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CURRICULUM VITAE

Education

- ★ **2001-2004** : **PhD Thesis** on acoustics and instationary flows dynamics at [LEA Poitiers](#)
- ★ **2001 Master Degree in Research ACTA** in Acoustics
- ★ **1999-2001 Master Degree (Engineer)** of ENSIP - Poitiers.

Employment / Actual position

- ★ **2014 -** : **Expert** at [DGA Hydrodynamics](#). Expert in hydro-acoustics and optics measurements.
- ★ **2014 -** : **Associated professor** in acoustics at l'[INSA](#) (High Engineering School).
- ★ **2010 -** : **Associated professor** in acoustics at [Rouen University](#).
- ★ **2008 - 2014** : **Measure Engineer** at [DGA](#) at [Bassin d'Essai des Carènes](#).

Experiences

- ★*Expertise* in acoustics, optics, signal and image processing.
- ★*Teaching* Labs in Acoustics, supervising of several projects and research master.
- ★*Languages* English - French.
- ★*Image processing* Developer of Buster software.

Main references

All publications (Books, articles, proceedings (with/without peer review), studies reports) : 1/5/17/6/29 available on request. Main references :

- [1] *Propagation acoustique en présence d'écoulement*. BOUCHERON R. EUE Editions. ISBN 978-613-1-57422-1 2011 (in french).
- [2] *Analytical solution of multimodal acoustic propagation in circular ducts with laminar mean flow profile*. BOUCHERON R., BAILLIET H. AND VALIÈRE J.-C. Journal of Sound and Vibration. **292** pp504–518, May 2006.
- [3] *Size measurement of bubbles in a cavitation tunnel by digital in-line holography*. LEBRUN D., ALLANO D., MÉÈS L., WALLE F., CORBIN F., BOUCHERON R. AND FRÉCHOU D.. Applied optics **50(34)** pp H1-H9, 2011.
- [4] *Large-scale free surface measurement for the analysis of ship waves in a towing tank*. GOMIT G., CHATELLIER L., CALLUAUD D., DAVID L., FRÉCHOU D., BOUCHERON R., PERELMAN O. AND HUBERT CH.. Exp. In Fluids. **56** :184, 2015.
- [5] *Evaluation of acoustic velocity in mean flow by Laser Doppler Velocimetry*. BOUCHERON R., VALIÈRE J.-C., HERZOG PH., BAILLIET H. AND DALMONT J.-P.. 12th International Symposium “Applications of Laser Techniques to fluid Mechanics, Lisbon, Portugal. July 2004.
- [6] *Beyond laminar regimes in acoustic wave guides*. BOUCHERON R., BAILLIET H. AND VALIÈRE J.-C.. 18th International Congress on Acoustics, Kyoto, Japan. April 2004.
- [7] *Analytical solution for multi-modal acoustic propagation in circular ducts with Poiseuille flow*. BOUCHERON R., BAILLIET H. AND VALIÈRE J.-C.. CFA/DAGA Congress, Strasbourg, France. March 2004.
- [8] *Experimental study of diesel sprays in near field : experimental setting up and jet morphology*. BOUCHERON R. AND BLAISOT J.-B.. International Conference on Diesel engines, Rouen Mai 2008.
- [9] *Dynamics measurement of a strain cable excited by mean flow by high speed imaging system*. BOUCHERON R., FRÉCHOU D. AND BRIANÇON L.. 3rd International Congress on AMT', Istanbul Turkey, september 2015.
- [10] *Laser -point technique and associated image processing for free surface measurement in breaking wave case*. BOUCHERON R., VONIER P. AND FRÉCHOU D.. 18th International Symposium on the Application of Laser and Imaging Techniques to Fluid Mechanics, Lisbonne, July 5, 2016.