

TUESDAY 10TH MAY 2016

**14:30 Validation of microbiological methods for water and environment
(based on the revised ISO 13843)**

Speaker : Olivier Molinier



Olivier MOLINIER
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EXPERIENCE

Since 2000 : AGLAE -Statistical processing manager – Data processing of interlaboratory testing results in the framework of External Quality Control. Supervision of scientific reports writing, conduct of technical studies on biological methods performances. Design, development and conduct of professional training sessions. Representation of AGLAE to the national and international standardization authorities (AFNOR, ISO)

2000 : Cemagref – Montpellier (Research Institute for Engineering of Agriculture and Environment) - Research Trainee position : Multidimensional analysis of ecological data, design and assessment of models, synthesis oriented towards piscicultural management

1999-2000 : CNRS Laboratory "Eutrophization and Macrophytes" Montpellier - Research trainee position : study of population dynamics of lagoon environment

1999 : ECOSITE pays de Thau (Hérault - France) - Technician trainee position : Treatment of wastewaters using phytoremediation: process control and data processing

1998 : AQUAMER (Hérault- France) - Technician trainee position : optimization of parameters for micro-algae production and active substance extraction

EDUCATION

DESS MSIAAP – Post Master degree in Biostatistics– Statistical Methods for Agronomic, Food processing and Pharmaceutical Industries – University of Montpellier 2

Master of Science degree – Biology of Populations and Ecosystems – University of Montpellier 2

Bachelor's degree (Licence) – Biology of organisms and populations – University of Montpellier 2

PUBLICATIONS

DE CASABIANCA M.L., MOLINIER O., MICHELON C. 2002 – Macroalgal diversity of a *Sargassum muticum* community (Thau Lagoon, France). Mar. Life, 12 (1-2) : 21-26

ARGILLIER C., PRONIER O., IRZ P., MOLINIER O 2002 - A typology of fish communities in French lakes. II- Fish assemblages in lakes below 1 500 m in altitude. Bull. Fr. Pêche Piscic., 2002, 365/366: 389-404

CONFERENCE PRESENTATIONS, STUDIES CARRIED OUT AND ONGOING WORK

Characterization and validation of microbiological and parasitological methods for sludge: assessment of interlaboratory performances of method for the determination of *Salmonella*, *E. coli*, thermotolerant coliforms, *Enterococcus* spp, *Listeria*, *Clostridium perfringens*, viable helminths ova (ADEME convention – Institut Pasteur of Lille – 2002)

Expert for the AFNOR T90D "Water Quality - Microbiological methods" (since 2006)

Data processing on validation study in the framework of The European "HORIZONTAL-HYG" project to develop Horizontal Standards on Hygienic Microbiological parameters for implementation of EU Directives on Sludge, Soil and Treated Biowastes – 2006-2007

Design, development and conduct of professional training sessions on Uncertainty of Measurement for microbiological determination of *Legionella* and *Legionella pneumophila* and determinations of indicators, total flora and pathogens in clean waters / potable waters (two annual sessions 2007-2013)

Conference presentations on the assessment of Measurement Uncertainty in the field of water microbiology:

- ASSES - Association scientifique européenne pour l'eau et la santé – Nov 2003 - Lille
- AGLAE – General Assembly – 2003, 2008, 2011, 2013
- APTEN – Association des Professionnels du Traitement des Eaux et des Nuisances – sept 2012 – Poitiers

Expert for the ISO TC147/SC4/WG15 "Water Quality - Microbiological methods – Measurement Uncertainty" involved in the establishment of the standard ISO 29201: 2012 - The variability of test results and the uncertainty of measurement of microbiological enumeration methods (2006-2012)

Design, development and conduct of professional training sessions on "Uncertainty of Measurement for environmental microbiology" (3-4 annual sessions since 2008)

Lecturer in Biostatistics at University of Lille 1 - License "Metrology for environmental and biological analysis", responsible for the teaching unit "Metrology of Biological Measurements" since 2010

Expert, Co-Convenor of the ISO TC147/SC4/WG21 "Water Quality – Microbiological methods – Validation" in charge of the revision of the ISO 13843 – Requirements for establishing performance characteristics of quantitative microbiological methods (in progress since 2011)

Expert for the ISO TC34/SC9/WG2 "Food products – Microbiology – Statistics" since 2012

Scientific manager of the PhD thesis (CIFRE industrial research agreements): implementation of specific tools for statistical process control applied to microbiological analysis – in progress since 2013

Design, development and conduct of professional training sessions on "Implementation of Internal Quality Control and monitoring of External Quality Control for water microbiology determinations" (3-4 annual sessions since 2015)