

November 5th, 2023 Paris, France

CURRICULUM VITAE

RAZVAN CARACAS

□ EDUCATION

- 2010 HdR (Habilitation) "Earth and planetary materials from a computational perspective", Ecole Normale Supérieure de Lyon, Lyon, France
- Ph.D. (Material Physics) "First-principles study of materials involved in incommensurate 2003 transitions", Université Catholique de Louvain, Louvain-la-Neuve, Belgium
- M.Sc. (Material Physics) "Ab initio simulations of incommensurate phases" Université 2002 Catholique de Louvain, Louvain-la-Neuve, Belgium
- 1997 B.Sc. (Geology and Geophysics), "Structural morphology of crystals. Application to oxide minerals", Universitatea Bucuresti, Bucharest, Romania

2003 - 2004

1997 - 2003

1995 - 1997

2007 - 2010

\Box EM	PLOYMENT
2021 –	Directeur de Recherche (Senior Researcher), Centre National de la Recherche
	Scientifique, Institut de Physique du Globe de Paris, Paris, France
2018 –	Professor II
	Centre for Earth Evolution and Dynamics/Center for Planetary Habitability, University of Oslo, Oslo, Norway
2014 - 1	Directeur de Recherche (Senior Researcher), Centre National de la Recherche
	Scientifique, Laboratoire de Géologie de Lyon, Ecole Normale Supérieure de Lyon,
	Lyon, France
2007 - 1	9 , , ,
	Supérieure de Lyon, Lyon, France
2007 –	Humboldt Fellow, Bayerisches Geoinstitut, University of Bayreuth, Bayreuth,
	Germany
2006 –	
	Bayreuth, Germany
2004 –	8 , 8 , 17
	Washington, DC, USA

Post-doctoral/Research associate, University of Minnesota, Department of Chemical Engineering and Materials Science, Minneapolis, MN, USA

Teaching assistant, Université Catholique de Louvain, Faculty of Sciences,

Research assistant, University of Bucharest, Faculty of Geology and Geophysics,

Visiting scientist, Carnegie Institution of Washington, Geophysical Laboratory,

Dr. Razvan Caracas

Department of Mineralogy, Bucharest, Romania

Louvain-la-Neuve, Belgium

Washington, DC, USA





☐ FELLOWSHIPS AND AWARDS

2023	Elected Member of the Academia Europaea
2023	Dana Medal of the Mineralogical Society of America
2022	Elected Fellow of the Mineralogical Society of America
2020	PRACE Award for 60 million CPU hours of computing time.
2016	Ad Astra Award for Excellence in Research, Earth and Space Sciences
2015	European Research Council Consolidator Grant: "IMPACT. The giant impact and
	the Earth and Moon formation" (Grant agreement no. 681818)
2013	Research Excellence Medal of the European Mineralogical Union
2013	Prime d'Excellence Scientifique, CNRS, France
2012	Prix Henri Buttgenbach, Académie Royale des sciences, des lettres et des beaux-arts
	de Belgique, Bruxelles, Belgium
2008:	Poster Prize, ScSSI (Science of the Solar System Ices) Workshop
2007 - 2008	Humboldt Fellowship, Bayerisches Geoinstitut, University of Bayreuth, Germany
2004 - 2006	Carnegie Postdoctoral Fellowship, Geophysical Laboratory, Carnegie Institution of
	Washington, USA
1995	1st award Robert Weimar in Sedimentology, University of Bucharest, Romania
2012	Outstanding Student Paper Awards - Mineral and Rock Physics (MRP)
	awarded to Aaron S. Wolf, Caltech, for a presentation on "Thermodynamic phase
	relations in the MgO-FeO-SiO ₂ system in the lower mantle". Co-authoring: R.
	Caracas, P. Asimow.

□ SCIENTIFIC PRODUCTION

Researcher unique identifier(s) (Research ID): C-8115-2012

- peer-reviewed papers with a total of 11500+ citations, 37 *h*-index, 77 *i*-10 index (acc. to Google Scholar)
- oral presentations (out of which 174 in international conferences, including 62 regular invited and 5 keynotes; and 53 in lab seminars, including 29 invited).

PATENTS

Ordered Oxynitride Perovskites - Inventors: Razvan Caracas and Ronald E. Cohen

US Patent 8,287,831(2012); US Patent 20,130,071,312 (2013); Korea Patent 10-1489849 (2015).

□ RESEARCH GRANTS

Financial (PI-only listed)

I maneral (II only noted)	
2023 - 2024	"VADIS: Vapor envelopes after giant impacts, protolunar disks, and synestias",
	LabEx UnivEarthS Université Paris Cité, 160 kEuros
2021 - 2025	"HIDDEN: Is the Earth's core the hidden reservoir of noble gases?", The Research
	Council of Norway, 12,8 Million NOK (~1.2 Million euros)
2016 - 2023	"IMPACT: The Giant Impact and the Earth and Moon Formation", ERC
	Consolidator Grant, 1.9 Million Euros

Dr. Razvan Caracas

Senior Researcher

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2017 - 2019	"Carbon-bearing silicate melts" 30 kUSD, Deep Carbon Observatory Support Grant
	of the Extreme Physics and Chemistry Directorate
2016	"Realistic geological melts during the giant impact: thermodynamics and possible
	remote identification", CNRS INSU support grant, 5 kEuros
2016 - 2018	"Stability of carbonate minerals and the carbon hosts in the Earth's deep mantle"
	CNRS PICS Cooperation grant for travel to Caltech – 18 kEuros
2013 - 2017	"Carbonatite melts in the Earth' mantle", 40 kUSD, Deep Carbon Observatory
	Support Grant of the Extreme Physics and Chemistry Directorate
2012 - 2015	"Minor element partitioning between metal and silicate melts during core formation",
	100 kEuros, PhD scholarship from the French Ministry of Education
2013 - 2015	"Carbonated fluids and melts of the Earth's mantle" CNRS PICS Cooperation grant
	for travel to Carnegie Institution – 18 kEuros
2013 - 2014	"Element partitioning in the magma ocean" PROCOPE - French-German travel
	grant, 12 kEuros
2010 - 2014	"The light elements of the Earth's core" CIBLE project with the Rhone-Alpes
	region, 118 kEuros (including PhD scholarship)
2010 - 2013	"The light elements of the Earth's core", CNRS INSU support grants, 24 kEuros
2010 - 2011	"Multidisciplinary studies of structures in the deep mantle", PROCOPE - French-
	German travel grant, 12 kEuros
2008 - 2009	"Iron distribution in the Earth's mantle", CNRS INSU support grants, 22 kEuros
2007 - 2016	"WURM - a database of computed Raman spectra for minerals", Private funding of
	450 kEuros.
Comp	outational (in CPU hours)
Sources:	
DADIO	· 201V10/2/0 F

DARI Grant series x201X106368, France

PRACE RA4947 grant (Partnership for Advanced Computing in Europe)

NOTUR NN9697K grant, Norway

Amounts

2020

2023 25,000,000 CPU hours on a DARI Grant on Irene-AMD @ CCRT 10,000,000 CPU hours on Jean-Zay @ IDRIS 5,000,000 CPU hours on Adastra Genoa @ CINES 3,000,000 CPU hours on Fram at Univett/Sigma2 22,000,000 CPU hours on Betzy at Univett/Sigma2

2022 45,000,000 CPU hours on a DARI Grant on Irene-AMD @ CCRT 2,000,000 CPU hours on Jean-Zay @ IDRIS 15,000,000 CPU hours on Fram at Univett/Sigma2

20,000,000 CPU hours on Betzy at Univett/Sigma2
30,000,000 CPU hours on a PRACE RA4947 grant on Irene-AMD @ CCRT
9,058,560 CPU hours on OCCIGEN @ CINES
10,773,560 CPU hours on Jean-Zay @ IDRIS

27,239,081 CPU hours on a DARI Grant on Irene-AMD @ CCRT

10,000,000 CPU hours on Fram at Univett/Sigma2

5,000,000 CPU hours on Jean-Zay @ IDRIS 30,000,000 CPU hours on a PRACE RA4947 grant on Irene-AMD @ CCRT 5,000,000 CPU hours on Fram at Univett/Sigma2

2019 22,402,560 CPU hours on OCCIGEN @ CINES 4,000,000 CPU hours on ADA @ IDRIS 7,000,000 CPU hours on IRENE KNL @ CCRT

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2018	16,378,908 CPU hours on OCCIGEN @ CINES
	4,385,357 CPU hours on ADA @ IDRIS
	2,681,972 CPU hours on CURIE @ CCRT
2017	6,464,000 CPU hours on CURIE @ CCRT
	4,339,000 CPU hours on IBM @ IDRIS
	11,080,000 CPU hours on SGI @ CINES
2016	3,700,000 CPU hours on CURIE @ CCRT
	2,970,000 CPU hours on IBM @ IDRIS
	3,900,000 CPU hours on SGI @ CINES
2015	2,650,000 CPU hours on CURIE @ CCRT
	2,240,000 CPU hours on IBM @ IDRIS
	6,420,000 CPU hours on SGI @ CINES
2014	1,200,000 CPU hours on CURIE @ CCRT
	250,000 CPU hours on IBM @ IDRIS
	2,340,000 CPU hours on SGI @ CINES
2013	1,400,000 CPU hours on CURIE @ CCRT,
	1,900,000 CPU hours on SGI @ CINES
2012	1,900,000 CPU hours on SGI @ CINES
2011	1,800,000 CPU hours on SGI @ CINES
2010	100,000 CPU hours on Bull Itanium @ CCRT,
	1,800,000 CPU hours on SGI @ CINES
2009	"Computational study of Earth and planetary materials,
	80,000 CPU hours on IBM @ IDRIS,
	570,000 CPU hours on SGI @ CINES
2009	"Planetary ices and molecular crystals under extreme conditions"
	100,000 CPU hours on IBM @ IDRIS,
	120,000 CPU hours on SGI @ CINES
2008	"Planetary materials: high-density C-O-N-H fluids", BSC grants FI-2008-1-0015 and FI
	2008-2-0027,
	770,000 CPU on Caesar Augusta, University of Zaragoza, National Center of
	Supercomputing, Spain.
2005 -	- 2013 (Co-PI) "Computational study of Earth and planetary materials", NSF grant

2005 – 2013 (Co-PI) "Computational study of Earth and planetary materials", NSF gran MCA07S009,

~ 1 million CPU hours on a series of supercomputers on Teragrid

□ SUPERVISION OF STUDENTS AND RESEARCHERS

Current:

Post-doctoral researchers

- * Dr. Anne Davis, HIDDEN NFR Grant (University of Oslo), March 2022 March 2025
- * Dr. Sarah Figowy, HIDDEN NFR Grant (University of Oslo), June 2022 June 2025
- * Dr. Tim Bögels, LABEX VADIS Grant (Université Paris Cité), June 2023 June 2024 <u>PhD students:</u>
- * Mathilde Andronaco, Dissolution of atmospheres in magma oceans, CNRS fellowship. started October 2023
- * Ana Anzuloviç, Modeling impact of melts on mantle diffusion and viscosity with geodynamic implications, CoFUND University of Oslo fellowship, started September 2022
- * Adrien Saurety, *Behavior of chondrites during shock compression*, ENS Lyon fellowship, started September 2022

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- * Xi Zhi, Serpentines during shock from machine learning simulations, visiting CSC fellow, (October 2022 January 2024)
- * Emma Stoutenberg, *Solubility of hydrogen in molten iron*, visiting from University of Chicago (2022 2024)

Former:

Fellows

- * Dr. Mandy Bethkenhagen, *Ice-rock interface in Neptune-type planets*, Marie-Curie Fellow, September 2020 August 2022
- * Dr. Francois Soubiran, ABISSE Ab initio simulations for Super-Earths, Marie-Curie Fellow, September 2017 August 2019

Other staff:

- * Kevin Jiguet, UMD developer, software engineer, (March August 2023)
- * Léna Martin, Curator of the "Moon Impact, a geological story" exhibition, November 2019 January 2022

Post-doctoral researchers:

- * Dr. Özge Ozgürel, CEED grant (University of Oslo), February 2021 January 2023
- * Dr. Natalia Solomatova, *Volatiles-bearing silicate melts during the Giant Impact*, IMPACT project, October 2017 August 2021
- * Dr. Mandy Bethkenhagen, Silicate melts during the Giant Impact, IMPACT project
- * Zhi Li, Fe-based alloys during the Giant Impact, IMPACT project

Researchers:

* Dr. Ema Bobocioiu, *Raman spectra of the WURM project*, October 2008 – August 2016; Electronic and vibrational properties of silicate glasses, IMPACT, September 2016 – August 2020

PhD students:

- * Tim Bögels, Behavior of major rock-forming minerals during the Giant Impact, IMPACT project, graduated February 2023
- * Zhi Li, Fe-based alloys during the Giant Impact, IMPACT project, graduated January 2021
- * Renata Brandelli Schaan, Silica and hydrous during the Giant Impact, IMPACT project, graduated September 2022
- * Anais Kobsch, Supercritical silicate melts, IMPACT project, graduated September 2020
- * Jean-Alexis Hernandez, First-principles modeling of the superionic phases and of the rheology of dense water ices under extreme conditions of pressure and temperature", graduated July 2017
- * Alexandra Catalina Seclaman, Chemical and physical behavior of trace elements in the silicate melts of the Earth's mantle, graduated April 2016
- * Alexandre Martin, Calculations of the linear response under strain and electric field in the Projector Augmented Wave formalism. Application to the computation of the sound wave velocities for relevant materials in geophysics, graduated October 2015 (co-supervised with Marc Torrent, CEA)
- * Baptiste Journaux, *Mineralogical study of planetary ices under pressure*, graduated in 2013 (cosupervised with Isabelle Daniel)
- * Lucile Bezacier, *Elastic properties of hydrated minerals: Application to the seismic anisotropy in the subduction zones*, graduated in 2011 (co-supervised with Bruno Reynard)

Master students:

- * Valiantsin Darafeyou, Superionic phases in simple compounds, graduated in 2023
- * Marco Bransini, Onset of superionicity in iron-bearing superionic ice, graduated in 2022
- * Adrien Saurety, Diffusion of noble gases in silicate melts, graduated in 2022
- * Anaïs Kobsch, Supercritical state in the feldspars mineral system, graduated in 2017

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- * Nina Bothamy, Raman spectra of Na-based Martian sulfates, graduated in 2015
- * Eugenia Vasile, Raman spectra in the magnesite dolomite calcite series, graduated in 2014
- * Alina Ilie, Raman spectra diamond and related phases at high temperature, graduated in 2014
- * Vincent Clesi, Elasticity of Fe3+-bearing perovskite and post-perovskite, graduated in 2012
- * Christian Cardenas, Mineral interfaces in the lower mantle, graduated in 2012
- * Alejandra Vargas Calderon, Fe₃C under pressure, graduated in 2010
- * Rosa Davila Martinez, Methanol monohydrate under pressure, graduated in 2010

BSc. students:

- * Nidarsana Thanapalasingam, internship, 2023
- * Adrien Saurety, internship, 2020
- * Helene Plihon, graduated in 2018
- * Olivier Hercot, graduated in 2002 (co-supervisor Prof. Jean Naud, Université Catholique de Louvain)
- * Colinne Lannoye, graduated in 2003 (co-supervisor Prof. Jean Naud, Université Catholique de Louvain)

□ TEACHING

At ENS Lyon (courses + labs):

- 2009 2021 "Physics of Minerals I" class for Master 1 curriculum, ENS de Lyon (3 credits, 30 hours)
- 2009 2021 "Physics of Minerals II" class for Master 2 curriculum, ENS de Lyon (3 credits, 30 hours)
- 2007 2009 One module on computational mineralogy in the "Physics of the Earth" class from the Physics Master curriculum

At Université Catholique de Louvain (labs)

2000 – 2003 Geological cartography (2nd year, Geology and Geography

2000 – 2001 Optics (2nd year, Geology students)

1998 – 2002 Introduction to Earth Sciences (1st year, students in the Faculty of Sciences and Faculty of Agronomical Sciences)

1998 – 2001 Thermodynamic geochemistry (3rd year, Geology students)

1998 – 2001 Ore mineralogy (4th year, Geology students)

1997 – 2001 Mineralogy (2nd year, Geology students)

□ ORGANISATION OF SCIENTIFIC MEETINGS

2025 "The Earth befo	e the Great Oxydat	ion Event" - Organizer
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Bucharest, Romania 2025

2024 "MATHS: Macroscopic, Atomistic, and THermodynamic models of mineralS and

meltS" – Co-organizer

Thessaloniki, Greece, 2024

2024 "Earth and Planets Origin and Evolution Workshop" – Co-organizer

Paris, France, 2024.

2023 "UMD: Melts and Fluids from Ab Initio Molecular Dynamics Simulations" -

Organizer

School at the International Union of Crystallography Meeting, Melbourne,

Australia

2022 President of the 23rd General Meeting of the International Mineralogical

Association 2022, Lyon, France

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2021	"Empirical and ab initio thermodynamic models of minerals and melts" – Co-
	organizer
2020	Athens, Greece, about 40 students
2020	"WURM Raman school" - Organizer
2010	Lyon, France, 40 students
2018	"Thermodynamic and ab initio modeling of natural fluids and melts" – international school; Co-organizer; Milos, Greece
2017	"Ab initio tools for hypothesis testing" – Co-organizer;
2017	Compres 2017, pre-meeting workshop/school, Tamaya Resort, New Mexico, USA,
	25 participants
2017	"ABIDEV 2017: The 8 th ABINIT developers workshop" – Co-organizer; Fréjus,
2017	France, 40 participants
2016	"Thermodynamic and ab initio modeling of natural fluids and melts" – CECAM
	international school; Co-organizer; Lausanne, Switzerland
2015	"Carbon at extreme conditions" – CECAM meeting, Main PI, Lugano, Switerland
2014	"WURM Raman school" - CNRS school, Director, Lyon, 30 students
2014	"Dynamical, dielectric and magnetic properties of solids with ABINIT " - CECAM
	international school; Director, Lyon, France; 28 students
2012	"Response treatment for the dynamical properties of materials with the ABINIT
	package" – CECAM international school; Co-organizer; Zürich, Switzerland; 40
	students
2011	"Dynamical Properties of Earth and Planetary Materials" - CECAM international
	workshop; Director; Lausanne, Switzerland; 30 participants
2010	"Linear and non-linear responses of solids with the ABINIT software: phonons,
	electric fields, and other perturbations" – CECAM international school; Co-
	organizer; Lausanne, Switzerland; 40 students
2008	"The Science of Solar System Ices (ScSSI): A Cross-Disciplinary Workshop";
	Member of the International Organizing Committee; 80 participants; Oxnard,
	California.
2005 –	Main- or co-organizer of a large number of special sessions in international
	conferences

□ SOFTWARE DEVELOPMENT

UMD package (2017-present)

The Universal Molecular Dynamics package is a python-based open-source package to analyze the results stemming from ab initio molecular-dynamics simulations of fluids. The package allows the computation of a series of structural, transport, and thermodynamic properties. url: https://github.com/rcaracas/UMD_package

ABINIT development (1998 – 2003, 2012-2015)

- implementation of the elastic response in density functional perturbation theory in the projected augmented wavefunctions formalism
- implementation of the magnetic and non-magnetic symmetry space groups and related subjects (symmetrization of the stresses, the dynamical matrices, etc.)
- development of cut3d, a tool used to build 1-, 2- and 3-Dimensional sections through grid-like crystallographic objects (like electron density, potential, Fermi surface etc)



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- implementation of the automatic construction of the maximally-localized lattice Wannier functions from the calculated phonon band structures (in collaboration with Prof. Karin Rabe, Rutgers University of New Jersey, Dept. of Physics and Astrophysics)
- utility for automatic generation of the crystal structures of elements for tests of the pseudopotentials
- utility for automatic recognition of the symmetry labels for vibrational modes in Gamma
- various other crystallographic utilities, mainly dealing with the generation of the symmetry space groups and visualization of the symmetry operations.
- implementation of the response under strain and the automatic calculation of the elastic constants tensor within the framework of the planar augmented wavefunctions (co-PI)
- 2001 MeandSym C software used to create random meander channels "with different geostatistical constraints (unpublished)
- 1997 ATM2DXF Visual Basic software used to create *.dxf files of mineral structures (published in the Proceedings vol. of the Romanian Conference on Advanced Materials, Bucharest, 1997).
- 1997 Madelung Visual Basic software used to compute Madelung energies and electrostatic potentials for ionic crystals (published in Ann. Univ. Buc., Geology, 1998)
- 1996 FracDim Matlab-based software used to measure fractal dimensions of 2D objects (unpublished)

\square OUTREACH

"MOON IMPACT - a geological story" exhibition

The itinerant international exhibition "Moon Impact – a geological story" is the main outreach of the ERC IMPACT project.

The exhibition "Moon Impact, a geological story" tells the story of the Giant impact and the Moon formation in the context of the geological evolution of the Earth and of the solar system. The time flows inside the exhibition, starting with the formation of the solar system and ending with the present day. However, time is not linear and different moments of the history of our planet that last considerably different amounts of time might have equal space inside the exhibition, thus reflecting their importance. Apart from natural geological samples and meteorites, the exhibition features large-scale posters, translucent 3D window prints, movies, and 3D printed models of the atoms in melts and volcanic gas bubbles stemming from atomistic simulations, and much more.

The exhibition was presented at the Museum of Art, in Brasov during March 19th – June 12th, 2021. The exhibition, after a slight refurbishment, was on display at the National Museum of Natural History "Grigore Antipa" in Bucharest, Romania between July 2nd, 2021 and January 16th, 2022. We organized a series of public guided visits of the exhibition and an evening of conferences for the large public around the autumn equinox in fall 2022. The exhibition moved to Bulgaria, first to the National Museum Earth and Man in Sofia (January – September 2022) and then to the Museum of Natural History in Plovdiv (September 2022 – February 2023).

Currently, the MoonImpact exhibition is on sho at the Mineralogy Museum of Munich, where it will be seen from October 26th, 2023 until May 26th, 2024. The next visits will be in Jena (May – December 2024) and Würzburg (January – June 2025).

MEDIA COVERAGE

Two short interviews with the Radio Romania 1 station about the Moon Impact exhibition at the "Romanians in Diaspora" morning show







2019	An article on "Is there life on super-Earths? The answer could lie in their cores" for the Horizon Magazine of the European Research Council
2019	An article on "How scientists are piecing together the history of the moon" for the Horizon Magazine of the European Research Council
2017	A series of highlights related to the discovery of a new high-pressure form of cristobalite silica; in: Phys.org, DESY news, UPI.com, Science Daily
2017	A highlight on the GENCI (The French Group of Supercomputing Centers) website about the recent activity of the computational mineralogy group in Lyon.
2016	An article at the HotNews.ro news agency about the Ad Astra awards 2016, for the Award on Excellence in Research, Earth and Space Sciences
2016	An article in the Swiss weekly Le Matin Dimanche about the new Science paper on the role of pressure on Fe isotope partitioning and the content in light elements of the Earth's core.
2016	Radio show "Planet – The world in which we will leave" at the Romanian Cultural Radio, Bucharest, Romania, about the ERC Consolidator Grant
2015	Research talk at KITP (the Kavli Institute for Theoretical Physics at University of California in Santa Barbara), during the Evoplanets long program.
2013	Press release of the INSU, CNRS about the 2013 Research Excellence Medal of the European Mineralogical Union
2006	"You don't understand the pressure" by J. William Bell, in Acces, 19 (3), 7-10, published by the National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign

□ FIELDTRIPS

2000 - 2002	different short fieldtrips in the Paleozoic sedimentary regions of Southern Belgium
	mentoring 1st year undergraduate students in Geology (Université Catholique de
	Louvain)
1998	the sedimentary region of the Southern Pyrenees Mts.
1998	Massif des Maures (metamorphism) and Massif de l'Esterel (volcanism), S of France,
	mentoring 2nd year undergraduate students in Geology (Université Catholique de
	Louvain)
1997 - 2001	different short fieldtrips in the metamorphic regions of the Southern Carpathians
1997	Sokli carbonatite, Northern Finland, sampling for Nb ores

□ MULTIMEDIA TOOLS

A 60 minutes videotape with computed crystal structures animations, realized using home-made software (e.g. ATM2SXF) and 3DStudio, presented in 1997, Bucharest.

□ COMMISSIONS OF TRUST

2022	President of the 23 rd General Meeting of the International Mineralogical
	Association 2022, Lyon, France
2018 - 2022	2 nd Vice-President of the International Mineralogical Association
2015 - 2018	Associated editor @ European Journal of Mineralogy
2013 - 2016	Member of C4 (Comité des Chercheurs Calculant au CINES – French
	supercomputing center), Ministry of Research, France

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2010 – 2022	Chair of the Theoretical and computing mineral physics sub-commission of the Physics of Minerals commission of the International Mineralogical Association.
2010 - 2012	Editorial Board @ Earth, Moon Planets, Elsevier
2012 - 2017	Chair of the Graduate Students Award and Jamieson Award committee of the
	MRP Focus Group
2009 - 2011	Member of the AGU Program Committee, on behalf of the MRP Focus Group
2009 - 2017	Member of the Mineral and Rock Physics Committee of the American Geophysical
	Union

□ INSTITUTIONAL RESPONSIBILITIES

2016 - 2019	Council Board, Laboratoire de Géologie de Lyon, Lyon, France
2014 - 2017	Scientific Advisory Board, Observatoire des Sciences de l'Univers (OSU) Lyon,
	Université Claude-Bernard Lyon 1, Lyon, France
2012 - 2014	Organizer of the Internal Seminar Series, Laboratoire de Géologie de Lyon, ENS
	Lyon

□ MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2012 –	Member, European Association of Geochemistry
2011 –	Member, European Geophysical Union
2004 –	Member, American Geophysical Union
2005 –	Member, Mineralogical Society of America

□ LANGUAGES

Romanian Native English, French Fluent

German, Norwegian, Italian Beginner/Intermediate

