



FIRST ANNOUNCEMENT 6 – 10 JULY, 2020 NARBONNE, FRANCE

LEADING EDGE SUMMER COURSE THIRD EDITION

MANAGEMENT OF MICROPOLLUTANTS IN THE URBAN WATER CYCLE

ORGANIZED BY:

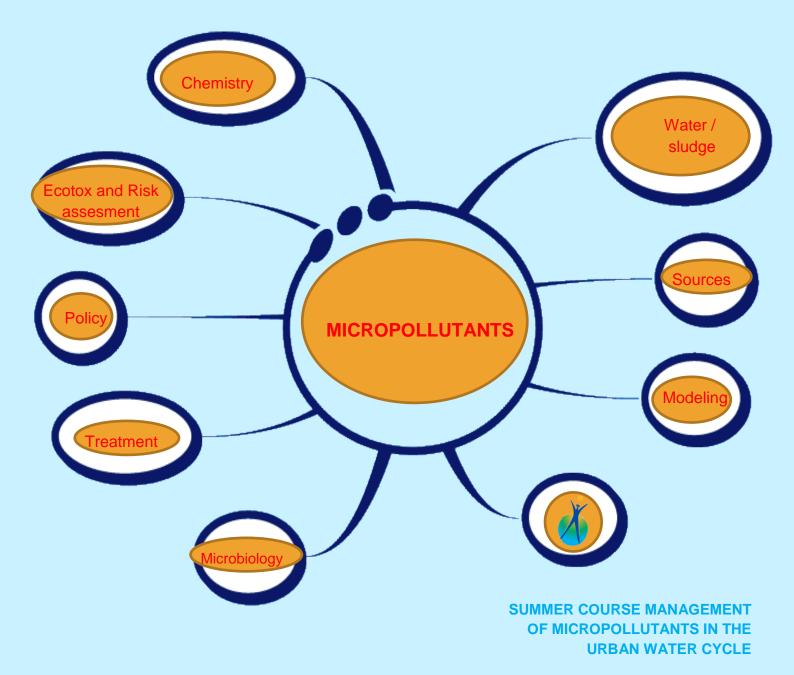


SUPPORTED BY:



This short, intensive and highly specialized course is focused on priority and emerging micropollutants in wastewater (including sludge) and wastes systems (including biowastes, green wastes, manures...). Aspects related to sources, analysis, occurrence and fate in water and wastes, treatment technologies (process, microbiology) and ecotoxicological impact of micropollutants will be tackled. Students will be able to (i) identify the bottlenecks in the micropollutant management and where future researches are needed and (ii) propose emerging technological solutions knowing advantage/disadvantage and select the best option according to their own context.

This 3rd edition will focus on (i) life cycle assessment (LCA) approaches to assess the risks of contaminants release, (ii) predictive modeling of the fate of contaminants and pathways of transformation, (iii) new non-targeted chemical analysis methods and their contribution to risk assessment, (iv) the paradigm shifts in the plant of the future no longer designed to treat but to reuse wastewater, enhance energy and recover nutrients.







Types of activities during the course include:

- Lectures given by senior researchers and guests speakers
- Group exercises
- Presentation of the participant's research topics and discussion with senior researchers
- Lab-visit and technical visit to WWTP
- Social event

Schedule

| July 2020 | Monday, 6 th | Tuesday, 7 th | Wednesday, 8 th | Thursday, 9 th | Friday, 10 th |
|----------------|---|---|---------------------------------------|---------------------------|--|
| 08h30 10h00 | Welcome & round table | Fate of chemicals | Modelling | Toxicity | Exercises (group presentation) |
| | Break | Break | Break | Break | Break |
| 10h30 12h00 | Polishing Treatment (<i>water</i>) | Fate of chemicals (exercise) | Life cycle assessment | Exercises (group) | Summary, course evaluation and closure |
| | lunch break | lunch break | lunch break | lunch break | |
| 13h30 15h00 | Sludge/soil | Source separation & recovery | Non-target analysis | | |
| | Break | Break | break | Technical visit | |
| 16h00 17h30 | Flash presentations by / participants | Flash presentations by / participants | Flash presentations by / participants | | |
| 19h00 | - | Town visit | Farewell diner | - | |

The course will be in English. It is oriented to PhD students who wants achieve a higher degree of specialization in this field, but also to other students or professionals specifically interested in these topics and with a limited amount of time.

Speakers: Marta CARBALLA (SP), Benedek PLOSZ (UK), Yolaine BESSIÈRE (F), Philippe ROUX (F), Laure WIEST / Emmanuelle.VULLIET (F), Dominique PATUREAU (F), J-Marc CHOUBERT (F). 1 other speaker is to be confirmed.

Maximum number of participants: 20

Total hours: 27 (theoretical and practicum). This will be confirmed by a certificate of participation, but it will not have ECTS equivalents.

Fees (depending on support of sponsors): ~300 € including VAT



APPLICATION FOR REGISTRATION

In the **section "SUBMIT"** of the website <u>https://workshop.inrae.fr/lesc-muwc/</u>, **upload** a file including:

- a cover letter with a statement of interest of up to 1-page
- a CV including a list of publications or conference presentations
- a 1-page description of your research topic

Selection of participants will be carried out by organizers, according to the CV, the letter of interest, the research topic, and gender / country balances.





- Guided tour through the historical part of Narbonne, 7th July 2018, 7:00pm-8:00pm
- Farewell dinner, 8th July 2018, 7:00pm
- Technical tour, 9th July 2018, 3:00pm-5:00pm





- The organizing strongly suggests booking accommodation in the recommended hostel. It is a renewed facility, located in Narbonne center. Budget is about 80 €/night for double room.
- Narbonne can be reached by train or by airport (from Montpellier).

PRACTICAL INFORMATION

<u>Venue</u>: LBE, avenue des étangs, 11100 Narbonne, France, <u>https://www6.montpellier.inra.fr/narbonne_eng/</u> <u>Weather</u>: <u>http://www.weatheravenue.com/en/europe/fr/languedoc-roussillon/narbonne-weather.html</u> <u>Tourist office</u>: <u>https://www.narbonne-tourisme.com/</u> Public transport: https://www.citibus.fr/



- February 1st, 2020: Opening application for participation. *Details in section "application for registration"*
- April, 1st, 2020: Submission of applications (closure)
- May, 15th, 2020: Selection and announcement of participants



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