



Michel Yves Jaffrin, Emeritus Professor at Université de Technologie de Compiègne (UTC) in the Biomechanics and Bioengineering Laboratory (BMBI) passed away on December 28, 2020.

Michel Jaffrin graduated from Ecole Supérieure d'Aéronautique and obtained a PhD from Brown University. He became Associate Professor at MIT in Mechanical Engineering Department, where he developed a research line on flow in collapsible tubes with applications to blood flows, respiratory or urinary flows.

In 1973, he joined the newly created UTC. Starting from scratch, he developed a research group in the domain of bioengineering, which was essentially non-existent in France at that time. The CNRS laboratory created in 1982, has now evolved into BMBI with about 100 members. He has been very active to promote biomedical engineering, as special advisor with CNRS (National Center for Scientific Research) and as President of the Société de Biomécanique or Governor of the European Society for Artificial Organs. He is also a founding member of the World Council of Biomechanics.

Michel Jaffrin is well known for his unique expertise on filtration processes and their applications to artificial organs such as the kidney, the pancreas or the liver. Seeing the fundamental connections between the problems, he also applied his expertise to the membrane-based purification of food liquids or wastewaters. He has supervised some 40 PhD students, many of whom now work in academic institutions or companies all over the world. He has authored some 300 papers, some of which have become classics (see the list of his main papers below). He has been nominated at the Institut Universitaire de France.

Michel loved travelling and discovering new countries and cultures. Accompanied by Nicole, his lifelong wife, he was a regular attendant of many congresses where he enjoyed meeting old friends and making new ones. We will remember him as a jolly fellow with a great sense of humor, but also as the great scientist he was, with always the good question.

If you wish to send a sympathy message to his family, you can do so on the website

<https://hommage-michel-jaffrin.utc.fr/>.

Selected publications

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Jaffrin, M.Y. (2009) Body composition determination by bioimpedance: An update, *Current Opinion in Clinical Nutrition and Metabolic Care* **12**, 482-486.

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