

ORGANIZING COMMITTEE

Jérôme LOYER, Veolia, Chair of the conference
Paul Henri FAURE, Compagnie Nationale du Rhône
Catherine FREISSINET, Artelia
Florian MAURIS, EDF /DTG
Matthieu MONTFROND, Hydro-Québec
Jean-Michel TANGUY, MEDDE, CGDD.
Anna DUPONT and Brigitte BITON, SHF



PARTNERS



SHF La Société Hydrotechnique de France (S.H.F.), non-profit association founded in 1912, is working at the forefront and crossroad of research and industrial processes, carries out its activities in the

field of water, under various aspects of resources management, everyday use for human needs, energy, agriculture, industry and transport, including environmental impact and the study of natural phenomena related to hydrology, meteorology, flood, low flows and drought; and the more general field of fluid mechanics of all types, industrial applications and hydro machinery.

The association's purpose is to encourage progress in and development of scientific culture and knowledge in all the fields relating to water resources and hydrotechnical sciences. It is a meeting point for exchanges between researchers, engineers, national and local services, industrials, students ... The results of the SHF's work are reflected in the great variety of publications, workshops or conferences organized by the association.

SHF is the publisher of La Houille Blanche, International water journal., a reference for water engineers and researchers since 1902. www.shf-hydro.org / www.shf-lhb.org

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SOCIÉTÉ HYDROTECHNIQUE DE FRANCE

Drones and Hydraulics

Drones at the service of water professionals

3RD ANNOUCEMENT



Paris-Cachan, 8 - 9 April 2015

Centre de recherche ESTP

41-47 rue Marcel Bonnet, 94 Cachan

Sponsored by



www.shf-hydro.org

Contact : b.biton@shf-hydro.org



REGISTRATION

(Early bird rates until March 15th)

Normal: 290 €

Speakers and SHF members :230 €

Students, Unemployed, Retired : 100 €

Registration form and on-line payment:
www.shf-hydro.org



EXHIBITION, POSTERS and SPONSORING

Aside the Scientific conference content, exhibitors are welcome to present their latest news and products. A space will also be dedicated to Posters.

Sponsors are welcome

Contact: b.biton@shf-hydro.org

COMPETITION OF THE BEST PHOTO OF A DRONE IN ACTION in the field of water.

A drone photo contest will be held during the conference. (photo of UAV)

To express your desire to participate:

b.biton@shf-hydro.org before March 25 .

Practical informations are available on the website.
www.shf-hydro.org

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DRONES AND HYDRAULICS, PARIS, APRIL 2015

Presentation

Current measurement and test techniques in the water field are primarily performed at ground level or from space. Mid way between these two, the development and increasing reliability of drones, both aerial and aquatic, allow for the fast mass acquisition of information of all types, global or detailed, visual or digital.

Civil drones are growing in importance, through the number of manufacturers and operators (approximately 350 in France), their technical characteristics and their array of applications. Despite that current applications are largely oriented towards event media coverage, agriculture and industry, applications in the field of hydraulics and aquatic environments are increasingly numerous.

Discussions related to civil drones are mainly concentrated the "platform" or "system" technology, specifically cross-functional themes such as regulation or safety. They focus less on specialized instrumentation. The idea of a conference centered on the hydraulic applications for drones is innovative and unique in its focus on applications.

Furthermore, the different aerial or spatial approaches will be complementary rather than in opposition, given remote sensing. Drones allow for work in multiple spatial and temporal scales, as well as for mixing information of different types.

A real driving force for progress, civil drones allow occasionally inaccessible zones to be visualized, reinforce the safety of interventions and improve the quality of surveillance methods, while also being fast to implement and low cost.

The envisioned conference proposes to highlight this specific contribution from drones, along with its possible impact on scientific and operational progress. It will promote dialogue between industry, researchers, users and administrations on technical, economic and legal issues.

Preliminary program

Wednesday 8 April

9:30. Opening ceremony

10:00. Session 1:

Environment and Hydroecology

River environmental monitoring (grass beds development, phytoplankton blooms in lentic waterbodies, Riparian vegetation, aquatic habitats)

Marine monitoring

12:15. The use of drones in urban hydrology and conclusion of Session 1, by

Bruno Tassin, Directeur de recherche, École des Ponts ParisTech

13:45. Round Table chaired by Jérôme Loyer, Directeur scientifique et innovation, Ginkeo-Véolia
Glance at the Drone sector

with: **Fabien Guillotin**, Direction Générale de l'Aviation Civile, **Stéphane Morelli**, Président de la Fédération Professionnelle du Drone Civil, **Edouard Geffray**, secrétaire général de la Commission nationale de l'informatique et des libertés (CNIL)

15:35. Session 2: Progress in onboard measurement systems

Hydrometry, auscultation by photogrammetry, quality monitoring, comparison and complementary drone/satellites.

17:30. SHF awards ceremony

17:50. Get-together around the Posters and Booths

Thursday 9 April

9:30. Session 3: Asset management of hydraulic facilities : Old drills, dam monitoring, dikes, reservoirs, wastewater; underwater inspections

12:40. Conclusion of Session 3 by

Gilles Feuillade, Directeur Délégué de la Division Production & Ingénierie Hydraulique, EDF

14:15 Session 4: Equipment and Services

14:45. Round Table chaired by

Jean-Michel Tanguy, conseiller du directeur de la Recherche, Ministère de l'écologie, du développement durable et de l'énergie (MEDDE/CGDD)

- **Role of the MEDDE**
- **The point-of-view of stakeholders**, with

Pascal Mialon, attaché au Directeur EDF-DTG, **Flavien Viguier**, Directeur Technique de la Cellule drone SNCF, **Emmanuel de Maistre**, Directeur de RedBird, **Jean-Paul Chaloin**, Veolia, direction Technique Ile-de-France-Centre

16:00: Closing session and

Best Photo Award ceremony

Breaks and lunches will take place beside Posters and Exhibition Stands

Conference Languages: : French and English.
(Without translation)