

CURICULUM VITAE – PhD Professor IOVANCA H Aiduc



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 potențiometrice (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 a founding member of the faculty together with Professor PhD Iustinian Petrescu and Professor PhD Constantin Cosma, 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.).