



Popeneciu Gabriel Alexandru

## PERSONAL INFORMATION



## Popeneciu Gabriel Alexandru

 National Institute for Research and Development of Isotopic and Molecular Technologies - INCDTIM, Donat street 67-10., 400293, Cluj-Napoca.

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 Gabrie.Popeneciu@itim-cj.ro

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Sex Male | Date of birth 04/12/1957 | Nationality Romanian

## POSITION WITHIN THE PROJECT

## Project Responsible

## WORK EXPERIENCE

2008 - present

**Technical Manager, Senior Researcher CS II**

National Institute for Research and Development of Isotopic and Molecular Technologies – INCDTIM, Donat Street 67-103., 400293 Cluj-Napoca, [www.iti-cj.ro](http://www.iti-cj.ro)

- Top Management
- Design and development of components for Tile Calorimeter part of ATLAS Detector at LHC - CERN Geneva.

**Business or sector** Management and applied research

1988 – 2008

**Technology Development Engineer, Senior Researcher CSIII, CSII**

National Institute for Research and Development of Isotopic and Molecular Technologies – INCDTIM

- R&D in gas chromatography: development of some apparatus including originals solutions: GCA200 with data acquisition, GCA3000 for Cernavoda Nuclear Plant.
- R&D in liquid chromatography: development of the essential modules of a HPLC System – solvent delivery system, specific detectors, sample injection systems.
- R&D of robotic systems for implementation of HI-TECH technologies.
- R&D of advanced technologies of hydrogen storage and compression.

**Business or sector** R&D, Design

1982 – 1988

**Trainee Engineer, Design Engineer**

UNIREA Company, Cluj-Napoca

- Design and development of tooling machines.
- R&D of wood machine work

**Business or sector** Design and Manufacturing

## EDUCATION AND TRAINING

1977 - 1982

**Mechanical Engineers - licensed**

Technical University, Mechanical Faculty, Cluj-Napoca

- Special Mathematics, Physics, Mechanics; Materials technology, Basics of electricity, Strength of materials, Theory of mechanisms, Machine parts, Fluid Mechanics and Hydraulic machines, Heat Engineering, Manufacturing Engineering

## PERSONAL SKILLS

Mother tongue Romanian



Other language

Popeneciu Gabriel Alexandru

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Replace with name of language certificate. Enter level if known.					
French	B2	B2	B2	B2	B2
Replace with name of language certificate. Enter level if known.					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

- Good communication skills gained through my experience in managing teams in industry and research.
- Capacity to adapt to multicultural environments.
- Experience in working in national and international research teams.

Organisational / managerial skills

- *Leadership* – Technical Director of INCDTIM from 19 years.
- *Director* of the installation of national interest Grid Center RO-14-ITIM
- *Industrial Liason Officer* for Romania at CERN Geneva
- *Romania Responsible* for "Procurement activities of JINR Dubna, Rusia"
- *Team Leader* of INCDTIM Group in ATLAS Experiment from CERN  
<https://atglance.web.cern.ch/atglance/membership/instituteDetails.php?id=286>
- *Mechanics Coordinator* of „Tile Calorimeter High Luminosity Upgrades Steering Committee" part of the ATLAS Experiment LHC-CERN Geneva
- *Management Representative* for Quality Management System ISO 9001:2015 implemented in INCDTIM

Job-related skills

- Good organizer.
- Research and teaching abilities,
- Ability to respect schedules and deadlines.
- Able to manage multiple tasks.
- High Tech. Engineering works, innovative design for products and technologies in HEP detectors and alternative energies.
- Design in Autodesk Inventor and Solid Works

Digital competence

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

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

Other skills

- Graduation Diploma of the Course "Design for Quality, The University of Bologna, Italy, 1994.
- Annual stages in the frame of ATLAS Experiment at CERN Geneva in the period 2002-2015.
- Graduate of the course "Modern Management Systems" Technical University of Cluj-Napoca, 2007.
- Member of the Organizing Committee of International Conference "ATLAS Overview Week 2014" Sibiu, 2014.
- Member of the Organizing Committee of International Conference "Process in Isotops and Molecules" (PIM), editions 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015; 2017; 2019, 2021.

Driving licence

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## ADDITIONAL INFORMATION

## Publications

**Publications as author in ATLAS Collaboration: 993**

<http://inspirehep.net/search?ln=en&p=g+a+popeneciu&jrec=1&sf=earliestdate>

G. Popeneciu, *ATLAS Tile Calorimeter Phase-II Upgrade Technical Design Report*, ATL-COM-TILECAL-2018-003, author fo Chapters 5,11 si 12.3. <https://cds.cern.ch/record/2302628>

**Publications other than ATLAS: 31**, relevant ones:

- IFIN-ITIM Distributed GRID System, C.Alexa, V.Boldea, M.Ciubancan, S.Constantinescu, S.Diță, T.Preda, G.Popeneciu, IEEE Computer Society, p215-219.
- F. Farcas, G. Popeneciu, A. Bende, C. Morari, S. Belov, L. Miclea, *ITIM Distributed Grid System applied in high energy, biomolecular and nanotechnology physics*, sent for publishing IEEE International Conference on Automation, Quality and Testing, Robotics AQTR 2008, ISBN: 978-1- 4244-2576-1.
- D. Axente; C. Marcu; A. Mureșan; M. Kaucsar; I. Mișan; G. Popeneciu; N. Gligan; G. Cristea, *Experimental plant for simultaneous production of <sup>14</sup>N and <sup>15</sup>N by <sup>15</sup>N/<sup>14</sup>N exchange in NO, NO<sub>2</sub>-HNO<sub>3</sub> system under pressure*, Isotopes in Environmental and Health Studies, Volume 46 Issue 2, 2010, p 242- 248.
- Dan Lupu, Ovidiu Ardelean, Gabriel Popeneciu et al, *Synthesis and hydrogen adsorption properties of a new iron based porous metal-organic framework*, Int. J. Of Hydrogen Energy, Volume 36 (2011) p 3586-3592

## Projects

Execution projects completed with equipment and complex installations – **34**; relevant ones:

- G.Popeneciu, *Mini-drawer Mechanics for the Tile Calorimeter Phase II Upgrade Technical specifications*, [EDMS 2272845 AT2-L-ER-0012 v3](#).
- G.Popeneciu, *Mini-drawers Handling tools for the Tile Calorimeter Phase II Upgrade Technical specifications*, [EDMS 2134594 AT2-L-ES-0001 v.1](#)
- G..Popeneciu, *Mini-drawers Assembly line for the Tile Calorimeter Phase II Upgrade Technical specifications*, [EDMS 2134596 AT2-L-ES-0012v.1](#)
- G.Popeneciu, *Mini-drawers Installation tools for the Tile Calorimeter Phase II Upgrade Technical specifications*, [EDMS 2134594/AT2-L-ES-0011 v3](#)

## Conferences

*Proceedings at International Conferences - 54*; relevant ones:

- G. Popeneciu on behalf of the ITIM ATLAS Group, *Innovative mechanics for Particle Detectors*, 12<sup>th</sup> International Conference Processes in Isotopes and Molecules, Cluj-Napoca, Romania, 25-27 September 2019
- G.Popeneciu et al, *Drawer mechanics and Tooling system*, Tile Calorimeter Overview Week, Tbilisi, Georgia, 1- 6 October 2018.
- G. Popeneciu, *Assembly and Installation of the new FE electronics - preliminary scenario*, Tile Calorimeter Upgrade Workshop, Cape Town, South Africa, 17<sup>th</sup> April 2017.
- G. Popeneciu, *Mini-drawer Mechanics, Tools and Services*, ATLAS P2UG-Tile Calorimeter, CERN Geneva, 4 November 2020.
- G.Popeneciu on behalf of ATLAS TileCal System, *Upgrading the Atlas Tile Calorimeter Electronics*, PANIC 2014-20<sup>th</sup> Particle and Nuclei International Conference, Hamburg, Germany, October 2014, p 386-390.
- G Popeneciu, *Mini-drawers mechanics and Tooling system Status of production at ITIM Cluj*, ATLAS Upgrade Week, CERN Geneva, 26 - 30 April 2021.
- G. Popeneciu, *Mini-drawer Mechanics, Tools and Services*, ATLAS Annual Review, CERN Geneva, October 26<sup>th</sup> 2021.

## Patents

**5**, relevant ones:

- Synthesis of organic-metal structures by microwave activation under atmospheric pressure, Patent Number: RO126343-A2
- Preparation of porous metal-organic structures/carbon structures composites, Patent Number: RO126098-A2
- Composites of porous metal-organic structures and carbon structures for storing hydrogen, Patent Number: RO125846-A2

## Citations

**49,284** ( <https://www.webofscience.com/wos/woscc/basic-search> )