

ON ANNIVERSARY

This year marks the 15th anniversary of the establishment of the Faculty of Environmental Science and Engineering, at Babeş-Bolyai University of Cluj-Napoca. The Faculty was established in 2002 to unify in a single coherent academic structure the different forms of environmental education that had appeared since 1990 at other faculties of the Babeş-Bolyai University (Geography, Biology-Geology, Physics, Chemistry and Chemical Engineering). The Faculty of Environmental Science and Engineering promotes a modern and dynamic education in national and international context, in one of the most attractive and most important areas at present: study of the environment and environmental protection. The Faculty of Environmental Science and Engineering is the only faculty in the country offering study programs in this field, at bachelor, master and doctorate level. The educational offer of the faculty includes two major directions, namely: Environmental Science and Environmental Engineering.

Mrs. Iovanca Haiduc was part of the team of founding members who initiated the establishment of the Faculty of Environmental Science, later becoming the Faculty of Environmental Science and Engineering (in 2011).

The continual development of the image of the institution and mostly of the qualitative content of didactic and scientific research activities carried out within our faculty was achieved with the support of outstanding personalities of the Romanian higher education in our university, including Ms. Iovanca Haiduc, to whom we dedicate this special issue of the scientific journal *Ambientum*, at a time when we celebrate together the anniversary of her birthday.

This homage is not one of complaisance, dictated by the double conjuncture moment mentioned above, but is based on the acknowledgement of the fact that some personalities of the academic environment of Cluj deserve not only the attention of their contemporaries but also of younger generations, representing models to follow. Professor Iovanca Haiduc is a member of this category.

As a remarkable academic person and a reputed scientist, Professor Iovanca Haiduc is one of the academic personalities of higher education in chemistry and environmental science with special professional, scientific and managerial skills, who managed to put her mark on the formation of our faculty at that time. She started her academic career at Babeş-Bolyai University from 1962 until 2009. At first she

was a member of the Faculty of Chemistry, and since 2002 he has strengthened the teaching staff of the newly established Faculty of Environmental Science, whose dean she was between 2002 and 2008.

Throughout her career, she has carried out intensive didactic and research activities, publishing alone or in collaboration 9 books and 4 collections of problems and practical works of analytical chemistry and environmental analysis, and about 90 scientific papers (65 in the country and 25 abroad). Professor Iovanca Haiduc benefited from internships abroad at renowned universities: University of Iowa (USA), University of Nottingham (England), Lehigh University (USA), University of Singapore, which allowed her to open up her vision of research and teaching activities supported by our faculty.

Her vast and complex activity with 47 years of dedication and passion devoted to the study and scientific creation, her academic pursuit, the seriousness and the conscientiousness with which she performed her mission everywhere she worked, were acknowledged and appreciated by everyone in the academic environment. We are glad that we have the opportunity to pay homage to Professor Iovanca Haiduc, to honour her properly, and to thank her for all that she has given us throughout the years in our faculty. Happy anniversary, Mrs. Professor Iovanca Haiduc! May you have happiness, fulfillment and much health!

On behalf of the faculty of Science and Environmental Engineering

Professor Eng. Alexandru Ozunu PhD,
Dean of Faculty of Environmental Science and Engineering

CURICULUM VITAE - PhD Professor IOVANCA HAIDUC



Professor **Iovanca HAIDUC** was born on 6 October 1941 in the village of Soca, Timis County. Between 1954-1957 she attended the courses of High School no. 8, actual Dositeje Obradovici from Timisoara. Iovanca HAIDUC graduated from the Faculty of Chemistry of the Babeş-Bolyai University, Cluj-Napoca, and in 1971 she obtained her doctorate degree at the same institution in the field of electroanalytical chemistry with the doctoral thesis titled "Electrozi de Pt, Pd și Au cu suprafață chimic modificată în determinări potențimetrice (Pt, Pd and Au electrodes with chemical modified surface in potentiometric determinations)" under the guidance of distinguished Prof. PhD. Candin Liteanu.

Teaching activity:

From 1962 until 2009 she is employed by Babeş-Bolyai University as follows: 1962 - 2002 at the Faculty of Chemistry and Chemical Engineering, Department of Analytical Chemistry and between 2002 - 2009 at the Faculty of Environmental Science and Engineering, Physics, Chemistry and Environmental Engineering Department, where she occupies various teaching positions: Preparator (1962), Assistant Professor (1965), Lecturer (1976), Associate Professor (1990), Professor (1998-2009).

Between 2002 and 2009 she worked at the Faculty of Environmental Science and Engineering, at Babeş-Bolyai University, Cluj-Napoca, being among the founding members of the faculty and between 2002 and 2008 she was vice-dean at the Faculty of Environmental Science and Engineering.

Throughout her career, she has been involved in intensive didactic activities, besides the classical courses of Analytical Chemistry she held for the first time at the Faculty of Chemistry courses related to Environmental Science such as Water Quality Control (1984) and Environmental Chemistry (1990).

At the Faculty of Environmental Science and Engineering she introduced courses of Environmental Chemistry, Dangerous Chemical Pollutants and Green Chemistry - all being new courses.

She has published on his own and in collaboration with various authors, 9 books and 4 exercise books and practical issues of analytical chemistry and environmental analysis on the themes of the courses.

We only report:

1. Chimie Analitică (Analytical Chemistry) (Part I) - UBB, Cluj-Napoca (1981).
2. Chimia Verde și poluanții chimici (Green chemistry and chemical pollutants) - EFES, Cluj-Napoca (2006) - Iovanca Haiduc.
3. Analiza Mediului (Environmental Analysis) (Part I) - Napoca Star Publishing, Cluj-Napoca (2002) - Iovanca Haiduc, Simona Cobzac.
4. Chimia Verde. Principii și aplicabilitate (Green chemistry. Principles and Applicability) - Cluj University Press (2013) - Beldean-Galea M.S., Iovanca Haiduc, Roba C.A.

Scientific activity:

Fields of interest:

- Analytical electrochemistry
- Extraction of elements: U, Th with dithiophosphoric acids (collaboration with the collective of prof. Ionel Haiduc through the International Atomic Energy Agency in Vienna, 1983-1985)
- Water quality control
- Control of greenhouse gases (CO₂, CO, CH₄)
- PMs control from air

She has published around **90 papers in these scientific areas** (65 in the country and 25 abroad).

Mention only:

- Pretreated bright Pd electrode in potentiometric redox titration, Talanta, 1972, 50, pp. 55-65, co-author (Litanu C., Haiduc Iovanca)

- Ultraviolet spectra of some polyhaloaromatic organosilicon derivatives, J. Organomet. Chem., 1968, 11, pp. 459-462, co-author (Ionel Haiduc, Iovanca Haiduc and Henry Gilman)
- Solvent extraction of Th (11) with dialkyldithiophosphoric acids, J. Radioanal. Nucl. Chem. Letters, 1986, 99, pp. 257-163.
- Solvent extraction of U, Th and rare earth with dithiophosphoric acids. Vol. Chemical Aspects of Nuclear Methods of Analysis, IAEA TEC-Doc. Vienna, 1985, pp.101-172.
- Uses of ozone in the detoxification of cyanide – heaving waste-waters (R. Roum. Chem. Quant. Rev. 1998 (Iovanca Haiduc, G. Katona)
- Comments on a controversial gold mining project in Western Carpathians. Environmental and other aspects. In vol. "Sustainability for Humanity and Environment" Politehnica Timișoara Publishing, 2005, pp. 53-60.
- Variations of Greenhouse Gases in Urban-Areas. Case Study: CO₂, CO and CH₄ in three Romanian Cities. In Vol. Air Quality Model and Applications ed. By D. Popovici, Intech open 2011, chapter 15 Rijeza, Croatia.

Documentation / Research

Internships abroad:

- 1968 (May - July) Iowa, USA
- 1994 (September- October.) University of Nottingham, England
- 2000 (August - September) Lehigh University, USA
- 2002 (December) University of Singapore

Diplomas obtained:

- Merit Diploma for the contribution to the development of BBU, 2005;
- Didactic Excellence Diploma awarded by UBB in 2006;
- "Omul, natura și schimbările climatice (Man, Nature and Climate Changes)" Diploma, 2007, awarded by the Ecological Action Foundation, Craiova.

Member of professional associations:

- Romanian Society of Chemistry;
- Balkan Environmental Association (B.EN.A.).

Conf. dr. Simion Mihail Beldean-Galea
Prof. dr. ing. Cristina Roșu

