

PERSONAL INFORMATION

Bogdan Stefan VASILE

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Sex Male | Date of birth 27 Dec 1982 | Nationality Romanian



WORK EXPERIENCE

03/2010–Present

Senior Researcher

University Politehnica from Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest (Romania)

Research in the field of Materials Science, Biomaterials and Nanostructured Materials, research in the field of transmission electron microscopy and Responsible of the Transmission electron microscopy laboratory from the University POLITEHNICA from Bucharest

Business or sector Research

03/2018–08/2018

Personal Counselor for Minister

Ministry of Research and Innovation

Adviser on scientific research

Business or sector Administration

05/2008–03/2010

Engineer

University Politehnica from Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest (Romania)

Auxiliary didactic – Science and Engineering of Oxidic Materials and Nanomaterials

Business or sector Auxiliary Didactic, Research

03/2008–05/2008

Scientific Researcher

National Scientific Research Institute for Labour and Social Protection, Bucharest (Romania)

Research in Labour and Social Protection

Business or sector Research

07/2006–09/2007

Scientific Researcher Assistant

National Scientific Research Institute for Labor and Social Protection, Bucharest (Romania)

Research in Labor and Social Protection

Business or sector Research

05/2005–06/2006

Computer operator

National Scientific Research Institute for Labour and Social, Bucharest (Romania)

Data Entry Operator

Business or sector Research

EDUCATION AND TRAINING

- 2008–2011 **Doctor in Chemical Engineering**
University Politehnica from Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest (Romania)
ZrO₂ and Al₂O₃ based nanopowders and nanocomposites
- 2006–2008 **Master Diploma**
University Politehnica from Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest (Romania)
Composite Materials
- 2001–2006 **Engineer Diploma**
University Politehnica from Bucharest, Faculty of Applied Chemistry and Materials Science, Bucharest (Romania)
Physical Chemistry of Solid State, Binders Technology, Thermo-technologic Installation, Ceramic Technology
- 1997–2001 **Baccalaureate Diploma**
Dinicu Golescu College, Cîmpulung Mușcel (Romania)
Chimistry-Biology

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C1
German	A2	A2	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills Ability to work in a team - experience of working in research or project teams, to effectively communicate with peoples with different backgrounds, Laboratory responsible and Advisory skills.

Organizational / managerial skills Ability to coordinate the team from the microscopy laboratory in order to achieve performance

Job-related skills/courses **Courses**

Title: European Summer Workshop: Transmission Electron Microscopy of Nanomaterials (TEM-UCA 2017)

Dates – 17 – 21 July 2017

Title of qualification awarded - Certificate of completion

Principal subject/occupational skills covered - Transmission Electron Microscopy – Basics;

Computer-Assisted Electron Crystallography; Introduction to Image Interpretation with Image Simulation; In-situ Transmission Electron Microscopy; Mapping Plasmons in STEM-EELS; Nanoparticles Modelling & Simulation; X-ray Energy Dispersive Spectroscopy: Basics; Aberration Correction by Hardware in TEM; X-ray Energy Dispersive Spectroscopy – Practical Laboratory; Electron Energy Loss Spectroscopy; Electron Tomography with Practical Laboratory; Low-voltage TEM for 2D Materials; Advanced (S)TEM of Functional Oxides; Applications of (S)TEM to Catalytic Materials;

Name and type of organization providing education and training - University of Cadiz, Faculty of Science, Cadiz, Spain

Title: European EELS & EFTEM School

Dates – 07 – 10 February 2017

Title of qualification awarded - Certificate of completion

Principal subject/occupational skills covered - “EELS” – lectures and acquisition labs, EELS analysis labs; “EFTEM” – lectures, Filter and optics lecture, DM scripting lecture and tutorial, EFTEM acquisition lab, EFTEM analysis lab; “Spectrum Imaging and Advanced Techniques” – SI lectures, Advanced techniques SI, Advanced topics talk, SI acquisition labs, EELS analysis labs; “ASTEM” – specific lecture.

Name and type of organization providing education and training - Institute of Electron Microscopy and Nanoanalysis (FELMI), Graz University of Technology, Graz Centre for Electron Microscopy (ZFE), Austrian Cooperative Research (ACR), Graz, Austria

Title: Electron Tomography Course

Dates – 18 - 22 April 2016

Title of qualification awarded - Certificate of completion

Principal subject/occupational skills covered - Tomography Data Acquisition (Calibrations, Data acquisition); Reconstruction using Inspect3D (Basic theory, Alignment, Reconstruction, Visualization); Cryo Tomography (Low Dose, Zero Loss); New Developments (STEM Tomography, Energy Filtered Tomography).

Name and type of organization providing education and training - FEI Application Laboratory, Eindhoven, Nederland

Title: XRD Course

Dates – 24 – 28 June, 2013

Title of qualification awarded- X-Ray Diffraction certificate

Principal subject/occupational skills covered -XRD Course

Name and type of organization providing education and training - Panalytical BV Europe (Univeristy Politehnica from Bucharest)

Title: European EELS & EFTEM School

Dates – 14 – 17 February 2012

Title of qualification awarded - Certificate of completion

Principal subject/occupational skills covered - “EELS” – lectures and acquisition labs, EELS analysis labs; “EFTEM” – lectures, Filter and optics lecture, DM scripting lecture and tutorial, EFTEM acquisition lab, EFTEM analysis lab; “Spectrum Imaging and Advanced Techniques” – SI lectures, Advanced techniques SI, Advanced topics talk, SI acquisition labs, EELS analysis labs; “ASTEM” – specific lecture.

Name and type of organization providing education and training - Institute of Electron Microscopy and Nanoanalysis (FELMI), Graz University of Technology, Graz Centre for Electron Microscopy (ZFE), Austrian Cooperative Research (ACR), Graz, Austria

Title: School and workshop on the Electron Microscopy of Ceramics Materials

Dates – 08 - 11 October 2009

Title of qualification awarded - Certificate of completion

Principal subject/occupational skills covered - Specimen Preparation Techniques, Introduction to FIB and Sample Preparation by FIB, Introduction to Scanning Electron Microscopy (SEM), Introduction to Transmission Electron Microscopy (TEM), Electron Diffraction in the SEM and TEM, Advanced detection and imaging principles in the Field Emission SEM, Quantitative High Resolution Transmission Electron Microscopy, In-situ Transmission Electron Microscopy, Energy Dispersive X-ray Analysis (EDX) in SEM and TEM, Scanning Transmission Electron Microscopy (STEM), Analytical TEM-1: Electron Energy Loss Spectrometry (EELS) & Energy Filtered Transmission Electron Microscopy (EFTEM), Electron Backscatter Diffraction (EBSD) in Ceramic Materials, Tomography for Ceramic Materials, Interfaces in Ceramics: Challenges for Microscopy, (presenter C. Barry Carter), Dual EELS and new frontiers in analyzing ceramic materials, Spectroscopy and tomography of oxide glasses and glass-composite materials, TEM specimen preparation of ceramic materials by tripod wedge polishing and Ar - ion milling,

Name and type of organization providing education and training - Anadolu University, Eskisehir, Turkey

Title: Nanomaterials course

Dates – 25 - 28 Mai 2009

Title of qualification awarded - Certificate of completion

Principal subject/occupational skills covered – nanomaterials – general introduction, economic consideration; Consequences of small particle size; Synthesis of nanoparticulate materials; Catalytic and mechanical properties, surface and surface related properties; Magnetic, electrical, optical properties, nanotubes and related structures,

Name and type of organization providing education and training - Dieter Vollath / NanoConsulting, Bad Gastein, Austria

Trainings

Title: Versa 3D Application (SEM, FIB, EDS)

Dates – 08 – 12 February, 2016

Title of qualification awarded - Participation certificate

Principal subject/occupational skills covered - Basic operation of Versa 3D Dual beam microscope; Beam interaction and resulting signal; Ion beam – General operation; Cross-section milling, alignments, TEM sample preparation; EDS module operation; Cryo SEM operation;

Name and type of organization providing education and training - FEI Company, Bucharest, Romania (On-site Training)

Title: Titan Themis 200 for Materials science

Dates – 16 – 18 February, 2016

Title of qualification awarded - Participation certificate

Principal subject/occupational skills covered - High Resolution Transmission Electron Microscopy (HR-TEM); Image Corrector Tuning; High Resolution Scanning Transmission Electron Microscopy (HR-STEM); Energy Dispersive X-Ray Spectroscopy (EDX); Energy Electron Loss Spectroscopy (EELS); Lorenz in TEM; Chemi – STEM (EDX and EELS mapping);

Name and type of organization providing education and training - FEI Company, Bucharest, Romania (On-site Training)

Title: Titan Themis 200 for Life science (Sample Prep via VitroBot and Cryo-TEM)

Dates - 08 - 10 March 2016

Title of qualification awarded - Participation certificate

Principal subject/occupational skills covered - Cryo TEM Sample preparation and basic imaging; STEM/EDX Imaging and alignment (Optimizing and Aligning TEM and electron diffraction for cryo work; Contrast mechanisms in Cryo - TEM and dark field imaging; Low Dose Imaging); Tomography (Tomography data acquisition and 3D reconstruction).;

Name and type of organization providing education and training - FEI Company, Bucharest, Romania (On-site Training)

Title: Tecnai Materials Science Course

Dates - 15 - 19 June 2009

Title of qualification awarded - Participation certificate

Principal subject/occupational skills covered – High Resolution Transmission Electron Microscopy (HR-TEM); High Resolution Scanning Transmission Electron Microscopy (HR-STEM); Energy Dispersive X-Ray Spectroscopy (EDX); Energy Electron Loss Spectroscopy (EELS);

Name and type of organization providing education and training - FEI Application Laboratory, Eindhoven, Nederland

Title: Tecnai Basic Course

Dates - 10 - 14 November 2008

Title of qualification awarded - Participation certificate

Principal subject/occupational skills covered - Introduction, basic theory, Tecnai philosophy, Tecnai microscope, Modes of operation, Tecnai user interface, Tecnai user interface, TEM optimization, Microscope alignment, Microscope alignment, Microscope tasks, digital imaging.

Name and type of organization providing education and training - FEI Application Laboratory, Eindhoven, Nederland

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

ECDL Certificate

Other skills

Conducting practical laboratory work with students, research activities in the laboratory in what regards synthesis of nanopowders and nanostructured ceramics and characterization of these materials using X-Ray diffraction, scanning electron microscopy and transmission electron microscopy (High resolution electron microscopy, selected area electron diffraction, scanning transmission electron microscopy, energy dispersive X-ray spectroscopy with TEM, energy filtered electron microscopy and electron energy loss spectroscopy)

Researcher ID: B-8685-2011

URL: <http://www.researcherid.com/rid/B-8685-2011>

Driving license

Yes, category - B

ANNEXES

- List of publications.