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Research axis: Matrices and Food: Processes, Properties, Structure, Sensory (MAPS2)

Abdellah Arhaliass has been a Professor of Process Engineering at the University of Nantes since 1994.He teaches at the Chemical Engineering Department of the IUT of Saint-Nazaire and in the Engineering Department of Process and Bioprocess of the Polytechnic School of the University of Nantes. He is responsible for the laboratory extrusion activity. His research activities concern the study of the rheological behavior of bio-resources in the transformation process, especially reactive and / or enzymatic extrusion applied to the valuation of by-products or seafood. A dynamic modeling part of transformation processes is studied with the objective of obtaining predictive models for process optimization, easy scale to other matrices and to understand and exploit the computational tools and simulation to design and optimize transformations. He also develops sensors (rheometers, multiple scattering of light, Laser table) for on-line monitoring of the kinetics of transformation. He has published more than 60 publications in international journals and is co-author of 7 patents. He is the scientific director of several industrial research contracts and is involved in several regional, national and European programs. He did support 14 PhD theses and over 30 Master 2 degrees.

Training:
- DEA in Rheology and Mass and Heat Transfer, University Paris VII
- PhD from the University of Paris VII (1986 - 1990), covering the applications of the methods of Laser Doppler velocimetry for flow velocity measurements of red blood cells in the microvascular networks in relation to their rheological properties and development models describing pulsed flows in structured vascular networks.
- PhD from the INPL (Toulouse) (1990-1993) on the radiative transfer mechanisms in random or structured environments and development of optical methods (light scattering, laser sheet imaging) characterization of dispersed media.
- Habilitation Research, July 1999, on the characterization of flows and transfers in complex media imaging and analysis of the light backscattering spot.