



96th ASTEE annual conference

June 6 to 9, 2017
The Théâtre de Liège, Belgium



PROGRAM

*Regions and the EU,
working together to foster environmental transition*

Our children's future is being shaped now.

Our decisions will have social, economic and environmental consequences on their future. It may be possible to correct the first two kinds of effects, but it's much harder to reverse those concerning the environment. For obvious reasons of consistency, cohesion and non-discrimination, the 28 member states handed over this crucial competence to the European Union.

Our conference, with its program offering many diverse, shared experiences, aims to bring together ASTEE's French experts and their European colleagues to review the progress that has been made, and to discuss obstacles and perspectives.

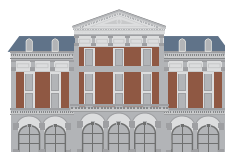
For the first time in ten years, ASTEE has decided to cross borders for this year's conference. We chose Wallonia for its central position in Europe, at the heart of the international river basin of the Meuse. The city of Liège will welcome you with the warm and festive spirit its inhabitants are known for.

*Jean-Michel Compère, Chairman of the conference program committee
and Christophe Perrod, ASTEE Chairman*

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ASTEE Conference

If you are:

- a locally elected official
- an engineer or a technician working for local authorities
- an environment professional
- a member of the research community
- a student or a young professional...

*...come and catch up,
exchange views, share and
capitalize on this event!*

The City of Liège



The City of Liège is aware of how important it is to follow a logic of sustainability, of energy efficiency and climate resilience in planning its territorial development, that's why it has made this a priority of its City Project.

In late 2015, Liège signed the Covenant of Mayors on energy and climate, which aims to draw up and implement an integrated action plan for 2030 for emission reduction and adaptation to climate change.

Water is an integral part of this approach, being so present in forecast scenarios of extended droughts and intense rainfall.

At the request of the Walloon region, Liège is a pilot city for the development of a tool to help formulate plans to re-

duce the vulnerability of local territories; these plans involve major actors such as inter-municipal water treatment agencies.

At the European level, Liège takes part in two INTERREG projects whose goal is to ensure "energy and climate" issues are taken into account at the level of neighborhoods and condominiums.

At the international level, the city has partnered with the City of Lubumbashi (DR Congo) as part of the new Covenant of Mayors for Sub-Saharan Africa and, along with the AIMF (International Association of French-speaking Mayors), participates in the support for African cities involved in this process.

The City of Liège, which thus shares this desire to "work together to foster environmental transitions" is particularly proud to host on its territory the ASTEE 96th Annual Conference.



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Our partners



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Program committee

The following program committee selected the papers and organized the sessions for this conference:

Président :

Jean-Michel Compère, Aquawal - CILE

Membres :

Jean Baron, Eau de Paris, Chairman of the Corrosion and Network Protection Commission*

Séverine Dinghem, Veolia Eau France, Chairwoman of the Drinking Water Commission*

Philippe Dupont, French Agency for Biodiversity, Chairman of the Water Resources and Aquatic Environments Commission*

Christine Gandouin, Suez Environnement Consulting, Chairwoman of the Water Sanitation Commission*

Pierre Hirtzberger, Syctom, Vice-Chairman*

Philippe Marest, Nantes Métropole, Vice-Chairman*

Carine Morin-Batut, Executive Director*

Gérard Payen, Vice-Chairman*

Bruno Pellerin, Rhin-Meuse Water Agency, Chairman of the Grand Est local chapter*

Christophe Perrod, Sedif, Chairman*

Dominique Pin, C2P

Marie-Noëlle Pons, CNRS-University of Lorraine, Chairwoman of the Research Committee*

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Frédéric Roux, Syctom, Chairman of the Waste Treatment Commission*

Pascal Soukatchoff, Saint Gobain PAM, Treasurer*

Jacques Tcheng, FNCCR, Secretary*

Jean Philippe Torterotot, MEEM, Vice-Chairman*

* from ASTEE

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TSM will help you stay up to date on subjects
related to water and the environment:

- Sustainable spatial planning
- Sanitation
- Drinking water
- Urban cleaning and waste management
- Air quality
- Water resources and aquatic environments

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for free on
gallica.bnf.fr*

TSM also offers:

- Reporting
- Studies
- State of the art
- Interviews of experts in each domain
- News from our local chapters



13:30-14:00: Arrival
of participants

14:00-16:00 [In parallel]

Session 1 ACHIEVING GOOD STATUS: PROCESSING MICROPOLLUTANTS

*Chaired by Christine Gandouin,
Chairwoman of the ASTEE Sanitation
Commission*

- An innovative approach to eliminate emerging pollutants: the synergy between ozonation and biological treatment
- Applying ecological engineering to discharge areas with vegetation, eliminating micropollutants, biodiversity and social and territorial integration

Adriana Gonzalez Ospina, Suez International

- Treating or replacing: an economic analysis of long-term management strategies for urban micropollutants

Jean-Marc Brignon, INERIS

- Chemical performance indicators for the treatment of micropollutants by tertiary ozonation as applied at the water treatment plant in Sophia-Antipolis

Ywann Penru, Suez Groupe

Session 2 REDUCING PRESSURE ON RESOURCES

*Chaired by Bénédicte Augeard,
French Agency for Biodiversity*

- Assessing the effects of a strategy to reduce water losses: a quantitative assessment of water intakes and discharges in a drinking-water supply system

Eddy Renaud, IRSTEA

- The MAC Eau project: applying and assessing water-saving measures on different scales, responding to the targets set out in the WFD and adapting to climate change

Alain Renard, Gironde Department

- Sound resource management and production of drinking water

Sébastien Kech, VeRI

- An example of an industrial site integrated in its environment: managing wastewater at the Hesbaye Frost factory in Geer

*Arnaud Crevits, Hesbaye Frost and
Alain Magis, CMI Development Group*



16:30-18:00

OPENING OF THE CONFERENCE

Moderated by David Ascher, Publication Manager, Actu-Environnement.com

Place: Academic room - University of Liège (opposite the theater)

In the presence of

- *Willy Demeyer, Mayor of Liège*
- *Carlo Di Antonio, Walloon Minister for the Environnement*
- *Eric Haubruge, First Rector of the University of Liège*
- *Christophe Perrod, ASTEE Chairman*

Roundtable

Straight from the regions: testimonials about their actions in favor of environmental transitions

- *Paul Dewil, Chairman of the International Meuse Commission*
- *Jean-Luc Martin, Chairman of the Public Water Management Company's executive committee*
- *Denis Penouel, Deputy Director General of SIAAP*



18:30-20:00
WELCOME COCKTAIL
AT LIÈGE
CITY HALL

LIMITED PLACES


Liège



© Ville de Liège

20:00

Visit

Liège's local architecture: influences and evolution over time

Led by Jacques Teller, University of Liège



Let yourself be carried by architectural and urban stories!

The city of Liège grew at the bottom of the valley where the Meuse and Ourthe rivers meander and flow together. This configuration was fundamentally altered in the 19th and early 20th centuries, when an engineer named Blondin implemented a Haussmann-style form of urban planning which implied reconfiguring rivers.

9:00-10:30 [In parallel]

Session 3 ASSESSING ENVIRONMENTS: MICROPOLLUTANTS

Chaired by Philippe Janneteau, SIAAP

- Perchlorate ion contamination in the eastern part of the Beauce aquifer : sources of the pollution, management of the resource and comparison with other polluted areas

Frédéric Barrez, Eau de Paris

- How different types of pollution have evolved in the Meuse and what it means for the production of drinking water

Eric Chauveheid, Vivaqua, André Bannink, RIWA-Meuse and Tineke Slootweg and Het Waterlaboratorium

- Assessing micropollutant pollution on a metropolitan scale: sources, impact and levers for action

Marion-Justine Capdeville, LyRE-Suez

Roundtable Water scarcity in unexpected places!

Moderated by Arnould Lefébure, International Escaut Commission

- Daniel Bernard, Seine Nord Canal - VNF
- Pierre Roussel, OIEAU
- Pascal Goderniaux, Mons University
- Koen Maeghe, Vlaamse Waterweg
- Marc Parmentier, BRGM
- Dominique Poissonnier, Météo France



11:00-12:00 [In parallel]

Session 4 GOOD ECOLOGICAL STATUS: RESTORING WATERWAYS

Chaired by Gilles Warot, Vice-Chairman of ASTEE's Water Resources and Aquatic Environments Commission

- France's national center for the restoration of rivers

Josée Peress, French Agency for Biodiversity

- Forming a network of demonstration sites for the restoration of waterways: moving towards the common production of monitoring data for knowledge and action

Pierre Mangeot, Rhin-Meuse Water Utility and Anne Vivier, French Agency for Biodiversity

Session 5 SOCIAL TARIFF PRACTICES IN WALLONIA AND IN FRANCE

Chaired by Sophie Maïboroda, Sedif

- Current situation of the pricing structure of drinking water and sanitation services in France and evolution since the 2006 law on water and aquatic environments

Marielle Montginoul, IRSTEA

- The consequences of a progressive water pricing structure in a context of decreasing consumption and urban sprawl: the Walloon case

Cédric Prevedello, SA AQUAWAL and Bernard Barraqué, CIRED-CNRS

12:00-14:00
Lunch

Sponsored by



14:00-16:00 [In parallel]

Session 6 MONITORING THE QUALITY OF WATER BODIES

Chaired by Pascal Duchêne, Rhin-Meuse Water Agency

- Using *Macrobrachium* spp. as sentinel organisms to monitor the quality of surface water in Martinique

Fanny Caupos, Asconit Consultants

- Presentation of the results of analytical monitoring and computer simulations of the microbiological quality of the Seine in the Paris area

Jean Bernier, SIAAP

- Mobilizing high-frequency physical and chemical data to characterize the state of a water body

Thierry Polard, LyRE-Suez

- Risk management of "cyanobacteria": example of the buoy of the Jaunay (85) dam

Frédérique Nakache-Danglot, Saur

Workshop 1 IMPLEMENTING SUSTAINABLE DEVELOPMENT GOALS (SDGs): HOW MUCH PROGRESS HAS BEEN MADE?

Find the detailed program on page 12.

Side-event MICROPOLLUTANTS AND BIOMONITORING: THE SEINE, THE ESCAUT AND THE EXAMPLE OF THE DIADeM PROJECT ON THE MEUSE

Find the detailed program on page 12.

16:00-16:30

SPEED-POSTER 1

(list page 13)

1 minute to convince you: which innovative project will catch your attention ?



17:00-18:00 [In parallel]

Session 7 GREENHOUSE GAS EMISSIONS

Chaired by Edouard Fourdrin, Ademe

- Shared good practices to assess greenhouse gas emissions in the field of water and sanitation

ASTEE "Quantifying greenhouse gas emissions and carbon footprint™" working group

- Results of in situ measurement campaigns for nitrous oxide emissions from different wastewater treatment systems

Sylvie Gillot, IRSTEA

Session 8 MATERIALS AND WATER QUALITY

Chaired by Séverine Dinghem, Chairwoman of the ASTEE's Drinking Water Commission

- An experimental study of transfer factors for VCM from PVC pipes into water

Joël Rivallan, ASTEE Western chapter: Brittany, Pays de la Loire

- Ongoing work and European perspectives on materials that come into contact with water intended for human consumption

Philippe Vasyngel, French Ministry for Public Health, and Jean Baron, Eau de Paris

14:00-16:00

Workshop 1 IMPLEMENTING SUSTAINABLE DEVELOPMENT GOALS (SDGs): HOW MUCH PROGRESS HAS BEEN MADE?

*Introduction by Gérard Payen, former
Advisor to the UN Secretary-General*

France

➤ The Agenda France 2030

Philippe Senna, Commissariat General for Sustainable Development, Ministry of the Environment, Energy and the Sea, France

➤ The ASTEE's work on the actions to be carried out in France to achieve the SDGs targets relating to:

- to Water and Sanitation
- Gérard Payen, Vice-Chairman*
- to Waste

Gérard Payen, Vice-Chairman of ASTEE

*Dominique Pin, Waste and Cleanliness
Commission of ASTEE*

➤ Successful SDGs: the actions of a French territorial community

Denis Guilbert, Nantes Métropole

International

➤ The actions carried out in Wallonia to achieve the SDGs targets related to Water, Sanitation and Waste

Michel Amand, Wallonia Public Service

- First tests of reporting of water indicators in a European country organized by UN-Water: the example of the Netherlands in 2016

*A representative of the Ministry of Infrastructure and Environment of the Netherlands**

**Conclusion by Jean Launay, Chairman
of the PFE (French Water Partnership)**

14:00-18:00

Side-event MICROPOLLUTANTS AND BIOMONITORING: THE SEINE, THE ESCAUT AND THE EXAMPLE OF THE DIADeM PROJECT ON THE MEUSE



Organized by

➤ Opening

Morgane Pitel, Chairwoman of the Territorial Public Building of the Meuse Basin and Brice Lalonde, Chairman of the Water Academy

- **Micropollutants: large families, effects and monitoring tools, regulations**

Pierre Roussel, OIEAU

➤ The cross-border project DIADeM: development of an integrated approach for the diagnosis of water quality in the Meuse

Alain Geffard and Marc Bonnard, DIADeM,
SEBIO; Rémy Beaudouin, Ineris, METO;

Robert Christelle, CER Group

➤ Micropollutants on the Escaut Basin

Isabelle Saunier, work group RHME,
International Scheldt Commission

➤ Seine basin: impregnation in historical and emerging micropollutants of a highly urbanized watershed

Johnny Gasperi, ARCEAU IdF, LEESU

Roundtable Exchange of experience and perspectives

Moderated by Jean-Marie Wauthier, Water Academy

Arnould Lefébure, International Escaut Commission; Jean-Louis Oliver, Water Academy; Pascal Duchêne, Rhin-Meuse Water Agency and François Darchambeau, International Meuse Commission

➤ Conclusion



19:00 - Gala evening
in Hotel Bocholtz.

The ASTEE Award will be awarded.



Offered by



* to be confirmed



Micropollutants

- In situ biotests to detect the presence of bioavailable micropollutants and toxic impact of aquatic environments

Guillaume Jubeaux, BIOMAE

Quantitative management

- Spatial optimization of water withdrawals for irrigation to reduce negative effects on the environment

Séverine Charrière, Agrosolutions

- From project to reality: recovering wash water from biological denitrification in a water treatment plant

Marc Gerlache, CILE

Good status

- Integrated management of the Parisian RA / STEP / Rivière sanitation system: issues of metrology and treatment of measured data

Sabrina Guérin, SIAAP

- A multi-stakeholder strategy to manage industrial wastewater discharges impacting a vulnerable water body and assessment of the efficiency of measures made using biotests

Yves Marneffe, ISSeP

Customer satisfaction

- Effect of water softening for users and the environment: the case of the Presqu'île de Gennevilliers Water Authority,

Pierre Pieronne, Suez Eau France

- Purer water, free of calcium and chlorine

Anne-Laure Colon, Sedif

Social tariffs

- Towards social tariffs for water: the Sedif's Eau Solidaire scheme

Olivier Chesneau, Sedif

Asset management

- 3D modeling to increase reliability and decrease costs of self-monitoring: the examples of RUNG 186/187 in the Val-de-Marne department and Vichy Val d'Allier spillways

Mélessandre Oget, Val-de-Marne department, Marlène Chopin, Vichy Val d'Allier and Jonathan Wertel, 3D EAU

Wet-weather management: alternative solutions

- De-polluting efficiency of percolating water in road drainage structures: the "DPOP" and "DPODRAIN" research projects

Sylvie Smets, BRRC

- A new system for rainwater management: de-polluting inlets,

Christian Salic, Veolia

- Setting up an experimental observatory for alternative techniques in the greater Bordeaux Métropole

Anne-Cécile Michaud, LyRE-Suez

- Modular cement coatings for rainwater infiltration: technical reference framework, environmental performance and perspectives for digital modeling

Jennifer Faleyeux, CERIB

- Namur's low-pressure network: shallow sewers in a cluttered urban environment

Dimitri Kleykens, SPGE

Flood risk

- Water drainage around Liège: a story of water and men

Jean-Pierre Silan, A.I.D.E.

Data systems

- New Web Interoperability Services for Global Environmental Monitoring Data Management and Sharing

Franck Schlaeger, Kisters

TECHNICAL VISITS

LIMITED
PLACES



9:00-12:00

Visit 1 DRINKING WATER TREATMENT PLANT AND WATER CATCHMENT TUNNELS

Discover innovative processes for biological denitrification, to reduce the volume of pesticides and to recirculate wash water at the start of treatment. Then climb down into the network of catchment tunnels 30 meters below ground level (45 km).

⚠ Access requirements apply for the descent into the catchment tunnels. Anyone suffering from claustrophobia is strongly advised against this visit, which requires climbing up and down 3 near-vertical 10-meter-long metal ladders. Participants will be equipped with appropriate overclothes (including boots/waders); wear casual clothing.



14:00-18:00

Visit 2 EXPERIMENTAL WATER MANAGEMENT FACILITIES



Discover three laboratories at the University of Liège at Sart Tilman:

Engineering hydraulics laboratory, HECE

Physical and digital modeling
of hydraulic structures

A test area covering more than
1000 m²:

- Re-oxygenation of turbined waters downstream of a large dam,
- Spillways,
- Scouring downstream of a mobile dam,
- Vibration of thin slats
- Flood risk analysis,
- Modeling of distribution and sanitation networks
- Sizing of retention basins...



Cebedeau Water research and expertise center

Laboratory of tests and
analyses for the design and
development of new
biotechnologies for the
treatment of liquid and
gaseous effluents with a
particular focus on microbial
ecology.

Models of laboratories

- Granular sludge and biofilm processes,
- Incubators,
- Digesters...



Chemical engineering laboratory PEPs (Product Environment and Processes)

Hall of chemical engineering
of 1 000 m², equipped
with pilot units and
characterization tools

Treatment of sewage sludge:

- Conditioning and dehydration,
- Thermal drying
- Recovery of phosphorus...

Treatment of gaseous effluents

- Adsorption of volatile organic compounds on activated carbon,
- Capture and reuse of CO₂ (modeling, seaweed culture ...)

Intensification of processes

- Design and modeling,
- Dynamic simulation and optimization,
- Energy integration...



9:00-10:30 [In parallel]

Session 9 ECONOMIC ASPECTS OF ASSET MANAGEMENT

Chaired by Jean-Baptiste Butlen, Eau de Paris

- Financial strategy and cost analysis for drinking-water and sanitation networks asset management

Caty Werey, IRSTEA and ASTEE "Sanitation asset management-cost analysis" working group

- Saint-Gobain TCO: water network efficiency

Vincent Saal, Saint Gobain Construction Products Belgium nv

- Self-monitoring and asset management of sanitation networks. Feedback from the Seine-Normandie basin

René-Claude Fouilloux and Pauline Chabanel-Durrand, Seine-Normandie Water Agency

Session 10 METHANATION IN WALLONIA AND FRANCE

Chaired by Frédéric Roux, Chairman of the ASTEE's Waste Treatment Commission

- Methanation: vision for 2050 and research, development and innovation priorities

Erwan Autret, French Environnement and Energy Management Agency (ADEME)

- Biomethanation of household organic waste

Luc Joine, Intradel

- A concerted action for a collective methanisation project

Céline Veit, Adéan Pays d'Alsace du Nord

11:00-12:00 [In parallel]

Session 11 EUROPEAN FUNDING SCHEMES

Chaired by Marcus Agbekodo, Artois-Picardie Water Agency

- The EIB's expertise to fund projects in the water sector in the context of climate change in Europe

Marco Beros, European Investment Bank (EIB) and Alain Palmans, CILE

- Applying the economic analysis of water use as per the 2000/60/CE directive, by river basin district: the Walloon experience

Andréa Barbieri, SPGE and Cédric Prevedello, SA AQUAWAL

11:00-12:30

Workshop 2 REVISION OF BREFS Upcoming changes for facilities managers and how to prepare for them

Moderated by Hubert de Chefdebien, coordinator of the ASTEE "BREF" working group

- Context and legal framework

Johanna Flajolet-Millan, Syndicate for Renewable Energy

- An example: Large combustion plants BREF

Patrick Clerens, European Suppliers of Waste-to-Energy Technology

- Waste treatment BREF

Isabelle Conche, SYVED

- Waste incineration BREF

Maxime Pernal, Confederation of European Waste-to-Energy Plants

- A crucial point: performance characteristics of measurement instruments - Ineris study

Hubert de Chefdebien, ASTEE

12:00-12:30 SPEED-POSTER 2

(list page 17)

1 minute to convince you: which innovative project will catch your attention?



12:30-14:00 : Lunch

Sponsored by



14:00-14:30

Presentation of the ASTEE Award

14:30-16:00 [In parallel]

Session 12 PARTNERSHIPS

Chaired by Jean Philippe Torterotot, ASTEE Vice-Chairman

- **GISREAUx**: increased collaboration between Walloon public laboratories in the water sector

Christophe Fripiat, ISSeP

- Lessons learned from a partnership between the University and water agencies to manage the quality of surface water (WFD, ...)

Jean-François Delière, Aquapôle - ULg

- Cross-border work on hydrological hazards on the Meuse basin

Benjamin Dewals, University of Liège

Session 13 WATER SAFETY PLANS

Chaired by Jean-Michel Compère, CILE

- The Belgian authorities' view

Francis Delloye, Wallonia Public Service

- A collaborative perspective on the methodology of sanitation safety management plans in Belgium and its adaptation to France: the examples of Chartres Métropole

Patrick Peigner, Regional Health Agency (49), François Bordeaux, Chartres Métropole and Marc Ruelle, Société Wallonne des Eaux

- Managing risks associated with private facilities (after water meters) - setting up a "Home Water Passport"

Marc Gerlache, CILE

16:30-18:00 [In parallel]

Session 14 INTEGRATING ACTIONS INTO GEOGRAPHICAL FRAMEWORKS

Chaired by Denis Guilbert, Nantes Métropole

- Economic footprint: assessing the local and national economic impact of Sedif's investment plan in the Ile-de-France region

Olivier Chesneau, Sedif

- Sanitation 2030: shaping a strategic vision for sanitation in Bordeaux, a European Metropolis

Mathieu Ahyerre, Rémi Croizet et Nicolas Gendreau, Bordeaux Métropole

- Wallonia's regional master plan for drinking-water production. An ambitious agreement to increase synergy between the two major Walloon producers, CILE and the Société Wallonne des Eaux

Marc Closset, Société Wallonne des Eaux and Bernard Michaux, CILE

Session 15 NITROGEN POLLUTION

Chaired by Juan Ochoa, Veolia Eau

- Restoring water quality in the catchment of Arquennes: results after 12 years of actions and monitoring

Christophe Vandenberghe, Gembloux Agro-Bio Tech (University of Liège)

- Environmental issues linked to nitrite in the Paris area: origin and possible technical solutions

Vincent Rocher, SIAAP

- In Wallonia, association of the sectors of water and agriculture for the implementation of good practices. From consulting to a catchment contract: the case of Hesbaye near Liège

Nicolas Triolet, SPGE and Jacques Schlitz, CILE

18.30-20.00 SPEEDNETWORKING

If you are under 35 and:

- studying
- looking for a job
- already working...

... register, this event is organized specially for you! Receive advice from experts, expand your network and discuss your career plans.

Have you got at least ten years of experience in the environment sector?

We need you for this Speednetworking event! Share your experience, encourage and guide tomorrow's professionals.

LIMITED PLACES



Partnerships

- EMAS certification: a dynamic tool for sanitation assessment

Christian Didy, SPGE and Clémentine Prouteau, INASEP

Users at the center of services

- Sanitation plans per river sub-basin (PASH): much more than a spatial planning tool for sanitation

Hélène Lebeau, SPGE

- The Garonne's cross-border dimension, a driver of innovation for projects concerning lands near the Garonne: the example of the "European River Territories" project

Fabienne Sans, SMEAG

- Implementing a semi-automatic classification of water users: results and recommendations

Selda Bulbul, Veolia Eau

- A center of expertise in the water sector: lessons learned and considerations on relevant sectorial strategies

Pénélope Clotuche, FOREM

- Putting users back at the center of services

Armelle Bernard, Eau de Paris

- Drinking water: supporting behavior changes

Olivier Chesneau, Sedif

Effects of health activities on water quality

- Pharmaceutical residues and detergents in urban sludge: quality of end-of-pipe sludge and evolution within treatment systems

Johnny Gasperi, LEESU - Paris-Est University

- MEDIX: biological treatment of hospital wastewater

Alain Magis, CMI Développement Group

- Developing a method to monitor medicine residues in Walloon waters

Katherine Nott, Société Wallonne des Eaux - Laboratoire Central

- Multi-matrix screening of endocrine disrupters in Walloon waters

Christophe Fripiat, ISSeP

Diffuse pollution

- Methods to restore/preserve the quality of underground water near catchment areas threatened by nitrates in Wallonia

Marine Pommier, SPGE

- Suggesting a method based on contributing areas to assess the efficiency of catchment protection programs against diffuse pollution

Laetitia Chegard, Suez Consulting

Wastewater: metrology and processes

- An innovative method to characterize OM using 3D fluorescence spectroscopy: relevance for managing water treatment systems

Angélique Goffin, LEESU - Paris-Est University

- Using fuzzy logic to create statistical models of fouling in membrane bioreactors for wastewater treatment

Elodie Suard, IRSTEA

- Interface measurements to anticipate foaming in wastewater treatment plants

Manel Larachiche, University of Technology of Compiègne

- Diagnosing and finding solutions for the chronic problem of settling in a wastewater treatment plant

Laurence Gauthier, Suez Consulting

TECHNICAL VISITS

LIMITED
PLACES

9:00-12:30

Visit 3 DRAINAGE IN THE LIÈGE REGION, A STORY OF WATER AND MEN



Discover the protection system against indirect flooding (water drainage) which was made necessary by land subsidence caused by underground mining in the previous century.




14:30-18:00

Visit 4 BIOMETHANATION OF HOUSEHOLD ORGANIC WASTE IN AN URBAN ENVIRONMENT



You will begin the visit with the communication pavilion, which is at the heart of didactic and pedagogical teaching about the circular economy: tools, projects, results and what waste becomes. Then you will visit the Unité de Valorisation Énergétique (Uvélia), going behind the scenes at a waste incinerator that produces electricity (roughly the equivalent of the annual consumption of 55,000 households) in the middle of the city. You will then visit the site where a biogas plant is being built.

 Each participant will be provided with a hardhat and safety jacket; avoid wearing high heels.



8:30-10:30 [In parallel]

**Session 16 TOOLS TO BETTER
MANAGE DIFFUSE POLLUTION**

*Chaired by Philippe Dupont,
Chairman of ASTEE's Water Resources
and Aquatic Environments Commission*

- PollDiff'Eau 2016: lessons learned and levers for action

Philippe Dupont, Chairman of ASTEE's Water Resources and Aquatic Environments Commission

- Protecting water quality in drinking-water catchment areas in forested watersheds

Michel Lafforgue, Suez Consulting

- Treating underground water: results after 4 years of applying a decree on soil protection in Wallonia

Vincent Lebrun, Wallonia Public Service

- The National Bank of Water Withdrawals: challenges for a unifying tool for quantifying pressures on water resources

Julie Chataigner, French Agency for Biodiversity

- How about if the Seine Normandie Water Agency supported agricultural activities with a low impact on water resources?

Dikran Zakeossian, Epices and Delphine Jacono, Seine Normandie Water Agency

Session 17 ENERGY EFFICIENCY

Chaired by Pascal Juif, Veolia Eau

- Building tomorrow's campus today. Lessons learned from the results and action plans induced by the Water & Energy master plan on campuses in Bordeaux

Julia Barrault, LyRE-Suez and Matthieu Bugnon, EXPLICIT, Suez Consulting

- Measuring and modeling energy costs at water treatment plants: finding an optimization tool

Sylvie Gillot, IRSTEA

- Using the ISO 14 414 Pump system energy assessment standard to lastingly improve the energy performance of drinking-water production

Jean-Christophe Boclet, IRH Ingénieur Conseil and Frédéric Morand, Greater Lyon Water Authority

- Solar and geothermal tools to dry sludge from Wasmuel water treatment plant and produce heat and electricity

Bernard Lallemand, IDEA and Christian Didy, SPGE

11:00-12:30 [In parallel]

**Session 18 WASTEWATER:
METROLOGY AND PROCESSES**

Chaired by Philippe Janneteau, SIAAP

- Metrological innovation for regulatory water analysis: feedback on 5-day Biochemical Oxygen Demand

Mathieu Muller, AMS Envolution

- Managing the membrane stock in wastewater treatment plants: from monitoring operational data to diagnostics of membrane integrity

Romain Mailler, SIAAP

- Improving performance and reducing energy consumption at an industrial water treatment plant as the first step of a strategy to fight filamentous bacteria

Christophe Meunier, CEBEDEAU

**Session 19 IMPACT OF
HEALTH-RELATED ACTIVITIES
ON WATER QUALITY**

Chaired by Fabrice Nauleau, Saur

- Levels of endocrine disrupters in Wallonia: assessing the relevance of biotests as a screening tool or as an alternative to chemical analyses

Carole Chalon, ISSEP

- Relevance of bio-indicators to monitor water treatment plants performance

David Du Pasquier, WatchFrog

- An inventory of medicinal substances found in Walloon waters

Katherine Nott, Société Wallonne des Eaux-Laboratoire Central



**Art in our
metier**
- Photo contest -

Share your most beautiful photo to illustrate the technical aspects of our métiers «environment, waste, water and sanitation» Then vote at the conference!

Deadline for receipt of photos:
May 20, 2017. To be transmitted to
geraldine.izambart@astee.org

- Technical conditions -

- High-definition picture
- 5Mb minimum
- Format .jpeg
- Orientation portrait
- Color photo
- 1 photo per participant

Find TSM on its stand throughout the congress, surprises await you...

astee
association scientifique et technique pour l'eau et l'environnement

tsm
tout ça, ça peut attendre

Automnales 2017

Development of sludge and bio-waste:
from source to resource



14 and 15
NOVEMBER
LE CREF, Colmar

SAVE
THE
DATE



TERMS AND CONDITIONS



Welcome of participants

Participants will be welcomed Tuesday 6 June 2017 starting 13.30, then every day before the sessions at Liège Theater.

Registration fees for ASTEE include

- **for members and non-members:** include admission to all sessions and technical visits, access to the digital toolkit and admission to the receptions and the gala evening.
- **for students :** include admission to all sessions and technical visits, access to the digital toolkit and coffee-break. They do not give access to the lunches or to the gala evening.

	Member	Non member
Half-day	130 € HT	175 € HT
1 day	260 € HT	350 € HT
2 days	400 € HT	525 € HT
Conference package	510 € HT	700 € HT

VAT not included

- Young professional members (under 35), retirees and people looking for work: -50% on registration fees upon presentation of proof
- Student: 20€ per day upon presentation of proof

Register before May, 24

Download the registration form on www.astee.org

Payment and cancellation

The appropriate fees must be paid upon registration by cheque in Euros made out to the ASTEE, by bank transfer or credit card.

Any bank transfer fees and charge are the responsibility of the delegate.

Any cancellation must be notified in writing. We will not accept cancellations over the phone.

For cancellations received between May 1st and May 24, 50% of the registration fee will be refunded. There will be no refund for cancellations received after May 24.

ASTEE

51 rue Salvador Allende
92 027 Nanterre Cedex
France

Tél. : 33 (0) 1 41 20 17 61

Fax : 33 (0) 1 49 67 63 03

Practical information

The conference will be held at:

Théâtre de Liège - Place du 20 août
4000 Liège - Belgique



Transport:

By train from Liège-Guillemins station (approx. 15 minutes by bus)
www.belgianrail.be/en/Default.aspx

By air:

- from Brussels airport (national airport):
www.brusselsairport.be/fr/
- from Brussels South Charleroi:
www.charleroi-airport.com/
- from Liège airport:
www.liegeairport.com/home

The ASTEE does not cover transport and accommodation expenses for participants.

Réservation en ligne / Book online

To secure your
accommodation, book directly on
www.atibooking.com



Our partner A.T.I. Booking selected hotels at preferential rates for the exclusive benefit of the congress participants.

Be careful the number of rooms near the Théâtre de Liège being limited, we advise you to book quickly.

Contacts

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