

## In memory of Professor Adriano Guarnieri

On the 27<sup>th</sup> March 2014 Professor Adriano Guarnieri Editor-in-Chief of this Journal has died. In 1998 he became Editor-in-Chief of the Journal of Agricultural Engineering formerly known as *Rivista di Ingegneria Agraria*. From the beginning he worked to the improvement and development of the Journal, contributing to its turning from a national printed journal into a full access international journal. His work has paid off also after his death, with the notable achievement of the journal being accepted for inclusion in Scopus Bibliographic Database.

Grateful for his work, to pay tribute to the researcher, a short resume of his career is reported.

*Adriano Guarnieri*, born in Rovito (CS), Italy, 24 September 1950, obtained the degree in *Mechanical engineering* in 1976 at the Bologna University. To *Alma Mater Studiorum*, he dedicated his entire academic career: Researcher of *Agricultural mechanics* in 1980, Associate Professor in 1987, Full Professor in 1998.

He held different positions, as teachers council coordinator of the degree course in *Land and agro-forestry Sciences*, coordinator of the PhD course in *Agricultural Engineering*, and vice-head of the *Department of Agricultural and Food Sciences*.

He was member of the *Italian Association of Agricultural Engineering*, the *American Society of Agricultural and Biological Engineers*, the *National Academy of Agriculture*, and the *Georgofili Academy*.

He taught with passion, always ready to listen to students, to explain and repeat even the more basic connections, and spent all his energy in a constant research activity. As a very curious and open-minded researcher, he has not worked on a restricted area, but applied himself to a wide research activity including many different topics of agricultural engineering.

This was possible even thanks to a deep humanity that made him always able to find a mediation point within different research groups.

Through a wide experimental activity in the Laboratory of Cadriano (Bologna) he studied the physical-mechanical properties of agricultural soils with particular attention to workability/trafficability problems



and to the influence of the sodicity on the Atterberg limits of swellable soils. He worked on different aspects of the harvest, transport and postharvest of different agricultural products. A number of scientific papers witness his work on shock and vibration transmission in sorting lines. He investigated even on food packaging, process modelling, mechanical properties of the animal and plant materials, physical food quality characterisation and physical methods for microbial decontamination and food quality characterisation.

He studied and developed aspects connected to the dynamic of the system tractor–agricultural machines, also in relation with the slip of wheels and soil compaction, the static and dynamic equilibrium of the tractors, the rolling over of the narrow track tractors, the standard methods for ROPS structures testing, and the vibration transmissibility to the whole body and hand-arm system of the driver.

At the height of his activity and surrounded by the love of his family and students, a fair colleague and careful and passionate researcher of ours has left us too soon.