

Europass Curriculum Vitae



Personal information

First name(s) / Surname(s) | Cristian Sorin SILVESTRU

Address(es) Str. Nicolae Titulescu Nr. 18, Bl. P8, Ap. 71, 400420 Cluj-Napoca, ROMANIA

Telephone(s) 0040264593833 / int. 5736 Mobile: 0040744579759

Fax(es) 0040264590818

E-mail cristian.silvestru@ubbcluj.ro; cristi@chem.ubbcluj.ro

Nationality Romanian

Date of birth 08.12.1955

Gender M

Desired employment / Occupational field

Work experience

Dates 1995-present

Occupation or position held Professor

Main activities and responsibilities Lectures, seminars, research in inorganic and organometallic chemistry

Name and address of employer | Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-Napoca, RO-400028

Type of business or sector | Teaching and research

Dates 1993-1995

Main activities and responsibilities | Lectures, seminars and practical works, research in inorganic and organometallic chemistry

Name and address of employer | Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-Napoca, RO-400028

Type of business or sector | Teaching and research

Dates 1990-1993

Occupation or position held | Lecturer

Main activities and responsibilities | Lectures, seminars and practical works, research in inorganic and organometallic chemistry

Name and address of employer | Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-Napoca, RO-400028

Type of business or sector | Teaching and research

Dates 1989-1990

Occupation or position held | Scientific researcher in chemistry

Main activities and responsibilities | Research in inorganic and organometallic chemistry

Name and address of employer Babeş-Bolyai University, M. Kogălniceanu no. 1, Cluj-Napoca, RO-400028

Type of business or sector Research

Dates 1982-1989

Occupation or position held | Scientific researcher in chemistry

Main activities and responsibilities | Research on basis of contracts with industrial companies

Name and address of employer | Institute for Chemical and Biochemical Chemistry, Cluj-Napoca Branch, Babeş-Bolyai University, M.

Kogălniceanu no. 1, Cluj-Napoca, RO-400028

Type of business or sector Research

Dates 1980-1982

Main activities and responsibilities | Laboratory analyses

Name and address of employer | "Aghireş" Mining company, Aghireş, Cluj county

Type of business or sector Refractory sand and kaolin production, laboratory analyses

Education and training

Dates Oct. 1985 - Apr. 1990

Title of qualification awarded PhD in chemistry

Principal subjects/occupational skills | Inorganic and organometallic chemistry

Name and type of organization Babeş-Bolyai University, Faculty of Chemistry and Chemical Engineering, Inorganic Chemistry providing education and training Department, Clui-Napoca, Romania

Level in national or international classification

Dates | Sept. 1979 – July 1980

Title of qualification awarded MSc in Inorganic Chemistry

Principal subjects/occupational skills Inorganic and organometallic chemistry

Name and type of organization providing education and training Department, Cluj-Napoca, Romania

Level in national or international classification

Dates | Sept. 1975 – July 1979

Title of qualification awarded BSc in chemistry

classification

Principal subjects/occupational skills Chemistry

covered

Name and type of organization providing education and training Level in national or international

Babeş–Bolyai University, Faculty of Chemistry and Chemical Engineering, Inorganic Chemistry Department, Cluj-Napoca, Romania

Personal skills and competences

Research stays at:

- Bremen Universität (Germany) (visiting professor 1993, 3 months)
- Vrije Universiteit Brussel (Belgium) (EC COST grant 1993, 2 months)
- Instituto de Quimica, Universidad Nacional Autonoma de Mexico (Mexico) (visiting professor 1993-1995, 2 years)
- Oxford University (UK) (grant for International Journal Authors, Royal Society of Chemistry 1999, 2 months)
- Michigan State University (USA) (visiting research associate 2000, 5 months)
- Universidad de Zaragoza (Spain) (NATO fellowship 2004, 9 months)

Invited conferences at other Universities: Universidad Automoma de Puebla, Mexico (1994), Universidad Autonoma Metropolitana, Mexico, D.F. (1994), Centro de Investigacion y de Estudios Avansados, Instituto Politecnico Nacional, Mexico, D.F. (1995), Universität Bremen (2008, 2013), Technische Universität Braunschweig (1996), Universidad de Zaragoza (2002, 2009), Universidad de la Rioja, Logrogno (2002), Heidelberg Universitä (2006), Universita di Cagliari (2006, 2009), Jacobs University, Bremen (2009, 2013, 2016), University of Ioannina (2010), Technische Universität Chemnitz (2010), Essen-Duisburg Universität (2010), Ludwig-Maximilians-Universität München (2010), GAMBRINUS Lecture, awarded by the Technische Universität Dortmund (2010), Grand Valley State University, Allendale, MI (2014), Brooklyn College, City University of New York (2015), Clarkson University, Postdam, NY (2015)

Invited lectures (selection):

- "Recent Developments in Organometallic Chemistry of Hypervalent Group 15 (Sb, Bi) Compounds" invited lecture presented at Heidelberg Universität (Germany), Universita di Cagliari (Italy) (2006).
- "Organopnicogen Compounds (M = Sb, Bi) as Ligands in Transition Metal Chemistry" invited lecture presented at Bremen Universtät (Germany) (2008).
- "Recent Results in the Hypervalent Organometallic Chemistry Organopnicogen Compounds (M = Sb, Bi) as Ligands in Transition Metal Chemistry" invited lecture presented at Universidad de Zaragoza (Spain), Jacobs University (Germany), Universta di Cagliari (Italy) (2009); University of Ioannina (Greece), Technische Universität Chemnitz, Essen-Duisburg Universität, GAMBRINUS Lecture at Technische Universität Dortmund (Germany) (2010).
- "Hypercoordinated Organopnicogen (M = Sb, Bi) Compounds Monomeric Species, Oligomers and Supramolecular Networks" invited lecture presented at Ludwig-Maximilians-Universität München (Germany) (2010).
- "Main Group Organometallic Chemistry Unusual Species and Metalloligands" invited lecture
 presented at Grand Valley State University, Allendale, MI (2014), Brooklyn College, City University of
 New York (USA) (2015).
- "Chemistry and Chemical Engineering in Romania Teaching and Research" invited lecture presented at Clarkson University, Postdam, NY (USA) (2015)
- "Organometallic Compounds as Building Blocks for Supramolecular Architectures" invited lecture presented at Jacobs University (Germany) (2016)

Mother tongue(s)
Other language(s)
Self-assessment
European level (*)
English
Spanish

French

Romanian

English, Spanish, French

Understanding				Speaking				Writing
Listening Reading		Spoken interaction		Spoken production				
C1		C2		C2		C1		C1
C1		C2		C2		C2		B2
C1		C2		B2		B2		A2

(*) Common European Framework of Reference for Languages

Social skills and competences

Excellent and very good relationship with the other members of the teaching and research staff of the Faculty and University, with colleagues from other research groups I collaborated abroad or with the members (undergraduate students, MSc and PhD students, or researchers) of my research group

Organisational skills and competences

- PhD adviser from 1999 (18 thesis defended to obtain the PhD degree)
- Co-director (with Prof. Dr. Ion Grosu) of THE CENTRE OF SUPRAMOLECULAR ORGANIC AND ORGANOMETALLIC CHEMISTRY CSOOMC. Within this research centre I coordinate the activity of a research group with 3 members of the teaching staff, 4 researchers, 8-10 PhD students, several undergraduate and master students (see WEB page: http://www.chem.ubbcluj.ro/~ccsoom/organometallic/index.html)
- Coordinator of the program dedicated to the foundation of the NATIONAL CENTRE FOR X-RAY DIFFRACTOMETRY (Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-Napoca), based on a MURC (Multi-User Research Centre) grant offered by the World Bank through the Romanian Minister of Education and Research
- Coordinator of the activity on the basis of which 3 research labs were fully equipped to allow researches in organometallic synthesis, including works with air- and moisture-sensitive compounds, as well as other 2 teaching labs designed for inorganic, coordination and organometallic chemistry (see WEB page:

http://www.chem.ubbcluj.ro/~ccsoom/organometallic/index.html)

Management Experience:

- Co-director of the project "Hypervalenz" (with Prof. Dr. Hans J. Breunig, Bremen Universität, Germany), financed by Deutsches Forschungs Gemeinschaft (2001 – 2003)
- Director of several multi-annual research projects obtained by competition through the National University Research Council, including World Bank grants, Romanian Academy, National Authority for Scientific Research, in the period 1995 – 2014
- Director and coordinator of the project "Specific Techniques in the Investigation of Organometallic Compounds. Professional education and implementation strategies" (RO/2004/PL93192/S), within the LEONARDO DA VINCI program of EU (2005-2006)
- Director of the NATIONAL CENTRE FOR X-RAY DIFFRACTOMETRY (Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca) (2001 – present)
- Vice-Dean of the Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai Universitaty (1996 - 2000)
- Director of the Inorganic Chemistry Department, Faculty of Chemistry and Chemical Engineering (2011 2012)
- Director of the Chemistry Department, Faculty of Chemistry and Chemical Engineering (2012 present)
- Member of the Committee for Mathematics and Life Sciences The National University Research Council of Romania (2006 2010)
- President of the National Committee for Chemistry and Chemical Engineering / Panel 1 –
 Mathematics and Natural Sciences CNATDCU (2011 2012)
- Member of the National Committee for Chemistry and Chemical Engineering / Panel 1 –
 Mathematics and Natural Sciences CNATDCU (2016)
- Member of the Advisory Board for Research Development and Innovation National Authority for Scientific Research and Innovation, Ministry of Education and Research (2016)
- Representative of Romanian Chemical Society in the Division of Organometallic Chemistry of European Chemical Sciences - EuCheMS (2016 -)

Technical skills and competences

Research interests:

Coordination and Organometallic Chemistry of Main Group Metals and Metalloids - synthesis and structural characterization in solution and solid state as well as investigation of biological properties and applications (catalysis, CO₂ activation, material precursors):

- (i) antitumor activity of Main Group organometallic compounds (e.g. tin, antimony);
- (ii) organophosphorus(V) compounds as ligands in coordination chemistry of Main Group and transition metals:
- (iii) hypervalent [hypercoordinated] organometallic Main Group compounds containing organic groups with one or two pendant arms;
- (iv) supramolecular organometallic chemistry

Publications:

- 2 books (co-author Prof. Dr. Ionel Haiduc)
- 4 book chapters
- 213 scientific articles (182 in foreign specialized journals, 31 in national journals more than 200 papers in ISI journals)

Hirsch index = 31

Sum of the Times Cited = more than 3100 citations

http://www.researcherid.com/rid/A-3832-2010

Member of Romanian Society of Chemistry

Editorial activity:

- Regional editor for Organometallic Chemistry at *Open Chemistry* (formerly *Central European Journal of Chemistry*) (https://www.degruyter.com/view/j/chem?rskey=AVlgGn&result=2)
- member in the Editorial Board of *Current Inorganic Chemistry*(http://benthamscience.com/journals/current-inorganic-chemistry/editorial-board/#top)
- member in the Editorial Board of Revue Roumaine de Chimie (http://revroum.getion.ro/editorial-board)
- member in the Editorial Board of *Studia Universitatis Babes-Bolyai, Seria Chemia* (http://chem.ubbcluj.ro/~studiachemia/)
- member in the Editorial Board of Revista de Politica Stiintei si Scientometrie (RPSS) (http://rpss.inoe.ro/editorial)

 Referee for Coord. Chem. Rev.; Chem. Commun.; Inorg. Chem.; Organometallics; Dalton Trans.; RSC Advances; Eur. J. Inorg. Chem.; J. Organomet. Chem.; Inorg. Chim. Acta; Inorg. Chem. Commun.; Polyhedron; J. Inorg. Biochem.; Eur. J. Med. Chem.; Appl. Organomet. Chem., Main Group Metal Chem., etc.

Experience in postdoctoral projects:

- Coordinator of the research activity of several foreign PhD students (Germany, Spain, Greece) within research stays financed through the project "Homo and Hetero Metal-Metal Bond-Containing Organometallic Compounds HOHEORGMET" [Contract nr. 19 / 2006) (2006-2007)
- Coordinator of the research activity of 4 postdocs (including a foreign one)

Computer skills and competences

MS Office, Graphics software (to a certain extent), Chemistry related software (software for various spectroscopic methods, drawing and editing software)

Other skills and competences

- Corresponding Member of the Romanian Academy (from 2009)
- "Gh. Spacu" Award of the Romanian Academy for studies on the antitumor properties of organometallic compounds (1992 co-authors: Dr. Carmen Socaciu and Dr. Adela Bara)
- "Gh. Spacu" Award of the Romanian Society of Chemistry, for the whole activity in the field of chemical sciences (2011 International Year of Chemistry)
- "Senior al Cetatii" distinction, Cluj-Napoca, 2009
- Grant for International Journal Authors, Royal Society of Chemistry (1999) provided for a visit at the Chemistry Department, Oxford University (UK) (Malcolm L. H. Green's research group)
- Gambrinus Fellowship, Technische Universität Dotmund (Germany) (2010)

Additional information Annexes

Full List of publications - on request

Cluj Napoca February 10, 2017

Prof. Dr. Cristian SILVESTRU

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