater treatment technologies to recover water, energy and materials"*
12:30-13:00	**Coffee Break-Light Lunch**
13:00-16:00	*Sunday,* **Conference Hall A:** **Satellite event: Glyphosate**
	Conveners: **Dr. Silvia Lacorte,** IDAEA-CSIC, Barcelona, Spain **Dr. Laura L. McConnell,** Bayer Crop Science, Durham, NorthCarolina, USA **Dr Ester Heath,** Jožef Stefan Institute, Ljubljana, Slovenia Keynote Speakers: **Dr. Stephen O. Duke**, USDA-ARS, Research Leader, Natural Products Utilization Research Laboratory, Mississippi, USA *"Glyphosate's mode of action, environmental fate, and influences on agricultural practices"*

	Dr. Jose Oriol Magrans, EFSA, Senior Scientific Officer, Environmental Chemistry, Pesticides Unit, Parma, Italy *"The environmental risk assessment in the EFSA conclusion on glyphosate"* **Prof. Keith Solomon,** University of Guelph, School of Environmental Sciences, Guelph, Ontario, Canada *"Exposure to glyphosate in humans and residues in food: What are the risks?"* **Dr. Steven Levine,** Bayer, Senior Science Fellow, St. Louis, Missouri, USA *"The weight of evidence used to determine whether glyphosate is an endocrine disruptor following the new ECHA/EFSA Guidance"* **Prof. Dr. Emilio J. González Sánchez**, General Secretary, European Conservation Agriculture Federation, and University of Cordoba, Department of Rural Engineering, Cordoba, Spain *"The role of glyphosate in supporting sustainable agriculture"*
13:00-16:00	*Sunday*, **Conference Hall B:** **Satellite event: Scientific writing and publishing**
	Convener: **Prof. Philippe Garrigues**, Institut des Sciences Moléculaires, Université Bordeaux, France, Editor in Chief, Environmental Science and Pollution Research Keynote Speakers: **Prof. Philippe Garrigues**, Institut des Sciences Moléculaires, Université Bordeaux, France **Walter Giger**, Giger Research Consulting, Switzerland "E-Learning module of ETH Zurich for Scientific Writing Practice"
18:00-19:00	**Conference Hall A: Opening Ceremony**
19:00-20:00	*Sunday,* **Conference Hall A: Plenary Speaker** **Professor Constantini Samara** Department of Chemistry, Aristotle University of Thessaloniki, Greece *"Key insights into the invitro toxicity of airborne particulate matter in urban areas - The involvement of residential wood burning"*
20:00	**Welcome Reception** Conference Venue*, Aristotle University Research Dissemination Centre (KEDEA)*

MONDAY June 17, 2019 pages. 29-39	
08:00	**Registration and Welcome Coffee**
09:00-10:00	*Monday,* **Conference Hall A: Plenary Speaker** **Professor Silvia Lacorte** Department of Environmental Chemistry, Idaea-Csic, Barcelona, Spain *"The intriguing link between chemical exposure and biological effects"*
10:00-11:30	*Monday,* **Conference Hall A: Session 1.1.A** **Analytical Chemistry in environmental monitoring and chemistry studies** **Chairs: Slavica Razic,** Belgrade University Faculty of Pharmacy, Serbia **Paul Worsfold,** University of Plymouth, UK **Keynote Speaker: Paul Worsfold,** University of Plymouth, UK
Oral Presentations	
	ID 599. Keynote Speech. **Marine Analytical Chemistry in the Iron Age**
	Paul Worsfold *University of Plymouth, UK*
	ID 51. **Extraction And Analysis Of High-Value Compounds In Plants Using Green Solvent Technology**
	Turner C., Al-Hamimi S., Cunico L.; Prothmann J., Sun M., Sandahl M. *Lund University, Department of Chemistry, Centre for Analysis and Synthesis, Sweden*
	ID 171. **Tracing anthropogenic gadolinium in drinking water**
	Vogel M, Birka M, Sperling M and Karst U *University of Münster, Institute of Inorganic and Analytical Chemistry, Germany*
	ID 205. **New approaches to the application of voltammetric and amperometric methods for monitoring of organic environmental pollutants**
	Barek J. *Charles University, Faculty of Science, Department of Analytical Chemistry, UNESCO Laboratory of environmental electrochemistry, Czech Republic*
	ID 218. **Automation and flow methods for screening antibiotics in environmental water**
	M. A.Segundo, P. S.Peixoto *LAQV, REQUIMTE, Department of Chemical Sciences, Faculty of Pharmacy, University of Porto, Portugal*
	ID 63. **Lead isotope ratios as tool for elucidation of chemical environment in a real system of mushrooms -soil**
	S. Ražić[1], S. Đurđić[2], V. Vukojević[3] and J. Mutić.[2] *[1]University of Belgrade - Faculty of Pharmacy - Department of Analytical Chemistry, Serbia* *[2]University of Belgrade - Faculty of Chemistry, Serbia* *[3]University of Belgrade - Innovation center of the Faculty of Chemistry, Serbia*
10:00-11:30	*Monday,* **Conference Hall B: Session 1.1.B** **Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis** **Chairs: Ester Heath,** Jožef Stefan, Institute, Ljubljana, Slovenia **Adrian Covaci,** University of Antwerp, Belgium **Keynote Speaker: Susan D. Richardson,** University of South Carolina, USA

	Oral Presentations
	ID 202. Keynote Speech. **What's in the wastewater and drinking water? State of the science**
	Susan D. Richardson *Department of Chemistry & Biochemistry, University of South Carolina, USA*
	ID 64. **HR-MS-suspect screening of phototransformation products of wastewater-borne pharmaceuticals in rivers**
	Sandra Perez[1], Enelton Fagnani[1], Nicola Montemurro[1] *[1]Department of Environmental chemistry, IDAEA-CSIC, Barcelona, Spain*
	ID 82. **Data selection criteria strategy for non-target screening of environmental samples by LC-HRMS: application for structural elucidation**
	Bonnefille B., Miège C., Guillemain C., Margoum C. *Irstea, UR RiverLy, France*
	ID 133. **Assessing organic contaminant emissions from pharmaceutical industries based on high-resolution mass spectrometry time series data**
	S. Anliker[a,b], M. Loos[d], M. Ruff[a], R. Comte[a,b], M. Patrick[a], K. Fenner[a,d], H. Singer[a] *[a]Swiss Federal Institute of Aquatic Science and Technology Eawag, Switzerland* *[b]Swiss Federal Institute of Technology ETH, Switzerland* *[c]Looscomputing, Switzerland* *[d]University of Zurich, Switzerland*
	ID 157. **Analysis of emerging bisphenol A replacements (colour developers) in indoor dust from public environments**
	María Jesús Dueñas-Mas[1], Ana Ballesteros-Gómez[1], Soledad Rubio[1] *[1]Departamento de Química Analítica, Instituto Universitario de Química Fina y Nanoquímica IUNAN, Universidad de Córdoba, España*
10:00-11:30	*Monday,* **Conference Hall C: Session 1.1.C** **Innovation in drinking water treatment** **Chairs: Mathias Ernst,** Technical University of Hamburg, Germany **Ioannis Katsoyiannis,** Aristotle University of Thessaloniki, Greece **Keynote Speaker: Frederik Zietzschmann,** Faculty of Civil Engineering and Geosciences, TU Delft, Nederlands
	Oral Presentations
	ID 284. Keynote Speech. **Adsorptive water treatment for organic micro-pollutant removal**
	F. Zietzschmann *Delft University of Technology, Netherlands*
	ID 38. **Removal of cationic dyes by adsorption on semi-IPN alginate beads**
	Zehra Özbaş *Cankiri Karatekin University, Faculty of Engineering, Department of Chemical Engineering, Turkey*
	ID 188. **Efficient removal of perfluoroalkyl acids from aqueous solution by surface-modified poly(ethylene terephthalate) textiles**
	A. Salma[1], W. Ali[1], J. Türk[3,4], E.Erich[3], F. Grüning[3], J. Gutmann[1,2], T. Mayer-Gall[1,2] *[1]Deutsches Textilforschungszentrum Nord-West gGmbH, Germany* *[2]Department of Chemistry and Center for Nanointegration Duisburg-Essen, University Duisburg-Essen, Germany* *[3]Institut für Energie- und Umwelttechnike. V., Germany* *[4]Centre for Water and Environmental Research, University of Duisburg-Essen, Germany*
	ID 190. **Microplastic in raw water and finished drinking water: limits of detection and quantification and what can be concluded regarding removal**
	Uhl W.[1 2], Eftekhardadkhah M.[1], Lusher A.[1], van Bavel B.[1] *[1]Norwegian Institute for Water Research (NIVA), Norway* *[2]Norwegian University of Science and Technology (NTNU), Institute for Civil and Environmental Engineering, Norway*

	ID 410. **Application of composite pre-polymerized coagulants in fluoride removal from waters**
	Tolkou A. K.[1], Mitrakas M.[2], Katsoyiannis I.[1], ErnstM.[3], ZouboulisA. I.[1] *[1]Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2]Laboratory of Analytical Chemistry, Department of Chemical Engineering, Aristotle University of Thessaloniki, Greece* *[3]Department of Water Supply, Technical University of Hamburg, Germany*
11:30-12:00	**Coffee Break**
12:00-13:30	*Monday,* **Conference Hall A: Session 1.2.A** **Analytical Chemistry in environmental monitoring and chemistry studies** **Chairs: Victoria Samanidou,** Aristotle University of Thessaloniki, Greece **Abuzar Kabir,** Florida International University, USA
Oral Presentations	
	ID 508. **Gas chromatography – high resolution mass spectrometry determination of metabolites of chlorinated phosphorous flame retardants in sewage**
	I. González-Mariño, V. Castro, R. Rodil, L. Sánchez-Fernández, R. Cela, J. B. Quintana *Department of Analytical Chemistry, Nutrition and Food Sciences, IIAA – Institute for Food Analysis and Research, Universidade de Santiago de Compostela, Spain*
	ID 132. **Development of a multiplex injector for the analysis of gaseous emissions from lithium ion batteries with gas chromatography**
	Antoniadou M.[1], Kahr J.[2],Rosenberg E.[1] *[1]Vienna University of Technology, Institute of Chemical Technologies and Analytics, Austria* *[2]Austrian Institute of Technology GmbH, Electromobility Department,Electric Drive Technologies, Austria*
	ID 502. **Multi-element stable isotope and enantiomer fractionation for characterisation of HCHs degradation processes along food webs**
	Wu Langping[1,2], Liu Yaqing[1], Liu Xiao[1], Lal Rup[3], Richnow Hans[1] *[1]Department of Isotope Biogeochemistry, Helmholtz Centre for Environmental Research-UFZ, Germany* *[2]Department of Civil Engineering, University of Toronto, Canada* *[3]Molecular Biology Laboratory, Department of Zoology, University of Delhi, India*
	ID 222. **Validity of Refutas equation to ideal and non- ideal liquid mixtures**
	T N Manoharan, Sunil S K *Head of the Department of Chemistry, Sree Narayana College, India*
	ID 136. **A novel method for the evaluation of chlorpyrifosdegradation on crop surfaces**
	Kirsehnbaum N., Polubesova T. and Chefetz B. *Department of Soil and Water Sciences, Faculty of Agriculture, Food and Environment, The Hebrew University of Jerusalem, Israel*
	ID 73. **Integrated microfluidic device for inline monitoring of glyphosate assisted by surface enhanced Raman spectroscopy (SERS)**
	Emonds-Alt G.[a,b], Avohou H.T.[c], Kasemiire A.[c], Malherbe C.[a], Monbaliu J.C.M.[b], Ziemons E.[c], Eppe G.[a] *[a]Laboratory of Inorganic Analytical Chemistry, UR MolSys, University of Liège, Belgium* *[b] Center for Integrated Technology and Organic Synthesis, UR MolSys, University of Liège, Belgium* *[c]Laboratory for Interdisciplinary Research on Medicines (CIRM), University of Liège, Belgium*
	ID 524. **Arsenic In Natural Water: A New And Simple Approach To Facilitate Its Determination And Speciation**
	Fontàs C.[1], Chillè D.[1,2], MarguíE.[1], Foti C.[2], Anticó E.[1] *[1]Chemistry Department, University of Girona, Spain* *[2]Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Italy*

12:00-13:30	*Monday,* **Conference Hall B: Session 1.2.B** **Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis** **Chairs: Ester Heath,** Jožef Stefan, Institute, Ljubljana, Slovenia **Dimitra Lambropoulou,** Aristotle University of Thessaloniki, Greece
Oral Presentations	
	ID 263. **SPIX, a newly developed free software to overcome operator subjectivity in mass spectrometry and characterize unknown chemical reactions in environmental samples**
	E. Nicol[1], Y. Xu[2,3], Z. Varga[1], S. Bouchonnet[1], M. Lavielle[2,3] *[1]Laboratory of Molecular Chemistry, École Polytechnique, France* *[2]National Institute for Research in Computer Science and Automation (Inria), France* *[3]Center for Applied Mathematics, École polytechnique, Route France*
	ID 311. **Non-target screening to identify biomagnifying lipophilic organic contaminants in Baltic Sea top consumers**
	Rebryk A., Haglund P. *Umeå University, Department of Chemistry, Sweden*
	ID 287. **Target and non-target analysis of disinfection by-products formed after an innovative drinking water treatment process**
	A.Andersson[1], E. Lavonen[2,3], M. Harir[4], M. Gonsior[5], N. Hertkorn[4], P. Schmitt-Kopplin[4], H. Kylin[1] and D. Bastviken[1] *[1]Department of Thematic Studies – Environmental Change, Linköping University, Sweden* *[2]Norrvatten, Kvalitet och Utveckling, Sweden,* *[3]Stockholm Vatten och Avfall, Sweden* *[4]Research Unit Analytical BioGeoChemistry, Helmholtz Centre Munich, Germany* *[5]Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science, United States*
	ID 587. **Soil contamination of poly- and perfluorinated alkylsubstances (PFAS) due to recycling economy – a mass spectrometric screening study**
	Zwiener C., Bugsel B., Tisler S. *Environmental Analytical Chemistry, Center for Applied Geoscience, University of Tübingen, Germany*
	ID 83. **From unknowns to knowns – tools for ultimate identification and confirmation of food and environmental contaminants**
	Schoutsen F. *Thermo Fisher Scientific, The Netherlands*
	ID 216. **Disinfection by-products in reclaimed water: integration of high-resolution mass spectrometry and in vitro toxicity assays data to characterize toxic DBPs**
	C. Aznar-Luque, C. Porte and C. Postigo *Department of Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain,*
12:00-13:30	*Monday,* **Conference Hall C: Session 1.2.C** **Urban contaminants: control measures, remediation actions and toxicological implications** **Chairs: Silvia Lacorte,** Department of Environmental, Chemistry, Idaea-Csic, Barcelona, Spain **Athanasios Katsoyiannis,** Joint Research Centre of the European Commission, Ispra, Italy **Keynote Speaker: Kevin Jones,** Lancaster University, UK
Oral Presentations	

	ID 600. Keynote Speech. Contaminants and urban environments
	Jones K. C. *Lancaster Environment Centre, Lancaster University, UK*
	ID 36. **Alkyl Quaternary Ammonium Compounds as Potential Precursors and Catalysts for the Formation of Carcinogenic *N*-Nitrosamines in Water**
	Breider F.[1], Piazzoli A.[1,2], Gachet Aquillon C.[1], Salihu I.[1], and von Gunten U.[1,3] *[1] EPFL – Swiss Federal Institute of Technology, Switzerland* *[2] Politecnico di Milano, DICA e Environmental Section, Italy* *[3]Eawag – Swiss Federal Institute of Aquatic Science and Technology, Switzerland*
	ID 74. **Polyoxometalate-Ionic Liquids (POM-ILs) as invisible bifunctional protection coatings against acid-corrosion and bio-deterioration of mineral stones**
	A. Misra[a], Isabel Franco Castillo[b], Daniel P. Müller[a], Carolina González[b], Stéphanie Eyssautier-Chuine[c], Andreas Ziegler[d], Jesús M. de la Fuente[b], Scott G. Mitchell[b], and Carsten Streb[a] *[a]Institute of Inorganic Chemistry I, Ulm University, Germany* *[b]Instituto de Ciencia de Materiales de Aragon (ICMA-CSIC), CISC-Universidad de Zaragoza, Spain* *[c]Grouped'Etude sur les Géomatériaux et les environnements, Naturels Anthropiques et Archéologiques (GEGENAA), Université de Reims Champagne-Ardenne, Centre de Recherchesen Environnement et Agronomie,France* *[d]Central Unit Electron Microscopy, Ulm University, Germany*
	ID 147. **Studying the Fenton based oxidation of polycyclic aromatic hydrocarbons (PAXHs) as a tool for soil remediation**
	I. Satilmis, W. Schrader *Max-Planck-Institut für Kohlenforschung, Germany*
	ID 61. **Bioaugmentation as a strategy for cleaning up water contaminated with hydrocarbons**
	A. Zdarta, E. Kaczorek *Poznan University of Technology, Institute of Chemical Technology and Engineering, Poland*
13:30-14:30	**Lunch Break**
14:30-16:30	*Monday,* **Conference Hall A: Session 1.3.A** **Analytical Chemistry in environmental monitoring and chemistry studies** **Chairs: Costas Michael,** University of Cyprus, Cyprus **Barek Jiri,** Charles University, Czech Republic
Oral Presentations	
	ID 269. **Ionogel Fibers for Headspace Solid-phase Microextraction of Volatile Organic Compounds**
	K. Yavir, Ł. Marcinkowski, A. Kloskowski, J. Namieśnik *Gdańsk University of Technology, Faculty of Chemistry, Poland*
	ID 276. **Analysis of chlorinated and brominated polycyclic aromatic hydrocarbons in total deposition by GC/MS/MS**
	Rong Jin[1], Benjamin Bandowe[1], Barbora Nežiková[2], Roman Prokeš[2],Pavel Čupr[2], Jana Klánová[2], Gerhard Lammel[1,2] *[1]Max Planck Institute for Chemistry, Multiphase Chemistry Department, Germany* *[2]Masaryk University, Research Centre for Toxic Compounds in the Environment, Czech Republic*
	ID 309. **A comprehensive evaluation of two sample treatment procedures for the determination of emerging and historical halogenated flame retardants in biota**
	Y. Aminot, D. Huertas, S. Choyke, S. Sander, I. Tolosa *IAEA Environment Laboratories, Monaco*
	ID 551. **Monitoring of toxic substances in the vicinity of landfills in the Czech Republic and Slovakia**
	Petra Růžičková[1], Jitka Tobišková[1], Peter Šebej[1], Jiří Kalina[1], Petr Špičák[2] *[1]RECETOX, Faculty of Science, Masaryk university, Czech Republic* *[2]SUEZ CZ a.s., Czech Republic*

	ID 93. **An environmentally-friendly surrogate method to measure the soluble chemical oxygen and the biochemical oxygen demand in wastewater: use of three-dimensional excitation and emission matrix fluorescence spectroscopy for wastewater treatment monitoring**
	Goffin A[1,2], Guérin S[2], Rocher V[2], Varrault G[1] *[1]LEESU, Université Paris-Est (UMR MA 102), UPEC, Ecole des Ponts ParisTech, AgroParisTech, France* *[2]SIAAP, Direction Innovation Environnement, France*
	ID 117. **An integrated method coupling, accelerated solvent extraction (ASE), solid-phase extraction (SPE), solid-phase microextraction (SPME) and GC-and LC/MSMS for the quantification of multi organic pollutants in air**
	Chimjarn S., Martin S., Kaur R., Delhomme O., Millet M. *Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES UMR7515 CNRS), Physico – Chemistry Group of the Atmosphere, University of Strasbourg, France*
	ID 31. **Improving the analytical performance of ICP-MS for environmental sample analysis**
	Nelms S.[1], Kutscher D.[2] and McSheehy-Ducos S.[2] *[1]Thermo Fisher Scientific, UK* *[2]Thermo Fisher Scientific, Germany*
	ID 151. **Identification of the factors influencing bioaccessibility of polycyclic aromatic compounds in model sediments and in a river sediment core**
	Portet-Koltalo F.[1], Gardes T.[1, 2], Debret M.[2], Copard Y. [2], Marcotte S. [1],Morin C. [1] *[1]Normandy University, UNIROUEN, COBRA Laboratory UMR CNRS 6014, France* *[2]Normandie University, UNIROUEN, M2C Laboratory UMR 6143, France*
14:30-16:30	*Monday,* **Conference Hall B: Session 1.3.B** **Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis** **Chairs: Adrian Covaci,** University of Antwerp, Belgium **Dimitra Lambropoulou,** Aristotle University of Thessaloniki, Greece
Oral Presentations	
	ID 592. **Fast method for the extraction, clean-up and quantification of human pharmaceuticals residues in biological samples using USE and d-SPE followed by LC-QToFMS analysis in SWATH mode**
	J.M. Peña-Herrera[1], N. Montemurro.[1], S. Chirón[2], S. Pérez[1] *[1]Water and Soil Quality Research Group, Dep. of Environmental Chemistry, IDAEA-CSIC, Barcelona, Spain* *[2]UMR HydroSciences 5569, University of Montpellier, France*
	ID 310. **Development of SPE-LC-HRMS methodusing suspect screening SWATH® technology for the detection of halogenated pharmaceuticals and their phototransformation products in surface waters**
	E. Fagnani[1,2], N. Montemurro[2], S.Pérez[2] *[1]School of Technology, University of Campinas (UNICAMP), Brazil* *[2]Department of Environmental Chemistry, Institute of Environmental Assessment and Water Research from the Spanish Council for Scientific Research (IDAEA-CSIC), Spain*
	ID 418. **Target, Suspect and Non-target screening of Dioxin-like Compounds in Environmental Samples Using a Sensitive High-resolution Time-of-flight Mass Spectrometer**
	Haglund P.[1], Eno N.[2], Nieto S.[2] *[1]Department of Chemistry, Umea University, Sweden* *[2]Agilent Technologies, USA*
	ID 338. **Comprehensive workflow and strategies for target and suspect screening in direct injected samples in combination with LC-HRMS and LC-MS/MS**
	Huber C.[1,2], Schulze T.[1], Müller E.[1,2], Brack W.[1,2], Krauss M.[1] *[1]UFZ – Helmholtz Centre for Environmental Research, Department Effect-Directed Analysis, Germany* *[2]RWTH Aachen University, Institute for Environmental Research (Biology V), Department of Ecosystem Analysis (ESA), Germany*

	ID 385. **Multi-residue analysis of personal care products using UHPLC-HRMS/MS (Orbitrap™) mass spectrometry**
	Kademoglou K.[1], Miralles A.[1],Vrtiak, F.[1], Melymuk L.[1], Klanova J.[1] *[1]Research Centre for Toxic Compounds in the Environment (RECETOX), Masaryk University, Czech Republic*
14:30-16:30	*Monday,* **Conference Hall C: Session 1.3.C** **Urban contaminants: control measures, remediation actions and toxicological implications** **Chairs: Silvia Lacorte,** Department of Environmental, Chemistry, Idaea-Csic, Barcelona, Spain **Athanasios Katsoyiannis,** Joint Research Centre of the European Commission, Ispra, Italy
Oral Presentations	
	ID 351. **Spectral characteristics and sources of dissolved organic matter in a heavily polluted urban stream of Chongqing, China**
	Chen Z. L.[1], Shao Y.[2], Lei Y. M.[1], Wang F. Y.[1] *[1]School of Urban Construction and Environmental Engineering, Chongqing University, China* *[2]College of Bioengineering, Chongqing University, China*
	ID 271. **Levels of volatile methylsiloxanes in Atlantic and Mediterranean coastal environments**
	Ratola N.[1], Homem V.[1], Rocha F.[1], Espregueira C.[1], Sá H[1]., Capela D.[1] and Castro-Jiménez J.[2] *[1]LEPABE, Faculty of Engineering, University of Porto, Portugal* *[2]Mediterranean Institute of Oceanography (MIO), Aix Marseille University, France*
	ID 390. **Monitoring of volatile organic compounds in industrial and urban atmospheres by using passive sampling**
	L. Vallecillos[a]; R.M.Marcé[b]; Borrull, F.[a,b] *[a]Centre Tecnològic de la Química-Eurecat, Spain* *[b]Department of Analytical Chemistry and Organic Chemistry, Universitat Rovira i Virgili, Campus Sescelades, Spain*
	ID 130. **The effect of the chemical properties of pharmaceuticals on their adsorption processes to environmental surfaces**
	Szabó L.[1,2], Szalai Z.[1,2], Kondor A.[2], Vancsik A.[2], Gáspár L.[2], Jakab G.[1,2,3], Ringer M. [2] and Filep T.[2] *[(1)]Research Centre for Astronomy and Earth Sciences Hungarian Academy of Sciences, Geographical Institute, Hungary* *[(2)]Eötvös Loránd University, Faculty of science, Environmental and Landscape Geography, Hungary* *[(3] Institute of Geography and Geoinformatics, University of Miskolc, Hungary*
	ID 110. **How to quantify polar metabolites of pesticides in water: an analytical challenge**
	A. Guillon, C. Videloup, I.Baudin, H. Bertin, M. Esperanza *SUEZ-CIRSEE, France*
16:30-17:00	**Coffee Break**
17:00-19:00	*Monday,* **Conference Hall A: Session 1.4.A** **Analytical Chemistry in environmental monitoring and chemistry studies** **Chairs: Aristidis Anthemidis,** Aristotle University of Thessaloniki, Greece **Marcela Alves Segundo,** University of Porto, Portugal
Oral Presentations	
	ID 383. **Development of a PTV-GC-MS method for determination of organophosphorus flame retardants and plasticizers in river water**

	Cristale J., Santos I. O., Fagnani E. *School of Technology, University of Campinas – UNICAMP, Brazil*
	ID 419. **The status of water quality in underground water wells in Berati district**
	M. Vasjari, A. Shehu, S. Duka, L. Vallja, N. Broli *Department of Chemistry, Faculty of Natural Sciences, University of Tirana, Albania*
	ID 538. **Green methodology for PAH analysis: Accelerated solvent extraction with dispersive liquid-liquid microextraction prior to chromatographic analysis**
	Arias Arias S., Ramos C.D., Molina F. J. *Grupo GAIA, Escuela Ambiental, Facultadde Ingeniería, Universidad de Antioquia UdeA, Colombia*
	ID 440. **Fabric phase sorptive extraction: a total sample preparation solution to serve high throughput modern analytical laboratories**
	Abuzar Kabir *Department of Chemistry and Biochemistry, Florida International University, USA*
	ID 361. **Application of molecular imprinted polymers (MIPs)as extracting media for the chromatographic determination of industrial chemicals: A case study of bisphenol A**
	Kalogiouri Natasa,Tsalbouris Athanasios, Kabir Abuzar, Furton Kenneth, Samanidou Victoria *Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 373. **Electrochemical impedance spectroscopy studies in screen printed electrode technology for heavy metal trace analysis**
	Xhanari K.[a, b], Majer D.[b], Finšgar M.[b] *[a]University of Tirana, Faculty of Natural Sciences, Albania* *[b] University of Maribor, Faculty of Chemistry and Chemical Engineering, Slovenia*
	ID 554. **Comparison of electroanalytical performances of the BiSnFE, BiFE and SnFE modified glassy carbon electrodes for the trace heavy metal analysis: A detailed EIS study**
	Xhanari K.[a, b], Petovar B.[b], Finšgar M.[b] *[a]University of Tirana, Faculty of Natural Sciences, Albania* *[b]University of Maribor, Faculty of Chemistry and Chemical Engineering, Slovenia*
	ID 485. **Correlation Between Process Variables And Quantity Of Phytochemicals In Red Beet (*Beta Vulgaris*) Peel Extract**
	Moh Moh Zin, Edit Márki, Szilvia Bánvölgyi *SzentIstván University, Department of Food Engineering, Hungary*
17:00-19:00	*Monday,* **Conference Hall B: Session 1.4.B** **Investigating the environmental fate and ecotoxicology of glyphosate** **Chairs: Laura McConnell,** Bayer Crop Science, USA **Ester Heath,** Jožef Stefan Institute, Slovenia **Keynote Speakers: Keith Solomon,** University of Guelph, School of Environmental Sciences, Canada **Steven Levine,** Bayer, Senior Science, Fellow, USA **Stephen O. Duke,** USDA-ARS, Research Leader, Natural Products Utilization Research Laboratory, USA
Oral Presentations	
	ID 398. Keynote Speech. Ecotoxicology of formulated glyphosate: The role of the active and the formulants
	K. Solomon[1], J.L. Rodriguez Gil[2], R. Prosser[3] *[1]Centre for Toxicology, School of Environmental Sciences, University of Guelph, Canada* *[2]Department of Biology, University of Ottawa, Canada* *[3]School of Environmental Sciences, University of Guelph, Canada*
	ID 312. Keynote Speech. Glyphosate's accumulation in and influence on plant disease, mineral nutrition, and associated microbiota of glyphosate-resistant soybean and maize

	Stephen O. Duke *Natural Products Utilization Research Unit, Agricultural Research Service, United States Department of Agriculture, Cochran Research Center, School of Pharmacy, USA*
	ID 582. **Mitigating glyphosate levels in surface waters in an agricultural catchment**
	Seuntjens P.[1,2], Joris I.[1,3], Quaglia G.[1,2], Desmet N.[1], Boënne W.[1], Koopmans K.[4], Nelissen V.[4], Bylemans D.[4] *[1]VITO, Unit Environmental Modeling, Belgium* *[2]Ghent University, Dept. Environment, Belgium* *[3]University of Antwerp, Dept. Bioscience Engineering, Belgium* *[4]Pcfruit npo, Belgium*
	ID 235. Keynote Speech. A review of exposure and effects studies that support pollinator risk assessments for glyphosate globally
	Levine S.L. and Manson P.S. *Bayer CropScience, USA*
17:00-19:00	*Monday,* **Conference Hall C: Session 1.4.C** **Humic Substances: environmental dynamics and impact on water quality** **Chairs: Yiannis Deligiannakis,** University of Ioannina, Greece **Gudrun Abbt-Braun,** Chair of water chemistry and water technology, Karlsruhe Institute of Technology, Germany **Keynote Speaker: Gudrun Abbt-Braun,** Chair of water chemistry and water technology, Karlsruhe Institute of Technology, Germany
Oral Presentations	
	ID 52. Keynote Speech. Humic Substances in the Environment: Implication on Water Quality
	Abbt-Braun G. *Karlsruher Institute for Technology (KIT), Engler-Bunte-Institut, Water Chemistry and Water Technology, Germany*
	ID 37. **Photochemical production of sulfate and methanesulfonic acid from dissolved organic sulfur: occurrence and mechanistic insights**
	Ossola R.[1], Tolu J.[1,2], Clerc B.[1], Erickson P. R.[1], Winkel L. H[1,2]. and McNeill K.[1] *[1] Institute of Biogeochemistry and Pollutant Dynamics (IBP), ETH Zürich, Switzerland* *[2] EAWAG Swiss Federal Institute of Aquatic Science and Technology, Switzerland*
	ID 391. **Fractionation of humic acids on bacterial surfaces**
	V. Tikhonov, O. Drozdova, V. Demin *Lomonosov Moscow State University, Russia*
	ID 256. **Spectroscopic, photochemical and photoinactivating properties of dissolved organic matter in a constructed polishing wetland**
	Jannis Wenk *University of Bath, Department of Chemical Engineering, Water Innovation and Research Centre, UK*
	ID 511. **Toward a better knowledge of domestic sewage fluorescent dissolved organic matter: a study of its biological and physicochemical properties**
	Goffin A[1,2], Guérin S[2], Rocher V[2], Varrault G[1] *[1]LEESU, Université Paris-Est (UMR MA 102), UPEC, Ecole des Ponts ParisTech, AgroParisTech, France* *[2]SIAAP, Direction Innovation Environnement, France*
	ID 315. **Diel monitoring of dissolved organic matter in the Deûle River**
	Superville P.-J., Adusei-Gyamfi J., Dumoulin D., Criquet J., Cornard J.-P., Billon G. *LASIR CNRS UMR 8516, Université de Lille, France*
19:00-19:15	**Coffee Break**

19:15-20:15	*Monday,* **Conference Hall A: Session 1.5.A** **Identifying critical nutrient emission zones in landscapes: a key for reducing water eutrophication?** **Chairs: Malgorzata Grybos,** University of Limoges, France **Gerard Gruau,** Université de Rennes 1, France **Keynote Speaker: Erwin Klumpp,** Agrosphere, Institute of Bio and Geosciences, (Jülich Research Centre), Germany
Oral Presentations	
	ID 247. Keynote Speech. Nanocolloidal phosphorus in soils and streams
	E. Klumpp *Institute of Bio- and Geosciences, Agrosphere (IBG-3), Research Centre Jülich, Germany*
	ID 139. **Phosphorus adsorption capacity of sediment across cascade dam reservoirs: a case study of Age complex(Central France)**
	Grybos M., Rapin A, Rabiet M., Suo X. and Deluchat V. *Limoges University, PEIRENE EA 7500, France*
	ID 138. **Characterization and quantification of mobilizable colloids and associated phosphorus(P) from wet and dried dam sediment**
	Nguyen N. D., Grybos M., Rabiet M., Deluchat V. *Limoges University, PEIRENE EA 7500, France*
	ID 518. **Assessment of protocols for colloid extraction from sediment**
	Nguyen N. D., Grybos M., Rabiet M., Deluchat V. *Limoges University, PEIRENE EA 7500, France*
19:15-20:15	*Monday,* **Conference Hall B: Session 1.5.B** **General Session** **Chairs: Christian Klampfl,** Institute of Analytical Chemistry, Johannes Kepler University Linz, Austria **Santos Lucia-Helena,** Catalan Institute for Water Research (ICRA), Spain
Oral Presentations	
	ID 22. **Interaction between plants and pharmaceuticals: translocation and metabolization of drugs after uptake from water**
	Klampfl C.W.[1], Emhofer L.[1], Mlynek F.[1], Reichl B.[1], Himmelsbach M.[1], Buchberger W.[1], Zezulka S.[2], Triska J.[3] *[1] Institute of Analytical Chemistry, Johannes Kepler University Linz, Austria* *[2] Institute of Experimental Biology, Faculty of Science, Masaryk University, Czech Republic* *[3] Academy of Sciences of the Czech Republic, Global Change Research Institute, Czech Republic*
	ID 145. **Metabolic response of fish to the psychiatric drug venlafaxine using a combined target and non-target screening approach**
	Santos L. H. M. L. M.[1]; Maulvault A. L.[2]; Jaén-Gil A.[1]; Marques A.[2]; Barceló D.[1,3]; Rodríguez-Mozaz S.[1] *[1]Catalan Institute for Water Research (ICRA), Spain* *[2]Portuguese Institute for the Sea and Atmosphere (IPMA, I.P.), Portugal* *[3]IDAEA-CSIC, Spain*
	ID 230. **Transformation of selected pharmaceuticals and personal care products by *trichoderma* species**
	Rayana Manasfi[1,2], Monica Brienza[1], Nicola Montemurro[2], Sandra Perez[2], Serge Chiron[1] *[1]UMR HydroSciences 5569, HSM, Montpellier University, France* *[2]Department of Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA),Spanish Council for Scientific Research (CSIC), Spain*

	ID 358. **Influence of natural amino acids on CuO nanoparticles antimicrobial activity**
	Badetti E.[1], Calgaro L.[1], Falchi L.[1], Bonetto A.[1], Bettiol C.[1], Leonetti B.[2], Ambrosi E.[2], Zendri E.[1], Marcomini A.[1] *[1]DAIS - Department of Environmental Sciences, Informatics and Statistics, University Ca' Foscari of Venice, Italy* *[2]DMSN - Department of Molecular Sciences and Nanosystems, University Ca' Foscari of Venice, Italy*
19:15-20:15	*Monday,* **Conference Hall C: Session 1.5.C** **Humic Substances: environmental dynamics and impact on water quality** **Chairs: Yiannis Deligiannakis,** University of Ioannina, Greece **Gudrun Abbt-Braun,** Chair of water chemistry and water technology, Karlsruhe Institute of Technology, Germany **Keynote Speaker: Norbert Hertkorn,** Helmholtz Zentrum Muenchen - German Research Center for Environmental Health, Research Unit Analytical BioGeoChemistry, Germany
Oral Presentations	
	ID 522. Keynote Speech Pelagic Sargassum brown algae release significant proportions of phlorotannins into the oceans
	L. Powers[a], N. Hertkorn[b], N. McDonald[c,d], P. Schmitt-Kopplin[b,e], R. Del Vecchio[f], N. Blough[g], and M. Gonsior[a] *[a]University of Maryland Center for Environmental Science, Chesapeake Biological Laboratory, USA* *[b]Helmholtz Zentrum Muenchen - German Research Center for Environmental Health, Research Unit Analytical BioGeoChemistry, Germany* *[c]Bermuda Institute of Ocean Sciences, Bermuda* *[d]GEOMAR Helmholtz Centre for Ocean Research, Kiel, Germany* *[e]Technische Universität München, Chair of Analytical Food Chemistry, Germany* *[f]University of Maryland, Earth System Science Interdisciplinary Center, USA* *[g]University of Maryland, Department of Chemistry and Biochemistry, USA*
	ID 371. **Antioxidant properties of humic acids extracted from saltmarsh soils (Marano and Grado Lagoon, northern Adriatic Sea)**
	Bravo C.[1,2], Khakbaz A.[1], Toniolo R.[1], Millo C.[3], Contin M.[1], De Nobili M.[1] *[(1)]Department of Agricultural Food Environmental and Animal Sciences, University of Udine, Italy* *[(2)]Department of Life Sciences, University of Trieste, Italy* *[(3)]Oceanographic Institute, University of Sao Paulo, Brazil*
	ID 380. **Aerobic biodegradability potential of organic matterfrom dam sediment: impact of association with mineral and/or of nature of organic matter?**
	Bascle S., Bourven I., Baudu M. *Laboratoire PEIRENE, EA 7500, Université de Limoges, France*
	ID 173. **A NMR perspective on the effects of drinking water treatment on the structure and composition of dissolved organic matter (DOM)**
	Norbert Hertkorn[a], Anna Andersson[b], Elin Lavonen[c], Mourad Harir[a,d], Michael Gonsior[e], Philippe Schmitt-Kopplin[a,d], Henrik Kylin[b], Susanne Karlsson[b], Kerstin Nilsson[f], Ämma Petterson[g], Helena Stavklint[h] and David Bastviken[b] *[a]German Research Center for Environmental Health, Helmholz Zentrum Munich, Germany* *[b]Department of Thematic Studies – Environmental Change, Linköping University, SSweden* *[c]Norrvatten, Kvalitet och Utveckling, Sweden* *[d]Technische Universität München, Chair of Analytical Food Chemistry, Germany* *[e]Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science, United States* *[f]VA SYD, Sweden* *[g]Nodra, Sweden* *[h]Tekniska verken i Linköping, Sweden*

TUESDAY June 18, 2019 pages. 40-49	
08:00	**Registration and Welcome Coffee**
09:00-10:00	*Tuesday,* **Conference Hall A: Plenary Speaker** **Professor Mathias Ernst** Technical University of Hamburg, Germany *"Cons and Pros of NOM presence in the operation of membrane separation processes"*
10:00-11:30	*Tuesday,* **Conference Hall A: Session 2.1.A** **Innovation in drinking water treatment** **Chairs: Mathias Ernst,** Technical University of Hamburg, Germany **Ioannis Katsoyiannis,** Aristotle University of Thessaloniki, Greece **Keynote Speaker: Stefan Panglisch,** University of Duisburg-Essen, Germany
Oral Presentations	
	ID 601. Keynote Speech. Raising synergy effects in hybrid membrane processes
	S. Panglisch[1,2], G. Hoffmann[1], M. Koti[2], C. Ganassi[3], F. Urban[4] *[1]University Duisburg-Essen (UDE), Chair of Mechanical Process Engineering/ Water Technology, Germany* *[2]IWW Rheinisch-Westfälisches Institut für Wasserforschung gemeinnützige GmbH, Germany* *[3]ewl energie wasser luzern, Switzerland* *[4]H2U aqua.plan.Ing-GmbH, Germany*
	ID 242. **Effect of Water Matrix on Arsenic Removal Using Three Iron Oxide-based Adsorbents**
	Usman M.[1], Katsoyiannis I.[2], Tasawwar S.[1], and Ernst M.[1] *[1]Institute for Water Resources and Water Supply, Hamburg University of Technology, Germany* *[2]Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 318. **Enhanced removal of crystal violet dye by raw and activated natural clay**
	F.Ankouri, H. Lamkhanter and H. Mountacer *Laboratory of Sciences of the Environment and Development, Ecological chemistry team, Faculty of Sciences and Techniques, University Hassan 1st, Morocco*
	ID 213. **Occurrence and fate of benzophenone and caffeine – from WWTP to potential scenario of direct river water treatment by hybrid ultrafiltration processes**
	M. Bogunović, M. Panić, N. Banduka and I. Ivančev-Tumbas *University of Novi Sad, Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental Protection, Republic of Serbia*
	ID 492. **Rural water usage in Southern India: a comparison of household water sources and their health implications**
	Buryk-Iggers S.[1], Merchant P.[1], Moghareh-Dehkordy S.[1], Sai A.[2], Arya M.[2], Mai K.[1], Cornet S.[2] *[1]Ryerson University, Canada* *[2]Amrita Vishwa Vidyapeetham, Amritapuri Campus, India*
	ID 525. **Improvement of the microbial quality of drinking water in trains**
	Leroux S.[1], Deshayes S.[1], Georget Q.[1] and Puech S.[2] *[1]Rail Test Agency, France* *[2]Equipment Engineering Centre, France*

10:00-11:30	*Tuesday,* **Conference Hall B: Session 2.1.B** **Analytical Chemistry in environmental monitoring and chemistry studies** **Chairs: Zachariadis George,** Aristotle University of Thessaloniki, Greece **Bundanovic Maja,** Nanyang Technological University, Singapore
Oral Presentations	
	ID 240. **The use of tetrathiafulvalene to improve mercury determination in airborne particulate matter**
	M. Budanovic *Nanyang Technological University, Singapore*
	ID 463. **Fast, sensitive and selective determination of glyphosate in water samples with a white light reflectance spectroscopy biosensor**
	Stavra E.[a,b], Petrou P.[a], Economou A.[b], Misiakos K.[c], Raptis I.[d], Kakabakos S.[a] *[a]Immunoassays-Immunosensors Lab, INRASTES, NCSR "Demokritos", Greece* *[b]Analytical Chemistry Lab, Department of Chemistry, University of Athens, Greece* *[c]Institute of Nanoscience & Nanotechnology, NCSR "Demokritos", Greece* *[d]Theta Metrisis S.A., Greece*
	ID 241**. Application of stable isotopes in environmental studies: sources, transport and fate of pollutants**
	Ogrinc Nives[1] and Holger Hintelmann[2] *[1]Jožef Stefan Institute, Slovenia* *[2]Trent University, Canada*
	ID 456. **Determination of hydrocortisone in wastewater by magnetic solid phase extraction based on beta-cyclodextrin decorated magnetic activated carbon material and liquid chromatographic analysis**
	Anele Mpupa[1], Geaneth P. Mashile[1], Boris Mizaikoff[1,2], Philiswa N. Nomngongo[1] *[1]Department of Chemical Sciences, University of Johannesburg, Doornfontein Campus, South Africa* *[2]Institute of Analytical and Bioanalytical Chemistry, Ulm University, Germany*
	ID 458. **Laser based technique for CO_2 flux measurements**
	Danijela Smajgl[1], Magda Mandic[1] *[1]Thermo Fisher Scientific GmbH, Germany*
	ID 300. **Towards the revision of the Drinking Water Directive 98/83/EC. Development a direct injection ion chromatographic-tandem mass spectrometric method for the monitoring of fifteen common and emerging disinfection by-products along the drinking water supply chain**
	Bruzzoniti M.C.[1], Castiglioni M.[1], Rivoira L.[1], Meucci L.[2], Binetti R.[2], Fungi M.[2] *[1]Department of Chemistry, University of Turin, Italy* *[2]SMAT S.p.A., Research Centre, Italy*
10:00-11:30	*Tuesday,* **Conference Hall C: Session 2.1.C** **Micropollutants and microplastics in the aquatic environment** **Chairs: Dimitra Voutsa,** Aristotle University of Thessaloniki, Greece **Denise M. Mitrano,** Eawag – Swiss Federal Institute of Aquatic Science and Technology, Switzeland **Keynote Speaker: Denise M. Mitrano,** Eawag – Swiss Federal Institute of Aquatic Science and Technology, Switzeland
Oral Presentations	
	ID 32. Keynote Speech. Synthesis of metal doped nanoplastic particles and microplastic fibers and their utility for investigating plastic fluxes in complex matrices

	Stefan Frehland[1], Ralf Kägi[1], Rudolf Hufenus[2], Denise M. Mitrano[1] *[1]Eawag – Swiss Federal Institute of Aquatic Science and Technology, Switzerland* *[2]EMPA - Swiss Federal Laboratories for Materials Science and Technology, Switzerland*
	ID 184. **Identification of polar halogenated micropollutants in surface waters using suspect screening strategies based on regulatory databases**
	Menger F.[1], Ahrens L.[1], Wiberg K.[1], Gago-Ferrero P.[2] *[1]Department of Aquatic Sciences and Assessment, MVM building, Swedish University of Agricultural Sciences (SLU), Sweden* *[2]Catalan Institute for Water Research (ICRA), H2O Building, Scientific and Technological Park of the University of Girona, Spain*
	ID 57. **Micropollutants from municipal wastewater treatment plants - a coordinated and harmonised Germany-wide monitoring as a basis for a realistic emission inventory**
	Fuchs S.[1], Toshovski S. [1], Kaiser M. [1], Sacher F.[2], Thoma A.[2], Ullrich A.[3], Meier C.[3], Pohl K.[3], Lambert B.[4] *[1]Karlsruhe Institute of Technology, Institute for Water and River Basin Management, Germany* *[2]DVGW-Technologiezentrum Wasser, Abteilung Analytik und Wasserbeschaffenheit, Germany* *[3]Federal Environment Agency, Germany* *[4]BIOPLAN-Landeskulturgesellschaft, Germany*
	ID 152. **Development of methods for the advanced monitoring of emerging contaminants in environmental samples from the Asopos river basin by UPLC-QToF-MS**
	Nikolopoulou V.I., Nika M.-C., Aalizadeh R., Thomaidis N.S. *National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Analytical Chemistry, Greece*
	ID 530. **The use of biofilm as a potential passive sampler of micropollutants**
	G. Reichert[1], S. Hilgert[2], S. Fuchs[1,2], J.C.R.Azevedo[1,3] *[1]Universidade Federal do Paraná, Brazil* *[2]Karlsruhe Institut für Technologie, Germany* *[3]Universidade Tecnológica Federal do Paraná, Brazil*
11:30-12:00	**Coffee Break**
12:00-13:30	*Tuesday,* **Conference Hall A: Session 2.2.A** **Environmental fate of contaminants** **Chair: Jans Urs,** City College of New York, USA
Oral Presentations	
	ID 280. **Photodegradation of oxolinic acid in aquatic environments using simulated solar radiation**
	Louros V. [1], Silva C.P.[1], Otero M. [2], Nadais H. [2], Esteves V.I.[1], Lima D.L.D.[1,3] *[1]CESAM & Department of Chemistry, Universityof Aveiro, Campus de Santiago, Portugal* *[2]CESAM & Department of Environment and Planning, Universityof Aveiro, Campus de Santiago, Portugal* *[3]Instituto Politécnico de Coimbra, ESTESC-Coimbra HealthSchool, ComplementarySciences, Portugal*
	ID 353. **Isomer specific reduction of hexabromocyclododecane by Fe(II) in iron oxide suspensions**
	Jans U.[1], Zhang X., Hohenstein E., Roopnarine K. *[1]City College of New York, USA* *Graduate Center of the City University of New York, USA*
	ID 376. **Photodegradation and transformation of PAHs under simulated sunlight**
	Seopela M.P.[1,2], Gonsior M.[1], and Powers L.[1] *[1]University of Maryland Center for Environmental Science, Chesapeake Biological Laboratory, USA* *[2]Tshwane University of Technology, Department of Chemistry, South Africa*
	ID 252. **Uptake and accumulation of commonly wastewater-derived pollutants in lettuce and radish grown in a controlled environment**
	Nicola Montemurro[1], Rayana Manasfi[2], Juan Manuel Peña-Herrera[1], Serge Chiron[2], Damià Barcelò[1], Sandra Perez[1] *[1]Department of Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA),*

	Spanish Council for Scientific Research (CSIC), Barcelona, Spain *[2]UMR HydroSciences 5569, HSM, Montpellier University, France*
12:00-13:30	*Tuesday,* **Conference Hall B: Session 2.2.B** **Air pollution-chemistry and health risks** **Chairs: Constantini Samara,** Aristotle University of Thessaloniki, Greece **Gerhard Lammel,** Masaryk University, Brno, Czech Republic, Max Planck Institute for Chemistry, Mainz, Germany **Keynote Speaker: Gerhard Lammel,** Masaryk University, Brno, Czech Republic, Max Planck Institute for Chemistry, Mainz, Germany
Oral Presentations	
	ID 211. Keynote Speech. **Nitrated and oxygenated mono- and polyaromatic compounds in aerosols of polluted air, their bioavailability through inhalation and related toxic potentials**
	Lammel G.[1,2], Hilscherová K.[1], Codling G.P.[1], Kitanovski Z.[2], Kukučka P.[1], Kuta J.[1], Novák J.[1], Nováková Z.[1], Přibylová P.[1], Prokeš R.[1], Sáňka O.[1], Wietzoreck M.[2] *[1]Masaryk University, Research Centre for Toxic Compounds in the Environment, Czech Republic* *[2]Max Planck Institute for Chemistry, Multiphase Chemistry Dept., Germany*
	ID 501. **Chemical characterization of particulate matter from a petrochemical refinery in Brazil: impacts on human health**
	S. Caumo[1], A. Vicente[2], D. Custodio[3], C. Alves[2], P. C. Vasconcellos[1] *[1]Institute of Chemistry, University of Sao Paulo, Brazil* *[2]Centre for Environmental and Marine Studies, Department of Environment, Portugal* *[3]Department of Environmental Chemistry, Germany*
	ID 77. **Volatile organic compounds emission and secondary organic aerosols formation from organic waste products**
	Raluca Ciuraru[1], Julien Kammer[1], Marin Vojkovic[2], Corentin Berger[1], Yvain Carpentier[2], Céline Decuq[1], Florence Lafouge[1], Sabine Houot[1], Benjamin Loubet[1], Denis Petitprez[3], Cristian Focsa[2] *[1]UMR ECOSYS, INRA, AgroParisTech, Université Paris -Saclay, France* *[2]Laboratoire de Physique des Lasers, Atomes et Molécules (UMR CNRS 8523), Université de Lille 1 Sciences & Technologies, France* *[3]Physicochimie des Processus de Combustion et de l'Atmosphère PC2A, France*
	ID 150. **Decoding the structural features of urban water-soluble organic aerosols by advanced solid-state NMR analysis**
	Duarte R.[1], Duan P.[2], Mao J.[3], Chu W.[3], Duarte A. [1], Schmidt-Rohr K.[2] *[1]Department of Chemistry & CESAM, University of Aveiro, Portugal* *[2]Department of Chemistry, Brandeis University, USA* *[3]Department of Chemistry and Biochemistry, Old Dominion University, USA*
	ID 194. **Temporal impact of wildfires on PM_{10} and human mortality in Portugal**
	Tarín-Carrasco P.[1], Augusto S.[2,3], Turco M.[4], Ratola N.[5] and Jiménez-Guerrero, P.[1,6], *[1]Physics of the Earth, Regional Campus of International Excellence "Campus Mare Nostrum", Campus de Espinardo, University of Murcia, Spain* *[2]EPIUnit - Instituto de Saúde Pública, Universidade do Porto, Portugal* *[3]Centre for Ecology, Evolution and Environmental Changes, Faculdade de Ciências, Universidade de Lisboa,Portugal* *[4]Earth Science Department, Barcelona Supercomputing Center (BSC), Spain* *[5]LEPABE-Laboratory for Process Engineering, Environment, Biotechnology and Energy, Faculty of Engineering, University of Porto, Portugal* *[6]Biomedical Research Institute of Murcia (IMIB-Arrixaca), Spain*

12:00-13:30	*Tuesday,* **Conference Hall C: Session 2.2.C** **Micropollutants and microplastics in the aquatic environment** **Chairs: Dimitra Voutsa,** Aristotle University of Thessaloniki, Greece **Stephan Wagner,** Helmholtz-Center for Environmental Research, Germany
Oral Presentations	
	ID 182. **Sources of contamination of greywater in Paris conurbation**
	Deshayes S.[1,2], Bressy A.[2], Zedek S.[2], Eudes V.[1], Caupos E.[2] and Moilleron R.[2] *[1]Laboratoire Central de la Préfecture de Police, France* *[2]Leesu, UMR-MA 102 - UPEC, École des Ponts, AgroParisTech, France*
	ID 95. **Emerging organic contaminants in Irish groundwaters: investigating the occurrence of two commonly used groups of antiparasitic drugs in Irish agriculture, with determination by Solid Phase Extraction (SPE) and UHPLC-MS/MS detection**
	D. Mooney [1, 2, 5], M. Danaher [2], K. Richards [3,5], L. Gill [4, 5], P.E. Mellander [3], C. Coxon [1,5] *[1]Geology Department, School of Natural Sciences, Trinity College Dublin, Ireland* *[2]Food Safety Department, Teagasc Food Research Centre, Ireland* *[3]Environment, Soils and Land-Use Department, Environment Research Centre, Ireland* *[4]Department of Civil, Structural and Environmental Engineering, Trinity College Dublin, Ireland* *[5]Irish Centre for Research in Applied Geosciences (iCRAG), Ireland*
	ID 201. **Occurrence of pharmaceuticals in a river in southern Brazil**
	G. Reichert[1], J. Antonelli[1], T. C. Filippe[2], F. A. Brehm[2], J. C. R. Azevedo[1,2] *[1]Universidade Federal do Paraná, Brazil* *[2]Universidade Tecnológica Federal do Paraná, Brazil*
	ID 24. **Organosilicon benzene derivatives – first study on degradation processes**
	E. Grabitz, A.-K. Amsel, O.Olsson, K.Kümmerer *Leuphana University of Lüneburg, Germany*
	ID 90. **Ready biodegradability of the antineoplastic nitrogen mustard cyclophosphamide and its human metabolites**
	M. Suk, K. Kümmerer *Leuphana University of Lüneburg, Germany*
	ID 155. **Interactions between ammonia and amine-containing micropollutants affect their removal in activated sludge**
	C. Mansfeldt, M. Fermini, B. Vogler, S. Achermann, K. Fenner *Eawag (Swiss Federal Institute of Aquatic Science and Technology), Switzerland*
13:30-14:30	**Lunch Break**
14:30-16:30	*Tuesday,* **Conference Hall A: Session 2.3.A** **Urban contaminants: control measures, remediation actions and toxicological implications** **Chairs: Silvia Lacorte,** Department of Environmental, Chemistry, Idaea-Csic, Barcelona, Spain **Athanasios Katsoyiannis,** Joint Research Centre of the European Commission, Ispra, Italy
Oral Presentations	
	ID 9. **A new evaluation method of CO_2 storage capacity in coalbed reservoirs**
	Shanglin Yao, Mei Wu *Research Institute of Petroleum Exploration and Development, PetroChina, China*

	ID 91. **Importance of domestic releases in urban sewer networks: case of alkylphenols, phthalates and parabens in the Paris agglomeration**
	Bressy A.[1], Bergé A.[1,2], Deshayes S.[1,2], Rocher V.[3], Eudes V.[2], Moilleron R.[1] *[1]Leesu, UMR MA-102, ENPC, UPEC, AgroParisTech, UPE, France* *[2]Laboratoire Central de la Préfecture de Police, France* *[3]SIAAP – Direction Innovation Environnement, France*
	ID 94. **Origins of biocides in combined sewer overflows in urban areas**
	C. Paijens[1,2], A. Bressy[1], B. Frère[2], E. Caupos[1], R. Mailler[3], V. Rocher[3], P. Neveu[4] and R. Moilleron[1] *[1]Leesu, UMR-MA-102, Ecole des Pont ParisTech, Université Paris-Est Créteil, AgroParisTech, France* *[2]Laboratoire Central de la Préfecture de Police, France* *[3]SIAAP, Direction de l'Innovation et de l'Environnement, France* *[4]Mairie de Paris, Direction de la Propreté et de l'Eau, Service Technique de l'Eau et de l'Assainissement, France*
	ID 328. **Link anthropization and presence of pollutants on a territory: example of the ponds of the Plateau de Saclay**
	Nélieu S.[1], Delarue G.[1], Bernet N.[1], Karolak S.[2], Barraud C.[2], Hanot C.[2], Levi Y.[2], Baudry E.[2], Lamy I.[1] *[1]INRA-AgroParisTech-Université Paris Saclay, UMR Ecosys, France* *[2]Université Paris-Sud, Université Paris Saclay, UMR ESE, France*
	ID 565. **Energy and Environmental Footprints of Urban Travel: The Case of the City of Montreal**
	Nayer Daher[a], Song Bai[a], Ehsan Moradi[a], Wooseok Do[a], Omid M. Rouhani[a] *[a]Department of Civil Engineering and Applied Mechanics, McGill University, Canada*
14:30-16:30	*Tuesday,* **Conference Hall B: Session 2.3.B** **Air pollution-chemistry and health risks** **Chairs: Constantini Samara,** Aristotle University of Thessaloniki, Greece **Gerhard Lammel,** Masaryk University, Brno, Czech Republic, Max Planck Institute for Chemistry, Mainz, Germany
Oral Presentations	
	ID 16. **Pesticides in rural and urban atmospheres: concentrations and risk assessment**
	Yera A.M. B.[1], Nascimento M.M.[2], Da Rocha G.O.[2], De Andrade J.B.[2] and Vasconcellos P. C.[1] *[1]Institute of Chemistry, University of São Paulo, Brazil* *[2]Institute of Chemistry, Federal University of Bahia, Brazil*
	ID 196. **NPAHs and OPAHs in the atmosphere of two central European cities: seasonality, urban-to-background gradients and gas-to-particle partitioning**
	Degrendele C.[1], Mikeš O.[1], Prokeš R.[1], Saňka O.[1], Holubová-Smejkalová A.[2,3], Husárová A.[1], Kanduč T.[4], Kocman D.[4], Horvat M.[4], Přibylová P.[1], Kukučka P.[1], Klánová J.[1], Maggos T.[5] and Lammel G.[1,6] *[1]Masaryk University, Research Centre for Toxic Compounds in the Environment, Czech Republic* *[2]Czech Hydrometeorological Institute, Czech Republic* *[3]Global Change Research Institute AS CR, Czech Republic* *[4]Department of Environmental Sciences, Jožef Stefan Institute, Slovenia* *[5]Environmental Research Laboratory, INRASTES, NCSR "Demokritos", Greece* *[6]Max Planck Institute for Chemistry, Multiphase Chemistry Department, Germany*
	ID 189. **Spatial distribution and chemical transformation of PAHs as well as Nitro- and Oxy-PAHs emitted from a coal-fired power plant in high Arctic**
	T. Drotikova[1,2], R. Kallenborn[2,1], A. K. Halse[3], A. M. M. Ali[2] *[1]University Centre in Svalbard, Department of Arctic Technology, Norway* *[2]Norwegian University of Life Sciences (NMBU), Department of Chemistry, Biotechnology and Food Science (IKBM), Norway* *[3]NILU – Norwegian Institute for Air Research (NILU), Environmental Chemistry Department (MILK), Norway*
	ID 115. **Global gridded atmospheric emissions of Tris-(1-chloro-2-propyl) phosphate (TCPP)**
	Li J.[†], Zhao F.Y.[‡], Xie Z.Y.[†], Ebinghaus R.[†], Emeis K.C.[†], Tian C.G.[§], MacLeod M.[‡] *[†]Helmholtz-ZentrumGeesthacht, Centre for Materials and Coastal Research, Institute of Coastal Research, Germany* *[‡]Department of Environmental Science and Analytical Chemistry, ACES, Stockholm University, Sweden* *[§]Key Laboratory of Coastal Environmental Processes and Ecological Remediation, Yantai Institute of Coastal Zone Research, CAS, China*

	ID 363. **Organic pollutants in indoor dust from the Ecuadorian Amazonia and health implications**
	Velázquez-Gómez M., Lacorte S. *Environmental Chemistry Department, IDAEA-CSIC, Spain*
	ID 114. **Analysis of vape smoke (Particle Size Distributions and Volatile Organic Compounds) emitted by e-Cigarette and Cigarette Users**
	E. Papaefstathiou[1], S. Bezantakos[2], M. Stylianou[1], A. Agapiou[1], and G. Biskos[2] *[1]University of Cyprus, Department of Chemistry, Cyprus* *[2]Energy, Environment and Water Research Center, The Cyprus Institute, Cyprus*
	ID 250. **Application of real-time measurement techniques in determination of monoterpene oxidation products**
	K. Pytel, B. Zabiegała, R. Marcinkowska *Gdańsk University of Technology, Faculty of Chemistry, Poland*
	ID 159. **Development of quartz crystal microbalance based sensor for real-time ozone monitoring**
	M. Guillemot, C. Ravera, B. Castel, E. Langlois *INRS-Institut national de recherche et de sécurité-1, France*
14:30-16:30	*Tuesday,* **Conference Hall C: Session 2.3.C** **Micropollutants and microplastics in the aquatic environment** **Chairs: Stephan Wagner,** Helmholtz-Center for Environmental Research, Germany **Jes Vollertsen,** Aalborg University, Denmark
Oral Presentations	
	ID 384. **Microplastic analysis of water samples – the devil is always in the details**
	Zumbülte N.[1], Witzig C. S.[1], Pittroff M.[1], Müller Y. K.[1] *[1]TZW: DVGW – Water Technology Center, Germany*
	ID 360. **An analytical approach for the identification and quantification of microplastic in environmental samples by an automated combination of optical particle analysis with FTIR and Raman microscopy**
	D. Fischer[a], A. Kaeppler[a], F. Fischer[a], J. Brandt[a], L. Bittrich[a] , J. Muche[a], A. Rödiger[a], K.-J. Eichhorn[a], R. Lenz[b], A. Tagg[b], K. Enders[b], M. Labrenz[b] *[a] Leibniz-Institut f. Polymerforschung Dresden, Germany* *[b] Leibniz-Institut f. Ostseeforschung Warnemuende, Germany*
	ID 141. **Detection of microplastic and tire wear particles in road run-off samples using TED-GC-MS**
	C. Goedecke[1], K. Altmann[1], P. Eisentraut[1], A. K. Barthel[2], C. G. Bannick[2], P. Lau[3], D. Venghaus[3], M. Barjenbruch[3], U. Braun[1] *[1]Bundesanstalt für Materialforschung und -prüfung (BAM), Germany* *[2]Umweltbundesamt (UBA), Germany* *[3]Technische Universität Berlin, Germany*
	ID 461. **Occurrence and concentration level of microplastic in sediments of Danube River, Hungary**
	Wael Almeshal[1], Anita Takács[2], Gyula Záray[2,3] *[1]Eötvös Loránd University, Faculty of Science, Doctoral School of Environmental Sciences, Hungary* *[2]Hungarian Academy of Sciences, Centre of Ecological Research, Danube Research Institute, Hungary* *[3]Eötvös Loránd University, Faculty of Science, Department of chemistry, Hungary*
	ID 465. **The interaction of microplastics and wastewater in urban sewers**
	Mitra Nikpay *Helmholtz-Zentrum Dresden-Rossendorf (HZDR), Institute of Fluid Dynamics, Germany*
	ID 39. **Development of a novel technological approach for the reduction of microplastic pollution in seawater desalination plants and for sea salt extraction**
	M. T. Sturm[1,2], K. Schuhen[1,] *[1]Wasser 3.0 / abcr GmbH, Germany* *[2]Karlsruher Institute of Technology (KIT), Engler-Bunte-Institute (EBI), Germany*

16:30-17:00	**Coffee Break**
17:00-19:00	*Tuesday,* **Conference Hall A: Session 2.4.A** **Risk assessment of emerging pollutants experimental and modelling approaches to fill the data gaps** **Chairs: Patrick Anderson,** Umea University, Sweden **Ester Papa,** QSAR Research Unit in Environmental Chemistry and Ecotoxicology University of Insubria, Italy **Keynote Speaker: Ester Papa,** QSAR Research Unit in Environmental Chemistry and Ecotoxicology University of Insubria, Italy
	Oral Presentations
	ID 319. Keynote Speech. Big challenges create big opportunities
	Papa E. *QSAR Research Unit in Environmental Chemistry and Ecotoxicology, Department of Theoretical and Applied Sciences, University of Insubria, Italy*
	ID 285. **Influence of the data gaps on the green assessment with multi-criteria decision analysis for ionic liquid as alternative solvents**
	M. Bystrzanowska, M. Tobiszewski *Gdańsk University of Technology, Faculty of Chemistry, Poland*
	ID 306. **Alternative assessment of hazardous chemicals by combining *in silico* tools with multicriteria decision analysis**
	Ziye Zheng[1], Gregory Peters[2,3], Hans Peter H. Arp[4,5], Patrik L. Andersson[1] *[1]Department of Chemistry, Umeå University, Sweden* *[2]Division of Environmental Systems Analysis, Chalmers University of Technology, Sweden* *[3]Department of Civil and Environmental Engineering, University of New South Wales, Australia* *[4]Department of Environmental Engineering, Norwegian Geotechnical Institute, Norway* *[5]Department of Chemistry, Norwegian University of Science and Technology (NTNU), Norway*
	ID 414. **Uptake and translocation of perfluoroalkyl acids (PFAAs) in red chicory grown under varying contamination conditions: A greenhouse study**
	Gredelj A.[1], Nicoletto C.[2], Ferrario C.[3], Valsecchi S.[3], Polesello S.[3], PrenzatoM.[4], CecchinatoC.[4], Barausse A.[1], Palmeri L.[1], Guidolin L.[5], Bonato M.[5] *[1]Department of Industrial Engineering, University of Padova, Italy* *[2]Department of Agronomy Food, Natural resources, Animals and Environment (DAFNAE), University of Padova, Italy* *[3]Water Research Institute - National Research Council of Italy (IRSA-CNR), Italy* *[4]ARPAV (Regional Environmental Protection Agency of Veneto), Italy* *[5]Department of Biology, University of Padova, Italy*
	ID 293. **Differential toxicity of chlorinated wastewater effluents on genetically modified bacteria and naturally occurring cyanobacteria**
	Bhuvaneshwari M.[1],Evgeni E.[2], Boris V.[2], Orr S.[2], Borisover M.[1] *[1]Institute of Soil, Water and Environmental Sciences, Israel* *[2]Institute of Postharvest and Food Science Agricultural Research Organization, The Volcani Center, Israel*
17:00-19:00	*Tuesday,* **Conference Hall B: Session 2.4.B** **Air pollution-chemistry and health risks** **Chairs: Constantini Samara,** Aristotle University of Thessaloniki, Greece **Gerhard Lammel,** Masaryk University, Brno, Czech Republic, Max Planck Institute for Chemistry, Mainz, Germany
	Oral Presentations

	ID 237. **Spatial and temporal trends of fineorganic carbon volatility fractions (OCx) sources across five sites in the Los Angeles Basin**
	E. Soleimanian[a], A. Mousavi[a], S. Taghvaee[a], M. H. Sowlat[a], S. Hasheminassab[b], A. Polidori[b], C. Sioutas[a] *[a]University of Southern California, Department of Civil and Environmental Engineering, USA* *[b]South Coast Air Quality Management District, USA*
	ID 307. **Exposure to Polycyclic Aromatic Hydrocarbons and the risk of adult Leukemia in Greece**
	K. G. Koukoulakis[1], P. G. Kanellopoulos[1], E. Chrysohou[1], V. Katseli[1], V. Koukoulas[1], M. Minaidis[2], G. K. Maropoulos[2], D. Nikolelis[3] and E. Bakeas[1] *[1]Laboratory of Analytical Chemistry, National and Kapodistrian University of Athens, Greece* *[2]General Hospital of Athens "LAIKO", Greece* *[3]Laboratory of Environmental Chemistry, National and Kapodistrian University of Athens, Greece*
	ID 191. **Population exposure to particulate-matter and estimated excess mortality due to the Portuguese wildfires in October 2017 driven by Storm Ophelia**
	Tarín-Carrasco P.[1], Ratola N.[2], Turco M.[3], Jiménez-Guerrero P.[1,4] and Augusto S.[5,6] *[1]Physics of the Earth, Regional Campus of International Excellence "Campus Mare Nostrum", Campus de Espinardo, University of Murcia, Spain* *[2]LEPABE-Laboratory for Process Engineering, Environment, Biotechnology and Energy, Faculty of Engineering, University of Porto, Portugal* *[3]Earth Science Department, Barcelona Supercomputing Center (BSC), Spain* *[4]Biomedical Research Institute of Murcia (IMIB-Arrixaca), Spain* *[5]EPIUnit - Instituto de Saúde Pública, Universidade do Porto, Portugal* *[6]Centre for Ecology, Evolution and Environmental Changes, Faculdade de Ciências, Universidade de Lisboa (CE3C-FC-ULisboa), Portugal*
	ID 407. **Ornamental trees to mitigate air pollution: pilot study at EUPHORE facilities**
	Vera T., Borrás E., Ródenas M., Calatayud V., Calvo E., Gómez T., Muñoz A. *Fundación CEAM, EUPHORE, Spain*
	ID 275. **Evaluation of Polycyclic Aromatic Hydrocarbon emissions in particulate phase from diesel/palm oil biodiesel fuel blends using a green methodology**
	Arias Arias S., Agudelo J.R., Molina F. J. *GAIA Laboratory, Faculty of Engineering, Universidad de Antioquia UdeA, Colombia*
	ID 346. **Comparison of 3D printed substrate with conventional extruded honeycomb monolith for catalytic converter applications**
	Hajimirzaee S., Davidson C., Shaw D., Doyle A. M. *Manchester Metropolitan University, UK*
	ID 322. **Atmospheric aqueous-phase reactions of OH radicals with methoxyphenolic compounds: A kinetic and theoretical study**
	L. He[1], T. Schaefer[1], A. Kroflič[2,1], T. Otto[1] and H. Herrmann[1,3], *[1]Atmospheric Chemistry Department (ACD), Leibniz-Institute for Tropospheric Research (TROPOS), Germany* *[2]National Institute of Chemistry, Department of Analytical Chemistry, Slovenia* *[3]School of Environmental Science and Engineering, Shandong University, China*
17:00-19:00	*Tuesday,* **Conference Hall C: Session 2.4.C** **Micropollutants and microplastics in the aquatic environment** **Chairs: Dimitra Voutsa,** Aristotle University of Thessaloniki, Greece **Alexandra Tubic,** University of Novi Sad, Republic of Serbia
Oral Presentations	
	ID 344. **Determination of emerging contaminants in leachates originated from Greek landfills by LC-QTOFMS and investigation of their potential ecological threat**
	Ntaiou K.[1], Elytis K.[2], Nika M.C.[2], Thomaidi V.S.[1], Gatidou G.[1], Thomaidis N.S.[2*], Stasinakis A.S.[1] *[1]University of the Aegean,Department of Environment, Water and Air Quality Laboratory, Greece* *[2]National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Analytical Chemistry, Greece*
	ID 126. **Relevance of three urban WWTPs in the dispersal of selected antibiotic resistance genes to receiving water bodies**

	Schwermer C.U., Krzeminski P., and Uhl W. *Norwegian Institute for Water Research, Norway*
	ID 321. **Using detected chemicals in drinking water and groundwater to scientifically justify PMT and vPvM criteria to identify persistent, mobile and toxic substances under REACH**
	Neumann M.[1]; Schliebner I. [1]and Arp H.P.H. [2.3] *[1]German Environment Agency (UBA), Section IV 2.3 Chemicals, Germany* *[2]Norwegian Geotechnical Institute (NGI), Norway* *[3]Department of Chemistry, NTNU, Norway*
	ID 279. **First Estimation of PCB Mass Budget in a Contaminated Peri-Alpine Lake Undergoing Natural Decontamination**
	T. Masset, C. Piot, N. Cottin, P. Fanget, E.Naffrechoux *Laboratoire de Chimie Moléculaire et Environnement (LCME), University Savoie Mont-Blanc, France*
	ID 516. **Adsorption mechanisms of persistent organic pollutants on primary microplastics in the aquatic environment**
	Tubić A., Lončarski M. , Apostolović T., Kragulj-Isakovski M., Tričković J., Molnar Jazić J., Agbaba J. *University of Novi Sad Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental Protection, Republic of Serbia*
	ID 295. **Mechanism of PCBs Bioaccumulation in Fish under Environmentally Representative Laboratory Conditions**
	Cottin N.[1], Perga M.[2], Fanget P.[1], Grange-Guermente M.[1,2], Naffrechoux E.[1] *[1]University Savoie Mont Blanc, LCME (Laboratory of Molecular Chemistry and Environment), France* *[2]INRA (French National Institute for Agronomical Research), CARRTEL (Alpine Research Centre for Lakes and Food webs), University Savoie Mont Blanc, France*
	ID 214. **Widening the choice of quality assurance/quality control tools for the analysis of brominated flame retardants: recent examples of sediment and fish certified reference materials**
	Ricci M.[a], Vorkamp K.[b], Magini M.[a] and Shegunova P.[a] *[a)]European Commission, Joint Research Center, Belgium* *[b)]Aarhus University, Department of Environmental Science, Denmark*
21:00	**Conference Gala Dinner** *Ioannis Vellidis Congress Center, Ellopia no.2, Leof. Stratou 3, Thessaloniki*

WEDNESDAY June 19, 2019 pages. 50-60	
08:00	**Registration and Welcome Coffee**
09:00-10:00	*Wednesday,* **Conference Hall A: Plenary Speaker** **Professor Urs von Gunten** Swiss Federal Institute of Aquatic Science and Technology (Eawag) & École Polytechnique Fédérale de Lausanne (EPFL), Switzerland *"Oxidative processes for water treatment: Are we on track?"*
10:00-11:30	*Wednesday,* **Conference Hall A: Session 3.1.A** **Oxidation and Advanced Oxidation processes in water and wastewater treatment** **Chairs: Urs von Gunten**, Swiss Federal Institute of Aquatic Science and Technology (Eawag) & École Polytechnique Fédérale de Lausanne (EPFL), Switzerland **Jannis Wenk,** University of Bath, UK **Keynote Speaker: Peter Tentscher,** Department of Chemistry and Bioscience Aalborg University, Denmark
Oral Presentations	
	ID 153. Keynote Speech. Oxidative micropollutant abatement: Options and limitations of quantum chemical computations
	Peter R. Tentscher *Department of Chemistry and Bioscience Aalborg University, Denmark*
	ID 134. **Ozonation of the antidiabetic sitagliptin: determination of reaction kinetics and identification of transformation products**
	Hermes N., Wick A., Ternes T. A. *Federal Institute of Hydrology, Germany*
	ID 208. **Evaluation of micropollutants removal in secondary effluent during ozone disinfection**
	Barbacena R. O.[1] , Cristale J.[1], Lacorte S.[2], Dantas R. F.[1] *[1]School of Technology, University of Campinas – UNICAMP, Brazil* *[2]Department of Environmental Chemistry, IDAEA-CSIC, Spain*
	ID 187. **Elucidating the formation and fate of ozonation transformation products in wastewater treatment with high-resolution mass spectrometry**
	J. E. Schollée, R. Gulde, M. Bourgin, M. Rutsch, J. Hollender, U. von Gunten, C. S. McArdell *Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland,* *Institute of Biogeochemistry and Pollutant Dynamics (IBP), Swiss Federal Institute of Technology (ETH Zurich), Switzerland* *School of Architecture, Civil and Environmental Engineering (ENAC), Ecole Polytechnique Fédérale de Lausanne, Switzerland*
	ID 183. **Transformation products in water treatment with ozone and biological post-treatment**
	C. S. McArdell, R. Gulde, M. Rutsch, J. E. Schollée, U. von Gunten *Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland* *School of Architecture, Civil and Environmental Engineering (ENAC), Ecole Polytechnique Fédérale de Lausanne*
	ID 536. **Developing a lab-scale continuous ozonation system merged with biofiltration (COMBI) to study biofiltration processes of ozonation products**
	Jannis Wenk *University of Bath, Department of Chemical Engineering, Water Innovation and Research Centre, UK*

10:00-11:30	*Wednesday,* **Conference Hall B: Session 3.1.B** **Soil Pollution and Monitoring** **Chairs: Levke Godbersen,** Agroscope, Bern, Vaud, Switzerland **Thomas Bucheli,** Agroscope, Bern, Vaud, Switzerland **Keynote Speaker: Andreas Schäffer,** RWTH Aachen University, Germany
Oral Presentations	
	ID 19. Keynote Speech. Environmental risk assessment of pollutants in soil under multiple stress
	Andreas Schaeffer[1], Wulf Amelung[2], Matthias Kaestner[3], Ellen Kandeler[4], Richard Ottermanns[1], Holger Pagel[4], Stephan Peth[5], Gerhard Rambold[6], Michael Schloter[7], Thilo Streck[4], Martina Roß-Nickoll[1] *[1]RWTH Aachen University, Institute for Environmental Research (Biology 5), Germany* *[2]Soil Science and Soil Ecology, Institute of Crop Science and Resource Conservation (INRES), University of Bonn, Germany* *[3]Helmholtz-Centre for Environmental Research – UFZ, Department of Environmental Biotechnology, Germany* *[4]Soil Science and Land Evaluation, University of Hohenheim, Germany* *[5]Department of Soil Science, University of Kassel, Germany* *[6]Systematic Botany and Mycology, University of Bayreuth, Germany* *[7]Helmholtz Zentrum München, Research Unit for Environmental Genomics, Germany*
	ID 46. **Simulation of time-dependent mixture exposure to pesticides in agricultural landscapes and estimation of effects on terrestrial organisms**
	A. Sybertz, R. Ottermanns, A. Schäffer, B. Daniels, B. Scholz-Starke, M.Roß-Nickoll *RWTH Aachen University, Institute for Environmental Research, Chair Environmental Biology and Chemodynamics, Germany*
	ID 221. **Influence of different pest management systems in potato production on pesticide residues in Cuban soils (PERECUSO)**
	Peña B.[1], Hilber I.[2], Sosa D.[1], Godbersen L.[3], Pérez N.[4], Escobar A.[1,5], Bucheli T.D.[2] *[1]Centro Nacional de Sanidad Agropecuaria (CENSA), Cuba* *[2]Agroscope, Environmental Analytics, Switzerland* *[3]Swiss Soil Monitoring Network NABO, Agroscope, Switzerland* *[4]Departamento de Sanidad Vegetal, Universidad Agraria de La Habana, Cuba* *[5]Departamento de Producción Agrícola Animal (DPAA). Universidad Autónoma Metropolitana-Unidad Xochimilco, México*
	ID 174. **Formation of hazardous polycyclic aromatic hydrocarbon breakdown products in contaminated soils using different forms of biotic and abiotic remediation**
	S. Simonich *Oregon State University, Department of Chemistry and Environmental and Molecular Toxicology, USA*
10:00-11:30	*Wednesday,* **Conference Hall C: Session 3.1.C** **Risk assessment of emerging pollutants experimental and modelling approaches to fill the data gaps** **Chairs: Patrick Anderson,** Umea University, Sweden **Ester Papa,** QSAR Research Unit in Environmental Chemistry and Ecotoxicology University of Insubria, Italy
Oral Presentations	
	ID 12. **Are the 16 EPA PAHs in Need of Overhaul after 40 Years of Faithful Service?**
	Jan T. Andersson and Christine Achten *University of Muenster, Germany*
	ID 14. **Non-extractable residues, an overlooked new hazard in the persistence assessment?**
	M. Telscher, F. Schmidt, C. Leake *Bayer Crop Science Division, Environmental Safety Department, Germany*

	ID 69. **Contaminants of emerging Arctic concern (CEAC) as indicators for risk evaluation in modern Arctic environmental assessments**
	Roland Kallenborn[1,2], Aasim M. M. Ali[1], Lars-Otto Reiersen[3] *[1]Norwegian University of Life Sciences (NMBU), Faculty of Chemistry, Biotechnology and Food Sciences (IKBM),Norway* *[2]University Centre in Svalbard (UNIS), Department of Arctic Technology (AT), Norway* *[3]Arctic Knowledge, Tromsø, Norway*
	ID 343. **Towards a Watch List for the Lagoon of Venice: identification of contaminants and emissions inventories**
	Lamon L., Marchese E., Bettiol C., Giubilato E., Marcomini A. *University Ca' Foscari Venice, Dept. of Environmental Sciences, Informatics and Statistics, Italy*
11:30-12:00	**Coffee Break**
12:00-13:30	*Wednesday,* **Conference Hall A: Session 3.2.A** **Oxidation and Advanced Oxidation processes in water and wastewater treatment** **Chairs: Urs von Gunten**, Swiss Federal Institute of Aquatic Science and Technology (Eawag) & École Polytechnique Fédérale de Lausanne (EPFL), Switzerland **Jannis Wenk,** University of Bath, UK **Keynote Speaker: Dionysios Dionyisiou,** University of Cincinnati, USA
Oral Presentations	
	ID 552 Keynote Speech. Overview of sulfate radical-based advanced oxidation processes in treatment of contaminants of emerging concern
	D. D. Dionysiou *Environmental Engineering and Science Program, University of Cincinnati, USA*
	ID 154. **The role of "long-lived" photooxidants in the transformation of aquatic organic contaminants photosensitized by dissolved organic matter**
	Remke S.[1,2], von Gunten U.[1,2] and Canonica S.[1] [1]Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland [2]School of Architecture, Civil and Environmental Engineering (ENAC), Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland
	ID 224. **Photochemical properties of photosensitizers in tropospheric aqueous solution**
	T. Felber, T. Schaefer, H. Herrmann *Leibniz Institute for Tropospheric Research (TROPOS), Atmospheric Chemistry Department (ACD), Germany*
	ID 394. **Photodegradation of water organic micropollutants by hybrid photosensitizer based on natural Halloysite**
	M. Aimeur[1, 2], F. Zermane[2], M. Baudu[1] *[1]PEIRENE, Limoges University – EA 7500, France* *[2]EEDD, Blida1 University, Algeria*
	ID 215. **Elimination of micropollutants in water by cavitation and cavitation-assisted methods**
	P. Braeutigam[1], M. Franke[1], S. Raufeisen[1], M. Weiße[1],M. Deggelmann[1], D. Paustian[1], M. Stelter[1,2] *[1]Center for Energy and Environmental Chemistry (CEEC Jena), Institute of Technical and Environmental Chemistry, Friedrich Schiller University Jena, Germany* *[2]Fraunhofer IKTS, Fraunhofer Institute for Ceramic Technologies and Systems, Germany*
	ID 352. **Towards a new technology: Ozonation of pharmaceuticals and their by-products in the presence of heterogeneous catalysts**
	S. Saeid[1], P. Tolvanen[1], M. Kråkström[2], N. Kumar[1], K. Eränen[1], J. P.Mikkola[1,3], T. Salmi[1] *[1]Laboratory of Industrial Chemistry and Reaction Engineering, Johan Gadolin Process Chemistry Centre, ÅboAkademi University, Finland* *[2]Laboratory of Organic Chemistry, Johan Gadolin Process Chemistry Centre, ÅboAkademi University, Finland* *[3]Technical Chemistry Department of Chemistry Chemical-Biological Center Umeå University, Sweden*

12:00-13:30	*Wednesday,* **Conference Hall B: Session 3.2.B** **Soil Pollution and Monitoring** **Chairs: Levke Godbersen,** Agroscope, Bern, Vaud, Switzerland **Thomas Bucheli,** Agroscope, Bern, Vaud, Switzerland
Oral Presentations	
	ID 144. **Sewage sludge: the main carrier of microplastics to agricultural soils**
	F. Corradini[a,b], P. Meza [b], E. Huerta-Lwanga [a,c], V. Geissen [a] *[a] Soil Physics and Land Management Group, Wageningen University & Research, Netherlands* *[b]Instituto de Investigaciones Agropecuarias, Chile* *[c]Agroecología, El Colegio de la Frontera Sur, Unidad Campeche, Mexico*
	ID 42. **Some features of soil pollution based on soil monitoring in Slovakia**
	Kobza J.[1, 2], and Makovníková J.[1] *[1]National Agricultural and Food Centre – Soil Science and Conservation Research Institute Bratislava, Regional working place Banská Bystrica, Slovakia* *[2]Matej Bel University Banská Bystrica, Slovakia*
	ID 291. **Sediment behavior in soil currently collected from the watersheds of the ancient huelgoat mine (Brittany, France): Pb-bearing phases**
	K. Nasri[1,2], G. Gregoire[1,2], A. Murat[1,2], M. Fiallo[3], P. Sharrock[3], M. Hanotel[2] *[1]Conservatoire National des Arts et Métiers [CNAM]- Institut des Sciences et Techniques de la Mer (INTECHMER)- Cherbourg- France* *[2]Université de Caen Normandie - Laboratoire Universitaire des Sciences Appliquées de Cherbourg (LUSAC), France* *[3]Université de Toulouse- Université PAUL SABATIER, France*
	ID 257. **Assessment of polycyclic aromatic hydrocarbonsin soil,grass, and milk in cattle farms of Havana and Mayabeque provinces**
	Sosa D.[1], Hilber I.[2], Bartolomé N.[2,3], Peña B.[1], Escobar A.[1,4], Bucheli T.D.[2] *[1]Centro Nacional de Sanidad Agropecuaria (CENSA), Cuba* *[2]Agroscope, Environmental Analytics, Switzerland* *[3]Department of Environmental Systems Sciences, ETH Zurich, Switzerland* *[4]Departamento de Producción Agrícola Animal (DPAA). Universidad Autónoma Metropolitana-Unidad Xochimilco, México*
	ID 365. **Nitrated and oxygenated polycyclic aromatic hydrocarbons in total atmospheric deposition and soils from background and urban sites of Central Europe**
	Bandowe B.A.M.[1], Wietzoreck M.[1], Nežiková B.[2], Čupr P.[2], Kukučka P.[2], Přibylová P.[2], Hofman J.[2], Martiník J.[2], Klánová J.[2], Pöschl U.[1], Lammel G.[1,2] *[1]Max Planck Institute for Chemistry, Multiphase Chemistry Department, Germany* *[2]Research Centre for Toxic Compounds in the Environment, Masaryk University, Czech Republic*
	ID 198. **Using lake sediments as a complementary tool in soil monitoring to prioritize plant protection products**
	Chiaia-Hernández A. C.[1,2] and Grosjean M.[1] *[1]Institute of Geography and OeschgerCenter for Climate Change Research, University or Bern, Switzerland* *[2]Eawag, Swiss Federal Institute of Aquatic Science and Technology (Eawag), Switzerland*
12:00-13:30	*Wednesday,* **Conference Hall C: Session 3.2.C** **Heavy metals and other inorganic pollutants in the environment and removal technologies** **Chairs: Doyle Aidan,** Division Chemistry & Environmental Science, Manchester Metropolitan University, UK **George Gallios,** Aristotle University of Thessaloniki, Greece **Keynote Speaker: Eleni Deliyanni,** Aristotle University of Thessaloniki, Greece
Oral Presentations	

	ID 596. Keynote Speech Carbonaceous nanomaterials for removal of heavy metals from wastewaters
	Eleni A. Deliyanni *Laboratory of General & Environmental Technology, Division of Chemical Technology, School of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 21. **Gellan Gum-based double network hydrogel for removal behaviour of Al(III) ions**
	Bengi Özkahraman *Hitit University, Faculty of Engineering, Department of Polymer Engineering, Turkey*
	ID 45. **Extraction of valuable metals from spent catalysts : Investigation of Roasting/Oxidation and Leaching stage**
	N. Xhaferaj[a,b], C. Pettinari[b], F. Maggiore[c] *[a]Agricultural University of Tirana, Albania* *[b]School of Pharmacy, Italy* *[c]Orim S.p.A, Italy*
	ID 60. **Surface modification of bio-char by dielectric barrier discharge plasmas for mercury removal**
	Luo J. J., Jin M. C., Niu Q., Xia Y. X.,Ye L. R. *College of the Environment & Ecology, Xiamen University, China*
	ID 324. **Water purification using zeolites prepared from peat ash**
	Joseph I. V., Tosheva L., Doyle A. M. *Division Chemistry & Environmental Science, Manchester Metropolitan University, UK*
13:30-14:30	**Lunch Break**
14:30-16:30	*Wednesday,* **Conference Hall A: Session 3.3.A** **Oxidation and Advanced Oxidation processes in water and wastewater treatment** **Chairs: Urs von Gunten**, Swiss Federal Institute of Aquatic Science and Technology (Eawag) & École Polytechnique Fédérale de Lausanne (EPFL), Switzerland **Jannis Wenk,** University of Bath, UK
Oral Presentations	
	ID 119. **Degradation of 1,2,3-trichlorobenzene in synthetic water during the application of sulfate radical-based advanced oxidation**
	T. Đurkić, J. Molnar Jazić, M. Watson, J. Beljin, S. Maletić, A. Tubić, J. Agbaba *University of Novi Sad, Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental Protection, Republic of Serbia*
	ID 70. **Inhibitory effect of dissolved organic matter on the transformation of selected anilines and sulfonamide antibiotics induced by the sulfate radical**
	Canonica S. and Schönenberger U. *Eawag, Swiss Federal Institute of Aquatic Science and Technology, Switzerland*
	ID 135. **Oxidation of heterocyclic amines with chlorine dioxide, chlorine balance and formation of hypochlorous acid as secondary oxidant**
	Abdighahroudi M. S.[a], Kalnins R.[a], Mutke X. [a], Schmidt T. C.[a,b,c], Lutze H. V.[a,b,c] *[a]Instrumental Analytical Chemistry, University of Duisburg-Essen, Germany* *[b]IWW Water Centre, Germany* *[c]Centre for Water and Environmental Research, University of Duisburg, Germany*
	ID 186. **Evaluating the capacity of a drinking water treatment plant to remove the disinfection by-product precursors**
	MacKeown H.[1], Adusei-Gyamfi J.[1], Schoutteten K.[2,3], Ouddane B.[1] and Criquet J.[1] *[1]Lille University - LASIR laboratory - UMR CNRS 8516, Physico-chemistry of the Environment group, France* *[2]De Watergroep, Belgium* *[3]Université de Gand, Faculty of Bioscience Engineering, Department of Green Chemistry and Technology, Belgium*

	ID 471. **Highly efficient TiO_2 layers for complete mineralization of aqueous pollutants**
	Zouzelka R., Remzova M., Brabec L., Rathousky J. *J. Heyrovský Institute of Physical Chemistry of the CAS, Czech Republic*
	ID 111. **Effects of organic matter on by-product formation during application of ClO_2**
	Lutze H. V.,[a,b,c], Abdighahroudi M. S.[a], Terhalle J.[a], Mutke X.[a], Hupperich K. and Schmidt T. C. *[a]Instrumental Analytical Chemistry, University of Duisburg-Essen, Germany* *[b]IWW Water Centre, Germany* *[c]Centre for Water and Environmental Research, University of Duisburg-Essen, Germany*
	ID 435. **Formation Potential of Nitrogenous Disinfection By-Products of surface water under various chlorination conditions and precursors**
	A. Kozari [1], A. Papageorgiou[1], S. Gkellis [2], D. Voutsa [1] *[1]Environmental Pollution Control Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2]School of Biology, Aristotle University of Thessaloniki, Greece*
	ID 362. **Removal of contaminants of emerging concern for water reuse**
	D. D. Dionysiou *Environmental Engineering and Science Program, University of Cincinnati, USA*
14:30-16:30	*Wednesday,* **Conference Hall B: Session 3.3.B** **Advances in wastewater treatment** **Chairs: Vincenzo Torretta,** Università degli Studi dell'Insubria, Italy **Giorgio Bertanza,** University of Brescia, Italy **Maria Cristina Collivignarelli,** Università degli Studi di Pavia, Italy **Keynote Speaker: Giorgio Bertanza,** University of Brescia, Italy
Oral Presentations	
	ID 278. Keynote Speech. Estrogenicity reduction from municipal wastewater: comparison between conventional and membrane ultrafiltration treatment
	Bertanza G.[1,2], Mazzoleni G.[3,2], Steimberg N.[3,2], Ziliani E.[4], Pedrazzani R.[5,2] *[1]DICATAM - Department of Civil Engineering, Architecture, Land, Environment and Mathematics, University of Brescia, Italy* *[2]MISTRAL - Integrated Models for Prevention and Protection in Environmental and Occupational Health, University of Brescia, Italy* *[3]DSCS - Department of Clinical and Experimental Sciences, University of Brescia, Italy* *[4]DICAr - Department of Civil Engineering & Architecture, University of Pavia, Italy* *[5]DIMI - Department of Mechanical and Industrial Engineering, University of Brescia, Italy*
	ID 260. **The applications of Thermophilic Aerobic Membrane Reactor (TAMR)**
	M. C. Collivignarelli[1], A. Abbà[2], G. Bertanza[2], A. Frattarola[1] *[1]Department of Civil and Architectural Engineering, University of Pavia, Italy* *[2]Department of Civil, Environmental, Architectural Engineering and Mathematics, University of Brescia, Italy*
	ID 317. **MBR Plants in Italy: Technical Features and Operational Aspects**
	Carlo Collivignarelli, Vaccari Mentore *University of Brescia, Department DICATAM, Italy*
	ID 265. **Thermophilic MBR for aqueous waste treatment: two case studies in Italy**
	M. Sordi[1], M. Colombo[2], A. Durante[2] *[1]ASMia S.r.l., Italy* *[2]Idroclean S.r.l., Italy*
	ID 259. **Photoelectrochemical catalysis on nanostructured TiO_2 films: colour and emerging contaminants removal**
	M. C. Collivignarelli[1], A. Abbà[2], S. Franz[3], M. Bestetti[3], G. Bertanza[2], S. Sorlini[2], H. Arab[3], M. Carnevale Miino[1], S. Damiani[1] *[1]Department of Civil Engineering and Architecture, University of Pavia, Italy* *[2]Department of Civil, Environmental, Architectural Engineering and Mathematics, University of Brescia, Italy* *[3]Department of Chemistry, Materials and Chemical Engineering "Giulio Natta", Politecnico di Milano, Italy*

	ID 290. **Membrane BioReactors (MBR): types, applications and diffusion**
	Boveri L.[1], Bina E.[2] *[1]Evoqua Water Technologies, UK* *[2]Giotto Water, Italy*
	ID 78. **Assessment of the application of photodegradation as a green treatment to remove antibiotics from aquaculture effluents**
	C. P. Silva[1], T. Sousa[2], M. Otero[3], M. Martins[4], V. I. Esteves[1], D. L. D. Lima[1,5] *[1]Department of Chemistry & CESAM, University of Aveiro, Campus de Santiago, Portugal* *[2]Department of Chemistry, University of Aveiro, Campus de Santiago, Portugal* *[3]Department of Environment and Planning & CESAM, University of Aveiro, Campus de Santiago, Portugal* *[4]Department of Chemistry & CICECO, University of Aveiro, Campus de Santiago, Portugal* *[5]Instituto Politécnico de Coimbra, ESTESC-Coimbra Health School, Complementary Sciences, Portugal*
14:30-16:30	*Wednesday,* **Conference Hall C: Session 3.3.C** **Heavy metals and other inorganic pollutants in the environment and removal technologies** **Chairs: Marcomini Antonio**, Department of Environmental Sciences, Informatics and Statistics, University Ca' Foscari of Venice, Italy **George Gallios,** Aristotle University of Thessaloniki, Greece
Oral Presentations	
	ID 326. **Effects of consecutive thermal and wet conditioning treatments on the leaching and the microstructure of stabilized cementitious materials obtained from High-Performance S/S (HPSS®) technology applied to dredged freshwater sediment**
	Calgaro L.[1], Bonetto A.[1], Badetti E.[1], Contessi S.[2], Marcomini A.[1] *[1]Department of Environmental Sciences, Informatics and Statistics, University Ca' Foscari of Venice, Italy* *[2]Department of Geosciences, University of Padua, Italy*
	ID 409. **Fate and transport of thioarsenates in groundwater and options for in situ remediation**
	D. Vlassopoulos *Anchor QEA LLC, USA*
	ID 80. **Resource recovery from TiO_2 production acid waste by means of nanofiltration**
	S. Hedwig[1], K. Remmen[1], T. Wintgens[1], E. C. Constable[2], M. Lenz[1] *[1]FHNW, Institute for Ecopreneurship, Switzerland* *[2]University of Basel, Department of Chemistry, Switzerland*
	ID 305. **Concentration ratios of metals between house dust and road dust**
	Lanzerstorfer C. *University of Applied Sciences Upper Austria, School of Engineering, Austria*
	ID 35. **A reliable tool for assessment of the lead sequestration by pectin**
	Povar I.[1], Spinu O.[2], Lupascu T.[2] *[1]"D. Cantemir" State University, Republic of Moldova* *[2]Institute of Chemistry, Republic of Moldova*
	ID 193. **Biomass/Biochar application in biosorption removal of Pb^{2+}, Cd^{2+}, Cu^{2+} and Cr^{3+} from aqueous solutions**
	Zhao J.[1], Shen X.[2], Domene X.[3,4], Alcañiz J. M.[3,4], Bastos-Arrieta J.[5,6], Liao X.[2], Palet C.[1] *[1]Centre Grup de Tècniques de Separació en Química, Unitat de Q.Analítica, Departament de Química, Universitat Autònoma de Barcelona, Spain* *[2]Laboratory of Biology and Genetic Improvement of Oil Crops, Ministry of Agriculture, Oil Crops Research Institute, Chinese Academy of Agricultural Sciences, China* *[3]CREAF, Cerdanyola del Vallès 08193, Spain* *[4]Universitat Autònoma Barcelona, Spain* *[5]Chemical Engineering Department, Escola d'Enginyeria de Barcelona Est (EEBE), Universitat Politècnica de Catalunya. BarcelonaTEch (UPC), Spain* *[6]Barcelona Research Center for Multiscale Science and Engineering; Spain*

	ID 408. **Determination Of Heavy Metals in Samples Of *Crinum Jagus* Bulb Purchased in Different Herbal Shops in Ibadan North Local Government Area, Ibadan, Oyo State, Nigeria**
	Abiona D. L.[1], Onawumi O. O. E.[2],and Oladoye S. O.[2] *[1]Department of Chemistry, The Polytechnic, Nigeria* *[2]Department of Pure and Applied Chemistry, Ladoke Akintola University of Technology, Nigeria*
16:30-17:00	**Coffee Break**
17:00-19:00	*Wednesday,* **Conference Hall A: Session 3.4.A** **Metabolomics** **Chairs: Boguslaw Buszewski,** University of Torun, Poland **Roma Tauler,** IDAEA, CSIC, Spain **Keynote Speakers: George Theodoridis,** Aristotle University of Thessaloniki, Greece **Piotr Stepnowski,** University of Gdansk, Poland
Oral Presentations	
	ID 603. Keynote Speech. Metabolomics, An analytical primer
	George Theodoridis *Aristotle University of Thessaloniki, Greece*
	ID 602. Keynote Speech. Fate assessment of pharmaceuticals in the environment: analytical challenges, ecotoxicological profiling, hydrolytic stability and distribution in soils
	Piotr Stepnowski *Department of Environmental Analysis, Faculty of Chemistry, University of Gdańsk, Poland*
	ID 298. **Metabolomics approach reveals disruption of metabolic pathways in the marine bivalve *Mytilus galloprovincialis* exposed to WWTP effluent**
	Dumas T.[1], Bonnefille B.[1],Gomez E.[1], Boccard J.[2], Fenet H.[1], Roques C.[3], Courant F.[1] *[1]HydroSciences Montpellier, Université de Montpellier, France* *[2] School of Pharmaceutical Sciences, University of Geneva, Switzerland* *[3]Institut des Biomolécules Max Mousseron, Université de Montpellier, France*
	ID 595. **Global metabolomic profiling of MCF-7 responses to "Cocktail" of xenobiotics at human relevant levels**
	M. Liu[a, b], M. L. Fang[a, c] *[a]School of Civil and Environmental Engineering, Nanyang Technological University, Singapore* *[b]Residual and Resources Reclamation Centre, Nanyang Environment & Water Research Institute, Nanyang Technological University, Singapore* *[c]Analytical Cluster, Nanyang Environment & Water Research Institute, Nanyang Technological University, Singapore*
	ID 432. **Multiresponsive Hydrogel Flexible Sensors for Metabolic Oxidative Stress Analytics**
	Samuel M. Mugo, Jonathan Alberkant, Weihao Lu, Nancy Yu, Dhan Jai *MacEwan University, Canada*
	ID 225. **Application of the ROIMCR method to MS environmental metabolomics**
	Gorrochategui E., Jaumot J., Lacorte S. and Tauler R. *IDAEA, CSIC, Spain*
17:00-19:00	*Wednesday,* **Conference Hall B: Session 3.4.B** **Environmental applications of nanomaterials** **Chairs: Eleni Deliyianni,** Aristotle University of Thessaloniki, Greece **Gagnon Christian** Aquatic Contaminants Research Division, Science & Technology branch, Environment and Climate Change Canada, Canada **Keynote Speaker: Teresa Bandosz,** The City University of New York, USA
Oral Presentations	

	ID 105 Keynote Speech. **Analysis of factors affecting low concentration formaldehyde removal on porous carbon materials**
	Giacomo DeFalco[a, b], Teresa J. Bandosz[a] *[a]Department of Chemistry and Biochemistry, The City College of New York, USA* *[b]Institute of Research on Combustion, National Research Council, IRC-CNR, and Department of Chemical Sciences, University of Naples Federico II, Italy*
	ID 164. **Extraction of perfluorinated compounds in environmental waters with a novel nanostructured liquid**
	S. González-Rubio[1], A. Ballesteros-Gómez[1], D. García-Gómez [1,2], S. Rubio[1] *[1]Departamento de Química Analítica, Instituto Universitario de Química Fina y Nanoquímica IUNAN, Universidad de Córdoba, Campus de Rabanales, Edificio Marie Curie (anexo), España* *[2]Department of Analytical Chemistry, Nutrition and Food Science, University of Salamanca, Spain*
	ID 177. **Fate of silver nanoparticles released from municipal wastewaters**
	Gagnon C.[1], Turcotte P.[1], Pilote M.[1], Gagné F.[1], Smyth S. A.[2] *[1]Aquatic Contaminants Research Division, Science & Technology branch, Environment and Climate Change Canada, Canada* *[2]Science Risk & Assessment Division, Science & Technology branch, Environment and Climate Change Canada, Canada*
	ID 203. **End-capping of low band gap conjugated polymer for metal-oxide nanoparticles surface modification**
	Gapin A., Blanc S., Bousquet A., Lartigau-Dagron C. *CNRS-UMR 5254, Université de Pau et des Pays de l'Adour, France*
	ID 103. **VOC degradation over Nano CeO_2 photocatalysts under VUV irradiation**
	Muyan Wu, Yingguang Zhang, Wai Szeto, Dennis Y.C. Leung *Department of Mechanical Engineering, The University of Hong Kong, Hong Kong*
	ID 272. **Modified graphene oxide as manganese oxide support For Bisphenol A degradation**
	Hayarpi Saroyan[1], Dimitra Ntagiou[1], Victoria Samanidou[2], Teresa Bandosz[3], Eleni Deliyanni[1] *[1]Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2]Laboratory of Analytical Chemistry, Department of Chemistry,Aristotle University of Thessaloniki, Greece* *[3]Department of Chemistry and Biochemistry, The City College of New York, USA*
	ID 99. **Controlling the orientation mechanism of *Tvl* laccase on graphene sheet for improved biofuel cells fabrication**
	T. Yoon and S. Na *Department Mechanical Engineering, Korea University, South Korea*
17:00-19:00	*Wednesday,* **Conference Hall C: Session 3.4.C** **Panel Discussion by Journal Editors**
	Philippe Garrigues, Institut des Sciences Moléculaires, Université Bordeaux, France, Editor in Chief, Environmental Science and Pollution Research. ***Journal: Environmental Science and Pollution Research & Analytical and Bionalaytical Chemistry*** **Adrian Covaci,** University of Antwerp, Belgium**.** ***Journal: Environment International&Science of the Total Environment*** **Athanasios Katsoyiannis,** Joint Research Centre of the European Commission, Ispra**,** Italy. ***Journal: Environmental Research*** **Dionysios Dionyisiou,** University of Cincinnati, USA. ***Journal: Chemical Engineering Journal & Journal of Environmental Engineering (USA)***
19:00-19:15	**Coffee Break**
19:15-20:15	*Wednesday,* **Conference Hall A: Session 3.5.A** **Metabolomics** **Chairs: George Theodoridis,** Aristotle University of Thessaloniki, Greece **Piotr Stepnowski,** University of Gdansk, Poland **Keynote Speaker: Boguslaw Buszewski,** Nicolaus Copernicus University, Poland

	Oral Presentations
	ID 604. Keynote Speech. A New Aprouch to Bioanalytics of Zearalenone and its Metabolites
	Bogusław Buszewski, Agnieszka Rogowska, Anna Król, Paweł Pomastowski, Renata Gadzała-Kopciuch *Department of Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University,Poland* *Interdisciplinary Centre for Modern Technologies, Nicolaus Copernicus University,Poland*
	ID 261. **Analysis of qualitative phytochemical screening and antioxidant activities from leaves, fruits, and seeds of *Momordicacharantia*(Cucurbitaceae) from Borneo Island**
	Nur Fazirah M. A.[1], Asnuzilawati A.[1], Norhayati Y.[2], Syara K.[1], Nurul Huda A. W.[1] *[1]Chemical Sciences Department, School of Fundamental Science, Universiti Malaysia Terengganu, Malaysia* *[2]Biological Sciences Department, School of Fundamental Science, Universiti Malaysia Terengganu, Malaysia*
	ID 566. **Fabric phase sorptive extraction: a paradigm shift sample preparation strategy for pharmacokinetics, pharmacodynamics, toxicokinetics, and therapeutic drug monitoring studies directly from whole blood**
	Abuzar Kabir *Department of Chemistry and Biochemistry, Florida International University, USA*
19:15-20:15	*Wednesday,* **Conference Hall B: Session 3.5.B** **Environmental applications of nanomaterials** **Chairs: Eleni Deliyianni,** Aristotle University of Thessaloniki, Greece **Bandosz Teresa,** Department of Chemistry, The City College of New York, USA **Keynote Speaker: Dimitris Giannakoudakis,** Polish Academy of Sciences, Institute of Physical Chemistry, Poland
	Oral Presentations
	ID 598. Keynote Speech Smart multifunctional nano-tailored composite textiles as detoxification medias against Chemical Warfare Agents vapors
	Giannakoudakis D. A.[1], Bandosz T. J.[2] *[1]Department of Chemistry, The City College of New York, USA* *[2]Department of Chemistry, The City College ofNew York, New York, USA*
	ID 47. **Silica capsules as environmentally friendly nanocontainers to reduce toxicity of cationic surfactants in sea water**
	Kaczerewska O.[1], Figueiredo J.[2], Sousa I.[1], Martins R.[2], S. Loureiro[2], Tedim J.[1] *[1]CICECO-Aveiro Institute of Materials and Department of Materials and Ceramic Engineering, University of Aveiro, Portugal* *[2]Department of Biology and CESAM, University of Aveiro, Portugal*
	ID 450. **Thin gold film electrode for voltammetric determination of Chromium (VI)**
	N.Broli, M.Vasjari
	University of Tirana, Faculty of Natural Sciense, Albania
19:15-20:15	*Wednesday,* **Conference Hall C: Session 3.5.C** **General Session** **Chairs: Seiti Bujar,** Department of Chemistry, Faculty of Natural Sciences, University of Tirana, Albania **Tolkou Athanasia,** Aristotle University of Thessaloniki, Greece **Herve Sirpa,** Finnish Environmental Institute, Finland
	Oral Presentations

	ID 388. **Evaluation of the inhibition effectiveness of ampiciline in the corrosion steel in acid solution**
	Seiti B.[1], Xhanari K.[1], Bajrami N.[1] *[1]Department of Chemistry, Faculty of Natural Sciences, University of Tirana, Albania*
	ID 575. **The inhibition effect of the amygdali amare biter semen extract in the corrosion of carbon steel in 3 wt.% NaCl solution**
	Seiti B.[1], Xhanari K.[1], Lila R.[1], Ylli F.[2] , Alinj A.[3] *[1]Department of Chemistry, Faculty of Natural Sciences, University of Tirana, Albania* *[2]Nuclear Physics Institute, University of Tirana, Albania* *[3]Department of Chemistry, Faculty of Technical Sciences, 'Ismail Qemali' University, Albania*
	ID 339. **Thermodynamic, economic and environmental assessment of a prospective hybrid energy generation**
	Skorek-Osikowska A.[a,b], Gálvez-Marto JL.[b], García-Gusano D.[b], Iribarren D.[b], Dufour J.[b] *[a]Silesian University of Technology, Poland* *[b]Instituto IMDEA Energía, Spain*

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08:00	**Registration and Welcome Coffee**
09:00-10:00	*Thursday,* **Conference Hall A: Plenary Speaker** **Professor Roland Kallenborn** Norwegian University of Life Sciences and University Centre in Svalbard, Norway *"Organic environmental pollutants as quality indicators and sentinels for circular bioeconomy and development of sustainable energy resources"*
10:00-11:30	*Thursday,* **Conference Hall A: Session 4.1.A** **Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations** **Chairs: Kostas Triantafyllidis,** Aristotle University of Thessaloniki, Greece **Nicholas Gathergood,** Tallinn University of Technology, Estonia, Chair of division of Green and Sustainable Chemistry, EuChemS **Anastasia Zabaniotou,** Aristotle University of Thessaloniki, Greece **Keynote Speaker: Nicholas Gathergood,** Tallinn University of Technology, Estonia, Chair of division of Green and Sustainable Chemistry, EuChemS
Oral Presentations	
	ID 597. Keynote Speech. Atom economy, biodegradation, catalysis and green toxicology: Tools for the delivery of green chemistry based on ionic liquids for biomass valorisation
	Nicholas Gathergood *Tallinn University of Technology, Estonia, Chair of division of Green and Sustainable Chemistry, EuChemS*
	ID 232. **The SCG biorefinery concept as a green and sustainable chemistry strategy**
	Matrapazi Vasiliki-Konstantina, Kamaterou Paraskevi and Zabaniotou Anastasia *Aristotle University of Thessaloniki, Faculty of Engineering, Chemical Engineering dept, Biomass Group, Greece*
	ID 267. **A novel biorefinery integration concept for typical European food processing wastes to produce food ingredients**
	E. Papadaki, F. Th. Mantzouridou *Laboratory of Food Chemistry and Technology, School of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 333. **Valorization of agricultural and food industry wastes towards the production of value added chemicals: A holistic approach**
	Margellou A., Triantafyllidis K.[1,2], *[1]Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2]Chemical Process & Energy Resources Institute, CPERI/CERTH, Thessaloniki, Greece*
10:00-11:30	*Thursday,* **Conference Hall B: Session 4.1.B** **Satellite Event: University Education in Environmental Sciences** Conveners: **Ivana Ivančev-Tumbas,** University of Novi Sad, Serbia **Gerhard Lammel,** Max Planck Institute for Chemistry, Mainz, Germany, University of Mainz, Masaryk University, Brno, Czech Republic
Oral Presentations	

	ID 586. **Environmental Science Programs at the Eberhard Karls Universität Tübingen**
	Zwiener C. *Environmental Analytical Chemistry, Center for Applied Geoscience, University of Tübingen, Germany*
	ID 588. **The higher education in Environmental Chemistry in Italy: state of the art**
	Passarini F.[1], Marcomini A.[2] *[1]University of Bologna, Italy* *[2]University Ca' Foscari of Venice, Italy*
	ID 541. **Using problem based learning and case studies in teaching environmental chemistry**
	Patrik L. Andersson, Stina Jansson *Chemistry Department, Umeå University, Sweden*
	ID 589. **The contribution of the University of Novi Sad in ICT Networking for overcoming technical and social barriers in instrumental analytical chemistry education**
	Maletić S.[1], Anđelković T.[2], Anđelković D.[2], Petrović M.[3], Ivančev-Tumbas I.[1] *[1]University of Novi Sad, Faculty of Sciences, Republic of Serbia* *[2]University of Niš, Faculty of Sciences and Mathematics, Republic of Serbia* *[3]University of Novi Sad, Faculty of Technical Sciences, Republic of Serbia*
10:00-11:30	*Thursday,* **Conference Hall C: Session 4.1.C** **Soil Pollution and Monitoring** **Chairs: Levke Godbersen,** Agroscope, Bern, Vaud, Switzerland **Thomas Bucheli,** Agroscope, Bern, Vaud, Switzerland
Oral Presentations	
	ID 108. **Optimised extraction method for accurate and sensitive analysis of glyphosate and AMPA in high conservation island soils**
	K.L. Drew[1], B.M. Sindel[1], R. Smillie[1], P. Kristiansen[1], B.R. Wilson[1,3], A.D. Wallace[2], S.C. Wilson[1] *[1]School of Environmental and Rural Science, University of New England, Australia* *[2]School of Science and Technology, University of New England, Australia* *[3]NSW Office of Environment and Heritage, Australia*
	ID 506. **Development and application of in-cell basic silica clean-up for analysis of polyaromatic compounds in soil samples**
	Titaley I. A.[a], Eriksson U.[a], Larsson M.[a] *[a]Man-Technology-Environment (MTM) Research Centre, School of Science and Technology, Örebro Universitet,Sweden*
	ID 43. **Characterizing the transformation of organophosphorus compounds by compound-specific isotope analysis**
	Wu Langping[1,2], Lian Shujuan[2], Richnow Hans[2] *[1]Department of Civil Engineering, University of Toronto, Canada* *[2]Department of Isotope Biogeochemistry, Helmholtz Centre for Environmental Research-UFZ, Germany*
	ID 165. **Development of a DNA based electrochemical biosensor to determine the overall genotoxicity of multi-pesticide soil extract(Protects)**
	M. Kitching[1,2], A. Morrin,[1,2] and B. White[1,2] *[1]School of Chemistry, Dublin City University, Ireland* *[2]Water Institute, Dublin City University, Ireland*
11:30-12:00	**Coffee Break**

12:00-13:30	*Thursday,* **Conference Hall A: Session 4.2.A** **Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations** **Chairs: Kostas Triantafyllidis,** Aristotle University of Thessaloniki, Greece **Nicholas Gathergood,** Tallinn University of Technology, Estonia, Chair of division of Green and Sustainable Chemistry, EuChemS **Anastasia Zabaniotou,** Aristotle University of Thessaloniki, Greece **Keynote Speaker: Juan Carlos Colmenares,** Polish Academy of Sciences, Poland
Oral Presentations	
	ID 219. Keynote Speech. Intensification of oxidative photocatalysis by microflow-reactor and sonochemical pathways: water detoxification and lignin valorization
	J. Colmenares Quintero[1], V. Nair[1], S. Rashmi Pradhan[1], D.A. Giannakoudakis[1], B. Zawadzki[1], D. Łomot[1], *[1]Institute of Physical Chemistry, Polish Academy of Sciences, Poland*
	ID 236. **An application of green chemistry with forest biomaterials; Carbon fibers from softwood kraft lignin**
	Argyropoulos D. S., Sen S., Patil S. *Organic Chemistry of Wood Components Laboratory, Departments of Forest Biomaterials & Chemistry, USA*
	ID 429. **Green products from agricultural waste biomass for the wood-based panels industry**
	E. Papadopoulou, E. Karagiannidis *CHIMAR HELLAS S.A., Greece*
	ID 393. **Mechanistic and kinetic study of glycerol hydrodeoxygenation with in-situ H_2 formation, over Cu-based catalyst**
	Yfanti V. L.[1], Lemonidou A. A.[1,2] *[1]Department of Chemical Engineering, Aristotle University of Thessaloniki, University campus, Greece* *[2]Chemical Process Engineering Research Institute, Greece*
	ID 227. **Light-initiated and additive-free heterogeneous catalytic oxidation at ambient conditions of 5-hydroxymethylfurfural by manganese oxide nanorods**
	Giannakoudakis D.A.[1,2], Nair V.[2], Khan A.[2], Deliyanni E. A.[1], Colmenares J. C.[2], Triantafyllidis K.[1] *[1]Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2]Institute of Physical Chemistry, Polish Academy of Sciences, Poland*
12:00-13:30	*Thursday,* **Conference Hall B: Session 4.2.B** **Satellite Event: University Education in Environmental Sciences** Conveners: **Ivana Ivančev-Tumbas,** University of Novi Sad, Serbia **Gerhard Lammel,** Max Planck Institute for Chemistry, Mainz, Germany, University of Mainz, Masaryk University, Brno, Czech Republic
Oral Presentations	
	ID 359. **Environment and health: comprehensive interdisciplinary bachelor and master study programmes in Brno, Czech Republic – an integrative approach to higher education in environmental sciences**
	Šebej P., Klánová J. *RECETOX, Faculty of Science, Masaryk University, Czech Republic*
	ID 404. **Interdisciplinary and international water education at the University of Duisburg-Essen**
	Michael Eisinger, Torsten Schmidt, Stefan Panglisch, Daniel Hering *Centre for Water and Environmental Research, University of Duisburg-Essen, Germany*

	ID 590. **Recent developments of Postgraduate taught programmes in Environmental Engineering and Sustainability Engineering in the Department of Chemical Engineering at the University of Bath, UK**
	Jannis Wenk *University of Bath, UK*
	ID 591. **Wastewater treatment plant as professional training centre**
	Levstek M.[1], Stražar M.[1], Heath E.[2] *[1]JP CČN Domžale-Kamnik d.o.o., Slovenia* *[2]Institute Jožef Stefan and International Postgraduate School Jožef Stefan, Slovenia*
	Erasmus office of Aristotle Univedrsity Thessaloniki
	Nikos Liolios *Department of European and Educational Programmes, Aristotle University of Thessaloniki, Greece*
12:00-13:30	*Thursday,* **Conference Hall C: Session 4.2.C** **Recycling and resource reuse as tools for efficient circular economy** **Chairs: Nicolas Moussiopoulos,** Aristotle University of Thessaloniki, Greece **George Perkoulidis,** Aristotle University of Thessaloniki, Greece **Keynote Speaker: Konstantinos Aravosis**, Department of Mechanical Engineering, National Technical University of Athens, Greece
Oral Presentations	
	ID 605. Keynote Speech. Enterpreneurship Opportunities created in the Circular Economy
	Konstantinos Aravosis *Department of Mechanical Engineering, National Technical University of Athens, Greece*
	ID 446. **Environmental implications of vanadium extraction from spent desulfurization catalyst**
	Mikoda B.[1], Potysz A.[2], Gruszecka-Kosowska A.[1], Kmiecik E.[1] *[1]AGH University of Science and Technology, Faculty of Geology, Geophysics and Environmental Protection, Poland* *[2]University of Wrocław, Institute of Geological Sciences, Poland*
	ID 469. **Metallurgical wastes: metals extraction and leach residue characterization**
	Potysz A.[1], Pędziwiatr A.[2], Hedwig S.[3], Lenz M.[3,4] *[1]University of Wrocław, Institute of Geological Sciences, Poland* *[2]Warsaw University of Life Sciences (SGGW), Faculty of Agriculture and Biology, Department of Soil Environment Sciences, Poland* *[3]Institute for Ecopreneurship, School of Life Sciences, University of Applied Sciences and Arts Northwestern Switzerland, Switzerland* *[4]Sub-Department of Environmental Technology, The Netherlands*
	ID 548. **Treated wastewater in agricultural irrigation practises. Assessment of its impact in the contest of resource reuse**
	Rivoira L.[1], Castiglioni M.[1],Giordani E.[2], Coppini E.[3], Fibbi D.[3], Camisa R.[3], Del Bubba M.[4], Bruzzoniti M.C.[1] *[1]Department of Chemistry, Università degli Studi di Torino, Italy* *[2]Department of Plant, Soil and Environmental Science, Università degli Studi di Firenze, Italy* *[3]G.I.D.A. spa (Gestione impianti di depurazione acque), Italy* *[4]Department of Chemistry "Ugo Schiff", Università degli Studi di Firenze, Italy*
	ID 161. **Regional circular economy models and good practises for biological streams**
	N. Moussiopoulos, A. Malamakis, S. Kontogianni *Aristotle University Thessaloniki, Greece*
	ID 420. **The Tropenhaus - A 20-year learning case connecting China and Europe**
	J. Heeb and M. Wafler *seecon international gmbh, Switzerland*
13:30-14:30	**Lunch Break**

14:30-16:30	*Thursday,* **Conference Hall A: Session 4.3.A** **Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations** **Chairs: Kostas Triantafyllidis,** Aristotle University of Thessaloniki, Greece **Nicholas Gathergood,** Tallinn University of Technology, Estonia, Chair of division of Green and Sustainable Chemistry, EuChemS **Anastasia Zabaniotou,** Aristotle University of Thessaloniki, Greece
Oral Presentations	
	ID 381. **Fifty shades of Green Chemistry**
	De Lange W. *LaMilCo Consultancy, Netherlands*
	ID 336. **Mild oxidative organosolv pretreatment of lignocelullosic biomass residues for high added value chemicals and food additives via fermentation processes**
	Kalogiannis K.[1], Michailof M.[1], Lappas A.[1] Karnaouri A.[2], Chalima A.[2], Topakas E.[2] *[1]Chemical Process & Energy Resources Institute, Greece* *[2]Biotechnology Laboratory, School of Chemical Engineering, National Technical University of Athens, Greece*
	ID 335. **Bio-oil upgrading potential via mild-hydrotreatment for refinery integration**
	Dimitriadis A.[1], Meletidis G.[1], Manara G.[1], Chrysikou L.P.[1], Bezergianni S.[1], Jakub Januščák[2], Michael Martin[2] and Pavel Kukula[2] *[1]Centre for Research & Technology Hellas (CERTH), Chemical Process & Energy Resources Institute (CPERI), Greece* *[2]Ranido s.r.o., Czech Republic*
	ID 231. **Decentralised thermochemical systems for bioenergy and biochar fuelled with agro-industrial wastes and social acceptance**
	Fytili D., Zabaniotou A. *Biomass Group, Department of Chemical Engineering, Aristotle University of Thessaloniki, Greece*
	ID 7. **Comparative analyses of the thermal properties of biomass briquette fuels of rice husk and groudnut husk**
	Ikelle I. I. *Department of Industrial Chemistry, Ebonyi State University Abakaliki, Nigeria*
	ID 345. **Sugarcane residues as carries for drug delivery**
	V. Halysh [1,2], Y. Zhang [3,4], O. Sevastyanova [3,4], M. Kartel [2] *[1]Igor Sikorsky Kyiv Polytechnic Institute, Ukraine* *[2]O.O. Chuiko Institute of Surface Chemistry, National Academy of Sciences of Ukraine, Ukraine* *[3]KTH Royal Institute of Technology, Department of Fiber and Polymer Technology, Sweden* *[4]KTH Royal Institute of Technology, Wallenberg Wood Science Center, Sweden*
	ID 238. **Impact Of The Application Of Pesticides On The Concentration Of Some Heavy Metals On Vetagetales(Spinach And Sorrel)**
	Hassan Garba Wafi *Department of Chemistry, Adamawa State University, Nigeria*
14:30-16:30	*Thursday,* **Conference Hall A: Session 4.3.B** **Environmental problems relevant to Mediterranean Sea and Gulf of Mexico (MedSea-GuMex)** **Chairs: George Cobb, Baylor University, USA** **Ioannis Katsoyiannis,** Aristotle University of Thessaloniki, Greece
Oral Presentations	

	ID 88. **The effects of surfactants on the microbial biofilm associated with the benthic isopod *Asellus aquaticus***
	I. O'Callaghan[1,2] and T. Sullivan[1] *[1] School of Biological, Earth & Environmental Sciences, University College Cork, Ireland* *[2] School of Chemistry, University College Cork, Ireland*
	ID 8. **Radioactivity Measurement in Agricultural Farm Lands of a Lead Mining Community in Nasarawa State, Nigeria**
	Jude C. Onwuka[a], Nasirudeeen M. Baba[a], Samson T. Orunsami[a] *[a]Department of Chemistry, Federal University Lafia, Nigeria*
	ID 330. **Partition of polycyclic aromatic hydrocarbons and polychlorinated biphenyls in seawater, sediment and biota of marine ecosystems affected by high anthropic pressure**
	Rivoira L.[1], Giusti L.[1,2], Pessani D.[2], Nurra N.[2], Battuello M.[2],Mussat Sartor R.[2], Castiglioni M.[1], Bruzzoniti M.C.[1] *[1]Department of Chemistry, Università degli Studi di Torino, Italy* *[2]Department of Life Sciences and Systems Biology, Università degli Studi di Torino, Italy*
	ID 1. **A Buddhist Perspective on Global Warming-Our Irresistible Fate?**
	Shimo Sraman, Shuvo Talukdar, Rintu Sarkar *Shanxi University, China*
	ID 120. **Polar organic micropollutants in the coastal environment**
	Nödler K.[1], Voutsa D.[2], Stasinakis A. S.[3], Licha T.[4] *[1]TZW: DVGW – Water Technology Center, Germany* *[2]Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[3] Department of Environment, University of the Aegean, Greece* *[4]Department Applied Geology, University of Göttingen, Germany*
14:30-16:30	*Thursday,* **Conference Hall C: Session 4.3.C** **Recycling and resource reuse as tools for efficient circular economy** **Chairs: Roland Kallenborn,** Norwegian University of Life Sciences and University Centre in Svalbard, Norway **Petter Jenssen,** Norwegian University of Life Sciences, Norway **Keynote Speaker: Petter Jenssen,** Norwegian University of Life Sciences, Norway
Oral Presentations	
	ID 206. Keynote Speech. Green cities –hubs in a circular economy
	P. D. Jenssen[1], A. K. Hvoslef-Eide[2], A. Oarga Mulec[3], J. Bryden[4], P. H. Heyerdahl [5], M.K. Pandey[6], K. Refsgaard[7] *[1]Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences, Norway* *[2]Faculty of Biosciences, Norwegian University of Life Sciences, Norway* *[3]Laboratory for Environmental and Life Sciences, University of Nova Gorica, Slovenia* *[4]Norwegian Institute of Bioeconomy, Norway* *[5]Department of Mathematical Sciences and Technology, Norwegian University of Life Sciences, Norway* *[6]Faculty of Environmental Sciences and Natural Resource Management, Norwegian University of Life Sciences, Norway* *[7]Nordregio, Sweden*
	ID 283. **Recovering the "New Twin": Analysis of secondary neodymium sources and recycling potentials in Europe**
	L. Ciacci, I. Vassura, F. Passarini *Alma Mater Studiorum-University of Bologna, Department of Industrial Chemistry "Toso Montanari", Italy*
	ID 87. **Selected Organic Contaminants of Emerging Concern in Digestates from Norwegian Biogas production**
	Ali A.M.[1], Nesse A.S.[2], Eich-Greatorex S.[2], Sogn T.A.[2], Aanrud S.G.[3], Bunæs J.A.[3], Lyche J.L.[3], Kallenborn R.[1,3,4]

	[1]Faculty of Chemistry, Biotechnology and food Sciences (KBM); Norwegian University of Life Sciences (NMBU), Norway *[2]Faculty of Environmental Sciences and Natural Resource Management (MiNa), Norwegian University of Life Sciences (NMBU), Norway* *[3]Faculty of Veterinary Medicine (VedFak), Norwegian University of Life Sciences (NMBU), Norway* *[4]University Centre in Svalbard, Arctic Technology, Norway*
	ID 482. **COMMURBAN: A mobile application aiming to engage citizens in urban agriculture**
	S. Tekes[1] , M. Symeonidou[2], N. Pliakis[2], M. Vogiatzi[2] *[1]CREVIS SPRL, Belgium* *[2]DRAXIS ENVIRONMENTAL SA, Greece*
	ID 576. **Unpacking the multiple roles of Urban Agriculture: insights from experiences in Aarhus, Fredrikstad and Hatay**
	Borges L. A.[1], Randall L.; Wang S., Berlina A. *Nordregio, Sweden*
	ID 577. **The use of UA typologies to inform urban planning: the case of Aarhus**
	Borges L. A.[1], Wang S., Randall L.; Berlina A. *Nordregio, Sweden*
	ID 212. **Light packaging waste from different countries: an application with the scanning electron microscopy**
	Rada E.C.[1,2], Ionescu G.[3], Ragazzi M.[2], Rampanti M.[4], Conti F.[1], Ferronato N.[1], Torretta V.[1] *[1]Department of Theoretical and Applied Sciences, Insubria University, Italy* *[2]Department of Civil Environmental and Mechnical Engineering, University of Trento, Italy* *[3]Department of Energy Production and Use, Politehnica University of Bucharest, Romania* *[4]Department of Medicine and Surgery, Insubria University, Italy*
	ID 406. **Application of machine learning in urban food production**
	Jiangsan Zhao, Michel Verheul, Geo van Leeuwen, Dmitry Kechasov, Jihong Liu Clarke *NIBIO, Norwegian Institute of Bioeconomy Research, Norway*
16:30-17:00	**Coffee Break**
17:00-19:00	*Thursday,* **Conference Hall B: Session 4.4.A** **General Session** **Chair: Michaela Dina Stanescu,** Politehnica University of Bucharest ,Romania **Willem de Lange, LaMilCo Consultancy, Netherlands**
Oral Presentations	
	ID 417. **Perceptions and Behavior Regarding Social and Private Energy and Environmental Costs of Travel**
	Omid M. Rouhani, *Department of Civil Engineering and Applied Mechanics, McGill University, Canada*
	ID 480. **Cu_2S impregnated bi-functional organic polymer: *An efficient catalyst for the production of dimethyl carbonate from carbon dioxide under flow condition***
	S. Kumar, M. B. Gawande and R. Zboril *Regional Centre of Advanced Technologies and Materials, Department of Physical Chemistry, Faculty of Science, Palacký University, Czech Republic*
	ID 546. **Radioactivity in the Irish Marine Environment – 35 years of monitoring**
	Currivan L., O'Toole S., O'Colmain M., Hanley O., Kinahan A ., Burbidge C., Murphy N. and Fennell S. *Environmental Protection Agency, Office of Radiation Protection and Environmental Monitoring, Ireland*

17:00-19:00	*Thursday,* **Conference Hall B: Session 4.4.B** **Advances in wastewater treatment** **Chairs: Maria Eduarta Pereira,** Universidade de Aveiro, Portugal **Frimmel Fritz**, Karlsruhe Institute of Technology, Germany **Walter Giger**, Giger Research Consulting, Switzerland
Oral Presentations	
	ID 520. **Engineered supramolecular solvents for wastewater treatment**
	A. Ballesteros-Gómez[1], N. Caballero-Casero[1], S. García-Fonseca[1], L. Lunar, S. Rubio[1] *[1]Departamento de Química Analítica, Instituto Universitario de Química Fina y Nanoquímica IUNAN, Universidad de Córdoba, Campus de Rabanales, Edificio Marie Curie (anexo), España*
	ID 175. **Interest of drinking water sludges for P removal in wastewaters**
	Deluchat V.[1], Sleiman N.[1], Belliard M.[1], Morvani M., Baudu M.[1], Lachassagne D.[2], Paing J.[2] *[1]University of Limoges, PEIRENE EA7500, France* *[2]OPURE, Les Charmilles Z.A. les Poupinières, France*
	ID 527. **Sb(III) and Sb(V) Adsorption Mechanims On METALZORB® Sponge And Spion-METALZORB® System**
	V. Verdugo, R. Boada, C. Palet, M. Valiente *Centre Grup de Tècniques de Separació en Química, Unitat de Q.Analítica, Departament de Química, Universitat Autònoma de Barcelona, Spain*
	ID 270. **Utilization of Jordanian natural Materials for Uranium Removal**
	Kamel K. Al-Zboon[1] *[1]Department of Environmental Engineering Al-Huson University College, Al-Balqa' Applied University, Jordan*
	ID 281. **Efficient separation and removal of dyes from single and binary systems by magnetite/silver/carbon nanoparticles**
	Muntean S. G.[1], Nistor M. A.[1], Păcurariu C.[2] *[1]Institute of Chemistry „Coriolan Drăgulescu", Romania* *[2]Politehnica University of Timişoara, Faculty of Industrial Chemistry and Environmental Engineering, Romania*
	ID 96. **Biodegradation of organic pollutants using advanced biocatalytic systems**
	K. Jankowska[1], J. Zdarta[1], S. Jędrzejak[1], E. Kijeńska-Gawrońska[2], T. Jesionowski[1] *[1]Institute of Chemical Technology and Engineering, Faculty of Chemical Technology, Poznan University of Technology, Poland* *[2]Faculty of Materials Science and Engineering, Warsaw University of Technology, Poland*
	ID 255. **Characterization of aluminum silicate precipitates and its stabilization using anionic scale inhibitors:Relevance to geothermal systems**
	M.Kamaratou, A.Spinthaki and K. D. Demadis *Crystal Engineering, Growth and Design Laboratory, Department of Chemistry, University of Crete, Greece*
17:00-19:00	*Thursday,* **Conference Hall C: Session 4.4.C** **Recycling and resource reuse as tools for efficient circular economy** **Chairs: George Banias,** CERTH, Greece **Apostolos Malamakis,** Aristotle University of Thessaloniki, Greece
Oral Presentations	
	ID 334. **Facilitating cities to deploy urban agriculture technologies in the transition to the circular economy: The SiEUGreen deployment methodology**
	Moumtzi V., Kipourou K.,Vontas A. *ViLabs Ltd, Cyprus*
	ID 367. **Evaluating urine-based fertilizers for horticultural crop production**
	F. Häfner, A. Auer, Eckhard G., A. Krause *Leibniz-Institut für Gemüse- und Zierpflanzenbau (IGZ), Germany*

	ID 405. **Nutrient recovery and improved effluent quality of anaerobically treated blackwater by microalgae biomass production**
	Melesse Eshetu Moges[1,2], Arve Heistad[1], and Thorsten Heidorn[3] *[1]Faculty of Science and Technology, Norwegian University of Life Sciences (NMBU), Norway* *[2]Ecomotive AS, Haried, Norway* *[3]Norwegian Institute of Bioeconomy Research, Ås, Norway*
	ID 412. **Greywater recycling in the green walls - public health and safety issues**
	F. Eregno[a], M. Moges[b], A. Heistad[b], T. Mæhlum[a], P. Jenssen[c] *[a]Norwegian Institute of Bioeconomy Research (NIBIO), Division of Environment and Natural Resources, Norway* *[b] Norwegian University of Life Sciences (NMBU), Faculty of Science and Technology (REALTEK), Norway* *[c]Norwegian University of Life Sciences (NMBU), Faculty of Environmental Sciences and Natural Resource Management, Norway*
	ID 434. **Urban farming towards 2030: Trends, Weak Signals, business models and scenarios**
	Stavros Mantzanakis[1,2], Epaminondas Christophilopoulos[3] *[1]EMETRIS SA, Greece* *[2]Phemonoe Lab, Greece* *[3]UNESCO Chair on Futures Research, Foundation for Research and Technology – Hellas (FORTH), Greece*
	ID 462. **Multifunctional nature-based systems for improvement of urban runoff – Examples using constructed wetlands, ponds and biofilters in Norway**
	T. Mæhlum[a], A. M. Paruch[a], H. M. Hanslin[a] and P. D. Jenssen[b] *[a]Norwegian Institute of Bioeconomy Research (NIBIO), Division of Environment and Natural Resources, Norway* *[b]Norwegian University of Life Sciences (NMBU), Faculty of Environmental Sciences and Natural Resource Management, Norway*
	ID 453. **Pyrolysis of Waste Plastic Laminates and Coconut Husk: Optimization of Fuel Oil Yield, Higher Heating Value and Energy Value**
	Olalo J.[1], Reyes J.[1], Rollon A.[1] *[1]University of the Philippines – Diliman, Philippines*
	ID 569. **Response Surface Methodology for the Co-pyrolysis of Waste Plastic Laminates and Coconut Husk**
	Olalo J.[1], Reyes J.[1], Rollon A.[1] *[1]University of the Philippines – Diliman, Philippines*
19:00-19:30	**CONFERENCE HALL A: Closing Ceremony**

ICCE 2019 POSTER PRESENTATIONS PROGRAMME(Level -1)

MONDAY (Level -1)
June 17, 2019
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10:00-19:00 **Analytical Chemistry in environmental monitoring and chemistry studies**

Poster Presentations

ID 20. **Preconcentration of uranium(VI) by chelateforming sorbent**

F. N. Bahmanova, S. R.Hajiyeva, Alirzaeva E. N., Shamilov N. T., F. M.Chyragov
Baku State University, Chemistry department, Azerbaijan

ID 504. **Multi-residual method detection and determination antibacterial substances in feed by LC-MS/MS technique**

E. Patyra[1], C. Nebot[2], R.E. Gavilán[2], A. Cepeda[2], K. Kwiatek[1]
[1]Department of Hygiene of Animal Feeding stuffs, National Veterinary Research Institute, Poland
[2]Department of Analytical Chemistry, Nutrition and Bromatology, Faculty of Veterinary Medicine, University of Santiago de Compostela, Spain

ID 48. **Quantification of veterinary antibiotics in animal manure by liquid chromatography–mass spectrometry**

Ewelina Patyra, Krzysztof Kwiatek
Department of Hygiene of Animal Feedingstuffs, National Veterinary Research Institute, Poland

ID 53. **DLLME and GC/MS Determination of Eleven Disinfection Byproducts in Drinking Water**

On J.[a],Pyo H.[a] and Myung S.-W.[b]
[a]Molecular Recognition Research Center, Korea Institute of Science and Technology, Korea
[b]Department of Chemistry, Kyonggi University, Korea

ID 75. **Direct determination of arsenic in high salinity samples by graphite furnace atomic absorption spectrometry**

V. Smolikova[1,2], P. Pelcova[1], A. Ridoskova[1,2], J. Hedbavny[1]
[1]Department of Chemistry and Biochemistry, Mendel University in Brno, Czech Republic
[2]Central European Institute of Technology, Brno University of Technology, Czech Republic

ID 79. **Determination of cocaine metabolites and pyrolytic products in wastewater to profile prevailing patterns of consumption**

I. González-Mariño[a], A. Estévez-Danta[a], R. Rodil[a], K. M. Da Silva[b], F. F. Sodré[b], R. Cela[a], J. B. Quintana[a]
[a]Department of Analytical Chemistry, Nutrition and Food Sciences, IIAA – Institute for Food Analysis and Research, Universidade de Santiago de Compostela, Spain
[b]Institute of Chemistry, University of Brasilia, Brazil

ID 510. **Trace elements in commonly used medicinal plants from Varna region, Bulgaria**

Georgieva S. K., Georgieva A., Peteva Z., Dimova D.
Medical University - Varna, Department of Chemistry, Bulgaria

ID 521. **Simultaneous determination of Fe(II) and Fe(III) in natural water using indicator tubes filled with silica modified with 2,2´-dippyridyl-4,4´-dicarboxylic acid and 7-iodo-8-hydroxyquinoline-5-sulfonic acid**

O. Buyko, S. Didukh-Shadrina, R. Aloferenko, V. Losev
Siberian Federal University, Russian Federation

ID 172. **SPE-ICP-MS determination of rare earth elements in environmental samples using silicas, modified with polyguanidine, Arsenazo I or Asenazo III**

O. Buyko, S. Metelitsa, N. Kuzmin, V. Losev, E. Borodina
Siberian Federal University, Russian Federation

ID 217. **Vapor and thermally induced solid-state structural transformations**

Mandarić M.[1], Vrdoljak V.[1], Hrenar T.[1], Đilović I.[1], Cindrić M.[1]
[1]University of Zagreb, Faculty of Science, Department of Chemistry, Croatia

	ID 258. **Optimization and validation of a UPLC-MS/MS using ESI for the quantification of Perfluoroalkyl substances (PFAS) in surface, ground and drinking waters**
	Van Den Steen K[1], Joos P[1-2] *[1]Water-link, Belgium* *[2]Department of Bioengineering, University of Antwerp, Belgium*
	ID 277. **Applying screening methodologies for drinking and raw waters**
	J. Daems[1], K. Van Den Steen[1] and P. Joos[1,2] *[1]Water-link, Belgium* *[2]University of Antwerp, Department of Bioengineering Sciences, Belgium*
	ID 341. **Development and validation of extraction method for the determination of pharmaceuticals uptake in different plant tissues**
	H. Svecova[1], R. Kodešová[2], M. Fér[2], P. Nováková[1], R. Grabic[1] *[1]University of South Bohemia in Ceske Budejovice, Faculty of Fisheries and Protection of Waters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, Research Institute of Fish Culture and Hydrobiology, Czech Republic* *[2]Czech Univ Life Sci Prague, Dept Soil Sci & Soil Protect, FacAgrobiol Food & Nat Resources, Czech Republic*
	ID 348. **Isotopic analysis of Lead in apportionment of pollution sources in an industrial contaminated site**
	Bonetto A., Calgaro L., Badetti E.,Marcomini A. *Department of Environmental Sciences, Informatics and Statistics, University Ca'Foscariof Venice, Italy*
	ID 369. **Environmental monitoring of nitrogen oxides (NO_x) by passive sampling**
	Proto A.[1], Motta O.[2], Pironti C.[1], Zarrella I.[2], Ricciardi M.[1], Di Filippo L.[1] and Cucciniello R.[1] *[1]Department of Chemistry and Biology, University of Salerno, Italy* *[2]Department of Medicine, Surgery and Dentistry, University of Salerno, Italy*
	ID 378. **Fabric phase sorptive extraction followed by high-performance liquid chromatography(HPLC-DAD) for the determination of psychoactive drugs in environmental samples**
	Jiménez Holgado C., Vourdas N., Stathopoulos. V. and Sakkas V. *University of Ioannina, Department of chemistry, Greece*
	ID 431. **The availability of metal species in aquatic systems containing nanoparticles and organic matter**
	D. Goveia[1,2], D. F. Vieira[1], H. R. Favarim[1] *[1]São Paulo State University (UNESP), Campus of Itapeva, Brazil* *[2]São Paulo State University (UNESP), FCLAr, Brazil*
	ID 468. **Advanced materials for NOx determination**
	D. Valverde, R. Porcar, B. Altava, M. I. Burguete, E. García-Verdugo, S. V. Luis *Dpt. of Inorganic and Organic Chemistry, Supramolecular and Sustainable Chemistry Group, University Jaume I AvdaSosBaynat, Spain*
	ID 531. **Organic pollutant concentrations in marine water samples of Adriatic Sea. Case study: Hot-spot of Porto-Romano, Albania**
	Nuro A.[1], Marku E.[1], Murtaj B.[1], Dule K.[2], Peti E.[2], Sila E.[2] *[1]Tirana University, Faculty of Natural Sciences, Department of Chemistry, Albania* *[2]Tirana University, Faculty of Natural Sciences, Department of Mathematic, Albania*
	ID 301. **Development of a novel methodology for the determination of priority pollutants and emerging contaminants in Asopos river water samples by GC-EI-MS/MS and GC-APCI-QTOFMS**
	E. I. Panagopoulou, M.-C. Nika, G. Koulis, D. E. Damalas and N. S.Thomaidis *National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Analytical Chemistry, Greece*
	ID 379. **Determination of emerging contaminants in apex predators and their prey from European Specimen Banks and Natural History Museums by High Resolution Mass Spectrometry Techniques**
	Gkotsis G.[1], Alygizakis N.[1,2], Cincinelli A.[3], Dekker R.[4], Duke G.[5], Glowacka N.[2], Knopf B.[6], Koschorreck J.[7], Martellini T.[3], Movalli P.[4], Nika M. C.[1], Nikolopoulou V.[1], Ruedel H.[6], Shore R.[8], Thomaidis N.S.[1], Treu G.[7] and Slobodnik J.[2] *[1]National and Kapodistrian University of Athens, Greece* *[2]Environmental Institute, Slovak Republic* *[3]University of Florence, Italy*

	[4]Naturalis Biodiversity Center, Netherlands *[5]Environmental Change Institute, University of Oxford, UK* *[6]Fraunhofer Institute for Molecular Biology and Applied Ecology, Germany* *[7]German Environment Agency, Germany* *[8]Center for Ecology and Hydrology, UK*
	ID 558. **Comparison of pressurised liquid extraction and QuEChERS for the determination of phthalate diesters and their metabolites in seafood species**
	M. Hidalgo-Serrano, N. Fontanals, E. Pocurull, R.M. Marcé, *Department of Analytical Chemistry and Organic Chemistry, Universitat Rovira i Virgili, Spain*
	ID 487. **Synthesis and evaluation of two in-house synthesised zwitterionic sorbents for the solid-phase extraction of acidic, basic and amphoteric compounds**
	J. C. Nadal[1], F. Borrull[1], P. A. G. Cormack[2], R. M. Marcé[1], N. Fontanals[1] *[1]Department of Analytical Chemistry and Organic Chemistry, Universitat Rovira i Virgili, Sescelades Campus, Spain* *[2]WestCHEM, Department of Pure and Applied Chemistry, University of Strathclyde, UK*
	ID 488. **Water quality in private and public water sources in Siatista, Voio, Greece**
	Eythimiadi P., Cavoura O., Damikouka I., Laggas D. *National School of Public Health, Greece*
	ID 493. **Comparison of Different Soil Test Extractants for Determination of Phosphorous in Soils**
	Angelova V., Krustev St., Ivanov K. *Agricultural University-Plovdiv, Bulgaria*
	ID 500. **Automatic sol-gel coated capillary microextraction coupled with atomic absorption spectrometry for on-line metal determination in natural waters**
	V. Kazantzi[a], A. Kabir[b], A. Anthemidis[a] *[a]Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University, Greece* *[b]International Forensic Research Institute, Department of Chemistry and Biochemistry, Florida International University, USA*
	ID 185. **Determination if Inorganic Anions in Wastewater Using Capillary Ion Chromatography**
	Schoutsen F.[1], Yang H.[2], and Rohrer J.[2] *[1]Thermo Fisher Scientific, Netherlands* *[2]Thermo Fisher Scientific, USA*
	ID 526. **Determination of Perchlorate by U.S. EPA Method 332.0 Using an Updated IC-MS System**
	Schoutsen F.[1], Huang B.[2], and Rohrer J.[2] *[1]Thermo Fisher Scientific, Netherlands* *[2]Thermo Fisher Scientific, USA*
	ID 296. **Measurements for determining of antioxidants level of new solid fuel formulations by GC-MS and HPLC**
	N. Grigoriu[a], T. V. Tiganescu[b], N. Petrea[a], R. E. Ginghina[a], C. Lazaroaie[a] *[a]Scientific Research Center for CBRN Defense and Ecology, Romania* *[b]Military Equipment and Technologies Research Agency, Romania*
	ID 445. **Assessment of Basic Physical-Chemical Parameters in Drinking Water in Tirana, Albania**
	Milidin Bakalli[1], Ilirjan Malollari[2], Albim Hoxha[3] *[1]University of "Aleksander Moisiu", Albania* *[2]University of Tirana, Faculty of Natural Sciences, Albania* *[3]Central Laboratory of Armed Forces, Albania*
	ID 553. **Official testing of pesticide residues in Polish crops**
	Nowacka A., Hołodyńska-Kulas A.,Ciorga B., Drożdżyński D., Grobela M., Motała R., Zdziechowska M., Przewoźniak M. *Institute of Plant Protection – NRI, Poland*
	ID 555. **Monitoring of multiple flame retardants in the black kitchen utensils, plastic toys and objects of everyday use**
	Gramblicka T.[1], Tomasko J.[1], Lankova D.[1], Stupak M.[1], Pulkrabova J.[1] *[1]Department of Food Analysis and Nutrition, Faculty of Food and Biochemical Technology, University of Chemistry and Technology, Czech Rebublic*
	ID 479. **Modified graphene oxide for heavy metals' preconcentration method after dispersive solid phase extraction and optimization with full factorial experimental design**
	Manousi N., Deliyanni E., Zachariadis G. *Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece*

	ID 308. **Chemical determination of aerosol and gas phase produced by using heat-not-burn tobacco devices**
	Koukoulas V., Tatsiou P., Koukoulakis K., Kanellopoulos P.G., Chrisohou E., Kouvelis P., Bakeas E. *National and Kapodistrian University of Athens, Laboratory of Analytical Chemistry, Department of Chemistry, Greece*
	ID 542. **Characterization and distribution of secondary organic aerosolin PM_{10} and $PM_{2.5}$ in a rural region during the winter period**
	Kanellopoulos P.G.[a], Chrisohou E.[a], Koukoulakis K.[a], Koukoulas V.[a], Papadakis I.[a], Vasiliadou E.[c], Kizas C.[c], Savvides C.[c], Bakeas E.[a] *[a]National and Kapodistrian University of Athens, Laboratory of Analytical Chemistry, Department of Chemistry, Greece* *[c]Ministry of Labour and Social Insurance, Department of Labour Inspection (DLI), Cyprus*
	ID 100. **Comparative Evaluation of Super Disintegrants and Binder with Formulation Development of Orodispersible Tablets**
	Benaziz Ouarda[1], Haciane Yamina[2], Laoufi Nadia Aicha[3] *[1]Department of pharmacy, Faculty of Medicine, Saad Dahlab University, Algeria* *[2]Reaction engineering laboratory USTHB, Algeria* *[3]Laboratory of the phenomena of matter transfer USTHB, Algeria*
	ID 210. **Adsorption study of Fe(III) ions by chelating polymeric adsorbents modified with different amines**
	Maharramov A. Mammadali, Eyyubova E. Jalil, Nagiyev Kh. Jamal, Chiragov F. Musa *Baku State University, Azerbaijan*
	ID 251. **Evaluation of physicochemical quality of Loratadine raw material**
	Bahdja Guerfi[1], Amina Zouani[2], Nadia Hadhoum[3], R.Boucehaba[1], H.Benzaid[1], N.E.Rahmani[1] , F. Z. Hadjadj Aoul[4] *[1]Laboratory of Medicinal Chemistry, Faculty of Medicine, University Saad Dahlab of Blida 1, Algeria* *[2]Laboratory of toxicology, Faculty of Medicine, University Saad Dahlab of Blida 1, Algeria* *[3]Laboratory of Medicinal Chemistry, Faculty of Medicine, University Mouloud Maamri of Tizi ouzou, Algeria* *[4]Laboratory of Medicinal Chemistry, Faculty of Medicine, University of ZIANIA, Algeria*
	ID 289. **Fluorimetric Determination Of E132 Synthetic Dye In Wastewater**
	Nikolaeva A.[1], Korotkova E.[1], Lipskikh O.[1], J. Barek[2] *[1]National Research Tomsk Polytechnic University, School of Natural Resources, Department of Chemical Engineering, Russia* *[2]Charles University, Faculty of Science, Department of Analytical Chemistry, UNESCO Laboratory of Environmental Electrochemistry, Czech Republic*
	ID 299. **Potentiometric fluoride ion (F^-) determination in water samples: interferenceof aluminium ions (Al^{+3})**
	Giouni E. A., Gkountas A. A., Pantazis K. *ELKEME, Hellenic Research Centre for Metals S.A., Greece*
	ID 325. **Meeting Requirements of the Environmental Quality Standards Directive Irelands Priority Substance Scoping Study**
	Currivan L., O'Loughlin C., O'Toole S., O'Dwyer R., Gordon K., Cunningham D. and Fennell S. *Environmental Protection Agency, Ireland, Office of Radiation Protection and Environmental Monitoring, Ireland*
	ID 364. **Direct Injection and Online SPE LC/MS/MS for the Determination of Pharmaceuticals in Surface-Water**
	B. Stahl[1], Y. Gao[1], B. Schuhn[1] G. Vanhoenacker[2], K. Sandra[2], T. Glauner[1] *Agilent Technologies, Inc., Germany* *Research Institute for Chromatography, Belgium*
	ID 470. **A simultaneous and automated solid phase extraction of organotin compounds, PBDE and PCB in surface water**
	Pacholska A., Poppe L. *Flemish Environment Agency, Belgium*
	ID 484. **Challenges in Batch Equilibrium Adsorption Studies Using Non-Labeled Materials: A Case Study**
	Jacobs L. *CRL den Bosch B.V., Netherlands*
	ID 486. **Comparison of two colorimetric methods for determination of extractable phosphorus in soils**

	K. Ivanov, P. Zaprjanova, V. Angelova, S. Krustev *University of Agriculture, Bulgaria*
	ID 556. **Contaminants of emerging concern: residues of antipsychotics in the Atibaia River, São Paulo, Brazil**
	R. C. Pivetta, C. Rodriguez-Silva, A. R. Ribeiro, S. Rath *Institute of Chemistry, Department of Analytical Chemistry, University of Campinas (UNICAMP), Brazil*
10:00-19:00	**Urban contaminants: control measures, remediation actions and toxicological implications**
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	ID 166. **Adsorption of alachlor and pentachlorbenzene on biochar and hydrochar originating from *Miscanthus giganteus* and sugar beet shreds**
	Marijana Kragulj Isakovski[a], Snežana Maletić[a], Marija Mihajlović[b], Jelena Petrović[b], Jelena Tričković[a], Tamara Apostolović[a], Aleksandra Tubić[a], Jasmina Agbaba[a] *[a]University of Novi Sad, Faculty of Sciences, Department of Chemistry, Biochemistry and Environmental protection, R. Serbia* *[b]Institute for Technology of Nuclear and Other Mineral Raw Materials, R. Serbia*
	ID 170. **Zebrafish model to assess ecotoxicological impacts of cosmetic products preservatives: case of parabens and their substitutes**
	Morin C., Bressy A., Saichi M., Leroyer C., Guttmann Y., Moilleron R., Garrigue-Antar L. *Leesu, UMR MA-102, ENPC, UPEC, AgroParisTech, France*
	ID 537. **Polycyclic aromatic hydrocarbons and heavy metals in urban soils of Havana, Cuba**
	Sosa D.[1], Hilber I.[2], Bartolomé N.[2,3], Peña B.[1], Keller A.[4], Escobar A.[1,5], Bucheli T.D.[2] *[1]Centro Nacional de Sanidad Agropecuaria (CENSA), Cuba* *[2]Agroscope, Environmental Analytics, Switzerland* *[3]Department of Environmental Systems Sciences, ETH Zurich, Switzerland* *[4]Swiss Soil Monitoring Network NABO, Agroscope, Switzerland* *[5]Departamento de Producción Agrícola Animal (DPAA). Universidad Autónoma Metropolitana-Unidad Xochimilco, México*
10:00-19:00	**Recent advances in targeted and non-targeted screening strategies based on high resolution accurate mass spectrometry in environmental and food analysis**
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	ID 58. **Levels of dioxins and PCBs in commercial butters samples in Poland**
	Pajurek M., Mikolajczyk Sz., Maszewski S., Piskorska-Pliszczynska J. *National Veterinary Research Institute,Radiobiology Department, NRL for Dioxins and PCBs,Poland*
	ID 59. **PCDD/Fs and PCBs in sediments and freshwater fish from Polish rivers and lakes**
	Mikolajczyk S., Maszewski S., Pajurek M., Warenik-Bany M., Piskorska-Pliszczynska J. *Radiobiology Department, National Veterinary Research Institute, NRL for Dioxins and PCBs, Poland*
	ID 65. **Determination of diclofenac and acetaminophen and their respective metabolites in 20 days old *maize* and *pea* with HPLC-DT-IM-QTOF-MS**
	Mlynek F.[1], Klampfl C. W.[1], Buchberger W.[1], Zezulka S.[2], Triska J.[3] *[1]Institute of Analytical Chemistry, Johannes Kepler University Linz, Austria* *[2]Institute of Experimental Biology, Faculty of Science, Masaryk University, Czech Republic* *[3]Academy of Sciences of the Czech Republic, Global Change Research Institute, Czech Republic*
	ID 84. **Development of a method using QuEChERS and LC-HRMS for the evaluation of the uptake of pharmaceuticals in greenhouse lettuce**
	Orfanioti A.[1], Montemurro N.[1], Berisha S. [1], Calls C. [1], Guerrero A., Thomaidis N. [2], Perez S.[1] *[1]Dept. of Environmental Chemistry, IDAEA-CSIC, Spain* *[2]Dept. of Chemistry, University of Athens, Greece*
	ID 85. **Uptake and accumulation of pharmaceuticals and personal care products (PPCPs) by**

	radish crops irrigated with treated wastewater
	Berisha S.[1], Montemurro N.[1], Orfanioti A.[1], Calls C.[1], Thomaidis N.[2], Perez S.[1] *[2]Dept. of Chemistry-National and Kapodistrian University Of Athens, Greece* *[1]Dept. of Environmental Chemistry, IDAEA-CSIC, Spain*
	ID 200. **Uptake and biological effects of the insecticide Fipronil on seabass**
	Dallarés S.[1], Dourado P.[2], Peña-Herrera J.M.[3], Montemurro N.[3], Pérez S.[3], Berdié L.[4], Solé M.[1] *[1]Institute of Marine Sciences (ICM-CSIC), Spain* *[2]Universidade Estadual Paulista Júlio de MesquitaFilho, Brazil* *[3]Dept. of Environmental Chemistry, Institute for Environmental Assessment and Water Research (IDAEA-CSIC), Spain* *[4]Scientific and Technological Centers of the University of Barcelona (CCiTUB), Spain*
	ID 357. **Combination of high throughput target analysis by laser diode thermal desorption with screening analysis of irbesartan and its degradation products**
	A. Borik[1] , A. Chronakova[2], R. Grabic[1], R. Kodesova[3] *[1]University of South Bohemia in Ceske Budejovice, Faculty of Fisheries and Protection of Waters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, Czech Republic* *[2]Biology Centre CAS, Institute of Soil Biology, Czech republic* *[3]Czech Univ Life Sci Prague, Dept Soil Sci & Soil Protect, Fac Agrobiol Food & Nat Resources, Czech Republic*
	ID 395. **Assessment of multi-contaminant concentrations in indoor dust and air from four European countries**
	Adrian Covaci[1], Giulia Poma[1], Christina Christia[1], Daniel Drage[2], Stuart Harrad[2], Fang Tao[3], Oskar Sandblom[3], Merle M. Plassmann[3], Jonathan P. Benskin[3], Cynthia de Wit[3], Sicco Brandsma[4], Peter Cenijn[4], Ike van der Veen[4], Nina Wemken[5], Marie Coggins[5], Pim Leonards[4], Marja Lamoree[4] *[1]Toxicological Center, University of Antwerp, Belgium* *[2]Geography, Earth and Environmental Sciences, University of Birmingham, UK* *[4]Department of Environmental Science and Analytical Chemistry, Stockholm University, Sweden* *[4]Vrije Universiteit, Department Environment & Health, The Netherlands* *[5]School of Physics and the Ryan Institute, National University of Ireland Galway, Ireland*
	ID 460. **A novel method for the determination of polar herbicides in feed, milk and honey samples**
	Sorokin A.V., Ovcharenko V. V., Lebedev A. M., Kalantaenko A. M., Kozhushkevich A. I., Turbabina K. A., Komarov A. A. *Russian State Center for Quality and Standardization of Veterinary Drugs and Feed (VGNKI), Russia*
	ID 121. **Monitoring of Perfluoroalkylated substances (PFASs) in fish and shellfish collected from Greece**
	E. Zafeiraki[a] and M. Dassenakis[a] *[a]Department of Chemistry, National and Kapodistrian University of Athens, Greece*
	ID 253. **Multi-class LC-MS/MS and GC-MS/MS methodologies for the determination of pesticides and their metabolites in environmental and food matrices**
	Eleni Botitsi, Spiros Antoniou, Despina Tsipi *General Chemical State Laboratory, National Reference Laboratory, Greece*
	ID 517. **Comparison of analytical methods for the quantification of perfluoroalkylated substances (PFASs) in fish by using LC-MS/MS**
	E. Zafeiraki[a], S. Van Leeuwen[b] and M. Dassenakis[a] *[a]Department of Chemistry, National and Kapodistrian University of Athens, Greece* *[b]RIKILT Wageningen University and Research, The Netherlands*
	ID 532. **Application of mass spectrometry-based approaches to characterize changes in water composition after chlor(am)ination**
	Cristina Postigo[1,2], Anna Andersson[3], Mourad Harir[4], David Bastviken[3], Michael Gonsior[5], Philippe Schmitt-Kopplin[4], Pablo Gago-Ferrero[6], Lutz Ahrens[2], Karin Wiberg[2] *[1]Water and Soil Quality Research Group, Department of Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Spain* *[2]Department of Aquatic Sciences and Assessment, Swedish University of Agricultural Sciences (SLU), Sweden* *[3]Linköping University, Department of Thematic Studies-Environmental Change, Sweden* *[4]German Research Centre for Environmental Health, Helmholtz Zentrum München, Germany* *[5]Chesapeake Biological Laboratory, University of Maryland Center for Environmental Science, USA* *[6]Catalan Institute for Water Research (ICRA), Spain,*

10:00-19:00	**Investigating the environmental fate and ecotoxicology of glyphosate**
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	ID 303. **Glyphosate: center of a scientific debate**
	Pérez-Consuegra N *UNESCO Chair of Agroecology and Sustainable Development, Agrarian University of Havana, Cuba*

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	T. Filep[1], D. Zacháry[1], G. Jakab[1,2], L. Szabó[1,2], A. Vancsik[1], M. Ringer[1,2], Z. Szalai[1,2] *[1]Hungarian Academy of Sciences, Geographical Institute, Research Centre for Astronomy and Earth Sciences, Hungary* *[2]Eötvös Loránd University, Faculty of science, Environmental and Landscape Geography, Hungary*
	ID 131. **Characterization of 17α-ethinylestradiol adsorption on DOM using high performance liquid chromatography and fluorescent spectroscopy**
	Vancsik A.[1], Szalai Z.[1,2], Szabó L.[1], Ringer M.[1], Gáspár L.[1], Jakab G.[1,3], Kondor A. Cs.[1], Filep T.[1] *[1]Research Centre for Astronomy and Earth Sciences Hungarian Academy of Sciences, Geographical Institute, Hungary* *[2]Eötvös Loránd University, Faculty of science, Environmental and Landscape Geography, Hungary* *[3]Institute of Geography and Geoinformatics, University of Miskolc, Hungary*
	ID 540. **Formation of chlorinated disinfection byproducts (DBPs) in water: the strengths of correlations between DBPs and organic matter-based predictors**
	Bhuvaneshwari M. and Borisover M. *Institute of Soil, Water and Environmental Sciences, Agricultural Research Organization, Israel*
	ID 245. **The Impact Of Industrial Activities And Human Activities On Wadi Cheliff**
	Mustapha Smaine *University Hassiba Benbouali, Algeria*
10:00-19:00	**Micropollutants and microplastics in the aquatic environment**
	Poster Presentations
	ID 113. **Qualitative analysis of municipal solid waste landfill leachate from Vojvodina, Serbia, and identification of endocrine disruptors**
	K. Antić[1], M. Sremački[1], M. Petrović[1], M. Turk-Sekulić[1], D. Adamović[1], D. Sakulski[2], J. Radonić[1] *[1]University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety and Health, TrgDositejaObradovića 6, 21000 Novi Sad, Serbia* *[2]University of Novi Sad, BioSense Institute, Dr.Zorana Đinđića 1, 21000 Novi Sad, Serbia*
	ID 514. **Characterization of sources and risks associated with polychlorinated biphenyl (PCBs) in bottom sediments of the Danube River in Serbia**
	M. Brborić[1], B. Vrana[2], B. Stepanov[1], J. Radonić[1], M. Turk Sekulić[1] *[1]University of Novi Sad, Faculty of Technical Sciences, Department of Environmental Engineering and Occupational Safety and Health, Serbia* *[2]Masaryk University,Faculty of Science, RECETOX Research Centre for Toxic Compounds in the Environment, Czech Republic*
	ID 137. **Do Microplastics Pose a Risk in Drinking Water? The Case Study of Barcelona Urban Area**
	Boleda M.R.[1], Ballesteros-Cano R[2], Minoves M.[1], Martin J.[1], Paraira M.[1], Ferrer N.[3], Lacorte S.[2] *[1]Aigües de Barcelona, S.A., Catalonia, Spain* *[2]Department of Environmental Chemistry, IDAEA-CSIC, Catalonia, Spain* *[3]Centres Científics i Tecnològics Universitat de Barcelona, Catalonia, Spain*
	ID 156. **Application of passive sampling to evaluate the chemical pollution of treated wastewater intended for reuse**
	Alygizakis N.[2,3], Urík J.[1], Oswald P.[1], Beretsou V.[4], Fatta-Kassinos D.[4], Thomaidis N.[2], Slobodnik J.[1] and Vrana B.[1] *[1]Masaryk University, Faculty of Science, Research Centre for Toxic Compounds in the Environment (RECETOX), Czech Republic*

	[2]National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Analytical Chemistry, Greece *[3]Environmental Institute Ltd., Slovak Republic* *[4]Department of Civil and Environmental Engineering and Nireas-International Water Research Center, University of Cyprus, Cyprus*
	ID 519. **Chasing equilibrium passive sampling of hydrophobic organic compounds in water**
	Vrana B.[1], Rusina T.[1], Okonski K.[1], Prokeš R.[1], Carlsson P.[3],Kopp R.[2] and Smedes F.[1] *[1]Masaryk University, Faculty of Science, Research Centre for Toxic Compounds in the Environment (RECETOX), Czech Republic* *[2]Mendel University in Brno, Department of Zoology, Fisheries, Hydrobiology and Apiculture (FA), Czech Republic* *[3]Norwegian Institute for Water Research (NIVA), Tromsø office, Norway*
	ID 162. **Microplastics versus drinking water treatment**
	L. Cermakova, K. Novotna, L. Pivokonska, M. Pivokonsky *Institute of Hydrodynamics of the Czech Academy of Sciences, Czech Republic*
	ID 179. **Monitoring of pharmaceuticals, pesticides and perfluorinated compounds in the effluent of a municipal wastewater treatment plant using a hydrogel-based passive sampler (o-DGT)**
	Fialová P.[1], Šverclová K.[1],Krupčíková S.[1], Grabic R.[2], Vrana B.[1] *[1]Masaryk University, RECETOX, Czech Republic* *[2]University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection ofWaters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, Czech Republic*
	ID 207. **Estimation of accessible and pore water concentrations of persistent organic pollutants in surface layer sediments of the Danube river by multi-ratio equilibrium passive sampling**
	Minaříková M., Vrana B., Smedes F. *Masaryk University, Research Centre for Toxic Compounds in the Environment, Czech Republic*
	ID 268. **Separation of plastic solid waste by flotation and its utilization in the preparation of sorbent materials**
	Tsave K.P.[a], Lazaridis N.K.[a] *[a]Division of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 543. **Hexabromocyclododecane in the marine environment. Are plastic debris a potential source?**
	Y. Aminot[1,2], C. Lanctot[1,3], W. J. Robson[4], S. Sander[1], M. Metian[1], I. Tolosa[1] *[1]IAEA EnvironmentLaboratories, 4a Quai Antoine 1er, 98000 Monaco* *[2]IFREMER, Laboratory of Biogeochemistry of Organic Contaminants, France* *[3]Australian Rivers Institute, Griffith University, Australia* *[4]Biogeochemistry Research Centre, University of Plymouth, UK*
	ID 62. **Historical evolution of Cu and Zn levels in the gulf of Elefsis in the last 40 years**
	Panagopoulou G., Xarlis P., Paraskevopoulou V., Botsou F., Chalkiadaki O., Sakellari A., Dassenakis M., Scoullos M., Yfanti A. *Laboratory of Environmental Chemistry, Faculty of Chemistry, National and Kapodistrian University of Athens, Greece*
	ID 366. **Seasonal variability of pesticides contamination of river basin located on nitrate vulnerable zone of Wielkopolska region (Poland)**
	Drożdżyński D., Nowacka A. *Institute of Plant Protection – NRI, Poland*
	ID 442. **Trace level analysis of perfluoroalkyl substances in drinking water and their assessment in Metropolitan Area of Turin**
	Papagiannaki D.[1], Morgillo S.[1], Costantino G.[1], Fungi M.[1], Binetti R.[1] *[1]Società Metropolitana Acque Torino S.p.A.– Centro Ricerche, Italy*
	ID 118. **Dynamic passive sampling of POPs in surface seawater along the South Atlantic Ocean east-to-west transect and across the Black Sea**
	Sobotka J.[1], Schink A.[2], Prokeš R.[1], Lammel G.[1,2], Vrana B.[1] *[1]Masaryk University, RECETOX, Czech Republic* *[2]Max Planck Institute for Chemistry, Multiphase Chemistry Department, Germany*
	ID 372. **Potential of microplastics to act as vectors of emerging contaminants and pesticides**
	A. Khakbaz[a,c], C. Bravo[b,c], M. Contin[c], D. Goi[a] and M. De Nobili [c] *[a]Dipartimento Politecnico di Ingegneria e Architettura, University of Udine, Italy* *[b]Department of Life Sciences, University of Trieste, Italy* *[c]Dipartimento di Scienze Agroalimentari, Ambientali e Animali, University of Udine, Italy*

	ID 403. **Quantification and assessment of particle dynamics of tire and road wear particles based on zinc content after density separation**
	Klöckner P., Reemtsma T., Wagner S. *Helmholtz-Centre for Environmental Research GmbH – UFZ, Department Analytical Chemistry, Germany*
10:00-19:00	**Environmental fate of contaminants**
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	ID 40. **SEDIBRIC : sustanaible re-use of marine dredged sediments**
	L. Leleyter and F. Baraud *ABTE (Aliments Bioprocédés Toxicologie Environnements), EA4651, University of Caen Normandie, France*
	ID 176. **Montmorillonite modified with hexadecyltrimethylammonium (HDTMA) as an effective adsorbent of 3,5,6-trichloro-2-pyridinol, the main degradation product of Chlorpyrifos in soil**
	M.E. Báez, J. Espinoza, E. Fuentes, B. Del Carpio *Facultad de Ciencias Químicas y Farmacéuticas, Universidad de Chile, Chile*
	ID 550. **Colloidal stability of uncoated and PVP-coated titanium dioxide nanoparticles in environmental media**
	Badetti E.[1], Gallego J.[2], Bonetto A.[1], Basei G.[1], Walch H.[3], von der Kammer F.[3], Praetorius A.[3], Marcomini A.[1] *[1]Department of Environmental Sciences, Informatics and Statistics, University Ca' Foscari of Venice, Italy* *[2]Department of Marine Sciences, University of Gothenburg, Sweden* *[3]Centre for Microbiology and Environmental Systems Science, University of Vienna, Austria*
	ID 475. **Occurrence and Environmental Risk Assessment of pharmaceutical compounds in the influent and effluent of three different Wastewater Treatment Plants (WWTPs), Riyadh, Saudi Arabia**
	O. Alharbi[1], D. E. Jarvis[1], S. Alfadhel[2] and D. V. Chapman[1] *[1]School of Biological, Earth and Environmental Sciences, University College Cork, Ireland* *[2]Head Pharmaceuticals Analysis Section, King Abdullah International Medical Research Center (KAIMRC), Saudi Arabia*
	ID 204. **Occurrence of organochlorine pollutants levels on water samples of Devolli River, Albania**
	Nuro A., Marku E., Murtaj B. *Tirana University, Faculty of Natural Sciences, Department of Chemistry, Albania*
	ID 302. **Evaluation of antibiotic cefdinir degradation under sunlight irradiation**
	M. Biošić, E. Pek, D. Dabić, S. Babić *Department of Analytical Chemistry, Faculty of Chemical Engineering and Technology, University of Zagreb, Croatia*
	ID 67. **Inhibitory effect of cis-nerolidol on acetylcholinesterase enzyme activity**
	Herenda S.[a], Halilhodžić B.[a], Ostojić J.[a], Gutić S.[a], Burčul F.[b], Miloš M.[b] *[a]University of Sarajevo, Faculty of Science, Department of Chemistry, Bosnia and Herzegovina* *[b]University of Split, Faculty of Chemistry and Technology, Croatia*
	ID 397. **A preliminary study of persistent organic pollutants in waters of Vjosa River, Albania**
	E. Marku, A. Nuro *University of Tirana, Faculty of Natural Sciences, Departmentof Chemistry, Tirana, Albania*
	ID 355. **Leaching behavior of benzimidazole antiparasitics in soils and sheep excreta amended soil**
	R. S. Porto[1], C. Rodriguez-Silva[1], R. S. B. Pinheiro[2], S. Rath[1], R. Copetti Pivetta *[1]Institute of Chemistry, Department of Analytical Chemistry, University of Campinas (UNICAMP), Brazil* *[2]School of Engineering (FEIS), Department of Biology and Animal Science, São Paulo State University (UNESP), Brazil*
	ID 513. **Use of Biopolymer in The Encapsulation of Active Ingredients Sensitive to The Gastrointestinal Environment**
	Benaziz O.[1], Faghmous N.[2], Djeraba S.[3] *[1]Department of Pharmacy, Faculty of medicine, Saad Dahlab University, Algérie* *[2]USTHB, Algérie* *[3]Department of Pharmacy, Algeria*
	ID 535. **The role of earthworms in soil biochemistry: effects of valsartan on different enzymatic**

	biomarkers
	D. Nos[1,2], J. C. Sanchez-Hernandez[3], N. Montemurro[1], S. Pérez[1], M. Solé[2] *[1] Water and Soil Quality Research Group, Department of Environmental Chemistry. Institute of Environmental Assessment and Water Research (IDAEA-CSIC), Barcelona, Spain* *[2] Renewable Marine Resources Department, Institute of Marine Sciences (ICM-CSIC), Barcelona, Spain* *[3] Ecotoxicology Lab., Fac. Environmental Science and Biochemistry, University of Castilla-La Mancha, Spain*
10:00-19:00	**Air pollution-chemistry and health risks**
Poster Presentations	
	ID 56. **Measurements on Air Quality in Different Types of Buildings**
	Tolis E.[1,2], Panaras G.[1], Douklias E.[1], Ouranos N.[1],Papadopoulos I.[1], and Bartzis J.[1] *[1] University of Western Macedonia, Department of Mechanical Engineering, Environmental Technology Laboratory, Greece* *[2] University of Western Macedonia, Department of Environmental Engineering, Greece*
	ID 76. **Suspect screening of soot samples reveals the occurrence of emerging organophosphate ester Tris(2,4-di-*tert*-butylphenyl) phosphate**
	Titaley I. A.[a], Ortiz X.[b], Kärrman A.[a] *[a]Man-Technology-Environment (MTM) Research Centre, School of Science and Technology, Örebro Universitet,Sweden* *[b]Ontario Ministry of the Environment, Conservation and Parks, Canada*
	ID 507. **Biogenic volatile organic compounds from plant litter decomposition**
	Raluca Ciuraru[1], Julien Kammer[1], Jonathan Bitton[1],Florence Lafouge[1], Benjamin Loubet[1], Raia Massad[1], Michael Staudt[3], Patrick Stella[2],Andrée Tuzet[1] and Christian George[4] *[1]UMR ECOSYS, INRA, AgroParisTech, Université Paris -Saclay, France* *[2]UMR AgroParisTech-INRA SADAPT, DéptSIAFEE, Université Paris -Saclay, France* *[3]Centre d'Ecologie Fonctionnelle et Evolutive UMR 5175, France* *[4]CNRS-IRCELYON, Institut de Recherches sur la Catalyse et l'Environnement de Lyon (UMR5256), Université Lyon 1, France*
	ID 149. **Structural transformations accompanying the aging of water-soluble organic aerosols collected at the interface ocean-continent**
	Almeida A.[1], Cardoso D.[2], Loureiro S.[2], Duarte A.[1], Silva A.[3], Duarte R.[1] *[1]Department of Chemistry & CESAM, University of Aveiro, Portugal* *[2]Department of Biology & CESAM, University of Aveiro, Portugal* *[3]Department of Chemistry & QOPNA and LAQV-REQUIMTE, University of Aveiro, Portugal*
	ID 533. **Determination of monoterpenes in specific indoor environments – hairdresser and SPA salons**
	K. Pytel, B. Zabiegała, R. Marcinkowska *Gdańsk University of Technology, Faculty of Chemistry, Poland*
	ID 515. **Sorption of volatile organic compounds (VOCs) from cattle manure by biochar**
	M. Stylianou[1,2], K. Kaikiti[3], A. Agapiou[3], P. Papanastasiou[2], D. Fatta-Kassinos[1] *[1]NIREAS-International Water Research Center, University of Cyprus, Department of Civil and Environmental Engineering, Cyprus* *[2]Department of Civil and Environmental Engineering, University of Cyprus, Cyprus* *[3]Department of Chemistry, University of Cyprus, Cyprus*
	ID 529. **Hydrodynamic cavitation extractive desulfurization of pyrolysis tire oil with deep eutectic solvent**
	J. Jovanovic[1], A. Bubanja[1], S. Petkovic[2], B. Adnadjevic[1] *[1]Faculty of Physical Chemistry, University of Belgrade, R.Serbia* *[2]Mining Institute, Batajnicki put 2, R.Serbia*
	ID 44. **On-line determination of dicarboxylic acids in atmospheric aerosols using continuous ultrafine aerosol sampler**
	L. Čapka and P. Mikuška *Institute of Analytical Chemistry of the Czech Academy of Sciences, Czech Republic*
	ID 491. **Cancer risk from $PM_{2.5}$ bound compounds in Windsor, Canada**
	Xiaohong Xu[1] and Tianchu Zhang

	[1]*University of Windsor, Canada*
	ID 392. **Chemical and Morfho-Structural Characterization of Atmospheric Aerosol from a City of São Paulo State, Brazil**
	B. T. Franzin[1,4], F. C. Guizellini[1]; D. V. de Babos[2], O. Hojo[1], I. Ap. Pastre[3], M. R. R. Marchi[1], F. L. Fertonani[3], C. M. R. R Oliveira[4] [1]*SãoPaulo State University (Unesp), Institute of Chemistry-IQ, Department of Analytical Chemistry,Brazil* [2]*Universidade Federal de São Carlos - UFSCAr, Department of Chemistry, Brazil* [3]*SãoPaulo State University (Unesp), Institute of Biosciences, Humanities and Exact Sciences (Ibilce), Department of Chemistry and Environmental Sciences, Brazil* [4]*Centro de Química Estrutural- Faculdade de Ciências da Universidade de Lisboa, Portugal*
	ID 560. **Low Cost Gent Type Sampler Constructed for Urban Atmospheric Aerosol Sampling**
	B. T. Franzin[1,4], O. Hojo[1], M. R. Ferreira[1], M. C. Forti[2], C. D. Meneghetti[2], M. R. R. Marchi[1], F. L. Fertonani[3], C. M. R. R Oliveira[4] [1]*SãoPaulo State University (Unesp), Institute of Chemistry-IQ, Department of Analytical Chemistry, Brazil* [2]*Instituto Nacional de Pesquisas Espaciais – INPE, Brazil* [3]*SãoPaulo State University (Unesp), Institute of Biosciences, Humanities and Exact Sciences (Ibilce), Department of Chemistry and Environmental Sciences, Brazil* [4]*Centro de Química Estrutural- Faculdade de Ciências da Universidade de Lisboa, Portugal*
	ID 337. **Assessment of air pollution in the Czech Republic by emerging chlorinated contaminants**
	Pařízek O.[1],Tomáško J.[1], Švarcová A.[1], Stupák M.[1], Pulkrabová J.[1] [1] *Department of Food Analysis and Nutrition, University of Chemistry and Technology Prague, Czech Republic*
	ID 375. **The air quality assessment regarding the occurrence of polycyclic aromatic hydrocarbons (PAHs) and their derivatives in air PM2.5 in two cities of the Czech Republic**
	Gramblicka T.[1], Parizek O.[1], Stupak M.[1], Pulkrabova J.[1] [1]*Department of Food Analysis and Nutrition, Faculty of Food and Biochemical Technology, University of Chemistry and Technology, Czech Republic*
	ID 473. **Photocatalytic technology for purifying air in the interior and exterior of buildings: overall environmental impact**
	Suchánek J., Žouželka R., Vaněčková E., Rathouský J. *J. Heyrovský Institute of Physical Chemistry of the CAS, Czech Republic*
	ID 478. **Photocatalytic Abatement of NO_x: Suppression of Nitrous Acid Formation**
	Vaneckova E., Zouzelka R., Rathousky J. *J. Heyrovsky Institute of Physical Chemistry of the CAS, Czech Republic*
	ID 49. **Particle emissions measurements on CNG vehicle focusing on, sub-23nm**
	Zisimos Toumasatos[1], Anastasios Kontses[1], Zissis Samaras[1], Leonidas Ntziachristos[2] [1]*Laboratory of Applied Thermodynamics, Aristotle University of Thessaloniki, Greece* [2]*Laboratory of Heat Transfer and Environmental Engineering, Aristotle University of Thessaloniki, Greece*
	ID 123. **Evaluation of phthalates concentrations distribution both in the gas phase and in particles fraction emitted to the air**
	Szewczyńska M., Pośniak M. *Central Institute for Labour Protection –National research Institute, Department of Chemical, Aerosol and Biological Hazards, Poland*
	ID 124. **Harmful compounds emissions from compression ignition engines fuelled with different mixtures of diesel and biodiesel fuel with nanomodifiers**
	Dobrzyńska E.[1], Szewczyńska M.[1], Pośniak M.[1], Szczotka A.[2], Puchałka B.[2] [1]*Central Institute for Labour Protection – National Research Institute, Poland* [2]*BOSMAL Automotive Research and Development Institute Ltd, Poland*
	ID 142. **Structural features of water-soluble organic aerosols and their relation to air mass origin at the interface ocean-continent during winter**
	Almeida A.[1], Duarte A.[1], Silva A.[2], Duarte R.[1] [1]*Department of Chemistry & CESAM, University of Aveiro, Portugal* [2]*Department of Chemistry & QOPNAand LAQV-REQUIMTE, University of Aveiro, Portugal*
	ID 239. **Indoor concentrations of $PM_{2.5}$ and associated water-soluble and labile heavy metal fractions**
	Kogianni E., Kouras A., Samara C. *Environmental Pollution Control Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Greece*

	ID 243. **Spatiotemporal Variation of odor active VOCs in Thessaloniki, Greece: Implications for impacts from industrial activities**
	A. Besis [1], I. Latsios [2], E. Papakosta [2], T. Simeonidis [2], C. Samara [1] *[1] Environmental Pollution Control Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2] Region of Central Macedonia, Directorate of Environment, Industry, Energy and Physical Resources, Department of Environment & Hydroeconomy, Greece*
	ID 528. **Multiyear levels of PCDD/Fs, dl-PCBs and PAHs in background air in central Europe and implications for deposition**
	Degrendele C.[1], Fiedler H.[2], Kočan A.[1], Kukučka P.[1], Přibylová P.[1], Prokeš R.[1], Klánová J.[1] and Lammel G.[1,3] *[1]Masaryk University, Research Centre for Toxic Compounds in the Environment, Czech Republic* *[2]Örebro University, School of Science and Technology, MTM Research Centre, Sweden* *[3]Max Planck Institute for Chemistry, Multiphase Chemistry Department, Germany*
	ID 574. **Evaluating the accuracy of AQMesh pod sensors in capturing road environment NO_2 concentrations**
	Margaritis D.[1,2], Galas F.[3], Lambropoulou D.[1] *[1]Aristotle University of Thessaloniki / School of Chemistry, Greece* *[2]Centre for Research and Technology Hellas (CERTH) / Hellenic Institute of Transport (HIT), Greece* *[3]NZED Unit, Research Institute for Energy, University of Mons, Belgium*
	ID 167. **Real-time optical ozone sensor for occupational exposure assessment**
	C. Ghazaly[1, 2], M. Guillemot[2], B. Castel[2], E. Langlois[2], M. Etienne[1] and M. Hebrant[1] *[1] LCPME, UMR 7564, France* *[2]INRS-Institut national de recherche et de sécurité-1, France*
	ID 580. **Commuter exposure to particle-bound Polycyclic Aromatic Hydrocarbons in Thessaloniki, Greece**
	K. Karageorgou, E. Manoli, A. Kouras, C. Samara *Environmental Pollution Control Laboratory, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
10:00-19:00	**Innovation in drinking water treatment**
Poster Presentations	
	ID 160. **The influence of cellular organic matter on the coagulation of *Merismopediatenuissima* cells**
	K. Novotna, M. Baresova, L. Cermakova, J. Naceradska, M. Pivokonsky *Institute of Hydrodynamics of the Czech Academy of Sciences, Czech Republic*
	ID 288. **The biocharalternative inside tertiary treatments of potabilization plants**
	M. Castiglioni[1], L. Rivoira[1], M. Fungi[2], R. Binetti[2], L. Meucci[2], M. C. Bruzzoniti[1] *[1]Department of Chemistry, Universityof Torino, Italy* *[2]Centro Ricerche SMAT, Società Metropolitana Acque Torino, Italy*
	ID 539. **Highly efficient and selective removal of coloured pollutants from wastewaters by iron oxide mesoporous silica nanocomposites**
	Nistor M.A.[1], Nicola R.[1], Putz A.-M.[1], Ianăşi C.[1], Săcărescu L.[2], Muntean S. G.[1] *[1]Institute of Chemistry "Coriolan Drăgulescu", Romania,* *[2]Institute of Macromolecular Chemistry "Petru Poni", România*

WEDNESDAY (Level -1) June 19, 2019 pages. 83-89	
10:00-19:00	**Risk assessment of emerging pollutants experimental and modelling**
Poster Presentations	
	ID 181. **Obesogenic effect of environmental pollutants: Molecular interactions with PPARγ in humans and zebrafish**
	Schaffert A.[1], Ueberham E.[2], Kratochvil I.[1], Lehmann J.[2], Schubert K.[1,3], von Bergen M.[1] *[1]Department of Molecular Systems Biology, Helmholtz Centre for Environmental Research, Germany* *[2]Department of Therapy Validation, Fraunhofer Institute of Cell Therapy and Immunology, Germany* *[3]Kennedy Institute of Rheumatology, University of Oxford, UK*
	ID 467. ***In silico* approaches for the prediction of the removal efficiency of organic contaminants in wastewater treatment plants**
	Chirico N.[1], Casartelli I.[1], Bertato L.[1], Li Z.[2], McLachlan M.[2], Papa E.[1] *[1]QSAR Research Unit in Environmental Chemistry and Ecotoxicology, Department of Theoretical and Applied Sciences, University of Insubria, Italy* *[2]Department of Environmental Science and Analytical Chemistry (ACES), Stockholm University, Sweden*
	ID 545. **The new QSARINS-Chem standalone version to profile the hazard of organic chemicals**
	Papa E., Chirico N., Sangion A., Gramatica P. *QSAR Research Unit in Environmental Chemistry and Ecotoxicology, Department of Theoretical and Applied Sciences, University of Insubria, Italy*
	ID 387. **A novel holistic approach in the governance of environmental pollution events from PMOC**
	Russo F.[1], Groppi V.[1], Favaretto P.[1], Gubian L.[2], Bonato M.[3], Gredelj A.[3], Carrer M.[3], Palmieri L.[3], Guidolin L.[4], Corrà F.[4], Irato P.[4], Santovito G.[4], Tallandini L.[4], Ferrario C.[5], Valsecchi S.[5], Polesello S.[5], Mazzola M.[6], Onofrio G.[6], Zanon F.[6], Daprà F.[6], Lava R.[6] *[1]Prevention, Food Safety and Veterinary Directorate, Veneto Region, Italy* *[2]Azienda Zero, PassaggioLuigi Gaudenzio 1, Italy* *[3]Department of Industrial Engineering, University of Padova, Italy* *[4]Department of Biology, University of Padova, Italy* *[5]Water Research Institute – National Research Council (IRSA-CNR), Italy* *[6]Regional Environmental Protection Agency of Veneto (ARPAV), Italy*
	ID 107. **Environmental risk assessment of pharmaceuticals in the largest shallow lake in Central Europe**
	É. Molnár[1], J. Hahn[2], I. Fodor[1], Z. Zrinyi[1], S. Szoboszlay[2], Z. Pirger[1], G. Maasz[1] *[1]Adaptive Neuroethology Research Group, Department of Experimental Zoology, Balaton Limnological Institute, MTA Centre for Ecological Research, Hungary* *[2]Institute of Aquaculture and Environmental Safety, Faculty of Agriculture and Environmental Science, Szent István University, Hungary*
	ID 323. **Persistent, Mobile and toxic: A PMT and vPvM assessment of substances registered under REACH**
	Arp H. P. H.[1,2]; Schliebner I.[3] and Neumann M.[3] *[1]Norwegian Geotechnical Institute (NGI), Norway* *[2]Department of Chemistry, NTNU, Norway* *[3]German Environment Agency (UBA), Section IV 2.3 Chemicals, Germany*
10:00-19:00	**Oxidation and Advanced Oxidation processes in water and wastewater treatment**
Poster Presentations	
	ID 106. **Mixing effects on product formation during oxidation**

	J. Terhalle[a], P.Kaiser[a], M. Jütte[a], J. Buss[a], S. Yasar[a],R. Marks[a], H. Uhlmann[b],T.C. Schmidt[a,c,d],H.V. Lutze[a,c,d] *[a]Instrumental Analytical Chemistry, University of Duisburg-Essen, Germany* *[b]a.p.f. Aqua System AG, Germany* *[c]IWW Water Centre, Germany* *[d]Centre for Water and Environmental Research (ZWU), Germany*
	ID 197. **Hydrodynamic cavitation method for herbicide removal. An example: diuron**
	S. Petkovic[1], J. Jovanovic[2], B. Adnadjevic[2], M. Gigov[1] *[1]Mining Institute, Batajnicki put 2, R.Serbia* *[2]Faculty of Physical Chemistry, University of Belgrade, R.Serbia*
	ID 547. **Photocatalytic activity of TiO_2 modified by graphene oxide for the degradation of contrast media under visible light**
	Żabczyński S., Marek B., Felis E., Borowska E. *Silesian University of Technology, Environmental Biotechnology Department, Poland*
	ID 570. **Influence of potassium permanganate pre-oxidation on coagulation of organic matter produced by cyanobacterium *Microcystis aeruginosa***
	L. Cermakova, K. Novotna, L. Pivokonska, M. Pivokonsky *Institute of Hydrodynamics of the Czech Academy of Sciences, Czech Republic*
	ID 377. **A Study on degradation behavior of the antineoplastic drug Etoposide by low and high resolution mass spectrometry**
	A. Chatzimpaloglou[a], C. Christophoridis[a], K. Fytianos[a] *[a]Environmental Pollution Control Laboratory, Aristotle University of Thessaloniki, Greece*
	ID 386. **Influence of operating parameters on the sonolytic degradation efficiency of model compound 2,4dichlorophenol**
	C. Christophoridis[a], M.-F. Touloupi[a], T. Kaloudis[a, b], T. Triantis[a], A. Hiskia[a] *[a]Institute of Nanoscience and Nanotechnology, NCSR "Demokritos", Greece* *[b]Water Quality Control Department, Athens Water Supply and Sewerage Company, Greece*
	ID 557. **Photocatalytic degradation of Bromazepam by photo-fenton processes at different pH and iron complexes**
	Mitsika E.[1], Christophoridis C.[1], Fytianos K.[1], Chatzimpaloglou A.[1] *[1]Environmental Pollution Control Laboratory,Chemistry Department, Aristotle University of Thessaloniki, Greece*
	ID 472. **Immobilized rGO/TiO_2 photocatalyst for decontamination of water**
	Zouzelka R., Remzova M., Plsek J, Brabec L., Rathousky J. *J. Heyrovsky Institute of Physical Chemistry of the CAS, Czech Republic*
	ID 13. **Carbon black with Fe-N composite for catalytic oxidative degradation of organic pollutants**
	Nanzhengfang Jia[1], Qunfeng Yang[1], Jianqing Ma[2], Chensi Shen[3], Yuezhong Wen[1] *[1]Institute of Environmental Health, College of Environmental and Resource Sciences, Zhejiang University, China* *[2]College of Environmental Science and Engineering, Donghua University, China*
	ID 249. **Use Of Complexated Iron With Phosphates, In The Degradation Of Sulfametoxazole By Fenton Processes**
	Nascimento C. O. C.[a], Palácio S. M.[a],Veit M. T.[a] *[a]Postgraduate Program of Chemical Engineering, Western Paraná State University, Brazil*
	ID 382. **Antimicrobial activity removal by heterogeneous photocatalysis with N-modified TiO_2 under solar irradiation**
	C. Rodrigues-Silva[1], W. A. L.Venancio[2], M. Spina[2], R. S. Porto[1], S. Rath[1], J. R. Guimarães[2] *[1]Institute of Chemistry, Department of Analytical Chemistry, University of Campinas, Brazil* *[2]School of Civil Engineering, Architecture and Urban Design, University of Campinas, Brazil*
	ID 477. **Synthesis, Characterization, and Photocatalytic Tests of Novel Photocatalysts**
	Anucha C.[1], Altin I.[1], Fabbri D.[2], Degirmencioglu I.[1], Calza P.[2], Bacaksiz E.[1], Stathopoulos V.[3] *[1]Karadeniz Teknik Universitesi, Turkey* *[2]University of Turin, Department of Chemistry, Italy* *[3]National Kapodistrian University of Athens, Laboratory of Materials Technology, School of Science, Greece*
	ID 499. **Photocatalytic degradation of cytostatic/antineoplastic drug mixture by using floating chitosan and TiO_2-graphene oxide**
	N. Malesic Eleftheriadou, A. Ofrydopoulou, M. Papageorgiou, D.A. Lambropoulou *Laboratory of Environmental Pollution Control, Department of Chemistry, Aristotle University of Thessaloniki, Greece*

	ID 544. **Textile Wastewater Treatment via plasma for COD removal**
	T. D. Santos, V. A. S. Ribeiro, A. C. Ueda *Federal Technological University of Paraná, Brazil*
10:00-19:00	**Soil Pollution and Monitoring**
Poster Presentations	
	ID 505. **Tetralin and decalin biodegradation and influence on soil microbial cells**
	A. Zdarta, W. Smułek, E. Kaczorek *Poznan University of Technology, Institute of Chemical Technology and Engineering, Poland*
	ID 89. **The determination of mercury bioavailability to pea tissues (*Pisum sativum*L.) in urban soils**
	P. Pelcová[1], I. Zouharová[1], A. Ridošková[1,2], V. Smolíková[1,2] *[1]Department of Chemistry and Biochemistry, Mendel University in Brno, Czech Republic* *[2]Central European Institute of Technology, Brno University of Technology, Czech Republic*
	ID 389. **Contamination and profile of polycyclic aromatic hydrocarbons in soil and water samples from the district of an oil refinery in Albania**
	M. Çipa[1], E. Marku[1], M. T. García-Córcoles[2], A. Zafra-Gómez[2] *[1]Department of Chemistry, Faculty of Natural Sciences, University of Tirana, Albania* *[2]Research Group of Analytical Chemistry and Life Sciences, Department of Analytical Chemistry, Campus of Fuentenueva, University of Granada, Spain*
	ID 396. **Heavy metal levels and pollution assessment in soils of Elbasani industrial area in Albania**
	J. Tahiraj[1], E. Marku[1], G. Raber[2] *[1]Chemistry Department, Faculty of Natural Sciences, University of Tirana, Albania* *[2]Institute of Chemistry-Analytical Chemistry, University of Graz, Austria*
	ID 128. **Effects of residues chlorothalonil on microbial ecosystem of yellow-brown loam soil**
	J. Jiang[1], Z. Shan[1], Y. Shi[2] *[1]Nanjing Institute of Environmental Science, Ministry of Ecology and Environment of the P.R. China, China* *[2]Army Engineering University of PLA, China*
	ID 129. **Development of tiered risk assessment approach for soil organisms of pesticides in China**
	J. Zhou, J. Jiang, Y. Cheng, Z. Shan *Nanjing institute of environmental science, Ministry of ecology and environment of the P.R. of China, China*
	ID 178. **Assessment Of Hg Uptake By Lettuce In Amended Agricultural Peri-Urban Soils using Conventional And Novel Techniques**
	Turull M.[a], Fontàs C.[b] and Díez S.[a] *[a]Environmental Chemistry Department, Institute of Environmental Assessment and Water Research, IDÆA-CSIC, Spain* *[b]Department of Chemistry, University of Girona, Spain*
	ID 97. **Long-Term Fate of ZnO and CuO Nanoparticles in Soils: The Effect of pH and Nutrient Content**
	I. Jośko[1,2], P. Oleszczuk[2], A. Bogusz[2], J. Dobrzyńska[3], R. Dobrowolski[3] *[1] Institute of Plant Genetics, Breeding and Biotechnology, Faculty of Agrobioengineering, University of Life Sciences, Poland* *[2] Department of Environmental Chemistry, Faculty of Chemistry, Maria Sklodowska-Curie University, Poland* *[3]Department of Analytical Chemistry and Instrumental Analysis, Faculty of Chemistry, Maria Curie-Sklodowska University, Poland*
	ID 98. **Development of a method for glyphosate, glufosinate and aminomethylphosphonic acid analysis in soil samples by LC/MS/MS**
	Delhomme O.and Millet M. *Institute of Chemistry and Processes for Energy, Environment and Health (ICPEES UMR7515 CNRS), Physico – Chemistry Group of the Atmosphere, University of Strasbourg, France*
	ID 441. **Determination of gasoline range organics in environmental samples using automated head space sampling coupled to gas chromatography**
	Renpenning R.[1], Riccardino G.[2], and Cojocariu C.[2] *[1]Thermo Fisher Scientific, Germany*

	[2]Thermo Fisher Scientific, UK
	ID 578. **Determination of carbonate content-as carbon dioxide- in coal and lignite using the FOGL Digital Soil Calcimeter**
	Dimitrios Sotiropoulos[1], Vasilios Koulos[2], Ioannis Katsoyiannis[3] [1]Public Power Corporation, Greece [2]BD Inventions P.C, Greece [3]Aristotle University of Thessaloniki, Department of Chemistry, Laboratory of Chemical and Environmental Technology
10:00-19:00	**Heavy metals and other inorganic pollutants in the environment and removal technologies**
Poster Presentations	
	ID 503. **Recovery of Molybdenum, Vanadium and Nickel from filter cake**
	Nertil Xhaferaj[a,b], Fabio Maggiore[c] [a]Agricultural University of Tirana, Albania [b]School of Pharmacy, Italy [c]Orim S.p.A, Italy
	ID 54. **Isolation and characterization of Antimony resistant bacteria from the contaminated soil**
	In-Hyun Nam[1], Young-Soo Han[1], and Jin-Hee Park[2] [1]Geologic Environment Research Division, Korea Institute of Geoscience and Mineral Resources(KIGAM), Korea [2]School of Science and Agiricultural Chemistry, Chungbuk National University, Korea
	ID 81. **Biochar from crop residues for remediation of trace element polluted soils**
	P. Campos[1], R. Lopez[1], H. Knicker[1], J.M. De la Rosa[1], [1]Instituto de Recursos Naturales y Agrobiología de Sevilla (IRNAS-CSIC), Spain
	ID 104. **Prussian blue-embedded alginate foam for the simultaneous removal of radioactive strontium (^{90}Sr) and cesium (^{137}Cs) from water**
	J. Ryu[1], S. Eun[1], H.-J. Hong[2], H. Kim[3] [1]Geologic Environment Research Division, Korea Institute of Geoscience and Mineral Resources (KIGAM), Korea [2]Mineral Resources Research Division, Korea Institute of Geoscience and Mineral Resources (KIGAM), Korea [3]Environmental Radioactivity Assessment Team, Korea Atomic Energy Research Institute (KAERI), Korea
	ID 168. **Trace element profile in organs of suckling mice after chronic cobalt exposure**
	I. Ivanov[1,2], A. A. Tinkov[3], E. Petrova[1], E. Pavlova[1], I. Vladov[1], A. V. Skalny[3], Y. Gluhcheva[1] [1]Institute of Experimental Morphology, Pathology and Anthropology with Museum – Bulgarian Academy of Sciences, Bulgaria [2]National Sports Academy "Vassil Levski", Bulgaria [3]P. G. Demidov Yaroslavl State University, Russia
	ID 195. **Study of effects non-ferrous metal foundry on local forest ecosystem: mercury in edible mushroom *Craterelluscornucopioides* (L.) Pers. and soil profile**
	Saba M.[1], Falandysz J.[1] [1]Faculty of Chemistry of the University of Gdansk, Poland
	ID 264. **Protective effect of turmeric extracts against lead induced liver damage in rats**
	Abozid M. M, El-Kadousy S. A. and Abd El-Fattah A. A. Biochemistry department, Faculty of Agriculture, Menoufia University, Egypt
	ID 294. **Simultaneous arsenic and chromate removal from ground or surface waters by iron salts**
	A. Laskaridis, E. Tsoutsa, J. Sarakatsianos, I. Katsoyianis Laboratory of Chemical and Environmental TechnologyDepartment of Chemistry, Aristotle University of Thessaloniki, Greece
	ID 563. **Adsorption of arsenic (V) by nano scaled activated carbon modified by iron and manganese oxides: Material characterization and arsenic adsorption isotherms**
	Tolkou A., Deliyanni E., Katsoyiannis I., Gallios G. Department of Chemical Technology & Industrial Chemistry, School of Chemistry, Aristotle University of Thessaloniki, Greece
	ID 489. **The removal of rare earth elements (REEs) by biosorbents: A bibliographic analysis and a systematic review of recent studies**
	A. Robalds[a], J. Burlakovs[b]

	[a]*Institute of Food Safety, Animal Health and Environment "BIOR", Latvia* [b]*Linnaeus University, Sweden*
	ID 571. **Effects of oxidation on the fractionation of metals during resuspension of marine sediments**
	Damikouka I.[1], Katsiri A.[2] [1]*Department of Sanitary Engineering and Environmental Health, National School of Public Health, Greece* [2]*School of Civil Engineering, National Technical University of Athens, Greece*
	ID 436. **Uranium removal from waters by oxidized biochar fibers**
	Philippou K., Liatsou I., Hadjittofi L.,Pashalidis I. *Department of Chemistry, University of Cyprus, Cyprus*
	ID 447. **Preparation of biochar obtained from *Opuntiacladodes* and its application for copper(II) removal from aqueous solutions**
	Anastopoulos I., Hadjiyiannis P., Pashalidis I. *Radioanalytical and Environmental Chemistry Group, Department of Chemistry, University of Cyprus, Cyprus*
	ID 466. **Removal of Cr(VI) from ground waters by pipe flocculation followed by direct sand filtration**
	Xanthopoulou M., Zouboulis A., Katsoyiannis I., Evaggelinos D. *Laboratory of Chemical & Environmental Technology, Department of Chemistry Aristotle University of Thessaloniki, Greece*
	ID 30. **Reduction of Cr(VI) to Cr(III)from photovoltaic waste-water**
	D. Ikermoud[1], N. Drouiche[1], S. Aoudj[2] [1]CRTSE, N°2, Algeria [2]Laboratoire de Génie Chimique, Université Blida1, Algeria
	ID 320. **Inorganic arsenic removal from contaminated groundwater: exploring the use of self-assembling As-Pd MOFs based on central polyarsenite structures**
	W. S. Tay and P.-H. Leung *Division of Chemistry & Biological Chemistry, School of Physical and Mathematical Sciences, Nanyang Technological University, Singapore*
	ID 490. **Determination of heavy metals in soil, water and vegetables (peppers) with the aim of potential organic production**
	Ž. Jaćimović[1], M. Kosović[1], E. Mahmutović[1], D. Đurović[2] [1]*University of Montenegro, Faculty of Metallurgy and Technology, Montenegro* [2]*Institute for Public Health, Montenegro*
	ID 451. **Asbestos-containing wastes detoxification technology by microwave heat treatment using inorganic material**
	M. H. Hong, S. Y. Joo, J-. H. Yoon *Institute for advanced engineering, Republic of Korea*
10:00-19:00	**Advances in wastewater treatment**
Poster Presentations	
	ID 509. **Production and characterization of activated biochars from crop residues for wastewater treatment**
	Águeda Sánchez-Martín[1], Paloma Campos[1], María Hidalgo[1], Alba Dieguez-Alonso[2], Hernán Almuina-Villar[2], Tomas Undabeytia[1], José María De la Rosa[1] [1]*Instituto de Recursos Naturales y Agrobiología de Sevilla, Consejo Superior de Investigaciones Científicas (IRNAS-CSIC), Spain* [2]*TechnischeUniversität Berlin, Institute of Energy Engineering, Chair for Energy Process Engineering and Conversion Technologies for Renewable Energies, Germany*
	ID 316. **The plasma-based decontamination of waters contaminated with organophosphorus pesticides**
	N. Petrea[1], R. Petre[1], T.V. Țigănescu[2], G. Epure[1], C. Lăzăroaie[1], N. Grigoriu[1], S. Vizireanu[3] [1]*Scientific Research Centre for CBRN Defense and Ecology, Romania* [2]*Military Equipment and Technologies Research Agency, Romania* [3]*National Institute for Laser Plasma & Radiation Physics, Romania*

	ID 327. **Biodegradation of the iodinated contrast media in various wastewater treatment systems**
	Żabczyński S. *Silesian University of Technology, Environmental Biotechnology Department, Poland*
	ID 573. **Synthesis of novel copolymers based on PEGMEMA, PEGMA and AAc with applications as hydrogels in wastewater treatment for the removal of dyes and heavy metals**
	Achilias D. S, Manios T. K., Tsagkalias I. S. *Laboratory of Polymers and Dyes Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 433. **The study of selective photodegradation of colored pollutants by UV light using cadmium(II) coordination polymers**
	Buta I., Nıstor M. A., Muntean S. G., Costişor O. *„Coriolan Drăgulescu" Institute of Chemistry, Romania*
	ID 41. **Elimination of ammonium and sodium ions from groundwater**
	Lupascu T., Ciobanu M., Povar I. *Institute of Chemistry, Republic of Moldova*
	ID 68. **Treatment of waste- and aquaculture- water with high frequency ultrasonic (US) for sterilisation and reduction of dissolved organic substances**
	Gert Petrick G. P. *AIMES GmbH, Germany*
	ID 248. **Simulation on the Efficiency of Dry Magnetic Separation on the Recovery of Metal Fragments in the Slurry Waste Generated During the Manufacture of Photovoltaic Briquettes**
	N. Boutouchent-Guerfi[1], M. M. Boussourdi[2], M. Ouldhamou[2], N. Drouiche[1] *[1]Centre de Recherche en technologie des Semi-conducteurs pour l'Energétique (CRTSE)., Algeria* *[2]Laboratoire Pédagogique du Génie Minier, Département de Génie Minier de l'Ecole Nationale Poly-technique (ENP), Algeria*
	ID 273. **Contribution to the protection of the environment by the treatment of industrial wastewater through the cultivation of green algae**
	K. Ghezali, N. Bentahar *University M'Hamed Bougara of Boumerdes, Algeria*
	ID 313. **New photocatalysis of NPs TiO_2 – NPs ZnO supported on a persistent luminescence materials for olive mill wastewater treatment**
	Basciu I.[1], Rizzo P.[1], Alberti S.[1,2], Caratto V.[1], Locardi F.[1,3], Lova P.[1], Comoretto D.[1], Sturini M.[4], Maraschi F.[4], Ferretti M.[1,2] *[1]Dipartimento di Chimica e Chimica Industriale, Universitàdegli Studi di Genova, Italy* *[2]SPIN-CNR, Italy* *[3]Nanochemistry Department, Istituto Italiano di Tecnologia, Italy* *[4]Dipartimentodi Chimica, Università degli Studi di Pavia, Italy*
	ID 314. **Evaluation of Textile Wastewater Treatment by Constructed Wetland**
	L. B. Costa, S. S. Bernardoni, A. S. Jabur, V. A. S. Ribeiro, A. C. Ueda *Federal Technology University of Paraná – Campus Apucarana, Brazil*
	ID 424. **Evaluation of a biofilm membrane reactor for treatment and reuse of blackwater**
	L. Fjeld, D. Todt and A. Heistad *Norwegian University of Life Sciences, Norway*
	ID 454. **Reuse of household Grey water : A new paradigm for water crisis**
	Atul Mishra *National Institute of Technical Teachers' Training & Research, India*
10:00-19:00	**Identifying critical nutrient emission zones in landscapes: a key for reducing water eutrophication?**
Poster Presentations	
	ID 523. **How a three cascade dams impact sediment quality and phosphorus distribution along the Creuse River (France)?**

	Rapin A., Rabiet M., Grybos M., Mourier B, Deluchat V. *Limoges University, France*

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10:00-19:00	**Environmental applications of nanomaterials**
	Poster Presentations
	ID 512. **Electrospinning as an advanced technique for production of enzyme supports**
	K. Jankowska[1], J. Zdarta[1], A. Grzywaczyk[1], E. Kijeńska-Gawrońska[2], T. Jesionowski[1] *[1]Institute of Chemical Technology and Engineering, Faculty of Chemical Technology, Poznan University of Technology, Poland* *[2]Faculty of Materials Science and Engineering, Warsaw University of Technology, Poland*
	ID 402. **Activated carbons as adsorbates and as metal free catalysts in the oxidation of benzothiophenes for the desulfurization of fuels: the role of solvents**
	Kyriazis Rekos[1], Chrisowalantou Panou[1] Konstantinos Triantafyllidis[1], Eleni Deliyanni[1] *[1]Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 561. **Magnetic graphene oxide-polymer nanocomposites as sorbents for bisphenol A**
	Kyriazis Rekos[1], Zoi – Christina Kampouraki[1],Victoria Samanidou[2], Eleni Deliyanni[1] *[1]Laboratory of Chemical and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2]Laboratory of Analytical Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 423. **Degradation of bisphenol-A on an activated carbon-$CuFe_2O_4$ catalyst**
	Voutetaki A., Triantafyllidis K., Deliyianni E. *Laboratory of General and Inorganic Chemistry, Department of Chemistry, Aristotle University, Thessaloniki, Greece*
	ID 109. **Thin-film composite membranes comprising ultrathin polydopamine/halloysite nanotube interlayer for forward osmosis application**
	Aatif Ali Shah[1,2], Younghun Cho[1], Ahrumi Park[1], Seung-Eun Nam[1], You-In Park[1,2], Hosik Park[1,2] *[1]Research Center for Membranes, Advanced Materials Division, Korea Research Institute of Chemical Technology, Republic of Korea* *[2]University of Science and Technology (UST), Republic of Korea*
	ID 452. **Synthesis of silver sulfide nanoparticle through homogeneous precipitation route and the preparation of the Ag_2S-chitosan nanocomposites for the removal of iron(II) ion from wastewater**
	T. Xaba *Department of Chemistry, Vaal University of Technology, South Africa*
	ID 474. **Nanostructured systems for the consolidation of historical objects**
	Remzova M.[1], Brzicova T.[2], Rathousky J.[1] *[1]J. Heyrovsky Institute of Physical Chemistry of the CAS, Czech Republic* *[2]Institute of Experimental Medicine of the CAS, Czech Republic*
	ID 286. **Carbon magnetic nanoparticles for fast and efficient removal of dyes from aqueous solution**
	Nıstor M. A.[1], Ianos R.[2], Muntean S. G.[1], Kurunczı L.[1] *[1]Institute of Chemistry „Coriolan Drăgulescu", Romania* *[2]Faculty of Industrial Chemistry and Environmental Engineering, Politehnica University Timisoara, Romania,*
	ID 180. **Corrosion Inhibition and Adsorption Behaviour of Methyl Ester Sulfonate Synthetized Surfactants**
	Asselah[1,2], A. Khalfi[1], M. A.Toumi[1] and A.Tazerouti[2] *[1]Département du Génie des Procédés, Faculté des Sciences de l'Ingénieur- Université de M'Hamed Bougara UMBB, Algeria,* *[2]Laboratoire de Chimie Organique Appliquée, Faculté de Chimie, Université des Sciences et Technologie Houari Boumediène USTHB, Algeria*
	ID 332. **Catalytic oxidative desulfurization of 4,6-DMDBT in fuels by activated nanoporous carbons: the role of structural and surface chemistry features**

	Kampouraki Z.-C., Giannakoudakis D.A., Triantafyllidis K., Deliyanni E.A. *Laboratory of General and Environmental Technology, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki, Greece*
10:00-19:00	**Green and sustainable chemistry strategies for agricultural and food waste biomass valorizations**
Poster Presentations	
	ID 127. **Design Of Low Toxicity And Biodegradable Ionic Liquids For Biomass Valorization**
	Zeba Usmani[1], Surya Sudheer[1], Grete Raba[1], Vijai Kumar Gupta[1], Raivo Vilu[1], Nicholas Gathergood[1] *[1]Department of Chemistry and Biotechnology, ERA Chair of Green Chemistry, Tallinn University of Technology, Estonia*
	ID 158. **Supramolecular solvent extraction for valorization of coffee husks**
	L.S. Torres-Valenzuela[1,2], A. Ballesteros-Gómez[1], S. Rubio[1] *[1]Departamento de Química Analítica, Instituto Universitario de Química Fina y Nanoquímica IUNAN, Universidad de Córdoba, España* *[2]Universidad La Gran Colombia Seccional Armenia, Colombia*
	ID 223. **Ultra sound assisted nanocatalyst deposition in photo-microreactor for the photochemical valorization of biomass derived model compounds**
	S. R. Pradhan[1], V. Nair[1], J. C .Colmenares[1] *[1]Institute of Physical Chemistry, Polish Academy of Sciences, Poland*
	ID 226. **Design of a sono-photo reactor for oxidation of lignin-based molecules**
	D. Łomot, D. Giannakoudakis, B. Zawadzki, J.C. Colmenares *Institute of Physical Chemistry, Polish Academy of Sciences , Poland*
	ID 350. **Life cycle assessment of industrial syngas production: comparison between a new steam/dry reforming process and traditional routes**
	Passarini F.[a,b], Volanti M.[a], Schiaroli N.[a], Lucarelli C.[c], Copelli S.[c], Vaccari A.[a] and Pellini B.[a] *[a]Department of Industrial Chemistry "Toso Montanari", University of Bologna, Italy* *[b]Interdepartmental Center of Industrial Research "Renewable Sources, Environment, Blue Growth, Energy", University of Bologna, Italy* *[c]Department of Science and High Technology, Universityof Insubria, Italy*
	ID 457. **Effect of liquid phase state on organosolv using water/1-butanol co-solvent for cedar wood**
	Y. Kawamata[1], H. Iahimaru[1], H. Aoki[1], T. Yoshikawa[1], Y. Koyama[2], Y. Nakasaka[1], T. Masuda[1] *[1]Division of Applied Chemistry, Faculty of Engineering, Hokkaido University, Japan* *[2]Idemitsu Kosan Co.,Ltd., Advanced Technology Research Laboratories, Japan*
	ID 416. **Adsorption of phenolic compounds by activated carbon obtained from *Haematoxylumcampechianum* bark**
	Mohamed Abatal *Facultad de Ingeniería, Avenida Central SN, México*
	ID 228. **Ultrasonic driven synthesis of novel nanocomposites and their utilization for ultrasound assisted photocatalytic upgrade of biomass derived chemicals**
	Giannakoudakis D. A., Zawadzki B., Łomot D., Colmenares J.C. *Institute of Physical Chemistry, Polish Academy of Sciences, Poland*
	ID 72. **Effect of surface functional groups of activated carbons made from olive residue on the TiO_2 catalyst deposit**
	S. Tazibet[1], H. Fettaka[2], H. Boudouh[2], D. Abou M'Hamed[3] *[1]Laboratoire des matériaux Poreux, Unité d'Enseignement et de Recherche en Physico-chimie des matériaux / Ecole Militaire Polytechnique, Algeria* *[2]Institut de Recherche et Développement en Industrie et Technologies de Défense, Algeria* *[3]Laboratoire énergétique, Unité de Recherche-Développement Mécanique Aéronautique, Algeria*
	ID 266. **Impact of microbial co-cultivation on biofuel production from agro-peels**
	Sameh Fahim [1], Walaa Hussein[2] and Adel Elbeltagy [1] *[1]Agricultural Microbiology and Biotechnology, Botany Department, Faculty of Agriculture, Menoufia University, Egypt* *[2]Genetics and Cytology Department, Genetic Engineering and Biotechnology Division, National Research Centre, Egypt*
	ID 354. **Mild-hydroteated bio-oil compatibility evaluation as a renewable co-supply in**

	conventional oil refinery
	Manara P.[1], Dimitriadis A.[1], Chrysikou L.[1], Meletidis G.[1], Pfisterer U.[2]and Bezergianni S.[1] *[1]Chemical Process and Energy Resources Institute (CPERI), Centre for Research and Technology Hellas – CERTH, Greece* *[2]BP Europa SE, Germany*
	ID 356. **Hydrotreated pyrolysis bio-oil stability study towards the logistics for its utilization as refinery intermediate**
	Chrysikou L. P., Dimitriadis A., Manara P., Bezergianni S. *Chemical Process and Energy Resources Institute (CPERI), Centre for Research and Technology Hellas – CERTH, Greece*
	ID 413. **Alternative feedstock for the production of 2nd generation biodiesel: the case of Greece**
	Michailof C.[1], Sountourlis M.[2], Marianou A.[1], Karakoulia S.[1], Yfanti V. L.[1], Lemonidou A.[1], Lappas A.[1] *[1]Chemical Process and Energy Resources Institute, CERTH, Greece* *[2]Newenergy S.A., Greece*
10:00-19:00	**Recycling and resource reuse as tools for efficient circular economy**
Poster Presentations	
	ID 481. **Novel trends in the thermo-chemical recycling of plastics from WEEE containing brominated flame retardants**
	Charitopoulou M. A.[1], Kalogiannis K. G.[2], Lappas A. A.[2], Achilias D. S.[1] *[1]Laboratory of Polymers and Dyes Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece* *[2]Chemical Process Engineering Research Institute, Centre for Research and Technology Hellas, Greece*
	ID 494. **Polymer packaging waste recycling: microwaves and UV-treated materials study**
	Achilias D. S., Vouvoudi E. C. *Laboratory of Polymers and Dyes Chemistry and Technology, Department of Chemistry, Aristotle University of Thessaloniki, Greece*
	ID 122. **An overview of good practice on cooling water management in steel hot rolling mil**
	I. Panagiotoulias, A. Sakellari, E. Dassenakis, M. Scoullos *National and Kapodistrian University of Athens, Department of Chemistry, Laboratory of Environmental Chemistry, Greece*
	ID 342. **The immobilization of compounds from heavy polluted wastewater into geotechnical composite**
	Oarga-Mulec A.[a], Štefančič M.[a], Zalar-Serjun V.[a], Likon M.[b] , Mladenovič A.[a], Oprčkal P.[a], Milačič R.[c], Mauko Pranjić A.[a] *[a]Slovenian National Building and Civil Engineering Institute, Slovenia* *[b]Ekorecd.o.o., Slovenia* *[c]Department of Environmental Sciences, Jožef Stefan Institute, Slovenia*
	ID 568. **State-of-art on environmental stability, metal recovery and reuse of spent catalyst**
	Mikoda B.[1], Potysz A.[2], Tomczyk A.[1] *[1]AGH University of Science and Technology, Faculty of Geology, Geophysics and Environmental Protection, Poland* *[2]University of Wrocław, Institute of Geological Sciences, Poland*
	ID 292. **Nitrification in reactor – a way to treat urine to get stable, smell free nutrient solution for urban greening**
	Foereid B., Enoksen A. O., Heidorn T., Maehlum T. *Norwegian Institute of Bioeconomy Research, Norway*
	ID 421. **Evaluation of a compact unit for pre-and primary treatment of greywater**
	S. Rummelhoff, P. Jenssen and A. Heistad *Norwegian University of Life Sciences, Norway*
	ID 426. **Phosphorous recovery by precipitation of struvite using sea water as a magnesium source**
	E. Kapela, T. Krogstad and P. D. Jenssen *Norwegian University of Life Sciences, Norway*
	ID 427. **Precipitation of Fertilizer from concentrated Liquid waste**
	S. Ullah Khan, M. K. Pandey, P. D. Jenssen *Norwegian University of Life Sciences, Norway*

	ID 425. **Production of Drinking water from Greywater**
	Saksham Mainali, Manoj Pandey, Petter D. Jenssen
	Norwegian University of Life Sciences, Norway
	ID 562. **Development of a model for the prediction of fresh and dry biomass of lettuce in NFT hydroponic system, using machine learning and imaging technology**
	Robert C.[1,2,3], Jiangsan Zhao[3], Fen Qiao[4], Jihong Liu Clarke[3] *(1)INGALT 52, 2016-2019. ISA LILLE., France* *(2)ASTREDHOR Seine-Manche, France* *(3)NIBIO, Norway* *(4)State Key Laboratory for Biology of Plant Diseases and Insect Pests, Institute of Plant Protection, Chinese Academy of China, China*
10:00-19:00	**Environmental problems relevant to Mediterranean Sea and Gulf of Mexico (MedSea-GuMex)**
Poster Presentations	
	ID 92. **Detection of domoic acid and lipophilic toxins in plankton and mussel samples from Bulgarian north coast in 2017. Human exposure to marine toxins**
	Peteva Z.[1]; Georgieva S.[1]; Krock B.[2]; Stancheva M.[1] *[1]Medical University Varna, Bulgaria* *[2]Alfred-Wegener-Institute, Helmholz Zentrum für Polar- und Meeresforshung, Chemische Ökologie, Germany*
	ID 34. **Glyphosate adsorption in continental and Mediterranean vineyard soils of Croatia**
	S. Stipičević[1], S. Fingler[1], V. Filipović[2], L. Filipović[2], M. Zovko[2], F. Kranjčec[2], K. Barić[2], G. Ondrašek[2] *[1]Institute for Medical Research and Occupational Health, Croatia* *[2]University of Zagreb, Faculty of Agriculture, Croatia*
10:00-19:00	**General**
Poster Presentations	
	ID 101. **Control of Organic Pollution in Pacific salmon as food products of indigenous people from the Russian Far East**
	Tsygankov V.Yu., Boyarova M.D., Lukyanova O.N. *Far Eastern Federal University, Russia*
	ID 102. **Organochlorine Pesticides in the Living and Dead Human Blood from Russian Far East**
	Gumovskaya Yu.P., Gumovskiy A.N., Tsygankov V.Yu., Boyarova M.D., Khamueva E.V., Lukyanova O.N. *Far Eastern Federal University, Russia*
	ID 400. **Testing of the efficiency of Margarita Flower leaf extract, against the corrosion of Fe B500 in the H_2SO_4 in the presence of ions Cl**
	E. Kokalari[1], A. Lame[1] *[1] Department of Chemistry, Faculty of Natural Sciences, University of Tirana, Albania*
	ID 401. **Protection efficiency of Eucalyptus leaf extract against acidic corrosion of Fe B500**
	A. Lame[1], E. Kokalari[1] *[1]Department of Chemistry, Faculty of Natural Sciences, University of Tirana, Albania*
	ID 428. **Translocation and metabolization of UV filters in plants after uptake from water**
	Buchberger W.[1], Seyer A.[1], Mlynek F.[1], Himmelsbach M.[1], Klampfl C. W.[1] *[1]Institute of Analytical Chemistry, Johannes Kepler University Linz, Austria*
	ID 439. **Comparison of the Antimicrobial activity of permaleic acid and peracetic acid on *Escherichia coli* and *Staphylococcus aureus***
	Motta O[1], Zarrella I[1], Di Filippo L[1], Pironti C[2], Ricciardi M[2], Cucciniello R[2], Proto A[2] *[1]Department of Medicine,Surgery and Dentistry "Scuola Medica Salernitana", University of Salerno, Italy* *[2]Department of Chemistry and Biology, University of Salerno, Italy*
	ID 496. **Development of bio-based chemicals to increase the resistance to chlorinated pool**

	water fastness of the textile material
	A. Altıkardeş, N. Kâtip, S. Mert, C. Gülşen *Sözal Kimya Research & Development Center, Turkey*
	ID 374. **Uptake and metabolization of lamotrigine and diclofenac by *Lactuca sativa***
	Bigott Y. [1], Chowdhury S. P. [2], Pérez S. [3], Schröder P. [1] *[1]Helmholtz Zentrum München GmbH, Research Unit for Comparative Microbiome Analysis, Germany* *[2]Helmholtz Zentrum München GmbH, Institute of Network Biology, Germany* *[3]Water and Soil Quality Research Group, Department of Environmental Chemistry, IDAEA-CSIC, Spain*
	ID 483. **Cyanotoxins and cyanobacteria. An emerging threat to water resources and human health**
	Zafeirakis I., Cavoura O., Damikouka I., Evrenoglou L. and Zervas G. *Department of Sanitary Engineering and Environmental Health, National School of Public Health, Greece*
	ID 209. **Biodegrability and aquatic toxicity of new cationic oligomeric surfactants**
	M. Pakiet[1], M. T. Garcia[2], I. Ribosa[2], I. Kowalczyk[1], B. Brycki[1] *[2]Laboratory of Microbiocides Chemistry, Faculty of Chemistry, Adam Mickiewicz University, Poland* *[2]Surfactants and Nanobiotechnology Department, Institute of Advanced Chemistry of Catalonia, IQAC-CSIC, Spain*
	ID 143. **Impact of progestogens contaminations on the development of zooplankton and aquatic invertebrate species**
	R.Svigruha[1,2], Z. Zrínyi[2], I. Fodor[2], G. Maasz[2], Z. Pirger[2] *[1]University of Pannonia, Faculty of Engineering, Doctoral School of Chemistry and Environmental Sciences, Hungary* *[2]Adaptive Neuroethology Research Group, Department of Experimental Zoology, Balaton Limnological Institute, MTA Centre for Ecological Research, Hungary*
	ID 464. **Biofuel from Jatropha Seeds : A Solution to Bio Energy**
	R. G. Chouksey and Atul Mishra *National Institute of Technical Teachers' Training & Research, India*
	ID 549. **Analysis and assessment of the Power to Gas solutions in the context of their potential for energy market**
	Skorek-Osikowska A., Bartela Ł., Uchman W., Katla D. *Silesian University of Technology, Poland*
	ID 274. **Robustness & validation an HPLC method for the determination of digoxin in tablet unit**
	I.Benghezal and F. Reggabi. *SAAD DAHLEB University, Pharmacy Department, Algeria*
	ID 282. **Quality assurance of radiopharmaceuticals**
	F. Reggabi, I. Benghezal *SAAD DAHLEB University, Pharmacy Department, Algeria*
	ID 331. **Desymmetrization of Achiral Heterobicyclic Alkenes via Catalytic Asymmetric Hydrophosphination**
	Abdul Sadeer, Ong Yew Jin, Tadayuki Kojima, Foo Ce Qing, Li Yong Xin, Sumod A. Pullarkat and Leung Pak-Hing *Division of Chemistry & Biological Chemistry, School of Physical and Mathematical Sciences,Nanyang Technological University, Singapore*
	ID 415. **The synthesis and characterization of mononuclear phthalocyanines with (3,5-di-tert-butyl-1,2-phenylene)bis(oxy) bridged**
	Safinaz Şahin, Zafer Odabaş
	ID 449. **Quantitative Structure Activity Relationship and Docking Studies on a Series of H+/K+-ATPase Inhibitors**
	Bashirulla Shaik *Department of Applied Science, National institute of Technical Teachers' Training & Research, India*
	ID 476. **Effectiveness of Althea officinal in Pb Heavy Metal Accumulation**
	Reza Narfai Azad *Azad university, Iran*
	ID 534. **Synthesis, characterization and study of antacid activity of anionic clays with lamellar structure**
	Lettreuch Rima Asma[1, 2], Guerfi Bahdja[1], Chemmat Zoubida[3], Hadjadj-Aouel Fatima Zohra[4] [1]Laboratory of Medicinal Chemistry, Faculty of Medicine, University Saad Dahlab of Blida 1, Algeria [2]Central pharmacy of hospital public establishment in Boufarik, Blida, Algeria

	[3]Laboratory of Process Engineering, Faculty of science, University Saad Dahlab of Blida 1, Algeria [4]Laboratory of Medicinal Chemistry, Faculty of Medicine, University Ziania of Alger Algeria
	ID 564. **The synthesis and characterization of dinuclear ball type phthalocyanines with (3,5-di-tert-butyl-1,2-phenylene)bis(oxy) bridged**
	Safinaz Şahin, Zafer Odabaş