

PERSONAL INFORMATION **Frédérique LARRARTE**



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Sex Female | Nationality French

Project manager and researcher on fluid dynamics

WORK EXPERIENCE

- 2020 - Senior researcher at Univ. Gustave Eiffel (Marne le Vallée) and associated researcher at the Laboratoire d'Hydraulique St Venant (Chatou)
- 2017 - 2019 Project manager and researcher on hydraulics of free surface flows
 - Involved into the SSHEAR project (<http://sshear.ifsttar.fr/>)
 - Associated researcher at the Laboratoire d'Hydraulique St Venant (Chatou)
 - Member of the Engineering and animation team if the du Pole Mer Bretagne Atlantique (Martime cluster)
- 1997 - 2017 Project manager and researcher on hydraulics of free surface flows
 French Institute of Science and Technology for Transport, Development and Networks (www.ifsttar.fr)
 Geotechnical engineering, Environment, Natural hazards and Earth sciences Department
 Water and Environment Laboratory
 Allée des Ponts et Chaussées, CS 5004, 44 344 Bouguenais cedex.
 Coordination of research projects, team leader, supervision of young scientists and technical staff, fluid dynamics, in situ measurements, prototype development CFD
- 1995 - 1996 Science and Technology Post Doctoral Fellow in Fluid Mechanics
 Ship Research Institute (NMRI, http://www.nmri.go.jp/index_e.html), Mitaka, Tokyo, Japan
 Naval hydrodynamics, viscous drag reduction, towing tank experiments, CFD
- 1994 - 1995 Post Doctoral Researcher in Fluid Mechanics
 Ecole Nationale Supérieure de Technique Avancées (<https://www.ensta-paristech.fr/en>), Palaiseau, France
 Cavitation, experiments, image analysis
- 1990 -1994 Junior Researcher in Fluid Dynamics
 Ecole Centrale de Nantes (<https://www.ec-nantes.fr/>), France
 Naval hydrodynamics, wave drag reduction, towing tank experiments, CFD

EDUCATION AND TRAINING

- 2017 Continuous professional training « MRE Referee »
 - Geotechnics (21 hours)
 - Hydrodynamics (14 hours)
 - Maritime areas : a share space ! (7 hours)
 - Maritime area and MRE (7 hours)
 - State of the art (14 hours)

2016	<ul style="list-style-type: none"> • Continuous professional training «hydraulics and societies » (15 hours) • Continuous professional training « Risks and coastal societies) », (15 hours) • Continuous professional training « Press and climate change », (15 hours) • Continuous professional training « Elementary electric degree » (14 hours). 	
2006	Habilitation à Diriger des Recherches Université de Caen	ISCED 8
1994	Doctorat (Ph. D degree) - Ecole Centrale de Nantes & University of Nantes	ISCED 8
1989	Maîtrise (master 1) of mechanics – University of Bordeaux	ISCED 6-7

PERSONAL SKILLS

Mother tongue(s) French

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
Spanish	B1	B2	B1	B1	B1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills (see Appendix)

- Coordination of multidisciplinary projects,
- Team leader,
- Supervisor of in situ experiments involving young scientists, technical staff, city authority technical staff

Scientific and technical skills

- Fluid mechanics
- Hydraulics of free surface flows
- Experiments,
- Member of the hydrometric standards committee,

Productions (see Appendix)

- Prototypes development
- papers in Web of Sciences journals
- papers in professional journals
- communications in international congress

ADDITIONAL INFORMATION

Driving licence

- Full car driving licence (French)
- Leisure boat driving licences

Loisirs

- Sailing, rowing,
- reading

References

Pr. Hubert CHANSON
School of Civil Engineering, The University of Queensland, Brisbane QLD 4072, Australia;
h.chanson@uq.edu.au

Eric GAUME
Directeur du Département Géotechnique, environnement, risques naturels et sciences de la terre
Université Gustave Eiffel – Campus de Nantes, CS4, 44344 Bouguenais cedex, France ;
eric.gaume@ifsttar.fr

Appendix 1 – Management of projects

- 2015 - 2019 : co animation of the work package 3 of the SSHEAR project (French National Research Agency 2014) – 6 partners – 4352 k€. The main objective of SSHEAR (Soils, Structures and Hydraulics: Expertise and Applied Research) is The main objective of the SSHEAR project is to improve understanding of scouring process through the use of innovative observation tools and physical and numerical hydraulic modeling, from laboratory to full-scale, for the purpose of optimizing methods specific to diagnostics, advanced warning and general management procedures (<http://sshear.ifsstar.fr/>).
- 2012 - 2017: Management of the MENTOR project (French National Research Agency Ecotech 2011), 10 partners, 2900 k€. The main objective of MENTOR (MEasurement sites conception method for sewer NeTwORks.) consists to propose a methodology for the design and the audit of discharge and particulate pollutant loads measurement sites in sewer systems. Additional information can be downloaded on [http://wikhydro.developpement-durable.gouv.fr/index.php/Autosurveillance_et_diagnostic_en_r%C3%A9seau_d%27assainissement - Projet MENTOR](http://wikhydro.developpement-durable.gouv.fr/index.php/Autosurveillance_et_diagnostic_en_r%C3%A9seau_d%27assainissement_-_Projet_MENTOR) .This project takes benefit of the COACHS project.
- 2010 – 2014 : Management of the COACHS project (French Ministry of Sustainable Development – C2D2 program 2009), 4 partners, 400 k€. The COACHS (COmputations and their Applications in Channel Hydraulics for Sewers) project has provided operational tools for data processing and use. The 4 technical guides and additional information can be downloaded on [http://wikhydro.developpement-durable.gouv.fr/index.php/Autosurveillance_et_diagnostic_en_r%C3%A9seau_d%27assainissement - _Projet_MENTOR](http://wikhydro.developpement-durable.gouv.fr/index.php/Autosurveillance_et_diagnostic_en_r%C3%A9seau_d%27assainissement_-_Projet_MENTOR).
- 2010 – 2011 : Management of the Sonar project (Institut Carnot Vitres - 2009) for using a sonar to study the solids settled at the invert of sewer channels.
- 2009 – 2012 : Management of the SER (Sédiment en Réseau) project. This project aimed at improving our knowledge on sediment dynamics within sewers, the main results are being published, additional information can be downloaded on: <http://actions-incitatives.ifsstar.fr/seminaires/jee/2013/>.

Appendix 2 : Main productions

Appendix 2.1 - Prototypes development.

- **Continuous monitoring of sediment height** : we developed a device (named Furrina) aiming at continuously recording the deposit level in a sewer. I contributed and coordinated the definition and choice of the technical performances and constraints, I supervised the building, and I have used the prototype during in-situ experiments.
- **2D samplers** : we developed one two dimensional samplers of the velocity field (named Cerbères), one of the suspended solids field (named Orphée), one of both fields (named Hydre). Those samplers have been used to establish velocity and suspended solids maps within sewers and to investigate the influence of the meteorological context (dry or rain weather), the influence of the compound section on the fields. I have coordinated the definition and choice of the technical performances and constraints, I have supervised the buildings, and we have used those prototypes during in-situ experiments.

Appendix 2.2 : Chapter.

- CH 1. [Larrarte F., Lepot M., Clemens-Meyer F., Bertrand-Krajewski J.-L., Ivetic D., Prodanovic D., Stegeman B., \(2021\), Chapter 3: Water level and discharge measurements](#). In Metrology in Urban Drainage and Stormwater Management: Plug and Pray , IWA publishing, doi :10.2166/9781789060119_0035, <https://iwaponline.com/ebooks/book/835/Metrology-in-Urban-Drainage-and-Stormwater>.

Appendix 2.3 : papers in academic journals.

- RI 1. Chevalier, C., Larrarte, F., (2022), Real time instability of flow close to a scour affected abutment. Environ Fluid Mech (2022). <https://doi.org/10.1007/s10652-022-09842-9>
- RI 2. Durand A, Mehel A., Fokoua G. Murzyn F., Puech S., Larrarte F, (2021) Numerical and experimental investigations on brake particle dispersion in the flow generated by a train in an underground station, Atmospheric Pollution Research 12 (2021) 101189, doi:10.1016/j.apr.2021.101189
- RI 3. M. Oukacine, S. Proust, F. Larrarte, N. Goutal, (2021), Experimental flows through an array of emerged or slightly submerged square cylinders over a rough bed. Scientific Data , Nature Publishing Group, 2021, 8 (1), doi:10.1038/s41597-020-00791-w
- RI 4. F. Larrarte, C. Chevalier, L. Battist, H. Chollet, (2020), Hydraulics and bridges : a French case study of monitoring of a bridge affected by scour, Flow Measurement and Instrumentation 74, . DOI: 10.1016/j.flowmeasinst.2020.1017.83
- RI 5. M. Le Vern, O. Sediki, A; Razakamanantsoa, F. Murzyn, F. Larrarte, (2020), Experimental assessment of dust emissions on compacted soils degraded by traffic, 369Atmosphere 2020, 11, 369; doi:10.3390/atmos11040369

- RI 6. M. Le Vern, O. Sediki, A; Razakamanantsoa, F. Murzyn, F. Larrarte, (2020), Experimental study of particle lift initiation on roller compacted sand-clay mixtures, *Environmental Geotechnics*, *Environmental Geotechnics* XXXX(XXXX): 1–XX, <https://doi.org/10.1680/jenge.19.00172>
- RI 7. R. Rodriguez, F. Murzyn, A. Mehel, F. Larrarte, (2020), Dispersion of ultrafine particles in the wake of car models: a wind tunnel study, *Journal of Wind Engineering & Industrial Aerodynamics* 198 (2020) 104109, [/doi.org/10.1016/j.jweia.2020.104109](https://doi.org/10.1016/j.jweia.2020.104109)
- RI 8. F. Murzyn, G. Fokoua, R. Rodriguez, C. Shen, F. Larrarte, A. Mehel, (2020), Car Wake Flows and Ultrafine Particle Dispersion: From Experiments to Modelling, *Atmosphere* 2020, 11, 39; [doi:10.3390/atmos11010039](https://doi.org/10.3390/atmos11010039)
- RI 9. A. El Bahlouli, F. Larrarte, (2018), Proposal for improving discharge quantification in urban drainage, *Flow Measurement and Instrumentation* 60, 51–56, DOI: 10.1016/j.flowmeasinst.2018.02.014
- RI 10. R. Rodriguez, F. Murzyn, J. Aubry, A. Mehel, F. Larrarte, (2018), An innovative LDV data processing method for statistical error corrections. Application to homogeneous and non-homogeneous seeding, *Flow Measurement and Instrumentation* 60, 67–77, DOI: 10.1016/j.flowmeasinst.2018.02.011
- RI 11. A Belleville, G. Pierrefeu, J. Le Coz, F. Larrarte, P. Marchand, M. Pinatton, B. Augéard, P.-M. Bechon, D. Besson, P. Chisne, G. Dramais, C. Josserand, S. Poligot-Pitsch, R. Puechberty, (2017), Hydrometry and standardization, *La Houille Blanche*, n° 6, 60-69, □DOI: 10.1051/lhb/2017059
- RI 12. F. Larrarte, M. Dufresne, E Mignot, G Lipeme Kouyi, N Rivière, J Vazquez, C Joannis, (2017), Flow measurement and computational fluid dynamics: contribution to the assessment and control of uncertainties on mean velocity measurement, *La Houille Blanche*, n° 6, 70-77, DOI: 10.1051/lhb/2017060
- RI 13. I. Carnacina, F. Larrarte, N. Leonardi, (2017), Acoustic measurement and morphological features of organic sediment deposits in combined sewer networks, *Water Research* 112, 279-290, DOI: 10.1016/j.watres.2017.01.050
- RI 14. F. Larrarte, N. Hemmerlé, L. Lebouc, B. Riochet, (2017), Additional elements regarding the muddy layer in combined sewers, *Urban Water Journal*, Vol. 14, No . 8, DOI: 10.1080/1573062X.2017.1325499
- RI 15. F. Larrarte, E. Szturycz, L. Lebouc, B. Riochet, (2016), New technique for continuous monitoring of sediment height, *Flow Measurement and Instrumentation*, Volume 49, June, 40-45, DOI: 10.1016/j.flowmeasinst.2016.04.005
- RI 16. F. Larrarte, (2015), Velocity and suspended solids distributions in an oval-shaped channel with a side bank, *Urban Water Journal*, Volume 12, Issue 2, February, 165-173, DOI: 10.1080/1573062X.2013.871043
- RI 17. I. Carnacina, F. Larrarte, (2014), Coupling acoustic devices for monitoring combined sewer network sediment deposits, *Water Science & Technology* Volume 69, Issue 8, 1653–1660, DOI: 10.2166/wst.2014.064
- RI 18. L. Lassabatere, J. H. Pu, H. Bonakdari, C. Joannis, F. Larrarte, (2013), Velocity Distribution in Open Channel Flows: An Analytical Approach for the Outer Region, *Journal of Hydraulic Engineering*, Volume 139, Issue 1, 37-43, DOI: 10.1061/(ASCE)HY.1943-7900.0000609
- RI 19. F. Larrarte, P. François, (2012), Attenuation of an ultrasonic beam by suspended particles and range of acoustic flow meters in sewer networks, *Water Science & Technology*, Volume 65, Issue 3, 478-483, DOI: 10.2166/wst.2012.873
- RI 20. F. Larrarte, M.-N. Pons, (2011), Suspended solids concentration in wastewater: Influence of sampling conditions, *Urban Water Journal*, Volume 8, Issue 6, 397–404, DOI: 10.1080/1573062X.2011.630094
- RI 21. E. Le Barbu, F. Larrarte, (2010), Acoustic profilers and urban pollutant fluxes, *European Journal of Environmental and Civil Engineering*, Volume 14, Issue 5, 637-651, DOI: 10.3166/EJECE.14.637-651
- RI 22. J. H. Pu, H. Bonakdari, L. Lassabatère, C. Joannis, F. Larrarte, (2010), Turbulent velocity profiles : a new law for narrow channels, *La Houille Blanche*, Issue 3, 65-70, DOI: 10.1051/lhb/2010036
- RI 23. J. Le Coz, F. Larrarte, G. SAYSSET, G. Pierrefeu, J.-F. Brochot, P. Marchand, (2009), Hydrological measurements by Doppler profiling (aDcp) in France : application to streams and urban networks , *La Houille Blanche*, Issue 3, 115-122, DOI: 10.1051/lhb/2009035
- RI 24. F. Larrarte, J-B. Bardiaux, P. Battaglia, C. Joannis, (2008), Acoustic Doppler flow-meters : a proposal to characterize their technical parameters, *Flow Measurement and Instrumentation*; Volume 19, Issue 5, 261-267, DOI: 10.1016/j.flowmeasinst.2008.01.001
- RI 25. F. Larrarte, (2008), Suspended solids within sewers : an experimental study, *Environmental Fluid Mechanics*, Volume 8, Number 3 / juin, 249-261, DOI: 10.1007/s10652-008-9073-8
- RI 26. H. Bonakdari, F. Larrarte, L. Lassabatere, C. Joannis, (2008), Turbulent velocity profile in fully-developed open channel flows, *Environmental Fluid Mechanics*, Volume 8, Issue 1, 1-17, DOI: 10.1007/s10652-007-9051-6
- RI 27. H. Bonakdari, F. Larrarte, C. Joannis, D. Levacher, (2008), Velocity field and shear stress in a sewer , *La Houille Blanche*, Issue 3, 20-25, DOI: 10.1051/lhb:2008022
- RI 28. H. Bonakdari, F. Larrarte, C. Joannis, (2008), Study of the shear stress in narrow channels : application to sewers, *Urban Water Journal*, Volume 5 Issue 1, 15-20, DOI: 10.1080/15730620701726275

- RI 29. F. Larrarte, (2006), Velocity fields in sewers : an experimental study, *Flow Measurement and Instrumentation*, Volume 17, Issue 5, 282–290, DOI: 10.1016/j.flowmeasinst.2006.08.001
- RI 30. V. Ruban, F. Larrarte, M. Berthier, L. Favreau, Y. Sauvourel, L. Letellier, M.-L. Mosisni and G. Raimbault, (2005), Quantitative and qualitative hydrologic balance for a suburban watershed with a separate sewer system (Nantes, France), *Water Science & Technology*, Volume 51, Issue 2, 231–238.
- RI 31. P. Jaumouillié, F. Larrarte, V. Milisic, (2002), Numerical and experimental investigations of the pollutant distribution in sewers, *Water Science & Technology*, Volume 45, Issue 7, 83–93.
- RI 32. F. Larrarte, J.P. Legendre, Y. Sauvourel, F. Gomin, R. Simon, G. Yviquel, C. Noel, (2001), Doppler velocimetry : implementation of a testing procedure in laboratory and in situ observations, *Houille Blanche*, Issue 5, 67-74, DOI: 10.1051/lhb/2001059
- RI 33. T.M. Pham, F. Larrarte, D.H. Fruman, (1999), Investigation of unsteady sheet cavitation and cloud cavitation mechanism, *Journal of Fluid Engineering*, Volume 121, Issue 2, 289-296, DOI: 10.1115/1.2822206

Appendix 2.3 : Papers in professional journals.

- RP 1. A. El Bahlouli, E. Mignot, F. Denis, N. Riviere, A. Dalmon, G. Lipeme Kouyi, C. Joannis, F. Larrarte, (2017), Fiabilité de la mesure de vitesse débitante à l'aval d'une singularité en réseau d'assainissement, *Techniques sciences méthodes, génie urbain génie rural TSM* 2017 :1/2, 26-40.
- RP 2. F. Larrarte, S. Vareilles, M. Dufresne, N. Riviere, M.N. Pons, G. Lipeme Kouyi, C. Joannis, R. Claverie, G. Chebbo, B. Riochet, K. Wouter Wasiak, R. Visiedo, (2015), MENTOR ou une méthodologie et des outils opérationnels de conception et de qualification de sites de mesures en réseau d'assainissement, *TSM*, N°5, 5, 49–65
- RP 3. F. Larrarte, H. Bonakdari, C. Joannis, (2010), Qualification et conception de sites de mesures débitométriques en réseaux d'assainissement, *Bulletin des Laboratoires des Ponts et Chaussées*, N°. 277, 31-41.
- RP 4. H. Bonakdari, F. Larrarte, C. Joannis, D. Levacher, (2008), Méthodologie de qualification de site de mesures en réseau d'assainissement - Application à la débitmétrie en collecteur d'assainissement, *Bulletin des Laboratoires des Ponts et Chaussées*, N° 272, 9-19.
- RP 5. F. Larrarte, L.-M. Cottineau, (2008), Le projet Hydre : échantillonnage 2D des vitesses et des concentrations en collecteur d'assainissement, *Bulletin des Laboratoires des Ponts et Chaussées*, N°. 272, 21-32.
- RP 6. F. Larrarte, H. Bonakdari, C. Joannis, D. Levacher, (2007), Effets d'une déviation sur les champs de vitesses en réseaux d'assainissement, *TSM. Techniques sciences méthodes, génie urbain génie rural*, N° 11, 43 – 50.
- RP 7. H. Bonakdari, F. Larrarte, C. Joannis, (2007), Coude et champs de vitesse en réseaux d'assainissement, *Revue Européenne de Génie Civil*, Vol. 11 – N°4/ 2007, 507-519.
- RP 8. H. Bonakdari, F. Larrarte, J.-B. Bardiaux, (2007), Experimental and computational study of velocity fields in narrow or compound section sewers, *Water Practice & Technology*, Vol. 2, n°2, <http://www.iwaponline.com/wpt/002/02/default.htm>.
- RP 9. F. Larrarte, J-B Bardiaux, Ph Battaglia, C. Joannis, (2006), Vélocimétrie Doppler : mise au point d'un protocole d'essai en laboratoire, *TSM. Techniques sciences méthodes, génie urbain génie rural* N° 6, 58 – 65.
- RP 10. F. Larrarte, L.-M. Cottineau, (2005), Nouveaux instruments pour connaître les champs de vitesses et de concentrations, *Revue Européenne de Génie Civil*, Vol. 9/7-8 – 2005, 963-978.
- RP 11. F. Larrarte, J.F. Sini, J-P Legendre, Y. Sauvourel, (2000), Champs de vitesses et de concentrations en matières en suspension dans les réseaux d'assainissement : approches expérimentales et numériques, *Bulletin des Laboratoires des Ponts et Chaussées*, N°. 226, 75-87.
- RP 12. F. Larrarte, Y. Kodama, (1997), Trajectory of bubbles under a ship hull and scale effects, *Journal of the Kansai Society of Naval Architects of Japan*, N° 228, September, 1-6.

Appendix 2.4 : International congresses.

- CI 1. B. Bolon, C. Prétot, C. Clanet, F. Larrarte, R. Carmigniani, (2021), Drafting of two swimmers, *Conference sport physics 2021*, ENS Lyon, 6_8 December 2021
- CI 2. C. Chevalier; F. Larrarte; F. Schmidt; H. Chollet; E. Durand; D. Pham Van Bang; A. Bontemps; P. Sergent; P. Gondret; C. Morize; S. De La Roque; M. Cheetham, (2021), A review of Soils, Structures and Hydraulics: Expertise and Applied Research (SSHEAR) project, 10th International Conference on Scour and Erosion, 18-21 octobre, virtual.

- CI 3. A. Doumic, F. Larrarte, R. Rtimi, N. Gouta, (2021), Investigation of the hydraulics in flooded housing estate, SimHydro 2021: Models for complex and global water issues - Practices and expectations, 16-18 June 2021, Sophia Antipolis
- CI 4. M. Le Vern, O. Sediki 1, A. Razakamanantsoa, F. Murzyn, F. Larrarte, P. Insenga, P. Gotteland, (2021), Development of a model to quantify dust emissions from truck traffic on earthmoving sites: approach and preliminary results, Geo-Environmental Engineering GEE2021 ESITC-UniCaen, Caen, France, May 20-21, 2021
- CI 5. M. Le Vern, A. Razakamanantsoa, F. Murzyn, F. Larrarte, V. Cerezo, (2021), Study on a test track of dust resuspension induced by a vehicle, 23rd Transport and Air Pollution Conference, Graz, 30 mars au 1 avril 2021.
- CI 6. M. Oukacine, R. Rtimi, N. Goutal, V. Loizeau, S. Benhamadouche, S. Proust, F. Larrarte, (2020), Large Eddy Simulation for flows through emerged or slightly submerged square cylinders, River Flow 2020, Delft, 7-10 juillet
- CI 7. M. Cheetham C. Chevalier, F. Larrarte, F. Schmidt, E. Durand, P. Sergent, P. Gondret, S. De La Roque, Soils, Structures and Hydraulics: Expertise and Applied Research (SSHEAR) Project, 12th World Congress On Railway Research, Tokyo (Japon), October 28 To November 1 2019.
- CI 8. A. Durand, A. Mehel, F. Murzyn, S. Puech, F. Larrarte, Cfd Study Of Dispersion Of Particles Generated By Mechanical Braking: Application To Trains In Underground Stations, 12th World Congress On Railway Research, Tokyo (Japon), October 28 To November 1 2019.
- CI 9. F. Larrarte, F. Schmidt, E. Durand, A. Bontemps, Y. Della Longa, M., S. de la Roque – Cofiroute, M. Hosseingholian, C. Chevalier, (2019) A French experience of Structural Health Monitoring of scour affecting river infrastructures., Smart Rivers 2019, Lyon, September 30 - October 3, 2019.
- CI 10. F. Larrarte, H. Chollet, L. Battist, Y. Della Longa, C. Chevalier, (2019) A French Experience of Continuous Scour Monitoring on a Real Site, 38th IAHR World congress, Panama, 1-6 september.
- CI 11. F. Larrarte, F. Schmidt, N. Boujia, V. Vidal, A. Bontemps, S. de la Roque, C. Chevalier (2019), Some Elements About Scale Effect on Scour Studies, 38th IAHR World congress, Panama, 1-6 september.
- CI 12. R. Rodriguez, F. Murzyn, A. Méhel, F. Larrarte, (2019), Ultrafine particle dispersion in the wake of a squareback vehicle model, 23rd Transport and Air Pollution Conference, Thessaloniki, 15 au 17 mai 2019
- CI 13. A. Durand, A. Mehel, F. Murzyn, S. Puech, F. Larrarte, (2019), Numerical study of particle dispersion emitted from train brakes in underground station, 23rd Transport and Air Pollution Conference, Thessaloniki, 15 au 17 mai 2019
- CI 14. C. Chevalier, F. Larrarte, F. Schmidt, E. Durand, P. Sergent, P. Gondret, S. de la Roque, M. Cheetham, M. Hosseingholian, (2018), Research program SSHEAR: Recent advances on the understanding and the control of scour phenomena, 9th International Conference on Scour and Erosion, 5 au 8 novembre 2018, Taipei, Taiwan
- CI 15. E. Florens, C. Chevalier, F. Larrarte, F. Schmidt, E. Durand, (2018), Scour monitoring on bridge pier—methodology and implementations, 9th International Conference on Scour and Erosion, 5 au 8 novembre 2018, Taipei, Taiwan
- CI 16. E. Florens C. Chevalier, F. Larrarte, F. Schmidt, E. Durand (2018), Scour monitoring on bridge pier – methodology and implementation, River Flow 2018, 5 au 8 Septembre 2018, Lyon (France).
- CI 17. C. Chevalier, F. Larrarte, F. Schmidt, D. Pham-Van-Bang, E. Durand, P. Gondret, S. De La Roque, M. Cheetham, M. Hosseingholian, (2017), Compréhension et maîtrise des risques d'affouillements: développements récents (Understanding and control of scour phenomena: recent advances), 3rd International Symposium GEORAIL 2017, 23 et 24 novembre 2017, Marne-La-Vallée (France).
- CI 18. C. Chevalier, F. Larrarte, F. Schmidt, D. Pham-Van-Bang, E. Durand, P. Gondret, S. de la Roque, M. Cheetham, M. Hosseingholian, (2017), Compréhension et maîtrise des risques d'affouillements : développements récents (Understanding and control of scour phenomena: recent advances), 19th International Conference on Soil Mechanics and Geotechnical Engineering, 17 au 21 sept. 2017, Seoul.
- CI 19. F. Larrarte, C. Chevalier, O. Ndoye, E. Durand, D. Pham-Van-Bang, S. de La Roque, (2016), Scour and solid transport on civil engineering structures – a field study, proceedings of THESIS 2016, Two-Phase Modelling For Sediment Dynamics In Geophysical Flows, Tokyo Japan, September 12-14, 2016
- CI 20. J.J. Randrianarimanana, L. Lebouc, E. Szturyz, F. Larrarte, (2015), Experimental study of the velocity and suspended solids distribution in wastewater system, E-proceedings of the 36th IAHR World Congress, 28 June – 3 July, 2015, The Hague, the Netherlands.
- CI 21. J.J. Randrianarimanana, X. France, F. Larrarte, L. Lebouc, D. Mabilais, P. Augris, M.N. Pons, (2014), Fate of biofilm in sewer and wastewater flowrate entropy, IWA World Water Congress, 21-26 september, Lisbon.
- CI 22. N. Hemmerle, J.J. Randrianarimanana, C. Joannis F. Larrarte, (2014), Hydraulics and deposit evolution in sewers, 9th International Symposium on Ultrasonic Doppler Methods for Fluid Mechanics and Fluid Engineering, 27-29 August, Strasbourg.
- CI 23. N. Hemmerle, C. Joannis, F. Larrarte, (2013), Does lutocline exist in sewers ?, 16th International Conference Transport and Sedimentation of Solid Particles, Rostock, Septembre 2013

- CI 24. F. Larrarte, S. Vareilles, M. Dufresne, N. Rivière, M.N. Pons, G. Lipeme Kouyi, C. Joannis, R. Claverie, G. Chebbo, B. Riochet, K. Wouter Wasiak, R. Visiedo, (2013), MENTOR or how to qualify measurement sites in sewer systems, accepted for 11th IWA conference on instrumentation control and automation, 18-20 September 2013, Narbonne, France
- CI 25. I. Carnacina, F. Larrarte, (2013), Coupling acoustic devices to monitor combined sewer networks sediment deposits, 7th International Conference on Sewer Processes & Networks, 28 - 30 August 2013, Sheffield, 425-432.
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- CI 32. A. Jerez, C. Chevalier, F. Larrarte, (2012), Erosion measurement on immersed situations: a state of the art, 6th International Conference on Scour and Erosion, Paris - August 27-31, 2012
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- CI 48. H. Bonakdari, F. Larrarte, (2006), Experimental and numerical study of the shear stress in narrow compound channel, Conference on Turbulence and Interactions, 29 May – 2 juin, Porquerolles, actes sur CD.
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- CI 64. F. Larrarte, O. Boumatar, C. Joannis, (2001), Development of a testing procedure of the acoustic Doppler flowmeters, Novatech 2001, 4th International Conference on Innovative Technologies in Urban Storm Drainage, Lyon, Lyon, 187-194.
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- CI 66. F. Larrarte, P. Labbé, (2000), Field investigation of flow velocities in sewers, 1st World Congress at the International Water Association, Paris, 3-7 July 2000.
- CI 67. T.M. Pham, F. Larrarte, D.H. Fruman, (1998), Investigation of unstable cloud cavitation., 3rd Symposium on Cavitation, April 1998, Grenoble
- CI 68. F. Larrarte, A. Pauchet, P. Bousquet, D.H. Fruman, (1995), On the morphology of natural and ventilated cavities., Cavitation and Multiphase Flow Forum, ASME - FED, Hilton Head Island.

Appendix 2.5 : National congresses.

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- CN 2. C. Chevalier, F. Larrarte, F. Schmidt, D. Pham-Van-Bang, E. Durand, P. Gondret, S. De La Roque, M. Cheetham, M. Hosseingholian, (2018), Projet ANR SSHEAR : développements récents sur la compréhension et la maîtrise des risques d'affouillements, Journées Nationales de Géotechnique et de Géologie de l'Ingénieur – Champs-sur-Marne 2018
- CN 3. R. Rodriguez, F. Murzyn, A. Mehel, F. Larrarte, (2017), Experimental study of the wake flow behind three road vehicle models, 23ème Congrès Français de Mécanique, Lille, 28 au 1er Septembre 2017.
- CN 4. A Belleville, G. Pierrefeu, J. Le Coz, F. Larrarte, P. Marchand, M. Pinatton, B. Augeard, P.-M. Bechon, D. Besson, P. Chisne, G. Dramais, C. Josserand, S. Poligot-Pitsch, R. Puechberty, (2017), Hydrométrie et normalisation, Congrès SHF : «Hydrométrie 2017, Lyon 14-15 mars 2017.
- CN 5. F. Larrarte, M. Dufresne, E Mignot, G Lipeme Kouyi, N Rivière, J Vazquez, C Joannis, (2017), Débitmétrie et mécanique des fluides numérique : contribution à l'évaluation et à la réduction des incertitudes des mesures de vitesse moyenne., Congrès SHF : «Hydrométrie 2017, Lyon 14-15 mars 2017.
- CN 6. F. Larrarte, S. Vareilles, M. Dufresnes, N. Rivière, M.N. Pons, G. Lipeme Kouyi, C. Joannis, R. Claverie, G. Chebbo, B. Riochet, K. Wouter Wasiak, R. Visiedo, L. Sollic, (2013), MENTOR ou une méthodologie et des outils opérationnels de conception et de qualification de sites de mesures en réseau d'assainissement, 92ème Congrès de l'ASTEE, Nantes, 4-7 juin.
- CN 7. F. Larrarte, M.-N. Pons, B. Riochet, (2013), Biofilms en réseau d'assainissement, 92ème Congrès de l'ASTEE, Nantes, 4-7 juin.
- CN 8. L. Gourmelen, L.-M. Cottineau, F. Larrarte, (2010) Développement d'un dispositif de mesure en continu de la hauteur de sédiments, Journées Génie Civil Génie Côtier, Les Sables d'Olonnes, Juin 2010, 477-484.
- CN 9. E. Le Barbu, F. Larrarte, (2010), Profileurs acoustiques : un nouveau pas vers la connaissance des flux de polluants en assainissement urbain, Journées Génie Civil Génie Côtier, Les Sables d'Olonnes, Juin 2010, 513-520.
- CN 10. F. Larrarte, E. Le Barbu, (2009), Profileurs acoustiques : un nouveau pas vers la connaissance des flux de polluants en assainissement urbain, XXVèmes Rencontres Universitaires de Génie Civil 2009 – Saint Malo 3-5 juin, actes sur CD, 19 .
- CN 11. J. Le Coz, F. Larrarte, G. Sayssset, G. Pierrefeu, (2008), Mesures hydrologiques par profileur à effet Doppler (aDcp) en France : application aux cours d'eau et aux réseaux urbains, SHF : «Mesures hydrologiques et incertitudes», Paris, 1-2 avril 2008.
- CN 12. H. Bonakdari, F. Larrarte, C. Joannis, D. Levacher, (2007), Une méthodologie d'aide à l'implantation de débitmètres en réseaux d'assainissement, XXVIèmes Rencontres Universitaires de Génie Civil 2007 - Bordeaux 23-25 mai, actes sur CD.
- CN 13. H. Bonakdari, F. Larrarte, C. Joannis, (2007), Profils de vitesses dans les couches limites turbulentes, Journées de l'Hydrodynamique, Brest, 215-227. .
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- CN 15. F. Larrarte, H. Bonakdari, C. Joannis, D. Levacher, (2006), Effets d'une déviation sur les champs de vitesses en réseaux d'assainissement, 2èmes Journées des Doctorants en hydrologie urbaine, Nantes, 17-18 octobre 2006.
- CN 16. F. Larrarte, H. Bonakdari, C. Joannis, (2006), Etude expérimentale et numérique du taux de cisaillement en réseaux d'assainissement, IXèmes Journées Nationales de Génie Côtier - Génie Civil, 12-14 septembre 2006, Brest, sessions VI et VII, 42-49.
- CN 17. H. Bonakdari, F. Larrarte, (2006), Effet des caractéristiques d'un coude sur l'écoulement en réseaux d'assainissement, XXIVèmes Rencontres Universitaires de Génie Civil 2006 - La Grande Motte les 1 et 2 Juin, actes sur CD.
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- CN 19. F. Larrarte, J-B Bardiaux, Ph Battaglia, C. Joannis, (2005), Vélométrie Doppler : mise au point d'un protocole d'essai en laboratoire, Conférence sur l'autosurveillance, le diagnostic permanent et la modélisation des flux polluants en réseaux d'assainissement urbains, Marne-la-Vallée, 28 et 29 juin 2005, 171-180.
- CN 20. F. Larrarte, L-M Cottineau, (2005), Développement d'un échantillonneur des flux polluants en réseau d'assainissement, XXIIIèmes Rencontres Universitaires de Génie Civil 2005 - Risque & Environnement, Grenoble, 26-27 mai.
- CN 21. H. Bonakdari, F. Larrarte, (2005), La mécanique des fluides numérique comme outil de positionnement d'un débitmètre dans un réseau d'assainissement, XXIIIèmes Rencontres Universitaires de Génie Civil 2005 - Risque & Environnement, 26-27 mai, Grenoble, version clé USB..
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- CN 24. F. Larrarte, L.-M. Cottineau, P. Jaumouillié, (2003), Outils pour la connaissance des champs de vitesses et de concentrations en collecteur d'assainissement, Journées techniques Sciences de l'Ingénieur 2003, Dourdan, Décembre 2003, 321-326.

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- CN 26. F. Larrarte, J-P. Legendre, B. Phelippot, J-M Paul, F. Marc, A. Grosseau, (2001), Relevés télécommandés de profils de vitesses en collecteur d'assainissement, 15ème Congrès Français de Mécanique, Nancy, Septembre 2001, actes sur CD.
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- CN 28. F. Larrarte, B. Riochet, P. Jaumouillié, J.P. Legendre, B. Parent, Y. Sauvourel, (2000), Création d'une base de données expérimentales sur les flux polluants dans un collecteur d'assainissement, SHF - GRAIE Autosurveillance et mesures en réseau d'assainissement., 5-6 décembre 2000, Lyon, 213-216.
- CN 29. F. Larrarte, J-P. Legendre, J-M Paul, A. Grosseau, (1999), Développement d'un dispositif de prélèvement 2D en réseaux d'assainissement, 14ème Congrès Français de Mécanique - Toulouse - 30 août au 3 septembre 1999, 493-498.
- CN 30. F. Larrarte, T. Hino, (1997), Nouveaux développements sur les profils de vagues., 13ème Congrès Français de Mécanique, Poitiers, septembre.
- CN 31. F. Larrarte, T. Takahashi, H. Kawashima, (1997), Injection d'air sous une carène et réduction de la traînée., 6ème Journées de l'Hydrodynamique, Nantes.
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- CN 34. F. Larrarte (1995), Experimental study of waves profiles along a hull, 4th Symposium on nonlinear and free surface flows, Hiroshima (Japon), 19&20 octobre 1995.
- CN 35. F. Larrarte, (1993), Etude des profils de vagues générées par des carènes : influence du dièdre d'étrave., 11ème Congrès Français de Mécanique, Lille.
- CN 36. F. Larrarte, (1993), Etude numérique et expérimentale des profils de vagues générées par des carènes, 4ème Journées de l'Hydrodynamique, Nantes.