

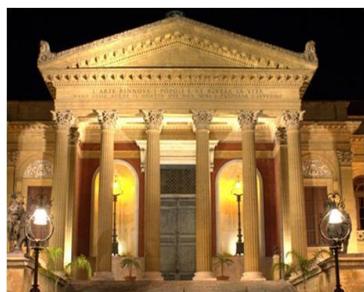
11th International Conference on Urban Drainage Modelling



2nd Announcement
& Call for abstracts

23-26 SEPTEMBER 2018
PALERMO, ITALY

UDM2018 | 23-26 September Palermo, Italy



UNIVERSITÀ
DEGLI STUDI
DI PALERMO



International Association
for Hydro-Environment
Engineering and Research



Supported by
Spain Water and IWHR, China

Invitation

On behalf of the International Working Group on Data and Models of the IWA and IAHR Joint Committee on Urban Drainage, it is a great privilege to host the 11th International Conference on Urban Drainage Modelling (UDM) in Palermo next September 2018. The UDM Conference deals with problems/modelling of quantity (water) and quality (pollution) related to urban areas such as: rainfalls, flooding, sewer processes, wastewater/stormwater treatment, receiving water body and integration of them, socio-economic interactions and modelling tools, etc...).

The conference has been running since 1986 and the 11th edition will be held in 2018, a monumental achievement of the urban drainage community. The UDM conference series started back in 1986 in Dubrovnik, former Yugoslavia, and the second conference edition was organized also in Dubrovnik in 1991. After the first two editions in Dubrovnik, the conference has travelled across the globe to the River Volga (1994), London (1998), Orlando (2001), Dresden (2004), Melbourne (2006), Tokyo (2009), Belgrade (2012) and Québec (2015). In 2018 we will be meeting in Europe once again.

The UDM seeks to create a forum for promoting the discussion among scientists, specialists and academics on urban drainage, thus providing decisive ideas to professionals in this field. We also hope that your participation in the conference in Palermo will give you an opportunity to explore the rest of Italy, to savor its diverse and rich mixture of ethnic traditions, culture, cuisine and religious sites. We look forward to welcoming you in the colorful and vibrant city of Palermo in 2018.



*On behalf of the Organizers
Giorgio Mannina - Chair of the Conference*

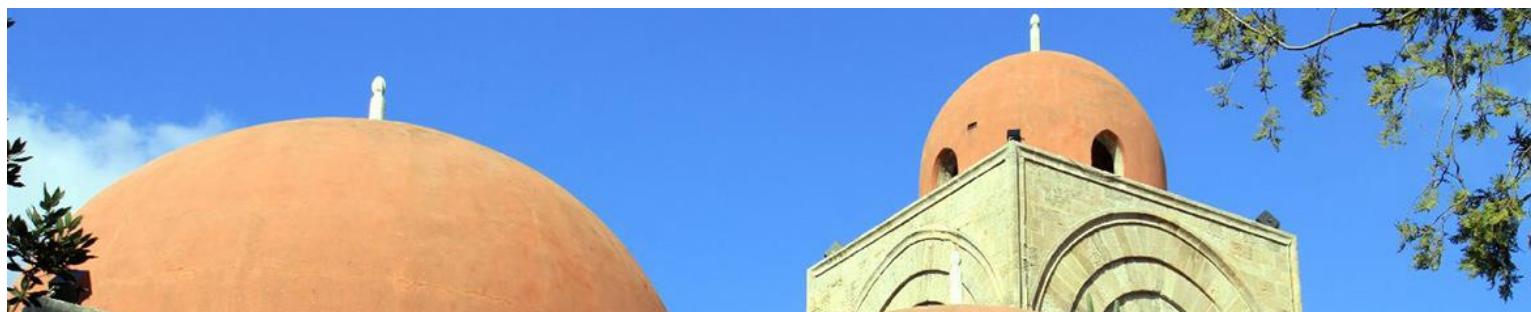
Location of the event

The Conference will be held in a peaceful and amazing location of one of the most attractive cities of Italy – Palermo. Palermo is the capital of the island region of Sicily. It is located in the northwestern part of the island of Sicily, right by the Gulf of Palermo in the Tyrrhenian Sea. Throughout the history, Palermo has always been a place, where different points of view have been presented and discussed in search for balanced and sustainable solutions. Powered by the sea, in the summer, Palermo is an exciting venue. Palermo was declared “the most beautifully situated town in the world” by Oscar Wilde – rightly so, in many peoples’ eyes. The conference will be held in one of the corners of the historical city center, which is among the largest in Europe. Within a walking distance you will find the most famous cultural and architectural attractions.

Conference venue

The opening session will be held at the Aula Magna of the Polytechnic School of Palermo, located on the University of Palermo Campus. The Campus is very close to the city center and can be easily reached; the main entrance to the Campus is just a few meters from the underground station and it can also be reached by the urban bus service. The University of Palermo’s Campus is located within the Park d’Orleans. The park was built in the early nineteenth century as a reserve of the d’Orleans Palace, which currently houses the Presidency of the Sicilian Region. It also serves as an instrumented experimental catchment of 10 ha, with monitoring stations (quality and quantity).

The UDM sessions will be held at the modern Conference building located on the University of Palermo Campus. With 19 meeting rooms, the conference building is an ideal facility for hosting parallel sessions during the UDM.



Conference topics

- ✓ Drainage and impact mitigation (BMP, LID, CSO quality and quantity, etc)
- ✓ Urban hydrologic and hydraulic processes
- ✓ Rainfall in urban areas
- ✓ Tools, techniques and analysis in urban drainage modelling including Real-Time Control
- ✓ Modelling interactions and integrated systems
- ✓ Transport and sewer processes including Micropollutants and pathogens
- ✓ Receiving water quality
- ✓ Frontiers in urban drainage
- ✓ Water management, society and climate change

Attendance instruction

Three main types of participation are welcome: 1. Platform presenters; 2. Poster presenters, and 3. Attendees without presentations. Extended abstracts of papers should be written in English, and prepared according to the template, which can be found on the conference website: www.UDM2018.org

4-page extended abstract (no more and no less in length) should be submitted via [EasyChair web site](#). Extended abstract submissions from highly motivated colleagues are invited and must be received before March 20, 2018. The submitted extended abstracts will be reviewed and the best ones will be selected for oral or poster presentations.

Notification of acceptance will be sent out before June 1, 2018. The selected extended abstracts will be published in the Springer book Green Energy and Technology (indexed in Scopus). The authors of such abstracts will be also invited to prepare and submit (before August 1, 2018) optional full paper, which will be selected for publication in one of the UDM Special issue journals. At least one author of each selected abstract must register for, and attend, the conference to present the paper (this applies to both platform and poster presentations).

IMPORTANT DEADLINES

1 August 2017

First call for extended abstracts

10 October 2017

Extended abstracts submission open

20 January 2018

Second call for extended abstracts

20 March 2018

Deadline for the submission of extended abstracts

1 June 2018

Notification of extended abstract acceptance

20 June 2018

Early bird registration ends

1 July 2018

Deadline for revised extended abstracts submission

1 August 2018

Deadline for full paper submission (on voluntary basis)



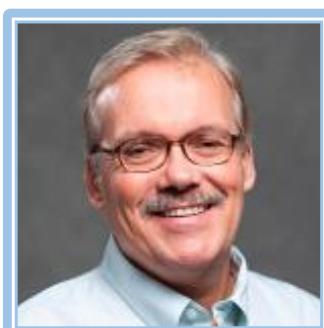
Keynote Speakers

**Prof. Jean-Luc Bertrand-Krajewski, INSA– France****Keynote: Frontiers in water quantity and quality processes in sewer: monitoring and modelling**

Jean-Luc Bertrand-Krajewski is professor at the Civil Engineering and Urban Planning Department at the National Institute for Applied Sciences (INSA) Lyon, France. He is director of Laboratoire Déchets, Eaux, Environnement, Pollutions - Laboratory on Wastes, Water, Environment and Pollution at INSA, Lyon. His main research topics are related to urban hydrology and urban water systems.

**Prof. David Butler, University of Exeter – UK****Keynote: From rainwater harvesting to rainwater management**

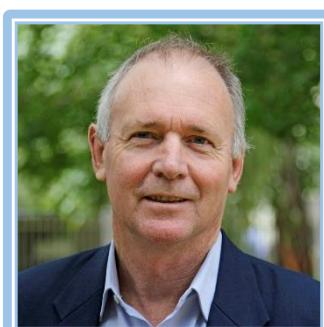
David Butler is professor of Water Engineering at the University of Exeter, UK. He has over 30 years experience as an internationally-leading researcher, teacher and consultant in the water sector. At Exeter, he is a Director of the Centre for Water Systems, formerly Associate Dean for Research in the College of Engineering, Mathematics & Physical Sciences. His main research topics are related to urban water management.

**Prof. Steven Chapra, Tufts University – USA****Keynote: Advances in river water quality modelling: where we come from, where we are, and where we're going?**

Steven Chapra is professor at the Department of Civil and Environmental Engineering, Tufts University. His general research interests focus on surface water-quality modeling and advanced computer applications in environmental engineering. He has developed several environmentally-oriented software packages, including QUAL2K and LAKE2K, which are widely used for river and lake water-quality modeling.

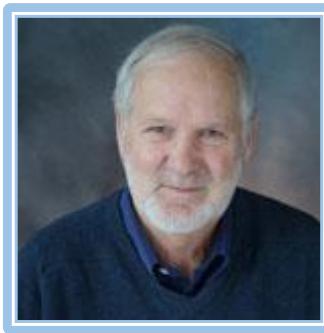
**Prof. Ana Deletic, University of New South Wales - Australia****Keynote: Modelling societal uptake of urban water infrastructure: Can we use socio-technical models for planning of future urban water systems?**

Ana Deletic is professor and Pro Vice-Chancellor at the University of New South Wales, Sydney, Australia. She has played pivotal roles on several state, national and international advisory committees. She received the Victoria Prize for Science and Innovation (Physical Sciences). Her main research topics are related to urban hydrology and urban water systems, field monitoring and metrology.

**Prof. Anthony Jakeman, The Australian National University – Australia****Keynote: Uncertainty in environmental water quality modelling: where do we stand?**

Anthony Jakeman is Professor at The Australian National University and Director of the Integrated Catchment Assessment and Management Centre. His research interests focus on mathematics and hydrological modelling, integrated assessment methods, decision support systems. Jakeman is on the highly cited researcher list by Thomson Reuters (top 1% in Computer Science), 2015. In 2016 he was elected Fellow of the American Geophysical Union.

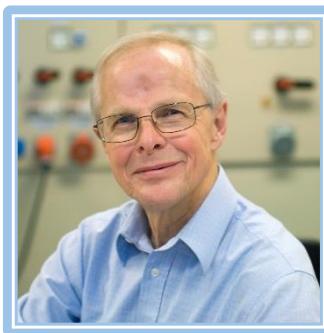
Keynote Speakers



Prof. William James, University of Guelph – Canada

Keynote: Advances in urban stormwater modelling

William James, is Professor Emeritus of Engineering at the University of Guelph and the founding president of CHI, is an internationally recognized authority on stormwater management with over 50 years experience in research, teaching and consulting. He has published 20 books, over 200 technical papers and has presented professional courses throughout Canada, the U.S. and overseas. He has supported SWMM from its earliest distribution, developing the first PC version in 1984.



Prof. Gustaf Olsson, Lund University – Sweden

Keynote: Water and wastewater transport systems from a control perspective

Gustaf Olsson is Professor Emeritus at Lund University, Sweden since 2006. He has devoted his research to control and automation in water systems, electrical power and process industries. He has served in various positions within the International Water Association (Director, Honorary member). He has received the Lund University pedagogical award for “distinguished achievements in the education”. In 2014 he has been appointed Distinguished Fellow of the International Water Association.



Prof. Wolfgang Rauch, University of Innsbruck – Austria

Keynote: Frontiers in integrated urban drainage modelling

Wolfgang Rauch is professor for urban water management at the University Innsbruck. In his research, he has focused on the development and analysis of integrated drainage system models as well as on numerical aspects in model and software development. Wolfgang Rauch is an active member of the international community and served e.g. as chairman of the JCUD and of the IWA Program Committee. He is currently editor in chief of the journal WS&T.



Prof. Peter A. Vanrolleghem, Laval University – Canada

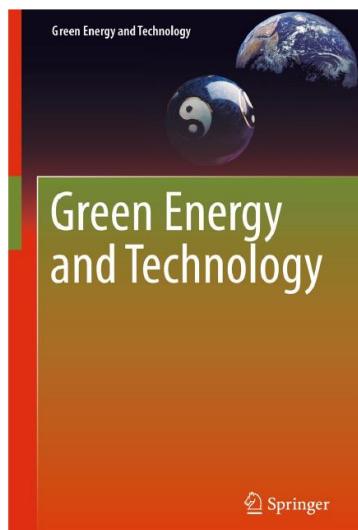
Keynote: Advances in modelling particle transport in urban storm and wastewater systems

Peter Vanrolleghem is full professor at the Civil and Water Engineering Department of Université Laval, Canada. Since 2006 he holds the Canada Research Chair on Water Quality Modelling, allowing him to start up the modelEAU research group at Université Laval in Quebec City, Canada. His research topics focus on modeling, monitoring and control of water systems, using mathematical models to better understand urban wastewater systems.



Conference publications

All accepted extended abstracts will be published by Springer in the monograph series "Green Energy and Technology" **indexed in Scopus!**



Climate change, environmental impact and the limited natural resources urge scientific research and novel technical solutions.

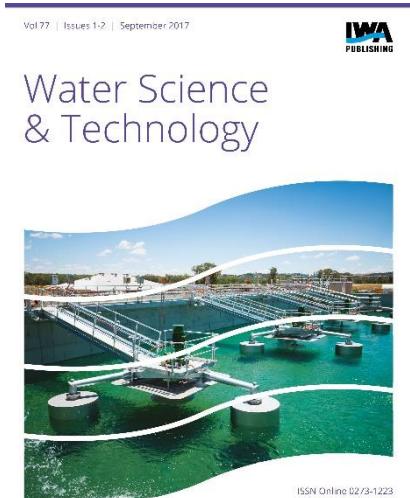
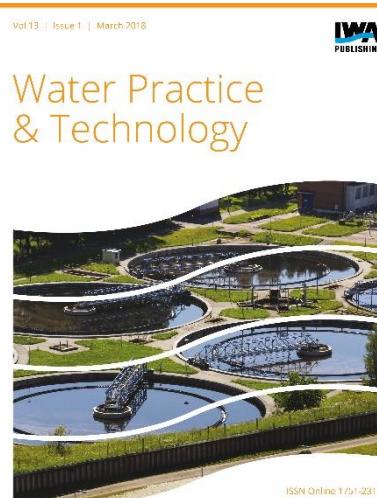
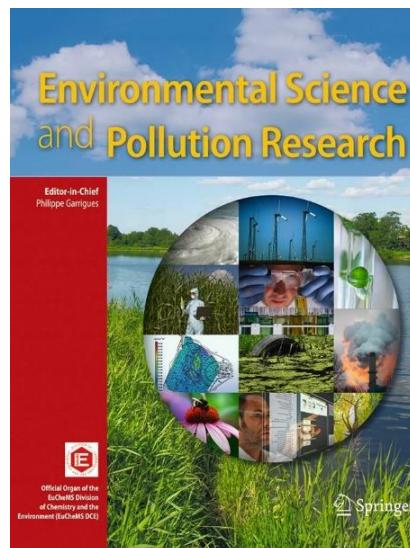
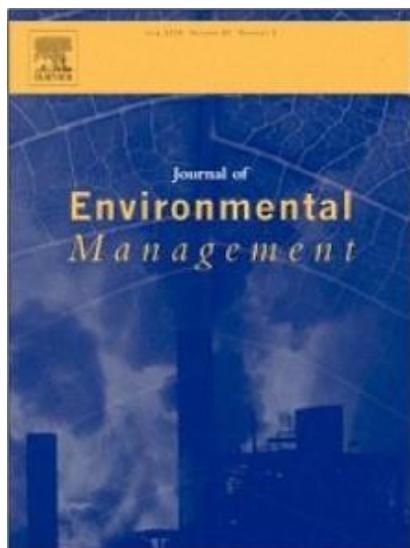
The monograph series Green Energy and Technology serves as a publishing platform for scientific and technological approaches to "green" - i.e. environmentally friendly and sustainable - technologies. While a focus lies on energy and power supply, it also covers "green" solutions in industrial engineering and engineering design. Green Energy and Technology addresses researchers, advanced students, technical consultants as well as decision makers in industries and politics.



Springer.com

Post conference publications

After the peer-review process, the highest quality full papers will be selected for publication in one of the following journals: Journal of Environmental Management, Environmental Science and Pollution Research, Journal of Hydrology, Urban Water Journal, Water Practice and Technology, Water Science and Technology, Water Science and Technology: Water Supply.



Post-conference Course

The 4th Edition of the *Advanced Course on Innovative wastewater treatment processes and mathematical modelling* will be held at Palermo University after UDM2018 conference. The course will provide a comprehensive overview and a discussion platform for recent advances and trends currently under development in the context of wastewater treatment.

Who can/should apply?

This course is aimed at professionals (Master, PhD or equivalent experience) in wastewater treatment and mathematical modelling with a basic working knowledge of the two other disciplines. The course is primarily aimed at those already employed in industry who wish to up-date their theoretical knowledge and practical insight in this field.

Course topics

- ✓ Fundamentals of wastewater treatments
- ✓ Membrane bioreactors: key elements
- ✓ Moving bed biofilm reactors
- ✓ Hybrid biofilm/activated sludge systems (IFAS)
- ✓ Fundamentals of mathematical modelling for wastewater treatment
- ✓ The Activated sludge models (ASM)
- ✓ Calibration, sensitivity analysis and calibration protocols for ASMs
- ✓ Instrumentation, Control and Automation (ICA): fundamentals

4th Edition

Advanced Course on wastewater treatment and modelling

27-30 September 2018, Palermo – IT

Visit the website

<http://treatmentmodellingcourse.unipa.it/>



Date

27-30 September 2018

Location

Università degli Studi di Palermo,
Viale delle Scienze, Building 8

Language

English will be the official language and no translator will be available



Scientific Committee

Giorgio Mannina, Italy – Conference Chair

| | |
|-------------------------------------|--------------------------------|
| Dan Ames, USA | David McCarthy, Australia |
| Karsten Arnbjerg-Nielsen, Denmark | Peter Steen Mikkelsen, Denmark |
| Giuseppe Aronica, Italy | Dirk Mushalla, Austria |
| Richard Ashley, UK | Fumiayuki Nakajima, Japan |
| Simon Beecham, Australia | Patrizia Piro, Italy |
| Vincenzo Belgiorno, Italy | Francesco Pirozzi, Italy |
| Lorenzo Benedetti, Croatia | Wolfgang Rauch, Austria |
| Jean-Luc Bertrand-Krajewski, France | Jorg Rieckermann, Switzerland |
| David Butler, UK | Gilles Rivard, Canada |
| Alberto Campisano, Italy | Juan Pablo Rodriguez, Colombia |
| Pierluigi Claps, Italy | Ignasi Rodriguez-Roda, Spain |
| Francois Clemens, The Netherlands | Takashi Sakakibara, Japan |
| Ana Deletić, Australia | John Sansalone, USA |
| Slobodan Djordjevic, UK | Manfred Schuetze, Germany |
| Thomas Einfalt, Germany | Keshab Sharma, Australia |
| Raymond A. Ferrara, USA | Robert Sitzenfrei, Austria |
| Tim Fletcher, Australia | Virginia Stovin, UK |
| Lothar Fuchs, Germany | Geoff Syme, Australia |
| Haifeng Jia, China | Simon Tait, UK |
| Manfred Kleidorfer, Austria | Soren Thorndahl, Denmark |
| Jeroen Langeveld, The Netherlands | Peter A. Vanrolleghem, Canada |
| Yanchen Liu, China | Gaspare Viviani, Italy |
| Jacek Makinia, Poland | Jes Vollertsen, Denmark |
| Cedo Maksimovic, UK | Patrick Willems, Belgium |
| Jiri Marsalek, Canada | Mariachiara Zanetti, Italy |



Organizing committee

Giorgio Mannina, Chair Italy
 Angela Candela, Italy
 Giovanni B. Ferreri, Italy
 Goffredo La Loggia, Italy
 Enrico Napoli, Italy
 Michele Torregrossa, Italy
 Gaspare Viviani, Italy

CONTACTS

Conference website: www.UDM2018.org
e-mail: 11UDM2018@gmail.com
Phone: + 39 091 238 96 556

REGISTRATION FEES

Early bird (up to 20th June 2018)

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|---|-------|
| Association Member | 595 € |
| Non Association Member | 695 € |
| Students | 395 € |
| Low income country Association Member | 415 € |
| Low income country non Association Member | 485 € |

After 20th June 2018

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|---|-------|
| Association Members | 695 € |
| Non Association Members | 795 € |
| Students | 445 € |
| Low income country Association Member | 475 € |
| Low income country non Association Member | 545 € |

