

## **SIMI SCIENTIFIC COMMITTEE**

*Section: Pollution control and monitoring*

**PhD Eng. Elena BUCUR**



### ***SHORT PROFESSIONAL INFO***

She graduated University “Politehnica” Bucharest, Faculty of Inorganic Chemical Technology in 1983. She was dedicated all activity to applied research in the field of air quality and food, electrochemical and vacuum deposition of metals / semimetals, analytical chemistry. Currently she coordinates the activity of the Department of Pollution Control and Air Pollution Control Laboratory, and she is involved in specific research projects; member of the Romanian Society of Chemistry, EURACHEM Romania, Balkan Environmental Association - BENA.

### ***ACTUAL POSITION***

- Head of Air Pollution Control Laboratory in INCD ECOIND since 2005;
- Head of Pollution Control Department in INCD ECOIND since 2015;
- PhD student at the University of Bucharest, Department of Analytical Chemistry in the field of air quality assessment in non-industrial buildings.

### ***ACADEMIC QUALIFICATION***

**2010** - PhD student at the University of Bucharest, Department of Analytical Chemistry in the field of air quality assessment in non-industrial buildings.

### ***RESEARCH INTEREST***

Research activity was conducted mainly in the field of air quality starting with the development of advanced analytical methods for the identification and quantification of pollutants present in the ambient air, indoor air and in emissions from stationary industrial sources, assessing the level of air pollution and health impact, advanced treatment methods and statistical interpretation of data series generated by long-term monitoring of the concentration of gaseous pollutants in the air.

Coordinator of 7 research projects and team member in 27 projects national such as:

- PN II project „Respirable particulate PM2.5 pollution impact assessment in urban areas with intense traffic on the health of the population” – PMAER; 2007-2010 competition – project manager;
- PN II project „Minimizing and integrated system of pollutants in the leather industry for sustainable production” – SUSTAINLEATHER; 2012-2016 competition – partner project manager.

### **SCIENTIFIC PUBLICATIONS / AWARDS (selection)**

- **E. Bucur**, A. Vasile, R. Diodiu, A. Catranguiu, M. Petrescu, Assessment of indoor air quality in a wooden church for preventive conservation, JEPE, Vol. 16, No. 1, pg. 7-17 (2015);
- **E. Bucur**, A. Vasile, M. Petrescu, A. Danet, Indoor air quality assessment in spaces designed for office activities: PAH's and phenols, JEPE, Vol. 17, No. 1, pg. 9-17 (2016)
- **E. Bucur**, A. Danet, Particulate matter and polycyclic aromatic hydrocarbon air pollution in areas of Bucharest with heavy road traffic, Rev Chimie, 67(4), 621-625 (2016)
- **E. Bucur**, A. F. Danet, C. B. Lehr, E. Lehr, A. Vasile, Indoor Air Quality Assessment in the Romanian National Aviation Museum, Rev Chimie, 67(8), 1421-1426 (2016)
- **E. Bucur**, A. F. Danet, C. B. Lehr, E. Lehr, M. Nita-Lazar, Binary logistic regression – instrument for assessing museum indoor air impact on exhibits, JA&WMA, publicat on-line;
- V. Danciulescu, **E. Bucur**, L.F. Pascu, A. Vasile, M. Bratu, Correlations between noise level and pollutants concentration in order to assess the level of air pollution induced by heavy traffic, JEPE, Vol. 16, No. 3, pg. 815-823 (2015)
- R. Diodiu, **E. Bucur**, T. Galaon,, L.F. Pascu, Indoor air exposure to aldehydes and ketones in rooms with new and old furniture of a new office building, JEPE, Vol. 16, No. 3, pg. 832-838 (2015)
- **Elena Bucur**, Liviu Ionita, Mihaela Petrescu, Consideration concerning impact assessment of pollution with breathable PM 2.5 particulate matters. Part 1. Pollution monitoring in urban areas with intense road traffic, JEPE, Vol. 11, No. 3, pg. 809-814 (2010)
- R. Diodiu, T. Galaon, **E. Bucur**, LF Pascu, Aldehydes and Acetone in Indoor Air of 19 Houses from Bucharest (Romania), Rev Chimie, 67(8), 1466-1468 (2016)