

NOVATECH

2010

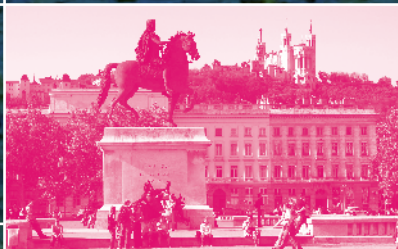


June 27th – July 1st 2010
Lyon Convention centre - France

7th international conference
on sustainable techniques and strategies
in urban water management

**PRELIMINARY PROGRAM
REGISTRATION**

www.novatech.graie.org



graie

Scientific committee

Chairmen:

Bernard Chocat	INSA of Lyon, France
Jean-Luc Bertrand-Krajewski	INSA of Lyon, France
Tim D. Fletcher	Monash University, Australia
Alberto Campisano	University Of Catania, Italy
Peter Krebs	Dresden University of Technology, Germany
Jiri Marsalek	National Water Resources Institute (NWRI), Canada
Peter Steen Mikkelsen	Technical University of Denmark, Denmark
Nilo Nascimento	Federal University of Minas Gerais, Brazil
Eric W. Strecker	GeoSyntec Consultants, United States
Simon Tait	University of Bradford, United Kingdom
Mitsuyoshi Zaizen	Takenaka Civil Eng & Constructions Co.Ltd, Japan

Organization committee

GENERAL SECRETARY:	Elodie Brelot, Graie
Agence de l'Eau RM&C	Martine Lami
ASTEE	Marie-Agnès Chaggier-Laboissière
Atelier LD	Didier Larue
CERTU	Nathalie Le Nouveau
Conseil Général du Rhône	Estelle Martin
DREAL Rhône-Alpes	Jean-Marc Chastel
Eurydice (INSA of Lyon)	Sylvie Barraud
Grand Lyon	Jean Chaggier
INSA of Lyon	Bernard Chocat
Lyonnaise des Eaux - France	Didier Lahalle
Région Rhône-Alpes	Luisa Alzate
SHF (INSA of Lyon)	Jean-Luc Bertrand-Krajewski
S.M.R.P.C.A.	Pierre Gadiolet
Safege	Carine Morin-Batut
Veolia Eau	François Coutin

Novatech 1992 – Novatech 2010: 18 years old, the age of majority

In 2010, we are going to celebrate the 18th birthday of the Novatech conferences, i.e., in France, the age of majority. With majority comes responsibility. The exchanges and conclusions of the Novatech conferences, which bring together researchers, private enterprises and government agencies, contribute in a more and more important part in the strategies and techniques of urban water management, in France and everywhere in the world. This responsibility flashes back on the Presidents of the Scientific Committee of the conference, and we assume it readily. It also flashes back on all the players of Novatech: members of the scientific committee, members of the organization committee, organizers, speakers and participants. We all must accept full responsibility for it.

If we consider collectively that our exchanges during the conference can and must modify the way urban water during wet-weather will be managed tomorrow; if we think that ideas, techniques and solutions which we will encourage or criticize can, in the medium term, modify the life of the majority of the inhabitants of the world who live in urban areas, then we all must take into account of this responsibility in our remarks and our choices.

From now on, the urban water management has a great challenge:

– Is it necessary to continue to develop great public systems, largely founded on the logic of pipes, and to improve them by integrating modern technologies?

– On the contrary, is it completely necessary to give up this logic and to develop individualized systems, making possible the on-source control to manage urban water?

– Are there some intermediate or mixed solutions, making possible, at the same time, to better develop the infrastructures where they exist, and to allow a more integrated development with a weaker environmental impact?

– How to manage the transitions between traditional systems and new concepts? How to combine innovation, with the precautionary principle and the legal and regulatory framework, regarding the management of pollutants and water resources?

– How to improve the promotion of a locally adapted approach of urban water management which associates specialists in water, architects, planners and all the players of urban design and management?

In an economic context of crisis and climate change which makes the future dubious, these questions are relevant for all the cities of the world. We hope sincerely that all the participants to the Novatech 2010 conference will join with the determination to bring innovating, practical, applicable answers founded on the last results of research.



Bernard Chocat and Jean-Luc Bertrand-Krajewski

Professors, INSA of Lyon

Chairmen of the scientific committee

NOVATECH 2010

Novatech 2010: 7th international conference on sustainable techniques and strategies in urban water management

Since 1992, the NOVATECH conferences, held in Lyon every three years, gather decision makers of local authorities, engineering firms and industry engaged in water management and the more experienced researchers in this field.

The main focus of the Novatech conference is sustainable solutions for management of wet-weather flows in constructed areas (i.e. urban and suburban areas). The conference covers both stormwater management and CSOs.

Beyond the structural answers, a greater emphasis is required on the non-structural answers like the processes, behaviors, or rules of financing.

That is why the 7th NOVATECH conference will answer everyone's concerns by articulating the participants' works on three complementary approaches:

- Urban planning, operation and urban water sustainable management: strategy, planning and decision aid.
- Innovative technologies for stormwater management: design, execution and optimization of devices and systems.
- Watershed-scale urban water management: rainfall-runoff and flood; pollution and urban wet-weather discharges' impacts.

Novatech 2010: An ideal place for meeting and exchanging with an experienced and diversified audience

Beyond urban drainage management professionals, the Scientific Committee and the speakers have a real willingness to open the Novatech conferences to:

- Urban planning professionals: town planners, landscape architects, planners, and architects.
- Professionals engaged in the protection and enhancement of water bodies: river joint associations and government central administration.
- Therefore, gathering operational actors and the best international scientists and experts in this issue, NOVATECH represents one of the rare opportunities for meetings and exchanges on last technical innovations, case studies and results of research. Thus, this conference contributes to:
 - The evolution of engineering applications, with the implementation of the most advanced scientific results,
 - Research activities and projects development that really consider operational topics,
 - The mutual improvement thanks to the exchange,
 - The sharing of common knowledge in urban water management issue

To facilitate participant's exchanges, French/English simultaneous translation is provided for all sessions and during the technical tours.

Novatech 2010: A regional scientific event recognized worldwide

- 700 delegates expected and more than 40 countries represented.
- Nearly 200 communications presented over three days.
- Alternating plenary or parallel break-out sessions and posters exhibition.
- Pleasant special meetings: specialized workshops, two technical tours, a forum and two enjoyable social evenings.
- The general public and local decision makers are also welcome during a film screening followed by a conference/debate.

NOVATECH is both a major technical meeting place and a high-level scientific symposium, recognized worldwide, dealing with urban water management in wet weather.
(*subject to confirmation)

General program

The event will be held over 5 days:

- It will begin on Sunday June 27th, with three specialized workshops organized by the IWA/IAHR JCUD working groups and a general welcome on Sunday evening at the top of the highest tower of Lyon.
- The three-day conference will take place in the Convention Centre of Lyon: with a first opening plenary session dealing with the urban design and biodiversity thought, then three parallel break-out sessions until Wednesday, June 30th at 4:00pm (with more than 150 oral presentations during three days). This year, poster exhibitions, a forum for the presentation of innovative products and services and the international solidarity area will enhance information and the media of exchange. On Monday afternoon, the screening – in French – of a film *Water, Nature and the City* followed by a conference-debate will open the event to local representatives. Lunches will be served on the spot of the conference as well as the Gala Dinner on Tuesday evening.
- On Thursday July 1st, to close the Novatech conference, four technical and touristic tours will enable delegates to discover:
 - 1 – the interaction between water and urban design around Lyon and its area,
 - 2 – experimental catchment areas of the Field Observatory for Urban Water Management.



Preliminary program

Schedules

8am	9am	10am	11am	12am	1pm	2pm	3pm	4pm	5pm	6pm	7pm
Sunday 27											
Welcome	Workshops of JCUD working groups – INSA, Villeurbanne									General welcome Hôtel Radisson	
										Ice breaker	
Monday 28											
Welcome	Plenary opening session			Lunch	Session 1.1	Posters/break	Session 1.2	Posters/break	Film screening & Conference debate		
	Session 2.1	Session 2.2									
	Session 3.1	Session 3.2									
									Poster session / Working groups meetings		
Tuesday 29											
Welcome	Session 1.3	Posters/break	Session 1.4	Lunch	Session 1.5	Posters/break	Session 1.6	Gala dinner Convention Centre			
	Session 2.3		Session 2.4		Session 2.5		Session 2.6				
	Session 3.3		Session 3.4		Session 3.5		Session 3.6				
	Forum / Presentation Innovative products & services				Forum / Presentation Innovative products & services			Best poster awards			
Wednesday 30											
Welcome	Session 1.7	Posters/break	Session 1.8	Lunch	Session 1.9	Cocktail		Best poster awards			
	Session 2.7		Session 2.8		Session 2.9						
	Session 3.7		Session 3.8		Session 3.9						
	Forum / Presentation Innovative products & services										
Thursday 1st											
Welcome	Technical Tour 1 – Rhône-Saône										
	Technical Tour 2 – Lac d'Aiguebelette										
	Field Observatory Tour 3 OTHU Retention infiltration pond										
	Field Observatory Tour 4 OTHU Constructed wetland										
8am	9am	10am	11am	12am	1pm	2pm	3pm	4pm	5pm	6pm	7pm

The detailed program is available on the website: www.novatech.graie.org

Plenary opening session

Monday, June 28th 9:30 am – 12:15 pm

The Novatech 2010 official opening session will be introduced by the Presidents of the Scientific Committee – Bernard Chocat and Jean-Luc Bertrand-Krajewski, the President of the Joint Committee on urban Drainage – Peter Steen Mikkelsen and the Novatech general secretary – Elodie Brelot.

Biodiversity is a major topic in 2010; that is why we propose you to broaden the discussions developed at Novatech by extending them to the links between nature and city, as well as urban opportunities, sustainable and eco-cities. What are the prospects for a better urban water management in this changing context? Which is the best way to link urban design with nature integration, water management and sustainable development?

The talks of Michel Corajoud, landscape architect, Erik Freudenthal, head of communication of the eco-district in Stockholm called “Hammarby Sjöstad”, Olivier Thomas, mayor of Marcoussis, Thierry Laverne, landscape architect, local representative and President of the “Triangle Vert” organization and Bernard Chocat, Professor at the INSA of Lyon, will illustrate and broaden the discussion to the present context of city planning and water management which are in line with the triennial Novatech conference.

Thematic conferences

Monday, June 28th 1:30 pm – Wednesday, June 30th 4:00 pm

The Novatech Scientific Committee has selected 236 communications which will be presented at the conference. They will be representative of innovative research efforts and operations carried out in the whole world (around 30 countries are represented). They are equally distributed between scientific papers and technical case studies presentations. A 30% are French, a 40% are European and the last third are coming from other continents.

The conference includes 27 thematic sessions of 1h30 to 2h00 in 3 parallel conference rooms. Communications are distributed between oral and poster presentations.

The reviewers committee, composed by a hundred international experts, gave priority to the authors' speaking time and quality of exchange among participants. Only 154 papers were selected for oral presentation, in order to hold sufficient speaking time and to limit the number of parallel sessions to three.

One third of the communications will be presented as posters, with a daily exhibition program. Thus, long periods of time will enable meetings with the authors of posters.

The conference comprises three themes:

- Integrated approaches of urban planning, urban design and stormwater management;
- Innovative technologies of urban wet-weather flows management;
- Watershed-scale stormwater management

The list of papers and the detailed program are online on the Novatech Website.

Sustainable management of urban stormwater

Strategies, urban planning and operation, decision aid systems

Monday, June 28th 11:00 am – 4:00 pm

Communications that are of interest to both urban planning professionals (planners, architects, town planners, landscape architects, etc.) and to urban drainage management professionals.

The six thematic sessions of the first day (gathering thirty oral presentations) will focus on integrated approaches and strategies in stormwater management and urban development: system durability, actors' involvement, allotment-scale management, urban planning and districts development, city-scale decision aid and planning.

Experiences, practices and strategies from about fifteen countries, will be sometimes discussed and analyzed with the urban planning point of view, or aiming at understanding the keys of success and the involvement of actors focused on the research of new solutions adapted to the changes in practices, the evolution of cities, climate, sociologic and demographic environments.

About twenty posters displayed during this first day of conference will develop these topics, with an opening-up on the specific themes linked with developing countries and on stormwater reuse strategies.

Innovative technologies for stormwater management

Source control, sewage system optimization and treatment

Tuesday, June 29th 8:30 am – 6:00 pm

Communications that are of interest to urban drainage management professionals (technicians of local authorities, specialized engineering firms, drainage system operators and administrators, etc.) and urban professionals (planners, architects, landscape architects, etc.).

► During the second day, the twelve sessions (70 oral presentations expected) will deal with the analysis of performance, design optimization, modelling and real time control of systems and devices.

The following topics will be discussed in the three parallel break-out sessions:

- Technical solutions for source stormwater management, including reuse: design, innovation, global and limited efficiencies for pollution and water flow management;
- Optimization of the functioning and management of devices and the overall sewer system: understanding, modeling and real time control of the phenomenon and global functioning;
- Solutions for stormwater treatment; especially settlement, filtration, biofiltration and the use of porous pavements.

The exhibition of about thirty posters displayed during this 2nd day of conference will complete the illustration of the above themes thanks to the presentation of devices, tools and results of research.

Watershed-scale water management

Flood and runoff, pollution and CSO's impacts

Wednesday, June 30th 8:30 am – 4:00 pm

Communications that are of interest to professionals engaged in the protection and enhancement of water bodies (local authorities, government central administration, water agencies, etc) and to urban drainage professionals.

During the 3rd day, nine sessions will cover a more general aspect of watershed-scale stormwater management. The two main themes will be: flood management and the understanding of flood origin on the one hand, and the management of aquatic environments quality, knowledge of pollution sources and the CSO's impacts on the other hand. The three parallel break-out sessions will differ thanks to the following approaches:

- Urban water pollution: sources, concentrations in devices and discharges;
- Watershed: hydrologic process, modelling, flood and global management;
- Watershed-scale CSO's impacts: knowledge, modelling and management

Around twenty posters will complete the 54 oral communications on those themes.

Water, Nature and the City

Film screening and Conference-debate

Monday, June 28th 5:00 pm – 7:30 pm

Bernard Chocat, the Graie and their partners will present in a preview showing a film for the general public called "Water, nature and the city". They have been involved in this film with MediaPro, an audiovisual production company in Lyon, to suggest fresh looks at the urban parenthesis of water. The aim of the film is not to build a consensual message but to point out the complexity of the problematic. It is an invitation to elected representatives, scientists and professionals working on water management topics, to share with the general public a common culture of water. It aims also to accompany the necessary changes in comprehension and practices.

The film director - Jérôme Surroca - appeals major French witnesses such as Erik Orsenna, Corinne Lepage or Michel Corajoud, and professionals, decision makers and scientists.

This preview showing will be introduced by:

- the President of the Urban Community of Lyon or his/her representative,
- the President of the Rhone-Alps Region or his/her representative,
- the Chairman of the Water Agency Board or his/her representative.

The screening will be followed by a conference-debate in the presence of Michel Corajoud, a renowned landscape architect, who likes to reintroduce water in urban landscape and knows how to bring urban spaces back to life by playing with water.

The preview showing is proposed on Monday afternoon, mainly for French-speaking conference attendees and is opened to city mayors and chairmen of public institutions in charge of water and cities planning and management.

The film produced for this occasion will be repeated in French and English for the delegates during the two following days. It will be promoted during the water week organized during the Universal Exhibition this fall in Shanghai. After the Novatech conference, it will be broadcasted on French TV and quickly available online.

Highlights for meetings and exchanges

For this 7th edition, besides the convivial framework offered by the Convention centre of Lyon, we wanted to increase the number of moments in the program that facilitate meetings and exchanges on scientific and technical aspects:

- ▶ A thematic posters exhibition and a competition for the “best poster” in order to highlight them;
- ▶ A forum for the presentation of innovative products and services, for a more interactive approach;
- ▶ An international solidarity area to facilitate exchanges regarding international solidarity projects;
- ▶ Areas dedicated to casual meetings.

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Posters exhibition

80 authors, selected by the Scientific Committee, are invited to present their works and experiences with posters.

Poster presentations represent one third of the selected communications by the Scientific Committee. They contribute largely to enhancing the information proposed in the framework of the Novatech



conferences. Each day, around thirty posters, dealing with the daily thematic conferences, will be displayed in the central area of the conference. The Novatech participants will be able to meet and exchange with poster authors, especially during coffee-breaks, lunches and on Monday afternoon. For the first time in Novatech, delegates will elect the best poster of the day; the authors of the three best posters will be rewarded with an emblematic gift from Lyon.

A daily visit of the poster exhibition and meeting with poster authors are an integral part of Novatech.

Forum

In parallel with the conferences, a meeting room will be dedicated to the presentation of products and services with an innovative specificity in terms of knowledge, management, control or treatment in urban wet-weather flows.

The companies registered to the forum have a 45-minutes slot to present their products and exchange with the interested interlocutors. This forum substitutes the traditional commercial exhibition in order to establish a real exchange with your interlocutors.

The program will be updated regularly on the website of the conference.



© Serge Martinez

International solidarity area

The aim is to enable local authorities registered at Novatech to better identify their potential scopes for water and drainage in the field of international solidarity.



This area dedicated to international solidarity will enable meetings with:

- Professionals (scientists or private actors) who want to get involved in foreign countries;
- French authorities working on the international field or willing to get involved (and in search of technical skills);
- Local authorities of southern countries, invited at Novatech, which are looking for technical support.

Technical and scientific tours (1/2)

Thursday July 1st

Two technical tour programs are proposed. French/English simultaneous translation will be provided during the visits. Voluntarily, they combine regional heritage discovery, visit of experimental areas and meetings with technical responsible meetings.

Please note that there are only a limited number of places available, so it is recommended to make reservations as soon as possible.

On Thursday morning, the OTHU researchers also propose the visit of two experimental catchment areas: a constructed wetlands experimental pilot in Craponne and a monitored storage and infiltration basin in Chassieu. Researchers will provide all the commentaries and translation needed.

The departure point for all visits will be in front of the Convention centre of Lyon (meeting at 8:30 am and departure at 9:00 am).

Technical tours

1 – Rhône and Saône rivers on a barge: discovering the fluvial heritage of Lyon

This technical tour will be held on a barge called “La Vorgine et ma découverte” which belongs to the Val de Rhône barges organization.

It will interest all delegates who are curious about taking a different look at the cultural, natural and aquatic environment of Lyon.

With the flow of Rhône and then Saône, you will discover the city of Lyon and its suburbs from its rivers.

To go further into discovery, three stops will be organized:



1st stop on “La Varka”, a barge owned by the Greater Lyon, used for the cooperation of planning projects linked with rivers. A speaker of the Grand Lyon and a designer will explain you the design, the execution and the management of the Rhone river natural landscape. They will also present the future planning project for the design of Saône River banks.

2nd stop at the confluence of the Rhône and the Saône rivers to discover this ambitious urban area project (objectives, environmental, societal and architectural preconceptions) which aims at bringing the district and the rivers back together.

3rd stop on “l’île Barbe”: visit of the small island with an historical comment of this green setting located in the middle of the Saône River. Lunch will be served on board.

<http://www.peniches.fr>

2 – The lac d'Aiguebelette, a model of integrated management of aquatic environment

Nestled in the foot of the Alps, the lac d'Aiguebelette is located at the gateway of Savoy. It is the third natural lake of France (545 hectares); with plenty of reed beds, wetlands and afforestations, this lake offers a remarkable natural framework, well appreciated for the practice of open air activities and running water sports such as rowing.



Over the last past years, local authorities (in charge of managing of this private lake) have been combining environmental and touristic ambitions through several approaches: First, a “Lake contract” has been created to improve waters and the quality of wet areas (from 1998 to 2005), then, more recently, with the setting up of an exemplary eco-touristic approach and a regional nature reserve project.

The Rhône-Alps Region invites you to spend a nice day “with the flow” in this pleasant touristic site particularly exemplary in the field of water management and sustainable development. Among the discoveries: the visit of wet-weather storage basins coming from the motorway and, above all, the discovery by boat of lake reed beds.

An elected representative, a technician of the agglomeration community of the Lac d'Aiguebelette, a technician of AREA (the motorway company) and a natural scientist from the Natural Heritage Conservatory of the Savoy Department will welcome you during the visit.
<http://www.lac-aiguebelette.com/>

Visits of 2 research disposals of the OTHU Field Observatory for Urban Water Management

The OTHU researchers propose the visit of two experimental catchment areas in the Urban Community of Lyon, that are the subject of researches lead within the OTHU and dealing with wet-weather urban discharges treatment and their impacts.

The aim of the visits is to present concretely the metrologic and experimental devices fitted out in these catchment areas and illustrate the difficulties and solutions brought to the experimentation.

Technical and scientific tours (2/2)

Thursday July 1st

3 – Constructed wetlands experimental pilot project in Craponne

The SEGTEUP program, dealing with extensive systems for urban water management and treatment under wet-weather conditions, gathers seven partners in order to develop optimize and validate



the wetlands extensive treatment for urban water. In 2010, the achievement of nine experimental pilot facilities gives the opportunity to test different elements: materials, methods of supply and thicknesses.

The partners of the project will present you the SEGTEUP program and its experimental catchment area.

<http://www.segteup.org>

4 – “Django Rheinhardt” infiltration and storage basin in Chassieu

This device of the Urban Community of Lyon, renovated in 2002, has been equipped, for more than ten years, with on-line monitoring sensors and samplers, dedicated to the study:

- ▶ of water and pollutant flows produced by an urban area with industrial activities,
- ▶ of retention and infiltration tanks in a situation of deep ground water and,
- ▶ of the impact flows infiltrated on water quality.

The technicians managing this experimental catchment area and researchers will propose you to discover the metrological system fitted out in this basin.

<http://www.othu.org>
(In case of rain, the visit will be cancelled).



Practical information

8:30 am – Meeting point in front of the Convention centre for the four visits

Visit 1	Visit 2	Visits 3 & 4 – OTHU
Rhône-Saône	Lac d'Aiguebelette	Craponne/Chassieu
9:00 am – Departure from the Convention centre pier	9:00 am – Departure by bus	9:00 am – Departure by bus
5:00 pm – Back at the Convention centre	5:30 pm – Back at the Convention centre	1:00 pm – Back at the Convention centre

Specialized workshops

Sunday, June 27th

Three specialized workshops are organized by international working groups of the IWA/IAHR joint committee on urban drainage. The official language is English. The workshop programs are detailed on the website of the Novatech conference.

W1 – Real time control

Pilot: Alberto Campisano

Real Time Control (RTC) is a technology that helps communities improve operations by taking advantage of available capacities in wastewater systems. RTC is an efficient way of reducing sewer overflow, basement and street flooding and of improving the performances of treatment plants. Recognized international Real Time Control experts will provide a comprehensive overview of the RTC technology and present some recent applications and results using this technology. The most up-to-date case studies/experiences from different parts of the world will be presented. A sufficient portion of time will be allotted to answering questions and discussing with participants.

W2 – Source Control (SOCOMA)

Pilots: Sylvie Barraud and Tim Fletcher

This workshop, organized by the Source Control working group (SOCOMA) under the IWA/IAHR Joint Committee on Urban Drainage, will explore technical and social aspects of source control technologies and techniques. In the morning the workshop will focus on new techniques for modelling and design, whilst in the afternoon it will focus on the practical lessons from implementation and adoption.

W3 – In a time of changing conditions

Pilot: Maria Viklander

Urban drainage in cold climates – in a time of changing conditions. Challenges and opportunities. Our society is facing a number of changing conditions such as; climate change, urbanisation, deterioration of water quality and an aging sewer system, which will create new requirement at our urban drainage systems.

The overall question for the workshop will be – How to adapt our existing systems, respectively plan & design, to cope with these changes? The workshop is organized by the “urban drainage in cold climate” working group; but, due to the importance of the question, you are welcome to participate, regardless of “your” type of climate.

General information

In order to encourage connections and casual exchanges between delegates, to keep the conference efficient and more and more convivial, the three days of conference will take place at the Lyon Convention centre, like in 2004.

In this prestigious congress center, located at the edge of the Tête d'Or Park and near the city center, you will find a spacious and user-friendly space with:

- ▶ Casual areas for free meetings;
- ▶ Internet hotspots;
- ▶ free Wifi access.

This pleasant area will also welcome: the Graie permanent staff – at your service –, the daily posters exhibition, the International Solidarity area dealing with water topics, coffee-breaks and lunches.

Welcome and entry

- ▶ Sunday, June 27th at 8:30 am, at the INSA of Lyon, for the workshops delegates only.
- ▶ Sunday, June 27th from 6:00 pm, at the BLU Radisson Hotel.
- ▶ Monday, June 28th and the two following days, from 8:00 am, on the conference site.
- ▶ Thursday, July 1st at 8:30 am in front of the Convention centre for the technical tours.

Please note that your passport or identity card will be required every day in exchange of your translation headphone.

Three sites for one event

Convention Centre of Lyon: 50 quai Charles de Gaulle, Lyon 6^e for the three days of conference from June 28th to 30th, the Gala Dinner and the departure point for the technical tours on Thursday July 1st.

INSA of Lyon, Engineering school, Domaine scientifique de la Doua, Avenue Albert Einstein, in Villeurbanne, for the specialized workshops on Sunday, June 27th.

The BLU Radisson Hotel: 129 rue Servient, Lyon 3^e, for the general welcome and the ice-breaker.

Official languages

English and French are the two official languages. Simultaneous translation will be provided for all sessions, and during the Technical Tours but neither during the specialized workshops on Sunday, June 27th (English only), nor during the film screening on Monday afternoon (French only).

Novatech proceedings

A USB key containing all the oral and poster communications presented during the Conference will be given to you at the welcome desk of the conference as well as an abstracts compendium. After the conference, proceedings will be quickly available and downloadable, as the Novatech 2007 proceedings, on the INIST website (Institute for Scientific and Technical Information): <http://irevues.inist.fr/novatech>. Moreover, two conference rooms will be shot and live broadcasted on the web. Then, the videos of the conferences will be available via a link on the Novatech website such as the proceedings.

You can also order the USB-key with the Novatech 2010' proceedings or previous Novatech conference proceedings (papers or CD-Rom). For more information visit our website.

Ice Breaker

A Welcome cocktail will be served on Sunday, June 27th from 6:30 pm at the Radisson BLU Hotel (located near the Part Dieu Railway station); a privileged friendliness moment to meet again your colleagues from all over the world, in the highest tower of Lyon, which offers a panoramic view on the Gauls capital.

Gala dinner

The Gala dinner will be held on Tuesday, June 29th in the ditches of the Convention centre. Just after the conferences, we propose you a relaxation early evening, with some street acrobats and the visit of the famous Tête d'Or Park and its rose garden, commented by experienced botanists.

At the end of the dinner, the music band Gaïmalis will propose you a walk back in time through European music and songs from today and yesterday: concert, invitation to dance, and finally, for musician delegates, a proposed "jam session". For more information visit our website.

Free meetings

On Monday, June 28th, starting from 5:00 pm, will be a special time to meet poster authors and visit the international solidarity area. It will be also the good moment for the organization of free meetings (working groups). Please contact the secretariat to book a room.

Forum for innovative products and services presentation

In parallel with the conferences, a meeting room will be dedicated to the presentation of products and services with an innovative specificity in terms of knowledge, management, control or treatment in urban wet-weather flows. On Tuesday June 29th (if needed on Monday June 28th and Wednesday June 30), the companies registered to the forum will have a 45-minutes slot to present their products and exchange with the interested interlocutors.

If you need more information about this Forum, please visit the website of the conference or contact the Novatech secretariat.

Accompanying persons

The program proposed to accompanying persons is quite simple, so that they will have plenty of time and be free to visit the city and the area on their own. A touristic kit and transport tickets will be provided to enjoy at best their stay in Lyon.

- A meeting point is proposed on Sunday, June 27th, at 7:00 pm, for the Ice Breaker at the Radisson Hotel.
- A guided tour of Lyon is organized on Monday morning, followed by a friendly lunch in a "bouchon lyonnais" (traditional restaurant).
- On Tuesday evening, accompanying persons will share the Gala Dinner with all the conference participants at the Convention centre with the opportunity to visit the Tête d'Or Park.
- They also can register for the technical and touristic program of Thursday and join delegates on Tuesday and Wednesday for lunch.

Registration

Registration

Please register before April, 30th to qualify for the early bird registration.

The registration deadline is June, 18th 2010.

The registration should be done online on the Novatech Website: <http://www.novatech.graie.org>

The complete registration to Novatech'2010 includes the attendance to the three conference days on June, 28th to 30th, the proceedings -delivered on the venue (USB key and an abstracts compendium), the three lunches and the two dinners on Sunday and Tuesday evenings.

You also can attend a specialized workshop on Sunday, June 27th and a technical tour on Thursday, July 1st.

You can choose to attend to the conference for one day only.

A special rate is granted to authors and members of partner associations.

Payment terms

Your registration must imperatively be recorded on the Internet Website, whatever the payment mode.

- ▶ by credit card, via the Novatech web site (secured system).
- ▶ by bank wire S.W.I.F.T. transfer, in euros only.

It is essential that you fax a copy of the Bank transfer, with the registration reference, the name and the country of the participant to +33 (0)4 72 43 92 77.

Ref.: BPLL Villeurbanne Charpennes 019 - assoc. GRAIE - NOVATECH

Bank Code 13907 – Counter Code 00000 – Account n° 819452 82603 – RIB key 36

IBAN – International Bank Account Number: FR76 1390 7000 0081 9452 8260 336

BIC – Bank Identification code: CCBPFRPLYO

Bank checks are accepted only from France.

General terms

Your registration will not be validated until receipt of your payment

Cancellation conditions:

- ▶ Before May 5th, 2010 – Full refund less a 50€ administration charge
- ▶ Before June 1st, 2010 – Refund of 70% of your registration fees
- ▶ After June 1st, 2010 – No refund; registrants are liable for the entire registration fees; the conference proceedings will be sent to absentees.

Secretariat

GRAIE – Novatech Secretariat

BP 52132 – F-69603 VILLEURBANNE CEDEX – FRANCE

Tel. +33 (0) 4 72 43 70 56

Fax : +33 (0) 4 72 43 92 77

E-mail : novatech@graie.org

<http://www.novatech.graie.org>

Rates

Conference

Novatech 2010 registration: from 530 € to 760 €

Attendance for the three-day conference, proceedings (USB key & abstracts compendium), lunches, Ice Breaker and Gala Dinner included.

Full rate:

Discounts (can be held concurrently):

► Registration before April 30th:

► Authors and members of partner associations:

760 €

– 130 €

– 100 €

Daily conference registration: from 255 € to 355 €

Attendance to the chosen day of conference, proceedings (USB key & abstracts compendium) and lunch

Full rate:

Discounts (can be held concurrently):

► Registration before April 30th:

► Authors and members of partner associations:

355 €

– 50 €

– 50 €

Forum for products & services presentation

A 45-minute slot presentation
(only for Novatech registered delegates)

+200 €

Complementary offers

► **Specialized Workshops – Sunday June 27th**

Attendance, documents and lunch

1/ Real time control

2/ Source control

3/ Changing conditions

+120 €

► **Technical tours – Thursday July 1st**

Transport, documents and lunch (the two OTHU visits on the morning are free of charge):

+30 €

► **Accompanying persons**

Touristic kit, Ice Breaker, guided tour of Lyon, lunch on Monday and Gala dinner:

+180 €

Lunch on the spot of the conference (Tuesday or Wednesday):

+30 €

The Graie is a non-profit making organization – not liable to V.A.T

Hotel booking

To facilitate your accommodation in Lyon during the Novatech 2010 conference and to benefit from preferential rates, we have established a partnership with the company Alliance Meeting.

Alliance Meeting undertakes to book a room corresponding to your criteria, in the hotel you choose or in a hotel with identical standing, without any booking fees.

If you are interested in this service, please indicate your accommodation preferences when registering online. Then, Alliance Meeting will contact you to guarantee the booking (confirmation and transmission of your credit card number).

The hotel offer

The Lyon Convention centre is located in the centre of Lyon. It can be easily reached by local transport or by car. The hotels we propose are located in three areas. 25 to 40 minutes are necessary to get to the Convention Centre by local transport from the two first areas.

- ▶ The “Part-Dieu” district and the left-bank of the Rhône River, which have the most important hotel offer.
- ▶ The historic city centre, more pleasant, accessible from the Convention Centre with a direct bus line (n°58).
- ▶ The “Hôtel de la Cité”, nearby the Convention Centre, in the smart district between the Rhône River and the Tête d’Or Park and finally the hotel “La Reine Astrid” located at ten minutes by foot.

Booking and modification terms

The booking terms are different from one hotel to another. Alliance Meeting will inform you about the terms of the hotel you have selected. For any modification, please contact ALLIANCE MEETING and not the hotel.

Payment

The stay has to be paid to the hotel on departure. Your credit card will not be debited when booking. The credit card number will only be used to guarantee the booking. For some hotels, you may be asked to make a one-night down payment (by credit card or by check).

To contact Alliance Meeting

For any other hotel reservation (groups, residences), please contact Alliance Meeting
Alliance Meeting

30 Ter rue de la Liberté

94300 Vincennes

Tel. : 33 (0)1 71 33 10 62 - Fax : 33 (0)1 71 33 10 61

e.mail : resanovatech@alliancemeeting.com

Near Part-Dieu station				
Arr.	Type	Hotel	Simple	Double/Twin
7 ^e	2 **	Institut Hôtel	55 €	65 €
8 ^e	2 **	Stars Hôtel	72 €	79 €
3 ^e	3 ***	Residhome Part-Dieu	82,60 €	92,20 €
3 ^e	2 **	Appart City Part-Dieu	88 €	97 €
3 ^e	2 **	Hôtel Athéna	100 €	110 €
3 ^e	2 **	Campanile Part-Dieu	113 €	122 €
3 ^e	3 ***	Kyriad Prestige	weekdays: 131 € weekend: 81 €	weekdays: 143 € weekend: 93 €
3 ^e	4 ****	Radisson BLU	155 €	175 €

In the city centre of Lyon				
Arr.	Type	Hotel	Simple	Double/Twin
2 ^e	2 **	Hôtel Central	weekdays: 75 € weekend: 65 €	weekdays: 85 € weekend: 75 €
2 ^e	2 **	Hôtel Savoies	75 €	80 €
2 ^e	2 **	Hôtel du Dauphin	75 €	83 €
2 ^e	2 **	Hôtel des Célestins	81 €	91 €
2 ^e	3 ***	Axotel Perrache	weekdays: 94 € weekend: 75 €	weekdays: 104 € weekend: 85 €
1 ^{er}	3 ***	Grand Hôtel des Terreaux	weekdays: 132 € weekend: 105 €	weekdays: 144 € weekend: 117 €
2 ^e	3 ***	Hôtel Charlemagne	weekdays: 135 € weekend: 95 €	weekdays: 145 € weekend: 105 €
2 ^e	3 ***	Hôtel Carlton	143,50 €	165 €
2 ^e	3 ***	Mercure Plaza	155,50 €	172 €

Near the Convention Centre				
Arr.	Type	Hotel	Simple	Double/Twin
6 ^e	4 ****	Hôtel de la Cité	150 €	170 €
6 ^e	4 ****	La Reine Astrid	weekdays: 154 € weekend: 129 €	weekdays: 173 € weekend: 148 €

Rates per night, Breakfast included

Practical and tourist information

How to reach Lyon?

By plane: Lyon Saint Exupéry Airport, located 25km away from the centre of Lyon, provides connections with more than one hundred cities, half of which are international. To reach the centre of Lyon:

► the Satobus shuttles connect the Lyon Saint Exupéry Airport to the Lyon Part-Dieu railway station in 30 mn and the Lyon Perrache railway station in 50 mn; departures every 20 minutes (one-way ticket: 8,90€; round-trip ticket: 15,80€).

► taxi, fare is around 50€.

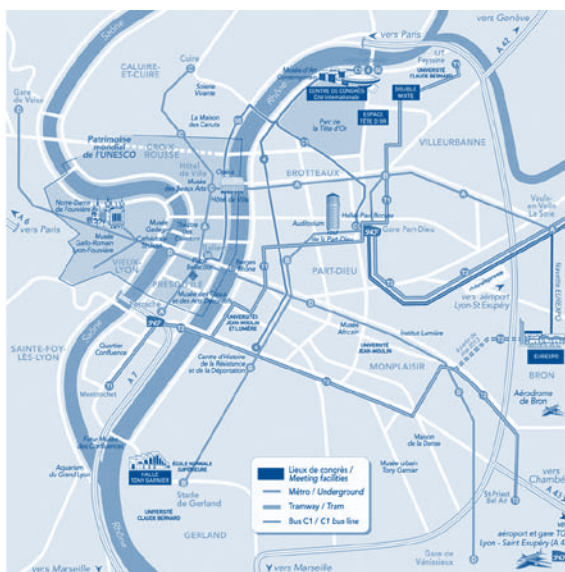
A partnership has been established with Air France. Conference participants benefit from a reduction on Air France flights from June 22nd to July 6th. Please have a look to the applied discounts on the Novatech website.

By train: Please pay attention, there are three SNCF railway stations:

► Part-Dieu Station and Perrache Station in the city centre.

► TGV-railway station at the airport Lyon Saint Exupéry.

Please ask the secretariat to benefit from a 20% discount for your trip by train.



How to reach the Convention centre?

The Lyon Convention centre is located at the northeast gate of Lyon, between the famous Tête d'Or park and Charles de Gaulle bank on the Rhone River.

By local transport: Bus lines n°4, 58 and C1 directly serve the Convention centre. For the Gala Dinner night on Tuesday, June 29th, extra buses will be at your disposal to drive you back to your hotel in the city centre. Further information about access and transport will be given to the registered conference participants.

By car: The Lyon Convention centre can be easily reached by car, thanks to its location near the ring road (North of Lyon); exit "Porte de St Clair", towards "Cité Internationale". On the spot, 3 paying car parks (1,60€/hour).

By bicycle: The city of Lyon provides 3500 bicycles called "Vélo'v" available in 343 stations disseminated in Lyon and Villeurbanne. 16 bicycles are at your disposal at the entrance of the Lyon Convention centre.

Easy - Lyon

Local transport: The city centre is very well served by public transport (tramway, subway and bus) until midnight. You can check the timetable and itineraries on the Internet website of the public transport of Lyon: www.tcl.fr.

Climate: At the end of June, it is summer! Average minimal and maximum temperatures are respectively of 15°C and 25°C, but the weather can be very hot!

Lyon – Curiosity

At a crossroad between Northern Europe and the Mediterranean coast, Lyon is surrounded by the Alps in the East and the Massif Central in the West. Its exceptional geographical location offers visitors a wide range of sites to visit. You can reach towering Alpine peaks in less than 2 hours. If you fancy a swim in the Mediterranean Sea, it is just 1:45 hours away by TGV. There is no need to remind you that Paris is just 2 hours from Lyon by TGV train. How could we forget to mention the numerous 1-day excursions (or longer) around Lyon and the Rhone Alps Region! Actually, many choices are available to you: the Beaujolais wine region, or a bit higher, green landscape of fir trees, or the Burgundy area, wetlands and birds of the Dombes, or a trek in the Massif Central volcanoes. You will discover that Lyon and its surroundings offer numerous other attractions.

Having been the capital of the Gauls under the Roman Empire and a great cultural and trading community during the Renaissance, as well as a dynamic industrial centre in the 19th century, Lyon has become a major European metropolis, successfully incorporating the best of the influences that have come its way. Lyon has joined prestigious cities such as Venice, Prague or St Petersburg after having been included on the UNESCO World Heritage List.

From the Roman Lugdunum to the city of today, two millennia have left an outstanding architectural heritage, at the confluence of the Rhône and the Saône rivers: Fourvière, with its basilica and the Gallo-Roman park, the exceptional Renaissance quarter of the Old Lyon, around the cathedral of Saint Jean, the peninsula between the two rivers, marked by the great classical and imperial era, and the slopes of the Croix Rousse rich with the craft of the silk workers. Discover also the new district of Gerland or the new design of the Rhône's embankments in the heart of the city.

Lyon has been, and remains, an essential destination for discerning gourmets from around the world. This capital of gastronomy draws deliciously on the produce of the generous, sun-drenched countryside nearby. In Lyon, both great and small restaurants rub shoulders, united in their love for good food. Get your taste buds ready and test the famous pork chitterlings, fried breaded tripes, pike dumplings...

A particularly lively part of the city, Lyon's historical centre, bears witness of the care and attention that the locals have shown for their heritage, which after being preserved and enriched over the centuries is now ready to enter the new millennium.

Here are websites to visit for more detailed information:

Lyon Convention and visitors Office	www.lyon-france.com
Lyon Convention Centre	www.ccc-lyon.com
Lyon City	www.lyon.fr
Urban Community of Lyon	www.grandlyon.com
Tourism in Rhone Alps	www.rhonealpes-tourisme.fr/
Railway	www.sncf.com
Lyon Airport	www.lyon.aeroport.fr
Transports en commun de Lyon (TCL)	www.tcl.fr
Vélo'v	www.velov.grandlyon.com

Organizer



The Rhone-Alps Group of Research on the Infrastructures and Water is a non-profit organization created in 1985. Its aim is to contribute to the co-ordination of supply and demand of research in the field of urban water management. Its scope of activities includes the organization of interdisciplinary working groups with partners and scientists of complementary qualifications, and the synthesis and dissemination of knowledge in this field. The organization of the NOVATECH conferences is an example of such activities.

Strategic orientation committee



Located at the heart of Rhone-Alps, the **Urban Community of Lyon** comprises 57 municipalities. Its functions include water quality management, road maintenance, traffic management, domestic waste collection and municipal cleaning. The staff of the Greater Lyon urban water service (600 people) ensures the responsibility of the water urban cycle. For more than twenty years, it has been building structural BMPs for stormwater management developing close partnerships with research in this field.



Second largest French Region, the **Rhone-Alps Region** gathers around 10% of the French population in 3000 communes and 8 départements (Ain, Ardèche, Drôme, Isère, Loire, Rhone, Savoie and Haute-Savoie). Its responsibilities span training, economic development and employment, regional development, and international co-operation. In the field of water, the Rhone-Alps Region intercedes with organizations that carry out combined approaches in the management of aquatic environments and supports research programs.



Agences de l'Eau

Public State agencies, **Water Agencies** aim to implement a rational management of water resources, the fight against pollution and the preservation of aquatic environments. There are 6 water agencies based on the main hydrographic basins. The Water Agencies collect taxes from various water users, as per the "polluter pay principle", for any pollution they may have caused or for the water that they may have drawn. These funds are then reallocated in the form of financial



Created in 1988, **Eurydice** is a non-profit organization that gathers specialists who participated in French and international studies and research that furthered the emergence of Urban Hydrology. Engineers and scientists, of different backgrounds and professions, may share their analysis and experiences towards the common goal of helping municipalities solve water problems.



INSA, Lyon Scientific and Technical University is a State-run higher education institution and an active scientific research center. Each year, more than 800 engineers graduate in 10 different specialized fields. Moreover, thanks to its size and diversity, INSA-Lyon is one of the most important French Institutions of Applied Research. It is the host for the Field Observatory for Urban Water Management (OTHU), which is operated by an association of six different research institutions, in pursuit of an interdisciplinary and robust approach to urban water management.



Created in 1905, the French Scientific and Technical Association for Water and Environment - **ASTEE** - is open to everyone: experts, scientists, technicians, operational actors and Government and local community representatives, involved in the various sectors of environment.

The association speaks out for sustainable development in order to enable inhabitants to enjoy a real quality of life.

Partners

Strategic orientation committee



Partner associations



Supported by



Press partners



Information



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