



GUIDELINES TO WRITE AND SUBMIT YOUR EXTENDED ABSTRACT

EXTENSION OF THE TIME LIMIT

Extended abstract submission: 17 December 2018

Selection notification: 1 March 2019

A question? Please contact novatech@graie.org

HOW TO SUBMIT YOUR EXTENDED ABSTRACT

To submit your contribution, please use the [SciencesConf online system](#):

[SUBMIT ONLINE](#)

Guidelines to fill in the online form:

STEP 1 - "METADATA"

- Title: enter the title of your extended abstract in the language used in your paper (English or French).
- Abstract: 10 lines maximum.
- Type: specify if you wish to present orally, only a poster, or a candidacy to the Novatech Awards (meaning also an oral presentation).
- Topic: select the theme that matches your proposal. Themes A, B and C are to be selected only for Novatech Awards candidacies.
- Language of text: select the writing language of your text (English or French).
- Keywords: 5 keywords maximum.
- Comment: feel free to enter any comment (optional).

STEP 2 - "AUTHOR(S)" - Warning: if your proposal includes co-authors please add their names and contact information by clicking on "Add an author".

STEP 3 - "FILE(S)" - Click on "Choose file" to select the file of your extended abstracts, in Word format. It must comply with the compulsory [Novatech template](#) and the **guidelines** below. Then click on "Upload" and "Next step".
Please do not upload any file in the "Supplementary data" part as they won't be taken into account.

STEP 4 - "OVERVIEW" - Once the form is filled in, click on "Submit".

GUIDELINES – EXTENDED ABSTRACT

We kindly ask the authors to provide their article in electronic format as a **Word-processed file**.

You are asked to strictly follow the instructions detailed below. To facilitate your work, you should use the [Novatech template](#) (Word document) detailing all the styles you need to use.

The definitive format of the proceedings will be an A4 format - 21 cm x 29.7 cm.

If you follow these recommendations, your document will be published as received in its Word format (except for the pagination).

A WORD-PROCESSED FILE

The document format:

Your Word-processed file, including illustrations, must be compatible with Word 2007 or any newer version of Word.

File name:

Please name your file with the name of the **corresponding author**.

Illustrations, figures and tables:

- Illustrations should not be produced within the text (use Power Point, Illustrator, Excel, etc.); do not create illustrations directly using MS Word as it is not stable.
- Any object coming from a specific application software should be transformed into an image format before importation to the Word-processed file; you should check the weight of the images and possibly reduce them to an adapted size and quality.
- Importation of illustrations into the main document: please make sure that all figures and tables fit inside the specified text area. Legends must be written exclusively in the text file.
- We recommend that you test the Acrobat file conversion and check your illustrations, figures and special characters. If we encounter problems with the illustrations of your document, we will ask you to send us an updated version.

DETAILED INSTRUCTIONS

Please use the [Novatech template](#).

1 - Document layout

a - Number of pages:

Your extended abstract must be **2 to 4 pages long** maximum.

b - Page one will contain:

- The English title of the paper, size 14 bold, lowercase
- The French translation of the title, size 14, lowercase
- Name of the author(s), size 12, lowercase
- Author(s)' affiliation(s) and full postal address, size 10, lowercase
- **RÉSUMÉ**: a French abstract (10 lines), please ask for professional translation if needed
- **ABSTRACT**: an English summary (10 lines),
- **KEYWORDS**: 5 maximum, in alphabetical order.

All the above must fit on one page. The introduction should begin on the second page.

c - The following pages will contain the text of your paper, as well as illustrations, figures, tables and the list of references.

2 - Format of the document

- a - Margins** are the following (with reference to an A4 sheet: 210 x 297 mm): Right and left margins: 2.5 cm | Top and bottom margins: 2.5 cm | The area for typing is: 17 cm x 24.7 cm
- b - Text** should be typed using automatic line spacing, an Arial 10 pt justified typeface, with a 6 pt space for paragraphs. Do not add any "comment" into the text.
- c - Use decimal notation for subheadings** 1. 1.1. 1.1.1.

LEVEL 1.: SIZE 12 UPPERCASE BOLD, space before 10 pt, typed flush left

Level 1.1.: size 12 bold, space before 6 pts, typed flush left

Level 1.1.1.: size 10 italics bold, space before 6 pts, typed flush left

Legends for figures and illustrations: under the object, centred, size 9; Legends for tables: above the object, centred, size 9; Legends must be written in the text, please do not add them directly to the figures.

List of references: Arial 9 – indented paragraph: - 0,5 cm – space before 3 pt.

d - References should be listed at the end of the paper, in alphabetical order of authors.

The normal form of listed references is as follow:

- Abell, B.C., Tagg, R.C. and Push, M. (1974). Enzyme catalyzed cellular transaminations. In: *Advances in Enzymology*, A.F. Round (Ed.), Vol.2, 3rd ed. Academic Press, New York, 125-247.
- Grady, C.P.L. and Lim, H. (1980). *Biological Wastewater Treatment: Theory and Application*. Marcel Dekker, New York.
- Lee, S.E., Jenkin, D., Koopman, B.L. and Lewis, R. (1982). The effect of aeration basin configuration on activated sludge bulking at low organic loading. *Wat. Sci. & Tech.*, 14(6/7), 407-427.

3 - Structure

Avoid being too general in your text and focus on the theme chosen for your paper.

The general framework of the paper will be as follow:

- Introduction: background and aims of the work
- Methods: a brief description of the methods / techniques used
- Results and discussion: a clear presentation of the results obtained, highlighting any trends or points of interest.
- Conclusion: a brief explanation of the significance and implications of the work reported.
- A list of bibliographical references.

For a Novatech Awards application, your extended abstract must help the jury understand how and/or why the presented case study fits the selection criteria, i.e.:

- Integration of stormwater management in the project and connection with the Novatech themes
- Innovation
- Transferability and potential to provide lessons for broader application
- Clarity of the proposal



Download the Awards rules (*link available soon*)

PROCEEDINGS

The proceedings will be published in three formats:

1. A printed version of the French/English summaries – i.e. first page only – will be given to the attendees during the Novatech 2019 conference.
2. The whole proceedings will be available on the Novatech website a few days before the conference.
3. The online publication of the Novatech proceedings, on the website of the INIST* - French Institute for Scientific and Technical Information - on its numerical platform for the edition of scientific reviews. Each extended abstract will be given an individual reference (DOI - DIGITAL Object Identifier). The proceedings of the Novatech 2007, 2010, 2013 and 2016 conferences can be found at: <http://irevues.inist.fr/novatech>.

* *subject to confirmation – agreement in progress*

Integrated control of sewer and WWTP based on the assessment of treatment capacity

Gestion intégrée du réseau et de la station d'épuration basée sur l'évaluation de la capacité d'épuration

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RÉSUMÉ

Un pré-requis pour une gestion intégrée du réseau d'assainissement et de la station d'épuration est une commande du débit à l'entrée de la station d'épuration en fonction de sa capacité. Cela nécessite des informations fiables sur l'état actuel de la station d'épuration et sa réaction aux variations hydrauliques, aux variations de charges en COD et en substances nutritives. Actuellement, la plupart des stratégies de commande qui sont proposées sont fondées sur des études de modèles hypothétiques. Dans cette communication, la réaction de trois grosses stations d'épuration soumises à des charges élevées par temps de pluie est analysée, en se fondant sur les valeurs mesurées en ligne sur une période de plusieurs années. Dans les trois cas, les principaux facteurs limitant l'augmentation de la charge ont été les procédés de la décantation dans le clarificateur secondaire et la capacité de nitrification. Dans l'une des études de cas, des stratégies de contrôle prédictif ont été développées en observant ces procédés qui sont pilotés par le contrôle des effluents. Des tests avec un modèle intégré du réseau et de la station d'épuration montrent que l'efficacité d'une commande du débit sur les flux rejetés varie de manière significative avec l'intensité de la pluie.

ABSTRACT

A prerequisite for an integrated control of sewer and wastewater treatment plant (WWTP) is a capacity driven inflow control to WWTP. This requires reliable information about the current status of WWTP operation and its behaviour on varying hydraulic, COD and nutrient loads. So far most of the proposed control strategies are based on hypothetical modelling studies. In this paper the behaviour of three large WWTPs on increased storm water loads is analysed based on online measurements of several years. In all cases the main limiting factors for an increase of load were the sedimentation processes in the secondary clarifier and the nitrification capacity. In one case study predictive control strategies have been developed observing these processes which are backboned by effluent control. Test using an integrated model of sewer and WWTP demonstrate that efficiency of inflow control on emission load varies significantly with rain intensity.

KEYWORDS

Integrated control, stormwater, treatment capacity, urban drainage systems, waste water treatment plant