



Personal informations

Francesco da Borso

Date of birth 1960, November 25th
 Nationality Italian
 Gender Male
 Address Dipartimento di Scienze Agro-Alimentari, Ambientali e Animali (Di4A)
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Current position

Associate Professor in AGR/10 Rural buildings and agro-forest land planning

Work experience

Dates 2002 – present
 Position/occupation held Associate professor
 Name of employer University of Udine

Dates 1995 – 2002
 Position/occupation held Researcher
 Name of employer University of Udine

Dates 1993 – 1995
 Position/occupation held Research collaborator, assistant
 Name of employer University of Udine

Dates 1987 – 1992
 Position/occupation held Research fellowship
 Name of employer ENEA - AIGR - University of Padova

Education

Date 1994-1995
 Position PhD student
 Organisation University of Padova

Date Oct 1986
 Title of qualification Laurea Agricultural Sciences
 Organisation University of Padova

Date 1979
 Title of qualification Diploma scuola superiore Liceo scientifico
 Organisation Liceo Scientifico E. Fermi, Padova

Current Teaching Course

Date Academic year 2022/2023
 Course Strutture e Impianti (Animal Buildings and Equipment)
 Organisation

	Degree in Allevamento e Salute Animale – University of Udine
Date	Academic year 2022/2023
Course	Ingegneria degli Allevamenti Animali (Animal and Livestock Engineering)
Organisation	Master Degree in Allevamento e Benessere Animale – University of Udine
Date	Academic year 2017/2018
Course	Aspetti Ingegneristici di Ittiocoltura Intensiva (Aquacultural Engineering)
Organisation	Specialization in Acquacoltura AIPSAC – University of Udine
Date	Academic year 2022/2023
Course	Strutture e Impianti per l'Acquacoltura (Aquaculture Structures and Equipment)
Organisation	Specialization in Aquaculture AIPSAC – University of Udine

Research activity

The research activity carried out in recent years has involved various aspects related to agricultural buildings and equipment, but in particular has been addressed to engineering aspects of animal production. In particular, Francesco da Borso was participant or head of research unit in projects, as below specified.

Climatization of animal houses: experimental research has involved the functional optimization of forced ventilation and cooling systems for fattening rabbits, battery and alternative systems for laying hens (PRIN research project - MIUR 2001- 2003, Head of Local Research Unit).

Animal housing systems and animal welfare: the research concerned the construction and management typologies of underground farms and their influence on the hygienic-sanitary aspects (PRIN research project - MIUR 2003-2006, and National Coordinated Project financed by the Ministry of Health - Institute Zooprofilattico delle Venezie on "Evaluation of some environmental parameters in rabbits for rabbits and correlation with animal welfare", in which he was the scientific head of the operating unit).

Optimization of the production chain of typical raw ham: as head of the research unit, he has been involved in the study of fattening pig breeding methods to improve meat quality, animal welfare and environmental impact, in the area of the research project "Cuesse" funded by the Friuli Venezia Giulia Region (2007-2008).

Environmental impact of livestock farms and manure: this topic has affected a significant part of the research activity. In particular, issues related to the reduction and enhancement of nitrogen and the hygienic-sanitary aspects of different systems for the management and treatment of animal wastes and anaerobic digestion effluents have been addressed (Research project "Riducareflui", Research project "Redafi ", Research Project" Florobasco ", coordinated by Veneto Agricoltura and financed by the Veneto Region, the latter acting as head of operational units, years 2009-2015).

He was a participant in the "Avigei" cooperation project - Technical and Economic Study and Design of a Poultry Plant in Equatorial Guinea, funded by the Friuli Venezia Giulia Region (LR 19/2000) and in the research project "Adriaquanet - Enhancing Innovation and Sustainability in Adriatic Aquaculture ", Interreg Italy - Croatia 2014-2020.

Publications

Five recent mayor papers

Da Borso F., Chiumenti A., Fait G., Mainardis M, Goi D. 2021 Biomethane Potential of Sludges from a Brackish Water Fish Hatchery. Applied Sciences 11(2), 552. <https://dx.doi.org/10.3390/app11020552>

Chiumenti A., Fait G., Limina S., da Borso F. 2020 Performances of conventional and hybrid fixed bed anaerobic reactors for the treatment of aquaculture sludge. Bioengineering 7(3), 63. <https://dx.doi.org/10.3390/bioengineering7030063>

Chiumenti A., Boscaro D., da Borso F., Sartori L., Pezzuolo A. 2018 Biogas from fresh spring and summer grass: Effect of the harvesting period. *Energies* 11(6), 1466, doi:10.3390/en11061466

Chiumenti A., da Borso F., Pezzuolo A., Sartori L., Chiumenti R. (2018) Ammonia and greenhouse gas emissions from slatted dairy barn floors cleaned by robotic scrapers. *Research in Agricultural Engineering* 64 (1), 26-33 <https://doi.org/10.17221/33/2017-RAE>

Chiumenti A., da Borso F., Limina L. (2018) Dry anaerobic digestion of cow manure and agricultural products in a full-scale plant: Efficiency and comparison with wet fermentation. *Waste Management* 71, 704-710

Other publications

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Signature

2023, May 30th

