



### **Mathias Samson's bio**

Mathias Samson is an associate professor in physical education at the Faculty of Sport Sciences of the University of Poitiers. He followed, a university program in mechanics which was finalized by the obtaining of the diploma of Master's degree titled « Research and development in Mechanics » of the University of Poitiers. He pursues at present a Doctoral Thesis concerning the understanding of unsteady mechanisms engendered by the aquatic strokes of arms in crawl, in various paces of swimming.

He is coach of swimming since 15 years, and has notably coached young people at the national level. He handles the formation of students in swimming (theory and practice). His principal research focus is the study of the flow engendered by the movements of the swimmers (in particular the arms), in the various paces. These researches are carried out with modern tools (PIV method, dynamometric balance, towing tank, CFD), within the PPrime Institute.