

CURRICULUM VITAE

Surname: VAJDA

Given name: NÓRA

Date and place of birth: 28.9.1952, Budapest

Nationality: Hungarian

Civil Status: head of laboratory

Education: Ph.D. in radiochemistry

Institutions:	Technical University Budapest	Technical University Budapest	Hungarian Academy of Sciences
Date:	1976	1986	1995.
From (months/year)	Sep/1971	1976	
To (months/year)	June/1976	1986	
Degree:	M.Sc.	Dr.	Ph.D.

Language skills:

Language	Level	Passive	Spoken	Written
Hungarian	Mother Tongue			
English	A		x	x
German	A		x	x

Membership of Professional Bodies:

member of the Hungarian Nuclear Society,

member of the scientific committee of LSC 2005, LSC 2008, NRC7 international conferences

head of the Working Group of the Hungarian Academy of Sciences on "Environmental Radioanalytics"

member of the scientific committee of the *Journal of Radioanalytical and Nuclear Chemistry*

Present Position: head of laboratory, RadAnal Ltd.

Years of professional experience: 32

Key qualifications: chemistry, radiochemistry, nuclear measuring techniques, alpha spectrometry, LSC, NAA

Educational activities:

training of under- and post-graduate university students

supervisor of PhD students: students who received the PhD : Gy. Kis-Benedek, E. Kabai, J. Moreno-Bermudez, A. Kerkapoly

individual training of IAEA's fellows from Bulgaria, Panama, Jordan, Slovakia, Armenia, Georgia, Kazakhstan, Belorussia

subjects for engineering-physicist students of the Budapest University of Technology and Economics till 2008:

Radioanalytics: 3+3 lessons per week during one semester

Application of radioactive radiations: 2+0 lessons per week during one semester

Nuclear power plant chemistry: 2+0 lessons per week during one semester

Nuclear chemical technologies: 1+0 lesson per week during one semester

Research activities:

Gamma spectrometry, neutron activation analysis, liquid scintillation spectrometry, alpha spectrometry,

development of selective radiochemical separation procedures using ion exchange and extraction chromatographic procedures,

development of analytical procedures for the determination of “difficult to determine nuclides” e.g. radioisotopes of Sr, Pb, Po, Ra, actinides in environmental samples, radioactive wastes, coolant water,

fuel performance determination under normal operation conditions,

characterization of radioactive wastes,

analysis of natural and man-made nuclides in the environment.

Dissertations, research contracts:

dissertation for Dr. degree: Analysis of radioactive fission products in the primary coolant of Paks NPP

dissertation for PhD: Fuel performance determination in NPPs by up-to-date nuclear analytical techniques

supervisor of research contracts with Hungarian Foundation (3), IAEA (2), Hungarian universities and research institutes (4),

participation in EC projects (2)

Professional experience:

Date:	2008-
Location	Budapest
Company / Organisation	RadAnal Ltd.
Position	Head of laboratory
Job Description	Analytical services, researches, training
Date:	1976-2008
Location	Budapest
Company / Organisation	Budapest University of Technology and Economics
Position	Associate professor
Job Description	Training, lecturing, researches

Other professional experiences:

IAEA fellowship for 1 year: 1989-90

Employment at the IAEA’s Laboratories at Seibersdorf with special service agreements:

3 months in 1991,

1 year in 1993,

3 months in 2007,

and several times for short term (1-2 months) as lecturer

IAEA expert at training courses and missions (Seibersdorf- Austria, Panama, Sri Lanka)

training course on LSC in Bucarest

Awards, prizes: award 'Hevesy' of the Hungarian Academy of Sciences for activities to strengthen nuclear safety 2007

Publications and Seminars:

total No. of publications: 124

papers in referred international journals: 22

total No. of citations according to Science Citation Index: 166 (in 2006)

List of the most important publications:

- N. Vajda, A. Törvényi, G. Kis-Benedek, C.K. Kim, B. Bene, Zs. Macsik: Rapid method for the determination of actinides in soil and sediment samples by alpha spectrometry.
Radiochimica Acta (under publication)
- N. Vajda, A. Törvényi, G. Kis-Benedek, C.K. Kim: Development of Extraction Chromatographic Separation Procedures for the Simultaneous Determination of Actinides
Radiochimica Acta 97 pp. 9-16, 2008.
- Vajda N., Ghods-Esphahani A., Cooper E., Danesi P.: Determination of Radiostrontium in Soil Samples Using a Crown Ether.
J. Radioanal. Nucl. Chem. 162 (1992) 2 pp. 307-323
- Vajda N., LaRosa J., Zeisler R., Danesi P., Kis-Benedek Gy.: A Novel Technique for the Simultaneous Determination of ²¹⁰Pb and ²¹⁰Po Using a Crown Ether.
J. Environmental Radioactivity 37/3. (1997) pp. 355-372.
- R. Zeisler, N. Vajda, G. Lamaze, G.L. Molnár: Activation Analysis, Chapter 8, Volume 3. of Handbook of Nuclear Chemistry, pp. 303-362, Kluwer Academic Publishers, Netherlands, 2003.
- J. Moreno, N. Vajda, K. Burns, P.R. Danesi, P. DeRegge
Quantifying Uncertainties in the Radiochemical Determination of ⁹⁰Sr in Environmental Samples by Liquid Scintillation Counting
IAEA-TECDOC-1401 p.167-194 (2004) IAEA, Vienna
- N. Vajda, Zs. Molnár, E. Kabai, Sz. Osvath: Simultaneous Determination of Long-Lived Radionuclides in Environmental Samples,
9th Int. Symposium on Environmental Radiochemical Analysis, Maidstone, U.K., 18-20 Sept. 2002
Published by the Royal Chemical Society in "Environmental Protection against Radioactive Pollution (edited by N. Birsén, K.K. Kadyrzhanov), pp. 133-146, 2003.
- Vajda, Nóra; Molnár, Zsuzsa; Kerkápoly, Anikó; Pintér, Tamás: Radiochemical Control of Damaged Fuel After the Cleaning Tank Incident at Paks Nuclear Power Plant
Proceedings of Int. Conference on Water Chemistry of Nuclear Power Plants, San Francisco, 11-14 Oct. 2004
- N. Vajda, Zs. Molnár, Sz. Osváth: Extraction Chromatography and Liquid Scintillation Counting for the Analysis of Long-Lived Radionuclides
In Proc. of the 2005 Int. LSC Conference, Katowice, Poland 17-21 Oct 2005, published in Radiocarbon
- Zsolt Varga, Gergely Surányi, Nóra Vajda and Zsolt Stefánka: Rapid sequential determination of americium and plutonium in sediment and soil samples by ICP-SFMS and alpha spectrometry
Radiochimica Acta, 95 pp. 81-87 2007
- A. Kerkápoly, N. Vajda, T. Pintér, A. Pintér Csordás:
Analysis of Hot Particles Originating from Failed and Damaged Fuels
Central European Journal of Physics, 3(1) 2005 pp. 1-12
- Vajda N., LaRosa J., Bódizs D., Lengyel Z.: In-Core Fuel Failure Detection in Nuclear Reactors by Analysis of Actinides. Periodica Polytechnica, 1 (1993) 1 pp. 77-86.