

SIMI SCIENTIFIC COMMITTEE

Section: Pollution Assessment and Management Systems

Dr. Eng. Carol Blaziu LEHR

SHORT PROFESSIONAL INFO

Senior Researcher, with expertise in chemistry, advanced materials and environmental protection. He started his research career in 1987 in chemistry food, research interest in enzymatic biotechnology; packaging technologies for the food industry; scientific research, innovation and technology transfer in the fields of agriculture, food safety. Since 1997 his activities were focused on applied research in the field of macromolecular materials, membranes (polymeric, ceramic) and membrane processes, unconventional separation technologies / purification of liquid solutions; technological design elements and installation of separation / filtration solutions. Starting with 2005 he developed advanced and applied research activity in the field of environmental protection, specifically to control, evaluate, prevent, reduce and combat industrial pollution (pollution control, pollution assessment, environmental technology, environmental management and quality, health and safety at work, consulting and training, training, assessment skills in the areas above mention, technical expertise, technical assistance application).



ACTUAL POSITION

Scientific Researcher 2nd degree

Scientific Manager of National Research and Development Institute for Industrial Ecology – ECOIND

ACADEMIC QUALIFICATION

2004: PhD, „Babes-Bolyai” University, Faculty of Chemistry and Chemical Engineering

1983: Chemical Engineer, University “Politehnica” Bucharest, Faculty of Industrial Chemistry, Department of Inorganic Chemical Technology

RESEARCH INTEREST

- Environmental audit;
- Technological transfer of scientific research to economical agents;
- Professional competence assessment in environmental protection domain;
- Environmental pollution prevention and control;
- Environmental protection legislation;
- Assessment and monitoring the quality status of environmental components affected by anthropogenic activities.

SCIENTIFIC PUBLICATIONS (selection)

Carol Lehr, Pasare L., Nita O., Popescu G., Composite membranes for reverse osmosis process, *Revista de Chimie (Bucuresti)*, **2016**, 55 (12), 1427-1432;

Constantin Valcu, Gheorghe Voicu, Gigel Paraschiv, Emilia Sofia Manole, **Carol Lehr**, Adrian Nedea, Claudia Irina Borzea, System for dynamic monitoring and warning in case of

ecological risk for surface waters, *Environmental Engineering and Management Journal*, **2014**, 13 (7), 1757-1764;

Gabriela-Geanina Vasile, Nicoleta-Mirela Marin, Liliana Valeria Cruceru, Marius Simion, Toma Galaon, **Carol Blaziu Lehr**, Determination of Ultra-Trace Mercury in Water Samples Based on Cold Vapor Atomic Fluorescence Spectrometry Using a Gold Trap, *Revista de Chimie (Bucuresti)*, **2016**, 67 (8), 1427-1432;

Toma Galaon, Jana Petre, Vasile Ion Iancu, Liliana Valeria Cruceru, Gabriela-Geanina Vasile, **Carol Blaziu Lehr**, Detection of Estrogen Hormones in Danube River and Tributaries using Liquid Chromatography-Mass Spectrometry, *Revista de Chimie (Bucuresti)*, **2016**, 67(8), 1474-1478;

Elena Bucur, Andrei Florin Danet, **Carol Blaziu Lehr**, Elena Lehr, Andrei Vasile, Indoor Air Quality Assessment in the Romanian National Aviation Museum, *Revista de Chimie (Bucuresti)*, **2016**, 67(8), 1421-1426;

Elena Bucur, Andrei Florin Danet, **Carol Blaziu Lehr**, Elena Lehr, Mihai Nita-Lazar, Binary logistic regression – instrument for assessing museum indoor air impact on exhibits, JA&WMA, publicat on-line;

Luisa Roxana Popescu, Mihaela Iordache, George Octavian Buica, Eleonara Mihaela Ungureanu, Luoana Florentina Pascu, **Carol Blaziu Lehr**, Evolution of Groundwater Quality in the Area of Chemical Platform, *Revista de Chimie (Bucuresti)*, **2015**, 66 (12), 2060-2064;

Bogdan Stanescu, Marinela Petrescu, **Carol Lehr**, Investigation of landfill gases accumulated in underground (soil/subsoil) nearest municipal waste disposals, *Journal of Environmental Protection and Ecology*, **2012**, 13 (4), 2145-2150.

PATENTS

1. RO119361-B1, RO119361-B8, Purifier producing drinking water from e.g. surface water includes multiple filters tanks pumps and sensors employing microbiological solution, 2011;
2. RO126196-A2 ; RO126196-B1, Process and installation for manufacturing tubular membranes, 2012;
3. RO126195-A0; RO126195-B1; Instalation for producing functionalized nanocomposite permselective materials, 2014.

MEMBER of

Romanian Chemical Society – President of Chemical and Environmental Engineering Department

Romanian Environmental Association – Vice-President

Romanian Water Association – CTS Vice-President

Environmental Balkan Association