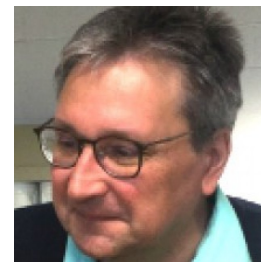


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Chemistry
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Expertise

Research competence

Dr. ir. Marc Elskens is an environmental chemist with expertise in the domain of transformations, transport and fate of chemicals in water; water resources and quality; chemical risk assessment and stable isotope modelling. His research approach is based on the development and application of chemometric methods to environmental analysis and data mining. The past few years he became involved in the development of ERE/DRE-dual CALUX Bioassays System for the assessment of estrogen- and dioxin-like persistent organic pollutants in several matrices including food contact materials, human fluids and environmental samples.

Projects

Assessment of water quality in urban waters

This research aims at investigating in which ways urban water systems satisfy to EU regulations, regarding Environmental Quality Standards (EQS) for a variety of contaminants (N, P, inorganic & organic micro-pollutants). Alteration of the ecological and chemical status is a motivation for reassessing management options for both runoff and waste waters in urban environment as well as to implement mitigating strategy. Funding for this research is provided by Brussels Institute for Research and Innovation (INNOVIRIS) in the framework of ANTICIPATE and EXPLORE projects

Measuring and modelling trace metals/radionuclides in aquatic systems. Metals/radionuclides pollution in surface waters from point and non-point sources is a widespread problem worldwide. This research aims at modelling metals fate and transport in streams and watersheds. It builds on existing transport models in aquatic systems. Funding for this research is provided by the Belgian Federal Science Policy Office (BELSPO) and by SKC PhD fellowships

Applications of ^{15}N , ^{13}C and ^{30}Si tracers in isotope flux experiments. Acquisition of techniques and development of expertise for automated analysis of stable C & N isotope composition of plankton and suspended organic matter, as well as and implementation of numerical tools for assessing organic carbon export flux. Development of compartmental model analysis for data mining. Funding for this research is provided by the Research Foundation Flanders (FWO) and by the Belgian Federal Science Policy Office (BELSPO)

Migration of chemicals from packaging and food contact material

The safety of food contact materials must be evaluated as chemicals (inorganic and/or organic micro-pollutants) can migrate from packaging into food. Accordingly, the materials must be manufactured in compliance with EU regulations, so that any potential transfer to foods does not raise safety concerns. Funding for this research is provided by the Federal Public Service Health, Food chain safety and Environment (FOD) and/or by the Research Foundation Flanders (FWO).

Measurement Science in Chemistry

The Measurement Science in Chemistry consortium, involving 9 EU-universities (<http://www.msc-euromaster.eu/webapp/website/website.html?id=252>) organises each year a unique International Summer School on Analytical Science, Metrology and Accreditation. The school has shown to attract a variety of people, ranging from master to doctoral students, but also people, who already are employed in a laboratory. It was initiated in 2008 by the European Commission Joint Research Centre, in view of the importance of quality assured analytical measurement data for many European policies. Typically, some 40-people come together for a two-week intensive school to learn about how to obtain quality in chemical or bio-analytical measurements by understanding and practicing how to apply the international standard (ISO/IEC-17025) and of the role of metrology and accreditation. Funding for this summer school is provided by registration fees

Keywords and disciplines

Analytical and Environmental Chemistry, Biogeochemistry, Chemometric, Applied Statistic, Water Quality, Risk Assessment

Employment

Chemistry

Vrije Universiteit Brussel
Brussels, Belgium
15 Mar 2024 → 30 Sep 2027

Chemistry

Vrije Universiteit Brussel
Brussels, Belgium
1 Jan 2023 → 30 Sep 2027

Archaeology, Environmental changes & Geo-Chemistry

Vrije Universiteit Brussel
Brussels, Belgium
1 Jan 2023 → present

Interdisciplinary Historical Food Studies

Vrije Universiteit Brussel
Brussels, Belgium
29 Mar 2021 → present

Guest Professor

KU Leuven
Leuven, Belgium
1 Oct 2006 → present

Research outputs

Time evolution of estrogen contamination in the Scheldt estuary

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Production and dissolution of biosilica, and changing microphytoplankton dominance in the Bay of Brest (France)

Beucher, C., Tréguer, P. & Elskens, M., 2004, In: *Unknown Journal*.

Regional variation of spring N-uptake and new production in the Southern Ocean

Savoie, N., Dehairs, F., Elskens, M., Cardinal, D., Kopczynska, E. E., Trull, T. W., Wright, S., Baeyens, W. & Griffiths, F. B., 2004, In: *Geophysical Research Letters*. 31

Spatial and temporal trends in nutrient concentrations in the Belgian Continental area of the North Sea during the period 1993-2000

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Brion, N., Baeyens, W., De Galan, S., Elskens, M. & Laane, W. P. M., 2004, In: *Biogeochemistry*. 68, p. 277-296 20 p.

Zonal variation of spring N-uptake and new production in the Southern Ocean

Savoie, N., Dehairs, F., Elskens, M., Kopczynska, E. E. & Baeyens, W., 2004, In: *Geophysical Research Letters*.

The role of oxidative stress on the effect of 1,4,7,10,13,16-hexathiacyclooctadecane on copper and zinc toxicity in HepG2 cells. Human & Experimental toxicology

Smet, P., Elskens, M., Bolle, F., Dierickx, P., Human, N. V. (ed.) & Toxicology, E. (ed.), 1 Oct 2003, In: *Unknown Journal*. 22, p. 89-93 5 p.

An integrated approach to assess carbon dynamics in the Southern Ocean

Dehairs, F., Lancelot, C., André, L. & Elskens, M., 2003, Belgian Scientific Research Programme on the Antarctic Phase 4, Vol 1 : Marine biota and Global change.

Bioconcentration and biomagnification of mercury and methylmercury in North Sea and Scheldt estuary fish

Baeyens, W., Leermakers, M., Brion, N., De Gieter, M., Elskens, M. & Goeyens, L., 2003, In: Archives of Environmental Contamination and Toxicology. 4, 45, p. 498-508 11 p.

Estimation of the minimum detectable value for the determination of PCBs in fatty food samples by GC-ECD: a curvilinear calibration case

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Kinetics of N-Utilization By Natural Phytoplankton Assemblages During Upwelling Events At The NW Iberian Shelf

Brion, N., Elskens, M., Dehairs, F. & Baeyens, W., 2003, *Geophysical Research Abstracts*. Vol. 5. p. 1885 1 p.

the role of oxidative stress on the effect of 1,4,7,10,13,16-hexathiacyclooctadecane on copper and zinc toxicity in HepG2 cells

Smet, P. W. & Elskens, M., 2003, In: Unknown Journal.

Linearity of calibration curves: use and misuse of the correlation coefficient

Van Loco, J., Elskens, M., Croux, C. & Beernaert, H., 10 Aug 2002, In: Accreditation and Quality Assurance. 7, p. 281-285 5 p.

N uptake conditions during summer in the Subantarctic and Polar Frontal Zones of the Australian sector of the Southern Ocean

Elskens, M., Baeyens, W. & Dehairs, F., 2002, In: Journal of Geophysical Research: Oceans. 107, C11

New production of the NW Iberian shelf during the upwelling season over the period 1982-1999

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PCBs in North Sea Fish: Is there a health risk?

Baeyens, W., Leermakers, M., De Gieter, M. & Elskens, M., 2002, In: Organohalogen Compounds. 55, p. 315-318 4 p.

Pelagic production at the Celtic Sea shelf break

Joint, I., Dehairs, F. & Elskens, M., 2001, In: Deep-Sea Research Part II. Topical Studies in Oceanography. 48, p. 3049-3081

Phytoplankton and microzooplankton variability between the Subtropical and Polar Fronts south of Australia: Thriving under regenerative and new production in late summer

Kopczynska, E. E., Dehairs, F. & Elskens, M., 2001, In: Journal of Geophysical Research: Oceans. 106, p. 31.597-31.609

Supply and demand of nutrients and dissolved organic matter at and across the NW European shelf break in relation to hydrography and biogeochemical activity

Hydes, D. J. & Elskens, M., 2001, In: Unknown Journal.

Export production in the Bay of Biscay as estimated from barium - barite in settling material: a comparison with new production.

Dehairs, F., Fagel, N., Elskens, M. & Goeyens, L., 2000, In: Deep-Sea Research Part I. 47, p. 583-601 19 p.

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Brion, N., Elskens, M. & Baeyens, W., 2000, *32d Liège Colloquium on Ocean Hydrodynamics*.

Nutrient depletions in the Ross Sea and their relation with pigment stocks

Goeyens, L., Elskens, M., Catalano, G., Hecq, J. H. & Goffart, A., 2000, In: Unknown Journal.

Uptake conditions during summer in the Subantarctic region of the Southern Ocean

Elskens, M. & Dehairs, F., 2000, *The Southern Ocean: Climatic changes and the cycle of carbon, International JGOFS Symposium, 9-13 July 2000, Brest-France.*

Thiram and dimethyldithiocarbamic acid interconversion in *Saccharomyces cerevisiae*: a possible metabolic pathway under the control of the glutathione redox cycle

Elskens, M. T. & Penninckx, M. J., Jul 1997, In: Applied and Environmental Microbiology. 63, 7, p. 2857-2862 6 p.

The impact of the Scheldt input on the trace metal distribution in the Belgian coastal area (results of 1981-1983 and 1995-1996)

Baeyens, W., Elskens, M., Van Ryssen, R. & Leermakers, M., 1 Jan 1997, In: Hydrobiologia. 366, 1-3, p. 91-108 18 p.

In vitro inactivation of yeast glutathione reductase by tetramethylthiuram disulphide

Elskens, M. T. & Penninckx, M. J., 1 Aug 1995, In: European Journal of Biochemistry. 231, 3, p. 667-672 6 p.

Geochemistry of mercury in an intertidal flat of the Scheldt estuary

Leermakers, M., Elskens, M., Panutrakul, S., Monteny, F. & Baeyens, W., 1 Jun 1993, In: Netherlands Journal of Aquatic Ecology. 27, 2-4, p. 267-277 11 p.

Metabolism and functions of glutathione in micro-organisms

Penninckx, M. J. & Elskens, M. T., 1993, In: Advances in Microbial Physiology. 34, p. 239-301 63 p.

Geochemical processes in muddy and sandy tidal flat sediments

Baeyens, W., Panutrakul, S., Elskens, M., Leermakers, M., Navez, J. & Monteny, F., 1 Sep 1991, In: Geo-Marine Letters. 11, 3-4, p. 188-193 6 p.

Microbial activity in sandy and muddy estuarine sediments

Elskens, M., Leermakers, M., Panutrakul, S., Monteny, F. & Baeyens, W., 1 Sep 1991, In: Geo-Marine Letters. 11, 3-4, p. 194-198 5 p.

Glutathione as an endogenous sulphur source in the yeast *Saccharomyces cerevisiae*

Elskens, M. T., Jaspers, C. J. & Penninckx, M. J., 1991, In: J Gen Microbiol. 137, 3, p. 637-644 8 p.

Activities

Integrating groundwater flux measurements in groundwater modelling of drought adaptation impacts

Lara Speijer (Speaker), Mateusz Zawadzki (Contributor), Delphine Vandeputte (Contributor), Yiqi Su (Contributor), Mingyue Luo (Contributor), Yue Gao (Contributor), Marc Elskens (Contributor), Pascal Verhoest (Contributor), Jo Renate Bauwens (Contributor), Tom Coussement (Contributor), Frank Elsen (Contributor), Birte Raes (Contributor), Steven Eisenreich (Contributor), Goedele Verreydt (Contributor), Jef Dams (Contributor) & Marijke Huysmans (Contributor)
7 Dec 2023

Integrating groundwater flux measurements in groundwater modelling of drought adaptation impacts

Lara Speijer (Speaker), Mateusz Zawadzki (Contributor), Delphine Vandeputte (Contributor), Yiqi Su (Contributor), Yue Gao (Contributor), Marc Elskens (Contributor), Pascal Verhoest (Contributor), Jo Renate Bauwens (Contributor), Tom Coussement (Contributor), Frank Elsen (Contributor), Birte Raes (Contributor), Steven Eisenreich (Contributor), Goedele Verreydt (Contributor), Jef Dams (Contributor) & Marijke Huysmans (Contributor)
10 Nov 2023

Assessing the role of pH in soil for trace metal uptake by agricultural crops

Delphine Vandeputte (Speaker), Sybrien Lievens (Contributor), Mateusz Zawadzki (Contributor), Mingyue Luo (Contributor), Marijke Huysmans (Contributor), Marc Elskens (Contributor) & Yue Gao (Contributor)
10 Oct 2023 → 13 Oct 2023

Integrating groundwater flux measurements in groundwater modelling of drought adaptation impacts: case study on sub-irrigation of treated wastewater in Kinrooi (Belgium)

Lara Speijer (Speaker), Mateusz Zawadzki (Contributor), Delphine Vandeputte (Contributor), Yiqi Su (Contributor), Mingyue Luo (Contributor), Yue Gao (Contributor), Marc Elskens (Contributor), Pascal Verhoest (Contributor), Jo Renate Bauwens (Contributor), Tom Coussement (Contributor), Frank Elsen (Contributor), Birte Raes (Contributor), Steven Eisenreich (Contributor), Goedele Verreydt (Contributor), Jef Dams (Contributor) & Marijke Huysmans (Contributor)
11 Sep 2023 → 15 Sep 2023

Assessing the AhR-mediated activity of Polycyclic Aromatic Hydrocarbons (PAHs) and their Methylated Derivatives using AhR-CALUX Bioassay

Yiqi Su (Speaker), Besarta Matranxhi (Contributor), Yuwei Jia (Contributor), Yue Gao (Contributor) & Marc Elskens (Contributor)
10 Sep 2023 → 14 Sep 2023

Optimization and implementation of the CALUX bioassay for the determination of endocrine active substances present in dental materials and food (Event)

Luc Leyns (Jury), Imke Boonen (Presenter) & Marc Elskens (Supervisor)
1 Dec 2022

Reuse of treated wastewater for irrigation and groundwater recharge: effects on groundwater levels and quality

Mateusz Zawadzki (Speaker), Lara Speijer (Contributor), Delphine Vandeputte (Contributor), Yiqi Su (Contributor), Mingyue Luo (Contributor), Yue Gao (Contributor), Marc Elskens (Contributor), Jo Renate Bauwens (Contributor), Pascal Verhoest (Contributor), Tom Coussement (Contributor), Frank Elsen (Contributor), Birte Raes (Contributor), Dries De Bièvre (Contributor), Steven Eisenreich (Contributor) & Marijke Huysmans (Contributor)
20 Oct 2022

Re-use of treated wastewater for irrigation and groundwater recharge: feasibility and effects on groundwater quantity at the experimental site in Kinrooi, Belgium.

Mateusz Zawadzki (Speaker), Lara Speijer (Contributor), Delphine Vandeputte (Contributor), Yiqi Su (Contributor), Mingyue Luo (Contributor), Yue Gao (Contributor), Marc Elskens (Contributor), Jo Renate Bauwens (Contributor), Pascal Verhoest (Contributor), Steven Eisenreich (Contributor), Tom Coussement (Contributor), Frank Elsen (Contributor), Birte Raes (Contributor) & Marijke Huysmans (Contributor)
27 May 2022

Re-use of treated wastewater for irrigation and groundwater recharge: environmental impact assessment based on tracer method at the experimental site in Kinrooi, Belgium

Lara Speijer (Speaker), Delphine Vandeputte (Contributor), Mateusz Zawadzki (Contributor), Yiqi Su (Contributor), Mingyue Luo (Contributor), Yue Gao (Contributor), Marc Elskens (Contributor), Pascal Verhoest (Contributor), Jo Renate Bauwens (Contributor), Tom Coussement (Contributor), Frank Elsen (Contributor), Birte Raes (Contributor), Steven Eisenreich (Contributor) & Marijke Huysmans (Contributor)
23 May 2022 → 27 May 2022

Endocrine Disruptors Workshop

Marc Elskens (Speaker)
22 Jun 2021

Solange Grimal

Marc Elskens (Host)
Jun 2021 → Oct 2021

International Summer School on Analytical Chemistry, Metrology and Accreditation

Marc Elskens (Speaker)
Jul 2020

Development of DGT passive sampler for the assessment of polycyclic aromatic hydrocarbons (PAHs) in water using AhR-CALUX as detection method

Xiaohan Zhang (Speaker), Yue Gao (Contributor), Michael S. Denison (Contributor) & Marc Elskens (Contributor)
19 Feb 2020 → 21 Feb 2020

Hang Hoang Ti My

Marc Elskens (Host)
Oct 2019 → Nov 2019

Development of DGT passive sampler for the assessment of polycyclic aromatic hydrocarbons (PAHs) in water using AhR-CALUX as detection method

Xiaohan Zhang (Presenter), Marc Elskens (Contributor), Michael S. Denison (Contributor), huisheng zhuang (Contributor) & Yue Gao (Contributor)
18 Sep 2019 → 20 Sep 2019

International Summer School on Analytical Chemistry, Metrology and Accreditation

Marc Elskens (Chair)
Jul 2019

Cooperation program between VUB, UGent and Hué University. Preservation of the coastal ecosystem and natural resources in Cau Hai lagoon under the effects of development activities

Marc Elskens (Lecturer)
9 Apr 2019 → 17 Apr 2019

TriboREMEDY meeting: H2020-FETOPEN-2018-2019-2020-01

Marc Elskens (Member of programme committee)
28 Mar 2019 → 30 Mar 2019

Education agreement with Sichuan University. Subject 2 + 3 years master's degree programs in Chemistry

Marc Elskens (Presenter)
13 Oct 2018 → 18 Oct 2018

Strategy of Sustainable Development of China: Environmental Aspects

Yue Gao (Organiser), Xinning Song (Organiser), Philippe Claeys (Chair) & Marc Elskens (Chair)
27 Jun 2018

Influence of discharge and temperature on the transport of tracer pollutants along an urban river (Zenne, Belgium)

Natacha Brion (Speaker), Vincent Carbonnel (Contributor), Michel A. Verbanck (Contributor), Marc Elskens (Contributor) & Philippe Claeys (Contributor)
5 Jun 2018

Development and implementation of the ERE-CALUX bioassay: Assessment of estrogens in the environment and in food packaging materials (Event)

Luc Leyns (Jury), Tara Vandermarken (Presenter) & Marc Elskens (Supervisor)
29 May 2018

AMGC Field sampling @ Aquiris on May 9th, 2018

Kersten Van Langenhove (Participant) & Marc Elskens (Supervisor)
9 May 2018

ICEPRAR 2018

Marc Elskens (Participant)
18 Apr 2018 → 20 Apr 2018

ICEPRAR 2018

Marc Elskens (Invited speaker)
18 Apr 2018 → 20 Apr 2018

Mineral oil research in Belgium: Results of the market survey

Annelies Van Heyst (Invited speaker), Els Van Hoeck (Contributor), Joeri Vercaemmen (Contributor), Mathias Vanlancker (Contributor) & Marc Elskens (Contributor)
29 Mar 2018

Diana Di Nitto

Marc Elskens (Host)
2018 → 2019

Frits Heinrich

Marc Elskens (Host)
2018 → 2020

Evidence of high N₂ fixation rates in productive waters of the temperate Northeast Atlantic

Debany Fonseca-Batista (Speaker), Florian Deman (Contributor), Xuefeng Li (Contributor), Natacha Brion (Contributor), Marc Elskens (Contributor), Virginie Riou (Contributor), Lei Chou (Contributor), François Fripiat (Contributor), Sarthou Geraldine (Contributor), Julie Laroche (Contributor), Planquette Hélène (Contributor) & Frank Dehairs (Contributor)
18 Dec 2017 → 19 Dec 2017

Maria Grazia Bonelli

Niels De Winter (Host), Imke Boonen (Host), Kersten Van Langenhove (Host) & Marc Elskens (Host)
30 Nov 2017

The isotopic niche of odontocetes in the southwestern Atlantic Ocean and its relation to environmental isotopic patterns

Genyffer Cibele Troina (Speaker), Silvina Botta (Contributor), Marc Elskens (Contributor), Frank Dehairs (Contributor) & Eduardo R. Secchi (Contributor)
23 Oct 2017 → 27 Oct 2017

Adam Sajnog

Marc Elskens (Host)
2 Oct 2017 → 2 Dec 2017

Cooperation program between VUB, UGent and Hué University. Preservation of the coastal ecosystem and natural resources in Cau Hai lagoon under the effects of development activities"

Marc Elskens (Lecturer)
24 Sep 2017 → 23 Oct 2017

AMGC Field sampling @ Aquiris using novel o-DGT equipment

Kersten Van Langenhove (Participant), Wei Guo (Participant), Camille Gaulier (Participant), Yue Gao (Supervisor) & Marc Elskens (Supervisor)
18 Sep 2017 → 22 Sep 2017

International Summer School on Analytical Chemistry, Metrology and Accreditation

Marc Elskens (Chair)
9 Jul 2017 → 22 Jul 2017

Assessing cetaceans' intra and interspecific trophic interactions and niche width using $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ from basal sources to top predators

Genyffer Cibele Troina (Speaker), Silvina Botta (Contributor), Marc Elskens (Contributor), Frank Dehairs (Contributor) & Eduardo R. Secchi (Contributor)
19 Jun 2017 → 23 Jun 2017

the EGU General Assembly 2017

Marc Elskens (Participant)

21 Apr 2017

Anna Zawrotniak

Kersten Van Langenhove (Supervisor) & Marc Elskens (Host)

13 Feb 2017 → 30 Jun 2017

Monika Bryczkowska

Kersten Van Langenhove (Supervisor) & Marc Elskens (Host)

13 Feb 2017 → 30 Jun 2017

Natalia de Souza Pelinson

Kersten Van Langenhove (Supervisor) & Marc Elskens (Host)

13 Feb 2017 → 30 Jun 2017

My Tran Ti Ai

Marc Elskens (Host)

1 Sep 2016 → 5 Oct 2017

International Summer School on Analytical Chemistry, Metrology and Accreditation

Marc Elskens (Chair)

10 Jul 2016 → 23 Jul 2016

Master of Sciences in Chemistry

Marc Elskens (Contributor)

Mar 2016

CONSEIL REGIONAL NORD – PAS DE CALAIS Direction de la Recherche, Enseignement Supérieur, Santé et Technologies de l'Information et de la Communication Service Recherche et Technologies (External organisation)

Marc Elskens (Reviewer)

21 Jan 2016

International Summer School on Analytical Science, Metrology and Accreditation

Marc Elskens (Speaker)

12 Jul 2015 → 25 Jul 2015

Comprehensive chemical analyses of Environmental pollutants benefit from combined chemical and bio-analytical approaches

Marc Elskens (Speaker)

Mar 2015

CONSEIL REGIONAL NORD – PAS DE CALAIS Direction de la Recherche, Enseignement Supérieur, Santé et Technologies de l'Information et de la Communication Service Recherche et Technologies (External organisation)

Marc Elskens (Reviewer)

7 Jan 2015

Belgian committee of UNESCO-International Hydrological Programme (External organisation)

Marc Elskens (Member)

2015 → 2017

International Summer School on Analytical Chemistry, Metrology and Accreditation

Marc Elskens (Speaker)

27 Jul 2014 → 9 Aug 2014

Eurachem Workshop: Quality in Analytical Measurements

Marc Elskens (Participant)
19 May 2014 → 21 May 2014

Gianni Sulas

Kersten Van Langenhove (Supervisor) & Marc Elskens (Host)
7 Apr 2014 → 28 Nov 2014

The CALUX bioassay: PCDD/F and PCB analysis in sludge and sediment samples and methodological optimization (Event)

Luc Leyns (Jury), Kersten Van Langenhove (Presenter) & Marc Elskens (Supervisor)
27 Feb 2014

FOD Volksgezondheid, Veiligheid van de Voedselketen en Leefmilieu / SPF Santé publique, Sécurité de la Chaîne alimentaire et Environnement (External organisation)

Marc Elskens (Member)
2014 → 2017

International Summer School on Analytical Science, Metrology and Accreditation

Marc Elskens (Speaker)
1 Jul 2013 → 14 Jul 2013

Consortium of Measurement Science in Chemistry, Euromaster MSC (External organisation)

Marc Elskens (Member)
2013 → 2017

Training School on Geotraces data quality control

Marc Elskens (Chair)
10 Apr 2012 → 12 Apr 2012

31st International Symposium on Halogenated Persistent Organic Pollutants

Marc Elskens (Chair)
21 Aug 2011 → 25 Aug 2011

Tracer and Timescale Methods for Understanding Complex Geophysical and Environmental Processes

Marc Elskens (Speaker)
16 Aug 2011 → 19 Aug 2011

Accumulation of trace elements in mussels, fish and marine mammals from the Black Sea (Event)

Luc Leyns (Jury), Dorina Bolba (Presenter), Marc Elskens (Supervisor) & Martine Leermakers (Supervisor)
18 Mar 2011

European Union Reference Laboratory, Fribourg, Germany (External organisation)

Marc Elskens (Contributor)
12 Dec 2010 → 15 Dec 2010

Scientific Institute of Public Health, Brussels (External organisation)

Marc Elskens (Member)
2010 → 2018

Press/Media

Free Brussels Journal METRO covers our SUBLIMUS project

Philippe Claeys, Marc Elskens & Natacha Brion
20/09/19
1 item of Media coverage

High levels of oestrogen found in the Zenne

Tara Vandermarken, Natacha Brion, Kersten Van Langenhove & Marc Elskens
16/10/18
1 Media contribution

La Dernière Heure, VRT-NEWS, RTBF, Les Échos, Bruzz, Daily Science etc. highlighted our SUBLIMUS project

Natacha Brion, Philippe Claeys & Marc Elskens
24/10/19 → 16/08/21
15 items of Media coverage

Awards

EU601: triboREMEDY: The triboreactor as breakthrough remediation strategy for safeguarding human and environmental health.

Elskens, M.
European Commission: €365,418.75
1/03/19 → 31/05/23

Projects

FWOAL408: A multi-proxy approach to study biogeochemical cycling of carbon and nitrogen in tropical and temperate estuaries

Elskens, M., Brion, N., Bouillon, S. & Dehairs, F.
1/01/07 → 31/12/10

FVO28: Berekening en ontwikkeling van indicatoren voor biociden.

Elskens, M.
1/12/06 → 30/04/08

OZR3094: Bilateral Cooperation ikv common doctoral project: Bench Fee for Joint PhD VUB-ULB, Zhang Hailong

Elskens, M.
7/02/17 → 31/12/20

OZR3335: Bilateral cooperation within the framework of a joint doctoral project: benchfee for joint PhD VUB - ULiège DEMAN FLORIAN

Elskens, M.
21/09/18 → 20/09/22

BRGIMP19: BRIDGE 2019: SUBLIMUS – Becoming modern green urban alchemists: Gold and silver mining from Brussels urban sewage

Elskens, M., Claeys, P. & Brion, N.
1/03/19 → 30/06/22

FWOKN299: Closing the gap on endocrine disrupting chemicals, a novel passive sampling technique supported by discrete and continuously sampled waters

Elskens, M. & Claeys, P.
1/01/18 → 31/12/21

OZR3252: Cofinancing OZR FWO Hercules MZW equipment: A walk on the wild side of stable isotope biogeochemistry...

Claeys, P., Elskens, M., Olde Venterink, H., Nys, K., Tys, D., Kervyn De Meerendre, M., Huybrechts, P., Van Griensven, A., Huysmans, M., Thiery, W. & Snoeck, C.
1/05/18 → 30/04/23

CONO519: Conference-Summer School (July 2016): Summer School on Analytical Chemistry, Metrology and Accreditation

Elskens, M.
22/09/15 → 31/12/16

BRGEOZ224: Development and validation of the passive samplers Diffusive Gradients in Thin Films (DGT) as monitoring tools to study metal dynamics and sediment - water interactions in a complex river system such as the Zenne River.

Elskens, M.
1/01/13 → 31/12/14

FOD74: ENDFOODTOX : screening de perturbateurs endocriniens potentiels liés à l'alimentation, évaluation de leur activité oestro/androgénique et de l'exposition alimentaire de la population belge.

Elskens, M., PICRON, J., VAN HOECK, E., DE LUCA, D., BLAUDE, M. N., VANHEE, C. & DE RIDDER, K.
1/01/19 → 31/10/21

BRGEOZ244: Endocrine disrupting chemicals in hospital effluent waters from the Brussels region and its impact on bacterial biodiversity.

Elskens, M., Servais, P. & Van Langenhove, K.
1/02/14 → 28/02/17

OZR4161: Extension of the PhD trajectory due to Covid-19 (BOF Budget)

Eeltink, S., Elskens, M., Versées, W., Mattelaer, A., Oberthur, S., Wambacq, P., Lambert, B., Claeys, P., Keulen, S., Anckaert, E., Mast, J., Tompa, P., Coene, G., Hubin, A., Leermakers, M. & Gao, Y.
15/08/23 → 30/11/24

HERC46: FWO Hercules MZW: A walk on the wild side of stable isotope biogeochemistry

Claeys, P., Elskens, M., Olde Venterink, H., Nys, K., Tys, D., Kervyn De Meerendre, M., Huybrechts, P., Van Griensven, A., Huysmans, M., Thiery, W. & Snoeck, C.
1/05/18 → 30/04/22

BRGEOZ146: GESZ: Towards the "good ecological status" in river Zenne: re-evaluating Brussels' wastewater management.

Brion, N., Bauwens, W., Chen, M., Elskens, M., Baeyens, W., Van Griensven, A., Leta, O. T., Shrestha, N. K., Servais, P., Verbanck, M. & Van Langenhove, K.
1/05/09 → 30/04/14

IRP25: GROW: Re-use of treated wastewater for irrigation, groundwater recharge and drinking water: environmental impacts and public perception

Huysmans, M., Bauwens, J. R., Verhoest, P., Elskens, M. & Gao, Y.
1/11/24 → 31/10/29

CONI519: INSCHRIJVINGEN: Zomerschool (juli 2016)

Elskens, M.
22/09/15 → 31/12/16

HERC65: Inside-Out - The X-Ray approach

Snoeck, C., Goderis, S., Veselka, B., Olde Venterink, H., Kervyn De Meerendre, M., Lambert, B., Elskens, M., Vandam, R., Van den Brande, N., Tielens, F., Nys, K., Zekollari, H., Hauffman, T., Peeters, E., Claeys, P., Gao, Y., Rahier, H., Meulebroeck, W., Provyn, S., Leermakers, M., Thiery, W. & Devos, Y.
1/05/24 → 30/04/28

CONO361: Internationale workshop/School over tracer- en tijdsschaalmethoden voor complexe geofysische- en milieuprocessen.(Louvain-la-Neuve van 16/8/2011 tot 19/08/2011)

Elskens, M.
1/08/11 → 19/11/11

FWOAL272: Koolstofexport en heterotrofe afbraak van planktondetritus in de oceaan.

Elskens, M., Baeyens, W., Savoye, N. & Dehairs, F.

1/01/04 → 31/12/07

FOD15: Migratie van minerale olie uit kartonnen verpakkingen voor levensmiddelen: Identificatie van de gevaren en evaluatie van de blootstelling van de Belgische bevolking.

Elskens, M.

1/10/15 → 13/01/19

OZRSRF15: Modern chemometric data analysis for Earth and Environmental Science problems - SRF mandate

Elskens, M.

1/10/13 → 30/09/18

BRGEOZ262: OSIRIS - Tracing Metropolitan Brussels water routes

Claeys, P., Elskens, M., Brion, N. & Verbanck, M.

1/10/14 → 30/09/16

BRGEOZ262B: OSIRIS - Tracing Metropolitan Brussels water routes

Claeys, P., Elskens, M. & Brion, N.

1/10/16 → 30/09/18

BRGEOZ417: Prospective Research: Plastic City: Prospecting the plastic environmental debt in the Brussels Region – present status and future projections

Elskens, M. & Brion, N.

1/09/22 → 1/10/25

GOA53: Proxies and Numerical Tools for Assessing Organic Carbon Export Flux and Deep Ocean Processing.

Elskens, M., Baeyens, W., Bouillon, S., Brion, N. & Dehairs, F.

1/01/07 → 31/12/11

FVO40: Quantification des composés dioxiniques présents dans des engrais, des amendements du sol et dans les boues d'épuration destinées à être valorisées sur les sols agricoles.

Elskens, M., Goeyens, L., Kerkhofs, P. & Van Langenhove, K.

13/09/10 → ...

FWOAL811: Release of Bisphenol A and other endocrine disruptors from synthetic resin based dental filling materials

Elskens, M.

1/01/16 → 31/12/19

FWOAL860: Rethinking Roman Nutrition. Assessing the nutritional biochemistry and stable isotope chemistry of archaeobotanical cereals and pulses from Roman Egypt.

Erdkamp, P. & Elskens, M.

1/01/18 → 31/12/20

IRP17: Re-use of treated wastewater for irrigation and groundwater recharge: environmental impacts and public perception

Huysmans, M., Bauwens, J. R., Verhoest, P., Elskens, M. & Gao, Y.

1/11/19 → 30/11/25

FVO37: Risk-evaluation for the Belgian citizens of aluminium in food

Elskens, M., Leermakers, M., Bolle, F. & Van Loco, J.

1/03/10 → 13/08/12

HERC55: Shooting stars and blasting dinosaurs: boosting ICP-MS capabilities across various research domains.
Goderis, S., Olde Venterink, H., Tielens, F., Snoeck, C., Terryn, H., Nys, K., Leermakers, M., Claeys, P., Elskens, M., Kervyn De Meerendre, M., Lambert, B., Peeters, E., Hauffman, T., Rahier, H., Gao, Y., Meulebroeck, W. & Wouters, B.
1/05/22 → 30/04/26

VLIR296: South Initiative (SI) : Tracing the status and impacts of terrestrial contamination in the coastal environments of Tanzania.
Brion, N., Elskens, M. & Baeyens, W.
1/09/14 → 31/08/16

SRP68: SRP-Onderzoekszwaartepunt: Earth: from Accretion to Anthropocene: Documenting 4.5 Billion Years of Global Changes
Claeys, P., Goderis, S., Snoeck, C., Elskens, M., Gao, Y., Kervyn De Meerendre, M. & Huybrechts, P.
1/11/22 → 31/10/27

FOD33: Stikstof-oxide en stikstofcyclus in de Antarctisch met Zeeijs bedekte zone OCeANIC
Elskens, M., Dehairs, F. & Dehairs, F.
1/10/16 → 30/09/20

SRP2: Strategic Research Programme: Tracing and Modelling of Past & Present Global Changes
Claeys, P., Elskens, M., Huybrechts, P., Gao, Y., Kervyn De Meerendre, M., Claeys, P., Baeyens, W. & Dehairs, F.
1/11/12 → 31/10/24

FVO46: Studie van de eventuele migratierisico's van materialen die in contact komen met levensmiddelen voor kinderen jonger dan 3 jaar (ALTPOLYCARB)
Elskens, M., Van Langenhove, K. & Vandermarken, T.
1/11/12 → 31/10/15

FOD78: Terbeschikking stelling van expertise en infrastructuur in kader van doctoraal onderzoek :“Migratie van minerale olie uit kartonnen verpakkingen voor levensmiddelen : identificatie van de gevaren en evaluatie van de blootstelling van de Belgische bevolking.
Elskens, M.
1/10/18 → 30/09/19

ANI66: Test project BIOMONITORING in the framework of the program Research and Development for the Integrated Storage project cat. A
Elskens, M. & Leermakers, M.
18/03/10 → 17/03/13

FWOAL623: The biological carbon pump and role of diazotrophs in open ocean carbon export
Dehairs, F. & Elskens, M.
1/01/12 → 31/12/15

OZR1832: Trace metal speciation in aquatic systems through voltammetric techniques.
Elskens, M.
1/01/09 → 31/12/09

EU601: triboREMEDY: The triboreactor as breakthrough remediation strategy for safeguarding human and environmental health.
Elskens, M.
European Commission
1/03/19 → 31/05/23

OZR3416: triboREMEDY: The triboreactor as breakthrough remediation strategy for safeguarding human and environmental health (OZR EU Bonus)
Elskens, M.

1/03/19 → 28/02/23

Student theses

OPTIMISING THE USE OF SYNTHETIC ION EXCHANGE RESIN TO EXTRACT GOLD FROM WASTEWATER TREATMENT PLANT RESIDUES

Author: Liu, J., Brion, N., Jia, Y. & Elskens, M., 2024

Supervisor: Brion, N. (Promotor), Jia, Y. (Advisor) & Elskens, M. (Promotor)

Testing and optimizing methods for the sampling and determination of microplastics in Brussels waterways

Author: Van Campenhout, K., Brion, N. & Elskens, M., 2023

Supervisor: Brion, N. (Promotor) & Elskens, M. (Promotor)

Predicting global and local reactivity descriptors, the neural network approach

Author: Jacobs, M., De Vleeschouwer, F., Vermeersch, L., Geerlings, P. & Elskens, M., Sep 2022

Guiding Brussels toward the circular city of tomorrow: groundwork for a green and sustainable gold recovery approach on urban wastewater through biosorption

Author: Dervishi, M., Elskens, M., Brion, N. & Nicolay, X., 2022

Supervisor: Elskens, M. (Promotor), Brion, N. (Co-promotor) & Nicolay, X. (External person) (Advisor)

Development of an environmentally friendly and low-cost leaching procedure for the recovery of gold in sewage sludge

Author: El Yazidi, S., Elskens, M. & Brion, N., 2021

Supervisor: Elskens, M. (Promotor) & Brion, N. (Promotor)

Metal recovery for Brussels-North (Aquiris) wastewater treatment plant

Author: Kapongo, D. F., Brion, N. & Elskens, M., 2021

Supervisor: Brion, N. (Co-promotor) & Elskens, M. (Promotor)

Patterns and dynamics of microplastics in the Zenne River upstream and downstream Brussels, Belgium

Author: Kazalyiev, M., Brion, N. & Elskens, M., 2021

Supervisor: Brion, N. (Promotor) & Elskens, M. (Promotor)

Chemical and toxicological assessment of e-cigarette liquids.

Author: Barhdadi, S., Vanhaecke, T., Rogiers, V., Eric, D., Visser, W., Covaci, A., Van Eeckhaut, A., Elskens, M. & De Paepe, K., 29 Sep 2020

Supervisor: Vanhaecke, T. (Promotor), Rogiers, V. (Promotor), Deconinck, E. (External person) (Promotor), Visser, W. (External person) (Jury), Covaci, A. (External person) (Jury), Van Eeckhaut, A. (Jury), Elskens, M. (Jury) & De Paepe, K. (Jury)

Quantification and identification of microplastics in the Zenne river upstream and downstream from Brussels, Belgium

Author: Knops, L. A. L., Elskens, M. & Brion, N., 2020

Supervisor: Elskens, M. (Promotor) & Brion, N. (Co-promotor)

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Author: Du, H., Van Langenhove, K., Elskens, M. & Gao, Y., 2018

Supervisor: Van Langenhove, K. (Promotor) & Gao, Y. (Promotor)

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Author: Debebe, S. B., Van Langenhove, K. & Elskens, M., 2018

Supervisor: Elskens, M. (Promotor) & Van Langenhove, K. (Advisor)

Modulation de l'activité transcriptionnelle de récepteurs nucléaires par des produits de migration de matériaux en plastique destinés aux jeunes enfants.

Author: Simon, C., Bourguignon, J., Brion, F., Elskens, M., Muller, M., Parent, A., Robbens, J., Charlier, C., Demaegdt, H. & Scippo, M., 17 Jan 2017

Degradation of estrogenic endocrine disruptors by laccases: from estrogenicity monitoring methods to reactor design

Author: Blavier, J., Debaste, F. & Elskens, M., 5 Dec 2016

A little matters. eEDC activity, sources and loadings in the Zenne River, Brussels.

Author: Swartz, E., Elskens, M., Eisenreich, S. J., Brion, N. & Van Langenhove, K., 1 Sep 2016

Supervisor: Elskens, M. (Promotor), Eisenreich, S. (Co-promotor), Brion, N. (Advisor) & Van Langenhove, K. (Advisor)

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Author: Genáhl, D., Van Griensven, A., Elskens, M., Van Langenhove, K., Bauwens, W., Eisenreich, S. J. & Lubbad, I., 1 Sep 2016

Supervisor: Van Langenhove, K. (Advisor)

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Author: Boonen, I., Elskens, M., Croes, K., Vandermarken, T., Van Langenhove, K. & Leyns, L., 1 Jul 2016

Supervisor: Vandermarken, T. (Advisor), Croes, K. (Co-promotor), Elskens, M. (Promotor), Van Langenhove, K. (Jury) & Leyns, L. (Jury)

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Supervisor: Vandermarken, T. (Advisor), Elskens, M. (Promotor), Van Langenhove, K. (Jury) & Ballet, S. (Jury)

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Author: Skara, G., Elskens, M., De Proft, F. & Geerlings, P., Mar 2016

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Author: Kucharska, A., Covaci, A. & Elskens, M., 2016

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Author: Ivanovsky, A., Elskens, M. & Billon, G., 2016

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Author: Meert, S., Gao, Y., Van Langenhove, K., Elskens, M., Leermakers, M. & Vandermarken, T., 11 Sep 2015

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Author: Van Rampelbergh, M., Claeys, P., Keppens, E., Elskens, M., Huybrechts, P., Dehairs, F., Vonhof, H. & Fagel, N., 7 Nov 2014

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Author: Fiengo Perez, F., Bauwens, W., Elskens, M. & Sweeck, L., 17 Sep 2014

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Author: El-Osmani, R., Elskens, M. & Ouddane, B., 2014

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Supervisor: Elskens, M. (Promotor), Denison, M. S. (External person) (Promotor), Van Langenhove, K. (Co-promotor) & Vandermarken, T. (Advisor)

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Author: Mihale, M., Mihale, M., Baeyens, W., Tungaraza, C., Elskens, M., Leermakers, M. & Van Langenhove, K., Mar 2013

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Author: Punzal, C. J., Bauwens, W. & Elskens, M., 2013

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Supervisor: Elskens, M. (Promotor), Leermakers, M. (Co-promotor) & Le Xuan, X. (Jury)

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Supervisor: Elskens, M. (Promotor), Baeyens, W. (Promotor) & Croes, K. (Advisor)

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Author: Tran, Q. B., Dehairs, F., Brion, N., Koedam, N., Elskens, M., Laus, G., Bouillon, S., De Brabandere, L. & Chou, L., 2008
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