

Professor Vladimir N. ZAITSEV,
(Ph.D., D.Sc., Corr. member of NAS of Ukraine)

11 October 1958

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Current position: Professor at Pontifícia Universidade Católica do Rio de Janeiro (Brazil)

Current work address: R. Marquês de São Vicente, 225 Rio de Janeiro, 22453-900 Brazil

Fields of research interest: Organo-mineral materials, interfacial phenomena. Application in analytical chemistry, drug delivery, biotechnology and catalysis.

High education

76-81 **University** (M.Sc.) at Kiev State University, Kiev Ukraine in Inorganic Chemistry

81-84 **Post-graduate education** (PhD) at Kiev State University, Kiev Ukraine

Degrees

11/1981 **Master of Science** at Kiev State University (supervisor Prof. Viktor Skopenko), Kiev Ukraine, inorganic chemistry (honored);

02/1985 **Candidate of sciences** at Kiev State University (Advisor Prof. Viktor Skopenko), Kiev Ukraine, inorganic chemistry;

10/1997 **Doctor of sciences** (Habilitation) at Taras Shevchenko University, Kiev Ukraine

Career development

14 – now Professor at Pontifícia Universidade Católica do Rio de Janeiro, Brazil

12 – 14 Professor at Taras Shevchenko National University, Kiev Ukraine

00- 12 Chair of Analytical chemistry department, Taras Shevchenko National University, Kiev

97- 00 Professor at Taras Shevchenko National University, Kiev Ukraine

92- 97 Associate Professor at Kiev State University, Kiev Ukraine

91 - 85 Assistant Professor at Kiev State University

Post-doctoral training

90 – 91 The British Council Scholarship at University of Southampton, England (Prof. John Evans)

95 – 95 Fulbright research fellowship at Texas A&M University, College Station USA (Prof. David Bergbreiter)

Awards and Honor degrees

- Visiting Professor (Joliot Chair) at ESPCI ParisTech, Paris France **2012**
- Visiting professor at Laboratoire Interdisciplinaire Carnot de Bourgogne, CNRS Université' de Bourgogne, Dijon France **2009**
- National Ukraine state Prize in science and technology **2007**
- CNRS visiting researcher at LPM-UMR 5511-CNRS/INSA Lyon, France **2004**
- Certificate of full Professor from Ministry of High education of Ukraine **2001**
- FAPESP visiting professor at University of Campinas (Professor G. Yoshitaka), Brazil **2000**
- Soros' docent – Award from International Science Foundation (USA) **1997**
- Certificate of Associate Professor from Ministry of High education of Ukraine **1993**

Memberships and Fellowships

- Vice-chair of Supreme State Attestation committee of Ukraine for scientific evaluation **2013-2015**

- Member of Scientific advisory board of the Organization for the Prohibition of Chemical Weapons **2010-2017**
- National Academy of Sciences of Ukraine (correspondent member) **elected in 2009**
- Chair of analytical chemistry council at NAS of Ukraine **2006-2016**
- Member of Analytical Chemistry division of European Association for Chemical and Molecular Sciences **from 2007**
- Academy of High Education of Ukraine **elected in 2004**
- Fulbright fellowship **1995**
- The British Council Scholarship **1990**

Teaching experience

- Chemistry of elements – Inorganic chemistry II (at Kiev National University) graduate students – 5 years
- Instrumental methods of chemical analysis – Analytical chemistry II (at Kiev National University) for graduate students – 12 years
- Nanochemistry - (at Kiev National University and PUC-Rio) postgraduate students – 5 years
- Advances in spectroscopy (at Kiev National University and PUC-Rio) postgraduate students – 5 years
- Methods of preparation, investigation and application of adsorbents in analytical chemistry and for water purification (at Kiev National University and PUC-Rio) postgraduate students – 7 years

Invited lectures outside of Ukraine and Brazil

- Pacific Northwest National Laboratory, USA (1995)
- Hoechst Celanese Corporation, Corpus Christi, TX USA (1995)
- University of Oregon USA (1995),
- University of Washington, USA (1995)
- Pittsburgh University, USA (1995),
- Texas A&M University USA (1995)
- University of Campinas, Campinas, Brazil (2000)
- Florida State University, Tallahassee USA (2001)
- INSA-Lyon, Lyon France visiting professor (2004)
- Université de Bourgogne, Dijon France visiting professor (2009)

Editorial Boards

- Methods and Objects of Chemical Analysis (Editor-in-chief)
- Journal of Analytical Chemistry
- Chemistry, Physics and Technology Of Surface
- Chemical Papers
- J Water Chem. and Technology

Current Responsibility

- Head of Scientific Council of Analytical Chemistry at Academy of Sciences of Ukraine
- Editor of a scientific journal “Methods and objects of chemical analysis”
- Member of State Accreditation Committee at Ministry of high education and sciences of Ukraine
- Member of Analytical division of European Association of Chemical Societies
- Member of Scientific Advisory Committee in organization of Prohibition of Chemical Weapons (OPCW)

Main international research projects

SNPQ (Brazil)

2014-2018

Programa Ciência sem Fronteiras (PVE) 401383/2014-8 - Fabricação de SiC e nano-diamantes partículas híbridas com fotorreceptores imobilizados e sua aplicação bio-analítica para liberação controlada de fármacos

2016-2019

Produtividade em Pesquisa – (PQ) 304622/2015-0. Funcionalização de Si, SiC, e partículas de nano - diamantes, para a sua aplicação bio-analítica e entrega da droga

FP7 (EU)

2012-2014

IRSES 2012-319013. Siccatalysis— porous silicon carbide as a support for co metal nanoparticles in fischer–tropsch synthesis

2011-2014

IRSES 2010-269099. Fabrication of particles with photo receptors: bio-analytical application such as controlled drug delivery

2010-2013

IRSES 2009-247603. Sol-gel materials synthesis and characterization for optical sensing

INTAS (EU)

1994-1997

INTAS 94-2522. Novel bonded oxides with covalently immobilised organic ligands for chemical sensors development

1997-2000

INTAS 97-1116. Covalently bonded acids in catalysis

2000-2003

INTAS 00-291. Biomimetic catalysts obtained by surface modification for green chemistry processes

2005-2008

INTAS 05-7729. Hydrogen reservoirs based on porous silicon nanostructures for portable devices

NATO (int.)

2006-2009

NATO Science for peace SFP 981786. Development of a novel sensing technique based on nanomechanics for rapid detection of bioagents

1999-2003

NATO Science for peace SFP 97-1896. Superacid solids

CLG 976724

Development of integrated technology for heavy metal recycle from nickel-containing wastewater and sludge

Nukr.Rig.981555

New functionalised materials for removal of pollutants from drinking and wastewater

CNRS (France)

2006-2007

04-118. Microfluidic system based on porous silicon

International scientific conferences organizer

- 1994 The Ukraine-USA summer school on chemistry & physics of surfaces.
<http://www.achem.univ.kiev.ua/conference/passed/sschul94.htm> (co-chair of organizing committee) – supported by NSF (USA) and European research office of the US Army
- 2002 International pre-conference school "New functional materials in chemical analysis"
<http://www.achem.univ.kiev.ua/conference/passed/school.htm> (chair of organizing committee) – supported by INTAS (EU).
- 2002 International conference "Functionalized materials: synthesis, properties and application"
http://www.achem.univ.kiev.ua/conference/fun_en1.htm (chair of organizing committee)
- 2005 International conference "Analytical chemistry and chemical analysis (AC&CA-05)"
<http://www.achem.univ.kiev.ua/conference/2005/babko/index.htm> (chair of organizing committee) supported by IUPAC, European Association for Chemical and Molecular Sciences and INTAS (EU)
- 2005 9th Analytical Russian-German-Ukrainian Symposium (ARGUS-9)
<http://www.achem.univ.kiev.ua/conference/2005/argus/argus9.htm> (chair of local organizing committee)
- 2000-2013 Annual meeting of Analytical chemistry Council of Ukraine (Chair of organizing committee)

PhD supervisor

Name	Year of PhD	Name	Year of PhD	Name	Year of PhD
N. Donskaya	1994	V. Khalaf	2006	A. Syrotchuk	2017
A. Pecheny	1996	O. Konoplytska	2009	I. Zakharkiv	2017
S. Alekseev	2002	T. Reva	2010	D. Korytko	2017
V. Olynyk	2002	N. Kobylinskaya	2010	O. Ivanova	2018

Share PhD supervisor

T. Kovalchuk	2003 (with Prof. J. Fraissard, University P&M Currie, France)
I. Shupyk	2007 (with Prof. François Bozon-Verduraz University P&M Currie, France)
N. Shevchenko	2013 (with Prof. Alain Walcarius, Nancy Universite, France)
M. Mazur	2014 (with Prof. Sabine Suneritz, Lille University, France)
V. Turcheniuk	2017 (with Prof. Sabine Suneritz, Lille University, France)