

SIMI SCIENTIFIC COMMITTEE

Section: Pollution Control and Monitoring

SR Liliana CRUCERU

SHORT PROFESSIONAL INFO

Liliana Cruceru is currently Head of the Laboratory for Pollution Control of Water, Soil and Wastes from INCD-ECOIND. She is member of some national and international scientific bodies (Romanian Society of Chemistry (SCR); EURACHEM- Romania, Balkan Environmental Association (BENA)). She was project manager in national R&D projects in the field of environmental protection (Horizon2000, INFRAS, CALIST, NUCLEU). Expert in international projects related to analytical investigation of environmental pollution or in implementation of QA/QC measures in analytical laboratories (Leonarda da Vinci, Phare, Senter, B.EN.A, Tacis, EEA Grants). Member of the working group water, in ERNCIP project, EU Commission” European reference network for critical infrastructure protection”, 2011-2014. Member of COST 636 action “Xenobiotics in the Urban Water Cycle” and organizer, at EU level, of the Interlaboratory scheme on steroid estrogens in water samples. Participant in the FP7-Funding Scheme, “An environmental Standards Information Portal for Europe –SIPE”, 2012-2014, as member in the interfacing group.



ACTUAL POSITION

-Head of Laboratory for Pollution Control of Water, Soil and Wastes, Pollution Control Department from INCD-ECOIND (since 1994)

ACADEMIC QUALIFICATION

1977-MSc in Analytical Chemistry, Faculty of Chemistry, University of Bucharest

1976-BSc in Chemistry, Faculty of Chemistry, University of Bucharest

RESEARCH INTEREST

Researcher with wide experience in development/optimisation and validation of analytical methods for organic, inorganic and priority substances. Specialist of monitoring activity in industrial polluted areas including selection of sampling points and of analytical methods to be used, correlation and interpretation of the results. Trainer at national and international level for QA/QC measures in environmental laboratories and related to REACH Regulation requirements. Consultant/international expert for accreditation of environmental laboratories according to SR EN ISO/CEI 17025:2005 standard.

SCIENTIFIC PUBLICATIONS / AWARDS (selection)

- Toma Galaon, **Liliana Cruceru**, Jana Petre, Vasile Ion Iancu, Marcela Niculescu, Luoana Florentina Pascu, *A new lc-ms/ms method for the confirmation and determination of eight nitrosamines in drinking water*, Journal of Environmental Protection and Ecology, 17 (1), 74-82, 2016;
- Toma Galaon, Jana Petre, Vasile Ion Iancu, **Liliana Cruceru**, Gabriela Vasile, Luoana Florentina Pascu , *Detection of Estrogen Hormones in Danube River and Tributaries using Liquid Chromatography-Mass Spectrometry*, Revista de Chimie, 67 (8), 1474-1478, 2016
- Vasile Iancu, Toma Galaon, Jana Petre, **Liliana Cruceru**, Luoana Florentina Pascu, *Determination of some organophosphate insecticides and herbicides in Romanian surface water samples by LC-MS/MS*, 15th International Multidisciplinary Scientific Conference

SGEM 2015, Conference Proceedings Vol II, Section Ecology and Environmental Protection, pg. 131-138.

● Gabriela Vasile, **Liliana Cruceru**, Alina, Catrangiu *A field study on overnight stagnation of drinking water in domestic distribution system*, SGEM 2014 Conference Proceedings, Water Resources, Forest, Marine and Ocean Ecosystems, ISBN 978-619-7105-14-8, vol II, 2014;

● S. Gheorghe, A. Catrangiu, I. Lucaciu, **L. Cruceru**, C. Cosma, M. Nicolau, C. Stoica, L.J. Hem*, L. S. Hafskjold*, B. Eikebrokk*, *Drinking Water Safety in South –East of Romania*, Water Science and Technology: Water Supply, 2013;

● Fokion Vosniakos, Luoana Pascu, **Liliana Cruceru**, Gabriela Vasile, Vasile iancu, Dinu Cristina, Marcela Niculescu, Andrei Niculae, Margareta Nicolau, Mariana Golumbeanu, *The temporal and spatial monitoring of water and sediment physical-chemical quality from Saint George branch in the period February 2009-February 2011*, Fresenius Environmental Bulletin, Springer, vol 21-nr., 233-245, 2012;

● G. Vasile, **L. Cruceru**, C. Dinu, E. Chiru, D. Gheorghe, A. Ciupe; *Evaluation of drinking water quality in three municipalities of Romania: the influence of municipal and customer's distribution system concerning trace metals*, Water Quality Book 3, ISBN 979-953-307-746-7, INTECH, 2011;

● Lars J. Hem, **Liliana Cruceru**, Irina Lucaciu, Bjørnar Brokk, Gøril Thorvaldsen, *Monitoring quality of water intended for human consumption in Romania; determination of NOM fractions and BDOC*, VATTEN 67:47–53. Lund 2011.

● Gabriela Vasile, **Liliana Cruceru**, Jana Petre, Margareta Nicolau, *Environmental Heavy metal pollution and effects on child mental development - Risk Assessment and prevention strategies*, Book included in NATO Science Series C- Environmental Strategy, 2011, Springer.

● **Liliana Cruceru**, Dan Catalin Grigore, Constantin Brinzoi, *Statistical indicators on dangerous and chemical substances according to REACH Regulation requirements*, Publication edited by the National Institute of Statistics from Romania, 2010.

● G. Vasile, **L. Cruceru**, J. Petre, M. Nicolau, V. Iancu, *Measurement of mobile trace elements from polluted soils in industrial areas*, Journal of Environmental Protection and Ecology, Vol.9, No2, 278-283, 2008.

● A. Voulgaropoulos, **L. Cruceru**, B. Nesic, V. Krsmanovic, *Determination of trace elements in Danube water: results of the regional interlaboratory study*, Desalination, 213, 110-115, 2007

● **Liliana Cruceru**, Irina Lucaciu, *Organization of testing laboratories for analysis of toxic substances*, RomAqua, 2-4, 2006

● **Liliana Cruceru**, Rodica Debiasi, *Environmental pollution Monitoring, chapter V- Quality assurance and management of laboratory activity in the field of environmental monitoring and control*, Book edited in the frame of Leonardo da Vinci project, 2005, ISBN 973-0-03917-8

● **Liliana Cruceru**, Rodica Debiasi, Ileana Niculescu, Elena Bucur, *Environmental pollution Monitoring, Laboratory Guide, chapter III, Validation of test methods; Uncertainty of measurement; Control Charts*, Book edited in the frame of Leonardo da Vinci project, 2005, ISBN 973-0-03916-X.