



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Gabriela Nicoleta Nemes**
Address(es) 11, Arany Janos Street, RO-400028, Cluj-Napoca
Telephone(s) 40-264-591998, ext 5685 Mobile: 0040727852950
Fax(es) 40-264-590818
E-mail sgabi@chem.ubbcluj.ro; gabriela.nemes@gmail.com
Nationality Romanian
Date of birth 22.11.1971

Desired employment / Occupational field

Senior lecturer /Chemistry

Work experience

2010 - present
Scientific Secretary
Faculty of Chemistry and Chemical Engineering, Babes-Bolyai University, Cluj-NApoca

2005 - present
Senior Lecturer
Facultatea de Chimie și Inginerie Chimică, Catedra de Chimie anorganică, Universitatea Babeș-Bolyai.

2001 - 2005
Junior Lecturer
Facultatea de Chimie și Inginerie Chimică, Catedra de Chimie anorganică, Universitatea Babeș-Bolyai.

Education and training

Dates	January 2002-February 2004
Title of qualification awarded	Post-doctoral studies
Principal subjects/occupational skills covered	Synthesis, characterization and reactivity studies of heterocumulenic derivatives containing heavy main group elements
Name and type of organisation providing education and training	University Paul Sabatier, Toulouse, France/ Laboratoire Heterochimie Fondamentale et Appliquee
Dates	October 1997-November 2001
Title of qualification awarded	PhD in Chemistry
Principal subjects/occupational skills covered	Synthesis, characterization and reactivity studies of heterocumulenic derivatives containing heavy main group elements. Molecular modelling
Name and type of organisation providing education and training	Babes-Bolyai University, Cluj-Napoca, Romania/ Faculty of Chemistry and Chemical Engineering
Dates	October 1996- June 1997
Title of qualification awarded	Master of Science

Principal subjects/occupational skills covered | Synthesis, characterization and reactivity studies of coordination compounds

Name and type of organisation providing education and training | Babes-Bolyai University, Cluj-Napoca, Romania/ Faculty of Chemistry and Chemical Engineering

Dates | October 1991-June 1996

Title of qualification awarded | BsC in Chemistry

Name and type of organisation providing education and training | Babes-Bolyai University, Cluj-Napoca, Romania/ Faculty of Chemistry and Chemical Engineering

Self-assessment
European level ()*

English
French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Intermediate	B2	Intermediate	B1	Intermediate	B2	Intermediate	B1	Intermediate
C1	Advanced	C1	Advanced	C2	Advanced	C2	Advanced	C1	Advanced

(*) [Common European Framework of Reference for Languages](#)

Skills and competences

Courses taught:

General Chemistry
Inorganic Chemistry III
Practical course of Inorganic Chemistry
Ecological chemical products and processes

Research interests:

Organometallic chemistry (groups 13-15 and transition metal derivatives- synthesis and structure)
Coordination compounds chemistry and applications

Other:

Trainer's professional competences certificate 2009
Tutor in the PIR program 2003
In charge of the Continuous Education Program at the Faculty of Chemistry and Chemical Engineering

Organisational skills and competences	<p>Project coordinator: CEEX ET 49- Evaluation of the coordination ability of heteroallenic systemes E=C=E to organometallic fragments- 2006-2008</p> <p>CNCSIS At – Heteroallenes and Heterocumulenes containing group 13-15 heavy elements- organometallic polymer precursors – 2004 – 2006</p> <p>Member in the team for several research grants: <i>International Programs</i> Bilateral cooperation project Econet, 2007-2009</p> <p>Bilateral cooperation project, Heteroalcenes, –dienes et allenes precurseurs de polymeres organometallics: acces a de nouveaux materiaux, 2004-2006</p> <p><i>National Programs:</i></p> <p>Bilateral cooperation project RO-HU, Capacități Modul III, 2008-2009 (coord. Ioan Silaghi-Dumitrescu).</p> <p>CEEX-SUPRACOM, 2006-2008 (coord. Ionel Haiduc)</p> <p>CEEX-CALIXCOM, 2005-2008 (UBB coordinator: Ioan Silaghi-Dumitrescu).</p> <p>PNII-CALIXMAT, 2007-2010 (UBB coordinator: Ioan Silaghi-Dumitrescu).</p> <p>CEEX-Modul III, MOLMOD, 2006-2008 (coord: Ioan Silaghi-Dumitrescu),</p> <p>CEEX-RIOSIN, 2006-2008 (coord: Luminita Silaghi-Dumitrescu).</p> <p>CEEX-OPTOLUM 2005-2007 (coord.: L. Silaghi-Dumitrescu).</p> <p>PN II, Capacitati I -ELANCOM, 129/2007, 2007-2009 (coord.: L. Silaghi-Dumitrescu).</p> <p>PNII, Capacitati I, contract 130,2007, CMMCCC (coord.: Ioan Silaghi-Dumitrescu).</p>
Technical skills and competences	Synthesis, structural characterisation and reactivity of inorganic and organometallic derivatives; computational chemistry
Stays abroad	<p>September – October 1998, University Paul Sabatier, Toulouse</p> <p>September – October 1999, University Paul Sabatier, Toulouse</p> <p>September – October 2000, University Paul Sabatier, Toulouse</p> <p>2002 - 2003, Postdoctoral studies - CNRS, University Paul Sabatier, Toulouse</p> <p>2003 - 2004, NATO scholarship, University Paul Sabatier, Toulouse</p> <p>June - July 2005, AUF scholarship, University Paul Sabatier, Toulouse</p> <p>May-August 2006, University Paul Sabatier, Toulouse</p>
Awards	The Reghina & Engelbert Stukenborg Foundation award 2002
Annexes	Published papers

Published papers

1997

1. ESR study of some Cu (II)-thiocyanate complexes with diaminobiphenil ligand, L. David, O. Cozar, R. Semeniuc, M. Todica, D. Oprisor, G. Cretiu, *Balkan Physical Letter*, **1997**, 40-44.

1999

2. A New Organodithiophosphoric Derivative; Synthesis and Structural Characterisation of Bis(O)Dithiophosphoric $[(C_6H_5)_2BO]_2P(S)SH$ acid, G. Cretiu, R. Torok, D. Bugnariu, O. Jeman, I. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, **1999**, XLIV, 1-2.

2001

3. Crystal, Molecular and Electronic Structure of 9,9'-Bis(trimethylsilyl) Fluorene, Silaghi-Dumitrescu, G. Cretiu, L. Silaghi-Dumitrescu, I. Haiduc, A. Toscano, R. Cea-Olivares, *Rev. Roum. Chim.*, **2001**, 46(4), 289 - 295. (vol. Omagial Acad. Balaban)

2002

4. Cyclooligomeric Pyrogallol-Aldehyde Compounds, T. N. Ursales, E.-J. Popovici, G. Nemes and N. Popovici, *Acta Universitatis Cibinensis, Seria F Chemia*, **2002**, 2(5), 63 - 68.

5. Difluorenylsilane derivatives, a class of compounds exhibiting strong intra- and intermolecular C---H...small pi, Greek interactions. Crystal and molecular structures of bis(9-methylfluoren-9-yl)dimethylsilane and (9-methylfluoren-9-yl)(fluoren-9-yl)dimethylsilane, Gabriela Cretiu, Luminita Silaghi-Dumitrescu, Ioan Silaghi-Dumitrescu, Jean Escudié, Alfredo Toscano, Simon Hernandez and Raymundo Cea-Olivares, *J. Organomet. Chem.*, **2002**, 659, 95-101.

2003

6. The use of a germene for the synthesis of esters of -germyl-substituted -amino acid and -aminophosphonic acid, S. Ech-Cherif El Kettani, J. Escudie, C. Couret, H. Ranaivonjatovo, M. Lazraq, M. Soufiaoui, H. Gornitzka, G. Cretiu Nemes, *Chem. Commun.*, **2003**, 1662-1663, DOI: 10.1039/b303661h

7. New Halo Compounds of Si, P, As and Sb bearing a Bulky Substituted Fluorenyl Group, L. Baiget, M. Bouslikhane, J. Escudié, G. Cretiu Nemes, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, *Phosphorus, Sulfur, Silicon and Related Elements*, **2003**, 178(9), 1949 - 1961

2004

8. A Nouvel Disiloxanediolato - Derivative of Tin(IV), Petronela. M. Petrar, Gabriela Cretiu Nemes, Ioan Silaghi-Dumitrescu* *Studia Univ. Babeş-Bolyai, Chemia*, **2004**, XLIX(2), 209-216.

9. Phosphasila- (germa- and arsa-)allenes -P=C=E (E = Si, Ge, As) and arsa- and diarsaallenes -As=C=E' (E' = C, As) (review), Jean Escudie, Henri Ranaivonjatovo, Meryim Bouslikhane, Yamna El Harouch, Lise Baiget and Gabriela Cretiu Nemes, *Russian Chemical Bulletin, Int. Ed.* **2004**, 53, 1020-1033 (review).

2005

10. The surprisingly stable lithiochloro compound $RC1_2Si-C(Li)=PMes^*$: a synthetic equivalent of a chlorophosphasilaallene, G. Cretiu Nemes, H. Ranaivonjatovo, J. Eescudie, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, H. Gornitzka, *Eur. J. Inorg. Chem.*, **2005**, 1109-1113.

11. Difluorenylsilanes, germanes and -stannanes exhibiting an unprecedented parallel arrangement of the fluorenyl groups, Gabriela Cretiu Nemes, Luminita Silaghi-Dumitrescu, Ioan Silaghi-Dumitrescu, Jean Escudié, Henri Ranaivonjatovo, Kieran C. Molloy, Mery F. Mahon and Julio Zukerman-Schpector, *Organometallics*, **2005**, 24, 1134-1144.

12. The first evidence for a transient stibaallene $ArSb=C=CR_2$, L. Baiget, H. Ranaivonjatovo, J. Escudie, G. Cretiu Nemes, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, *J. Organomet. Chem.*, **2005**, 690, 307-312.

13. Synthesis and Stereochemistry of New Bis(1,3-Oxathian-2-yl) Derivatives: Epimerisation and Chair-Twist Equilibria, C. Cismas, I. Grosu, G. Pl, E. Condamine, Y. Ramondenc, L. Toupet, I. Silaghi-Dumitrescu, G. Nemes, A. Terec, L. Muntean, *Structural Chemistry*, **2005**, 16, 369-377

- 14.** Anodic Oxidation Of Difluorenyls Bridged Through a Dimethylsilyl Group and the 9-trimethylsilyl fluorene :towards New Three-Dimensional Polyfluorenes,
Ioan Silaghi-Dumitrescu, Jean Escudie, Gabriela Cretiu Nemes, Eugène Raoult, Joëlle Rault-Berthelot, *Synthetic Metals*, **2005**, *151*, 114-119.
- 2006**
- 15.** New halo compounds of silicon and tin, potential precursors of $>E=C=P-$ heteroallenic systems,
P. M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, **2006**, *LI* (1), 77.
- 16.** Synthesis of new bromo-stannanes: toward unsaturated tin derivatives, P. M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, L. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, **2006**, *LI* (2), 33-39
- 17.** Phosphavinylidene(oxo)phosphorane $Mes^*P(O)=C=PMes^*$: A Diphosphaallene Featuring $\lambda 5\sigma 3-$ and $\lambda 3\sigma 2-$ Phosphorus Atoms,
Raluca Septelean, Henri Ranaivonjatovo, Gabriela Nemes, Jean Escudié, Ioan Silaghi-Dumitrescu, Heinz Gornitzka, Luminita Silaghi-Dumitrescu, Stéphane Massou, *Eur. J. Inorg. Chem.*, **2006**, 4237-4241
- 2007**
- 18.** New Digermylalkenes and Digermylalkynes: [1,3]-Chlorine Shift in Organogermanium Chemistry?, Gabriela Nemes, Jean Escudie, Ioan Silaghi-Dumitrescu, Henri Ranaivonjatovo, Luminita Silaghi-Dumitrescu, Heinz Gornitzka, *Organometallics*, **2007**, DOI: 10.1021/om061188j CCC 26, 5136-5139.
- 19.** 1,3-Digermacyclobutanes with exocyclic CLP and CLPLS double Bonds, Petronela Maria Petrar, Gabriela Nemes, Ioan Silaghi-Dumitrescu,* Henri Ranaivonjatovo, Heinz Gornitzka and Jean Escudié*, *Chem. Commun.*, **2007**, *40*, 4149-4151.
- 20.** Silatropic migration in (1-trimethylsilylindenyl) (indenyl) dimethylsilane, bis(1-trimethyl-silylindenyl) dimethylsilane and related compounds.
Gabriela Nemes, Luminita Silaghi-Dumitrescu, Ioan Silaghi-Dumitrescu, Jean Escudié, Henri Ranaivonjatovo and Julio Zukerman-Schpector, *Rev. Roum. Chim.*, **2007**, *52*, 809-816.
- 21.** Synthesis and Characterization of the First Arsanyl(methylene)phosphorane $(Me_3Si)_2C=P(Mes^*)=C(Cl)-As(F)Mes^*$
Petronela Maria Petrar, Gabriela Nemes, Luminita Silaghi-Dumitrescu, Ioan Silaghi-Dumitrescu*, Jean Escudié, Heinz Gornitzka, Henri Ranaivonjatovo, *Rev. Roum. Chim.*, **2007**, (1), 3.
- 22.** Secondary interactions in heteroallenic system with $P=C=E$ units, Gabriela Nemes, Ioan Silaghi-Dumitrescu, Petronela Maria Petrar, Raluca Septelean, Luminita Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, **2007**, *LII* (1), 3.
- 23.** Towards the new double-bonded organophosphorus derivative of $C=P=C=P$ type, Gabriela Nemes, Raluca Şeptelean, Petronela M. Petrar, Luminița Silaghi-Dumitrescu, Ioan Silaghi-Dumitrescu*, *Studia Univ. Babeş-Bolyai, Chemia*, **2007**, *LII* (4), 91-96.
- 2009**
- 24.** Lower Rim Silyl Substituted Calix[8]Arenes, N. Fleuret, S. Paic, G. Nemes, R. Septelean, P. Petrar, I. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, **2009**, *53*, 81-87.
- 25.** vic-Dichlorodiphosphopropanes –Synthesis and coordination ability, Raluca Septelean, Gabriela Nemes, Jean Escudie, Ioan Silaghi-Dumitrescu, Henri Ranaivonjatovo, Petronela Petrar, Heinz Gornitzka, L. Silaghi-Dumitrescu, N. Saffon, *Eur. J. Inorg. Chem.*, **2009**, 628-634.
- 26.** An Insight into the Structure of Model Germaphosphaallenes,
P.M. Petrar, G. Nemes, I. Silaghi-Dumitrescu, J. Escudie, H. Ranaivonjatovo, *Mol. Phys.*, **2009**, *107*, 1161-1167.
- 27.** Narrow-Rim Alkenyl Calix[n]Arene Synthesis and Spectral Characterization, A. Saponar, E.J. Popovici, N. Popovici, E. Bica, G. Nemes, P. Petrar, I. Silaghi-Dumitrescu, *Rev. de Chimie*, **2009**, *60*, 278-282.
- 28.** Theoretical Aspects of Main Group Multiple Bonded Systems,
I.Silaghi-Dumitrescu, P. Petrar, G. Nemes, R. B. King, *Computational Inorganic and Bioinorganic Chemistry*, Edward I. Solomon (Editor), Robert A. Scott (Co-Editor), R Bruce King (Co-Editor), John Wiley & Sons, pp.1-13, **2009**.
ISBN: 978-0-470-69997-3.

2010

29. Phosphasilaallenes $>Si=C=P-$ and phosphagermaallenes $>Ge=C=P-$, Jean Escudié, Gabriela Nemeş, *Comptes Rendus Chimie*, **2010**, [doi:10.1016/j.crci.2010.03.012](https://doi.org/10.1016/j.crci.2010.03.012)

30. A Theoretical Approach on the Structure of Arsaallenes $-As=C=C<$ and Arsaphosphaallenes $-As=C=P-$, P. M. Petrar, G. Nemes, L. Silaghi-Dumitrescu, *Studia Univ. Babeş-Bolyai, Chemia*, **2010**, *54*, 25-37.