

## INFORMAȚII PERSONALE



## Vlad - Mihai PĂSCULESCU

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Sexul Masculin | Data nașterii 29/09/1986 | Naționalitatea română

## EXPERIENȚA PROFESIONALĂ

20/04/2017–Prezent

**Cercetător Științific Gr. II - Șef laborator Cooperări și Proiecte Internaționale**

Institutul Național de Cercetare - Dezvoltare pentru Securitate Minieră și Protecție Antiexplozivă - INSEMEX

Strada General Vasile Milea, nr. 32 - 34, 332047 Petroșani (România)

<http://www.insemex.ro>

Tipul sau sectorul de activitate Cercetare - Dezvoltare - Inovare

01/12/2015–19/04/2017

**Cercetător Științific Gr. III - Șef laborator Cooperări și Proiecte Internaționale**

Institutul Național de Cercetare - Dezvoltare pentru Securitate Minieră și Protecție Antiexplozivă - INSEMEX

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<http://www.insemex.ro>

Tipul sau sectorul de activitate Cercetare - Dezvoltare - Inovare

01/08/2013–30/11/2015

**Cercetător Științific**

Institutul Național de Cercetare - Dezvoltare pentru Securitate Minieră și Protecție Antiexplozivă - INSEMEX

Strada General Vasile Milea, nr. 32 - 34, 332047 Petroșani (România)

<http://www.insemex.ro>

Tipul sau sectorul de activitate Cercetare - Dezvoltare - Inovare

14/02/2011–31/07/2013

**Asistent de Cercetare Științifică**

Institutul Național de Cercetare - Dezvoltare pentru Securitate Minieră și Protecție Antiexplozivă - INSEMEX

Strada General Vasile Milea, nr. 32 - 34, 332047 Petroșani (România)

<http://www.insemex.ro>

Tipul sau sectorul de activitate Cercetare - Dezvoltare - Inovare

## EDUCAȚIE ȘI FORMARE

10/2015–12/2015

**Evaluator al riscurilor pentru securitate și sănătate în muncă (Certificat)**

Universitatea din Petroșani, Facultatea de Mine, Curs Postuniversitar  
Strada Universității, nr. 20, 332006 Petroșani (România)

<http://www.upet.ro>

2011–2014

**Diplomă de Doctor**

Universitatea din Petroșani, Școala Doctorală, Domeniul Fundamental: Științe Inginerești,

Domeniul de Doctorat: Mine, Petrol, Gaze  
 Strada Universității, nr. 20, 332006 Petroșani (România)  
<http://www.upet.ro>

2009–2011 **Diplomă de Master**

Universitatea din Petroșani, Facultatea de Inginerie Mecanică și Electrică, Studii Masterale,  
 Domeniul: Calculatoare și Tehnologia Informației, Specializarea: Sisteme și Tehnologii  
 Informaticice  
 Strada Universității, nr. 20, 332006 Petroșani (România)  
<http://www.upet.ro>

2009–2011 **Diplomă de Licență**

Universitatea din Petroșani, Facultatea de Inginerie Mecanică și Electrică, Studii  
 Universitare de Licență, Domeniul: Inginerie Energetică, Specializarea: Ingineria Sistemelor  
 Electroenergetice  
 Strada Universității, nr. 20, 332006 Petroșani (România)  
<http://www.upet.ro>

2010–2011 **Certificat de Absolvire Nivel I**

Universitatea din Petroșani, Departamentul de Pregătire a Personalului Didactic și Formare  
 Continuă, Program de Formare Psihopedagogică, Curs Postuniversitar: Pregătirea  
 Personalului Didactic, Nivel I  
 Strada Universității, nr. 20, 332006 Petroșani (România)  
<http://www.upet.ro>

2005–2009 **Diplomă de Licență**

Universitatea din Petroșani, Facultatea de Inginerie Mecanică și Electrică, Studii  
 Universitare de Licență, Domeniul: Calculatoare și Tehnologia Informației, Specializarea:  
 Calculatoare  
 Strada Universității, nr. 20, 332006 Petroșani (România)  
<http://www.upet.ro>

2001–2005 **Diplomă de Bacalaureat, Atestat Operator Calculator**

Liceul de Informatică, Specializarea: Matematică - Informatică Intensiv  
 Strada Slătinoara, nr. 10, Petroșani (România)

COMPETENȚE PERSONALE

Limba(i) maternă(e) română

Limbile străine

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	C2	C2	C1	C1	C2
germană	A2	A2	A1	A1	A1
franceză	A1	A1	A1	A1	A1

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat  
 Cadrul european comun de referință pentru limbi străine - Grila de auto-evaluare

Competențe de comunicare

Abilitate în lucrul cu tinerii și adulții, dornic de afirmare, perseverent, responsabil, dornic de  
 autodepășire și perfecționare, spirit de echipă, capacitate de adaptare sportivă, comunicare, seriozitate,  
 capacitate de asimilare de noi informații și abilități, competențe dobândite în urma realizării

numeroaselor proiecte de cercetare dezvoltate de echipe interdisciplinare la locul de muncă.

**Competențe organizaționale/managieriale**

Spirit organizatoric, capacitate de sinteză și analiză, punctualitate, capacitate de a lua decizii în condiții de stres, capacitate de a respecta termene limită, spirit de evaluare și îmbunătățire, capacități decizionale, spirit analitic, autodidact.

**Competențe dobândite la locul de muncă**

Competențe tehnice privind mijloacele de protecție la explozie, evaluarea riscului de explozie, clasificarea ariilor periculoase Ex generate de gaze și vapori inflamabili, tipuri de protecție la explozie pentru echipamentele tehnice care funcționează în atmosfere potențial explozive, dinamica computerizată a fluidelor.

**Competențele digitale**

Phast (Process Hazard Analysis Software Tool) by DNV GL, Sisteme de operare Windows, pachetul Microsoft Office, baze de date MySQL, Adobe Dreamweaver

**Permis de conducere**

B1, BE, C1, C1E, B, C, CE

**INFORMAȚII SUPLIMENTARE**

**Proiecte Internaționale**

**2012 - 2015:** Advanced Tools for Ventilation and Methane Emissions Control - AVENTO, Contract No. RFCR-CT-2012-00004, European Commission, Directorate-General for Research and Innovation, Directorate G - Industrial Technologies, G.5 - Research Fund for Coal and Steel (RFCS Coal RTD Programme), Membru în Colectiv

**Membru al unor Organizații Științifice Internaționale**

1. International Association of Engineers - IAENG (Member Number: 208669)
  - IAENG Society of Electrical Engineering
  - IAENG Society of Industrial Engineering
  - IAENG Society of Information System Engineering
  - IAENG Society of Mechanical Engineering
2. International Association of Educators and Researchers – IAER (Membership number 181055)

**Membru al unor Organizații Științifice Naționale**

1. Asociația Generală a Inginerilor din România **AGIR Bucuresti**
2. Membru în **Consiliul Director**: Asociația de Cercetare Multidisciplinară Vest **ACMV Timișoara**
3. Societatea Română de Automatică și Informatică Tehnică - **SRAIT**
4. Asociația Română de Electrosecuritate **ARES**
5. Comitetul Național Roman al Consiliului Mondial al Energiei **CNR-CME**
6. Societatea Inginerilor Energeticieni din România – **SIER, Filiala București**

**Expert Evaluator/Raportor proiecte CDI**

**2019: Expert Evaluator (Recenzor Independent)** - III edition of EEA and Norway grants, Programme "Applied research" under the Norwegian Financial Mechanisms 2014 – 2021 / POLNOR CCS 2019 Call, Polish-Norwegian research projects, National Centre for Research and Development – NCBR, Varșovia, **Polonia**

**2019: Expert Evaluator (Recenzor Independent)** - PNCDI III - Program 2 - Creșterea competitivității economiei românești prin CD, Subprogram 2.1. Competitivitate prin cercetare, dezvoltare și inovare, Instrument de finanțare: Transfer la operatorul economic (PTE) - Competiția 2019 (PN-III-P2-2.1-PTE-2019), **Romania**

**2017: Expert Evaluator (Recenzor Independent)** - PNCDI III - Program 1 Dezvoltarea sistemului național de CD, Subprogram 1.2. Performanță instituțională , Instrument de finanțare: Proiecte Complexe realizate în consorții CDI - Competiția 2017 (PN-III-P1-1.2-PCCDI-2017), **Romania**

**Indice Hirsch**

H-index Web of Science Core Collection : **7**  
 H-index SCOPUS H-index: **10**  
 H-index Google Scholar H-index: **10**

Participare la Forumuri / Întâlniri /  
Ședințe de Lucru Internaționale

- 2017:** A XXIII-a Întâlnire a Autorităților Miniere de Stat din Europa (23rd Meeting of European Heads of State Mining Authorities), 25-26 septembrie 2017, Bratislava, Slovacia
- 2016:** A XXII-a Întâlnire a Autorităților Miniere de Stat din Europa (22nd Meeting of European Heads of State Mining Authorities), 13-14 septembrie 2016, București, România
- 2016:** Al 17-lea Forum al Organismelor Notificate pentru Articole Pirotehnice, 9-11 Mai 2016, Sibiu, România
- 2016:** Al 25-lea Forum al Organismelor Notificate pentru Explozivi de Uz Civil, 9-11 Mai 2016, Sibiu, România
- 2015:** A XXI-a Întâlnire a Autorităților Miniere de Stat din Europa (21st Meeting of European Heads of State Mining Authorities), 15-16 Septembrie 2015, Helsinki, Finlanda
- 2014:** A XX-a Întâlnire a Autorităților Miniere de Stat din Europa (20th Meeting of European Heads of State Mining Authorities), 9-10 Octombrie 2014, Dublin, Irlanda
- 2013:** A XIX-a Întâlnire a Autorităților Miniere de Stat din Europa (19th Meeting of European Heads of State Mining Authorities), 23-24 Septembrie 2013, Belgrad, Serbia

Membru în Comitete Editoriale  
sau Științifice, Organizator de  
Manifestări Științifice

- Membru în **Comitetul de Recenzori** pentru articole științifice "**Universal Journal of Mechanical Engineering**" [http://www.hrpub.org/journals/jour\\_reviewers.php?id=51](http://www.hrpub.org/journals/jour_reviewers.php?id=51)
- Membru în **Comitetul de Recenzori** pentru articole științifice "**SWS Earth & Geo Sciences Review Committee**" <https://www.sgem.org/index.php/committee-and-partners/reviewers-committee>
- Membru în **Comitetul Editorial** al Jurnalului "**Bionics of Intelligence**", ISSN: 2663-3051 (print), ISSN: 2663-306X (online), Kharkiv, Nauky ave., 14, Ukraine <http://bionica-scimag.com/en/redaction>
- Recenzor articole științifice pentru **Simpozionul Internațional "Securitate și Sănătate în Muncă – SESAM 2019"**, Ediția a IX-a, 03.10.2019, Petroșani, România
- Recenzor articole științifice pentru "**Journal of Cleaner Production**", ELSEVIER, ISSN: 0959-6526
- Membru în **Comitetul Editorial** al Jurnalului "**International Journal of Oil, Gas and Coal Engineering (OGCE)**", ISSN: 2376-7669 (Print), ISSN: 2376-7677 (Online), Science Publishing Group, 548 Fashion Avenue, New York, NY 10018, U.S.A.
- Membru în comitetul de organizare - Simpozionului Internațional "Securitate și Sănătate în Muncă – SESAM 2019", Ediția a IX-a, 03.10.2019, Petroșani, România
- Membru în Comitetul Științific Internațional al "International 11th Conference of Health and Hospital Administration", 13-15 octombrie 2017, Trabzon, Turcia
- Membru în Comitetul de Organizare al Simpozionului Internațional "Securitate și Sănătate în Muncă – SESAM 2017", Ediția a VIII-a, 19 octombrie 2017, București, România
- Membru în Comitetul de Organizare a celei de-a XXII-a Întâlniri a Conducătorilor Autorităților Miniere de Stat din Europa, 13-14 septembrie 2016, București, România
- Membru în comitetul de organizare al celui de a 17-lea Forum al Organismelor Notificate pentru Articole Pirotehnice, Sibiu, 09 ÷ 11 mai 2016
- Membru în comitetul de organizare al celui de al 25-lea Forum al Organismelor Notificate pentru Explozivi de uz civil, Sibiu, 09 ÷ 11 mai 2016
- Membru al Secretariatului Simpozionului Internațional "Securitate și Sănătate în Muncă – SESAM 2015", Ediția a VII-a, 30 Septembrie – 2 Octombrie 2015, Poiana Brașov, România
- Membru al Secretariatului Simpozionului Internațional "Securitate și Sănătate în Muncă – SESAM 2013", Ediția a VI-a, 23-25 Octombrie 2013, Sibiu, România
- Membru al Secretariatului Simpozionului Internațional "Securitate și Sănătate în Muncă – SESAM 2011", Ediția a V-a, 9-11 Noiembrie 2011, Sinaia, România

Specializări și Instruiri

- 2019:** Training SA-01 Phast software – Process Hazard Analysis Software Tool – DNV GL Londra, Marea Britanie, 16-18 septembrie 2019
- 2019:** Training SA-16 Phast 3D Explosions modelling extension – Process Hazard Analysis Software Tool – DNV GL Londra, Marea Britanie, 19 septembrie 2019

**2019:** Președinte Sesiune Plenară: „4.Mineral Processing și 10.Photogrammetry and Remote Sensing” în cadrul celei de-a 19-a Conferințe Internaționale Multidisciplinare SGEM 2019, 28.06.2019-07.07.2019, Albena, Bulgaria (Verification letter, 10.07.2019, Sofia, Bulgaria)

**2019:** Sesiune de instruire “Acces electronic la literatura științifică pentru susținerea și promovarea sistemului de cercetare și educație din România”, Petrosani, 5 Aprilie 2019, organizată în cadrul proiectului ANELIS

**2018:** Curs “Competențe antreprenoriale”, 28.09.2018 – 19.10.2018, organizat de S.C. EURO-JOBS S.R.L. Petroșani, Romania

**2018:** Curs de specializare ”Manager de proiect”, cod COR 242101, Aprilie 2018, organizat de LIDEEA DEVELOPMENT ACTIONS Deva, Romania

**2018:** Președinte Sesiune Științifică ”1.2. Advances in Safety Science and Occupational Risk Management 2” în cadrul 8th International Multidisciplinary Scientific Symposium “UNIVERSITARIA SIMPRO 2018”, 11-13 October 2018, Petrosani, Romania

**2017:** Curs de calificare profesională pentru ocupația de PIROTEHNICIAN, INCD INSEMEX Petrosani, Romania, 02.10.2017 – 12.12.2017

**2017:** Președinte Sesiune științifică plenară: „1 Geology” în cadrul celei de-a 17-a Conferințe Internaționale Multidisciplinare SGEM 2017, 27.06.2017-06.07.2017, Albena, Bulgaria (Verification letter, 13.07.2017, Sofia, Bulgaria)

**2013:** Președinte Sesiune: „Exploration and Mining” în cadrul celei de-a 13-a Conferințe Internaționale Multidisciplinare SGEM 2013, 16.06.2013-22.06.2013, Albena, Bulgaria (Verification letter, 28.06.2013, Sofia, Bulgaria)

**2013:** Curs – Introduction to ANSYS CFX v14.5 (Certificate of Completion no. 01867) – INAS S.A. Craiova, Ianuarie 2013

**2012:** Curs – Introduction to ANSYS AUTODYN & ANSYS Explicit Dynamics STR (Certificate of Completion no. 01851) – INAS S.A. Craiova, Decembrie 2012

**2012:** Curs – Introduction to ANSYS Workbench 14.5 (Certificate of Completion no. 01835) – INAS S.A. Craiova, Noiembrie 2012

**2012:** Sesiune de instruire pentru autoritățile competente înrolate în Punctul de Contact Unic electronic, Centrul Național "România Digitală", București, 8-9 Mai 2012

**2008:** Bursă în Marea Britanie în cadrul programului LLP (Life learning program), iunie 2008 – septembrie 2008.

**2007:** Stagiul de practică la Universitatea de Mine din Moscova pe durata a doua săptămâni, iulie 2007.

**2005:** Atestat Operator Calculator obținut la Liceul de Informatică Petroșani

#### Cursuri Online

**2020:** Sesiune de instruire online Enformation, 13 februarie 2020, INCD pentru Securitate Miniera si Protectie Antiexploziva – INSEMEX Petrosani, S.C. E-NFORMATION S.R.L., București, Romania

**2020:** Webex Web of Science: Totul despre EndNote Online, S.C. E-NFORMATION S.R.L., București, Romania, 19 februarie 2020

**2020:** Webex Web of Science: Descoperă funcțiile de export disponibile în Web of Science, S.C. E-NFORMATION S.R.L., București, Romania, 12 februarie 2020

**2020:** Webex Web of Science: Selecția revistelor Emerging Sources Citation Index, S.C. E-NFORMATION S.R.L., București, Romania, 20 ianuarie 2020

**2020:** Webex Web of Science: Noutăți ale aplicației Kopernio, S.C. E-NFORMATION S.R.L., București, Romania, 9 ianuarie 2020

**2019:** Webex Web of Science: Ultimele noutăți ale Web of Science Group, S.C. E-NFORMATION S.R.L., București, Romania, 4 decembrie 2019

**2019:** Webex Clarivate Analytics: Află totul despre datele de finanțare disponibile în Web of Science, S.C. E-NFORMATION S.R.L., București, Romania, 30 septembrie 2019

**2019:** Webex Clarivate Analytics: Prezentarea instrumentelor analitice din jurul datelor Web of Science Core Collection, S.C. E-NFORMATION S.R.L., București, Romania, 10 septembrie 2019

**2019:** Webex Clarivate Analytics: Kopernio. Stop Clicking. Start Reading, S.C. E-NFORMATION S.R.L., București, Romania, 18 iunie 2019

**2019:** Webex Clarivate Analytics: Ce este nou în Web of Science?, S.C. E-NFORMATION S.R.L., București, Romania, 11 iunie 2019



- 2019:** Webex Euromonitor: "Passport – Your Gateway To Global Market Research", S.C. E-NFORMATION S.R.L., București, Romania, 29 mai 2019
- 2019:** Webex Clarivate Analytics: Identificarea, utilizarea și analizarea conținutului Open Access: ce trebuie să știi, S.C. E-NFORMATION S.R.L., București, Romania, 16 mai 2019
- 2019:** Webex Clarivate Analytics: A colabora? Aceasta este întrebarea!, S.C. E-NFORMATION S.R.L., București, Romania, 14 mai 2019
- 2019:** Webex Clarivate Analytics: Descoperirea prin rețeaua de citare – Citation Network, S.C. E-NFORMATION S.R.L., București, Romania, 7 mai 2019
- 2019:** Webex Clarivate Analytics: Unde să publici: utilizarea Journal Impact Factor, S.C. E-NFORMATION S.R.L., București, Romania, 23 aprilie 2019
- 2019:** Webex Clarivate Analytics: ResearcherID fuzionează cu Publons, S.C. E-NFORMATION S.R.L., București, Romania, 18 aprilie 2019
- 2019:** Webex Clarivate Analytics: Descoperă pluginul gratuit Kopernio, S.C. E-NFORMATION S.R.L., București, Romania, 26 martie 2019
- 2019:** Webex Clarivate Analytics: Navigarea citărilor în Web of Science, S.C. E-NFORMATION S.R.L., București, Romania, 19 martie 2019
- 2019:** Webex Clarivate Analytics: Identificarea, utilizarea și analiza conținutului Open Access în Web of Science, 23 ianuarie S.C. E-NFORMATION S.R.L., București, Romania, 2019
- 2019:** Webex Clarivate Analytics: Noul profil Publons, S.C. E-NFORMATION S.R.L., București, Romania, 10 ianuarie 2019
- 2018:** Webex Clarivate Analytics: "Identificarea, utilizarea și analiza conținutului Open Access în Web of Science", S.C. E-NFORMATION S.R.L., București, Romania, 18 decembrie 2018
- 2018:** Webex Clarivate Analytics: "Instrumente analitice și metri de citare pentru datele Web of Science Core Collection", S.C. E-NFORMATION S.R.L., București, Romania, 12 decembrie 2018
- 2018:** Webex Clarivate Analytics: "Descoperă conținutul de Științe Sociale și Umane din Web of Science", S.C. E-NFORMATION S.R.L., București, Romania, 5 decembrie 2018
- 2018:** Google Digital Garage, Noțiuni Fundamentale de Marketing Digital, 5 decembrie 2018
- 2018:** ELSEVIER Online Training, Scopus: Cum te ajută?, 10 decembrie 2018
- 2018:** ELSEVIER Online Training, ScienceDirect: Ce e nou?, 29 noiembrie 2018
- 2018:** Webex Clarivate Analytics: "Știi că Web of Science nu conține doar publicații?", S.C. E-NFORMATION S.R.L., București, Romania, 27 noiembrie 2018
- 2018:** Webex Clarivate Analytics: "Web of Science, o scurtătură spre textul integral", 21 noiembrie 2018
- 2018:** Webex Clarivate Analytics: "Publons pentru cercetători: promovează activitatea ta peer-review", S.C. E-NFORMATION S.R.L., București, Romania, 14 noiembrie 2018
- 2018:** ANELIS & E-nformation: "Acces la literatura științifică: Romanian International Conference for Research and Education", – Ediția a VI-a – 23-25 Octombrie 2018, Cluj-Napoca, România
- 2018:** Webex Clarivate Analytics: "Clarivate Analytics APIs – datele Web of Science disponibile din afara platformei Web of Science", S.C. E-NFORMATION S.R.L., București, Romania, 18 octombrie 2018
- 2018:** Webex Clarivate Analytics: "De la identificarea Open Access la analize performante: noutățile Web of Science", S.C. E-NFORMATION S.R.L., București, Romania, 11 octombrie 2018
- 2018:** Webex Clarivate Analytics: "Cercetarea undelor gravitaționale", S.C. E-NFORMATION S.R.L., București, Romania, 5 octombrie 2018
- 2018:** Webex Clarivate Analytics: Workshop "Web of Science: O combinație eficientă de brevete, publicații, date de cercetare, pentru o descoperire bibliografică de neegalat", S.C. E-NFORMATION S.R.L., București, Romania, 12 Septembrie 2018
- 2018:** Webex Clarivate Analytics: Colaborarea în cercetare: de ce contează?, S.C. E-NFORMATION S.R.L., București, Romania, 4 septembrie 2018
- 2018:** Webex Clarivate Analytics: InCites cuprinde acum peste 2,2 milioane de înregistrări din reviste emergente, S.C. E-NFORMATION S.R.L., București, Romania, 5 iulie 2018
- 2018:** Webex Clarivate Analytics: 2018 Journal Citation Reports, S.C. E-NFORMATION S.R.L., București, Romania, 2 iulie 2018
- 2018:** Webex Clarivate Analytics: Aflați cum să creați și să lucrați cu seturi de date personalizate în InCites și cum să folosiți benchmarks, S.C. E-NFORMATION S.R.L., București, Romania, 26 iunie

2018

**2018:** Webex Clarivate Analytics: Cum să utilizați Web of Science pentru a măsura publicațiile Open Access, S.C. E-NFORMATION S.R.L., București, Romania, 11 Iunie 2018

**2018:** Webex Clarivate Analytics: Unde ar trebui să public ? Web of Science, Journal Citation Reports și EndNote pentru luarea deciziilor de publicare a articolelor, S.C. E-NFORMATION S.R.L., București, Romania, 8 Iunie 2018

**2018:** Webex Clarivate Analytics: Aflați cum să accesați textul gratuit legal pentru peste 10 milioane de articole, S.C. E-NFORMATION S.R.L., București, Romania, 31 Mai 2018

**2018:** Webex Clarivate Analytics: Publons pentru cercetători, S.C. E-NFORMATION S.R.L., București, Romania, 29 Mai 2018

**2018:** Webex IOP Publishing: How to get published, S.C. E-NFORMATION S.R.L., București, Romania, 22 Mai 2018

**2018:** Webex Clarivate Analytics: Eliberați potențialul Citation Connection, S.C. E-NFORMATION S.R.L., București, Romania, 9 Mai 2018

**2018:** Webex Clarivate Analytics: Cum analizăm datele din Web of Science, S.C. E-NFORMATION S.R.L., București, Romania, 10 Aprilie 2018

**2018:** Webex Clarivate Analytics: Aflați cum să creați un profil autor (ORCID / ResearcherID), S.C. E-NFORMATION S.R.L., București, Romania, 4 Aprilie 2018

**2018:** Webex Clarivate Analytics: Publons, S.C. E-NFORMATION S.R.L., București, Romania, 3 Aprilie 2018

**2018:** Webex Clarivate Analytics: InCites Benchmarking & Analytics pentru începători, S.C. E-NFORMATION S.R.L., București, Romania, 19 Mar 2018

**2018:** Webex Clarivate Analytics: Aflați cum să creați și să consolidați un profil autor (ORCID / RID) pentru a fi în conformitate cu cerințele pentru autori al editorilor și al finanțatorilor, S.C. E-NFORMATION S.R.L., București, Romania, 23 Feb 2018

**2018:** Webex Clarivate Analytics: Cum se pot identifica sursele de finanțare?, S.C. E-NFORMATION S.R.L., București, Romania, 19 Februarie 2018

**2018:** Webex Online Clarivate Analytics: Moștenirea lui Eugene Garfield – aflați despre istoria unică a Web of Science, S.C. E-NFORMATION S.R.L., București, Romania, 9 Februarie 2018

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1. Stand pentru determinarea temperaturii de autoaprindere Ti a lichidelor inflamabile cu vâscozitate ridicată, Autori: Ghiciei Emilian, Găman George Artur, Pupăzan Gheorghe Daniel, Călămar Angelica-Nicoleta, Vlasin Nicolae – Ioan, Păsculescu Vlad Mihai, Nicolescu Cristian, Laszlo Robert, Burian Constantin Sorin, Manea Florin, Florea Gheorghe-Daniel, Nălboc Vasilica Irina, Szollosi-Moța Andrei, Șuvar Marius Cornel, Gheorghiosu Edward-Jan, Kovacs Attila, Simion Alexandru Florin, Morar Marius

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2. Sistem de monitorizare și înregistrare continuă a parametrilor exploziilor de gaze, Autori: Vlasin Nicolae-Ioan, Găman George Artur, Ghicioi Emilian, Pupăzan Gheorghe Daniel, Călămar Angelica-Nicoleta, Păsculescu Vlad Mihai, Nicolescu Cristian, Laszlo Robert, Burian Constantin Sorin, Manea Florin, Florea Gheorghe-Daniel, Nălboc Vasilica Irina, Szollosi-Moța Andrei, Șuvar Marius Cornel, Vass Zoltan, Tuhuț Ligia – Ioana, Simion Alexandru Florin, Morar Marius Simion, Cerere de brevet înregistrată la Oficiul de Stat pentru Inventii și Marci OSIM cu nr: a 2018 00933

3. Stand de determinare a produșilor de reacție generați de materiale solide combustibile, Autori: Ghicioi Emilian, Găman George Artur, Maria Prodan, Szollosi Mota Andrei, Lupu Constantin, Burian Sorin Constantin, Păsculescu Vlad Mihai, Cioclea Doru, Nălboc Irina, Șuvar Niculina Sonia, Vlasin Nicolae, Șuvar Marius, Rădoi Florin, Chiuzan Emeric, Florea Gheorghe Daniel, Drăgoescu Răzvan, Cerere de brevet înregistrată la Oficiul de Stat pentru Inventii și Marci OSIM cu nr: a 2017 00929

4. Sistem universal pentru determinarea energiei minime de aprindere a amestecurilor explozive aer – substanțe inflamabile, Autori: Prodan Maria, Ghicioi Emilian, Găman George Artur, Lupu Constantin, Păsculescu Vlad Mihai, Vlasin Nicolae, Jurca Adrian, Călămar Angelica, Gabor Dan, Szollosi Mota Andrei, Nălboc Irina, Șuvar Marius, Cerere de brevet înregistrată la Oficiul de Stat pentru Inventii și Marci OSIM cu nr: a 2017 00457

5. Stand pentru determinarea limitelor de explozie pentru vaporii lichidelor inflamabile, Autori: Maria Prodan, George Artur Găman, Emilian Ghicioi, Constantin Lupu, Doru Cioclea, Vlad Mihai Păsculescu, Dan Gabor, Nicolae Vlasin, Adrian Jurca, Andrei Szollosi Moța, Irina Nălboc, Marius Cornel Șuvar, Cerere de brevet înregistrată la Oficiul de Stat pentru Inventii și Marci OSIM cu nr. A2016 00750

6. Stand pentru cercetarea imagistică a exploziilor de gaze, Autori: Nicolae-Ioan Vlasin, Găman George Artur, Constantin Lupu, Vlad Păsculescu, Gheorghe Daniel Pupăzan, Maria Prodan, Angelica Nicoleta Călămar, Doru Cioclea, Irina Nălboc, Marius Șuvar, Gheorghe-Daniel Florea, Cerere de brevet înregistrată la Oficiul de Stat pentru Inventii și Marci OSIM cu nr: A/00788 din 04.11.2015

7. Sistem integrat de măsurare simultană a vitezelor de propagare a frontului flăcării și a undei de presiune în cazul exploziilor, Autori: Emilian Ghicioi, George Artur Găman, Constantin Lupu, Sorin Constantin Burian, Mihaela Părăian, Maria Prodan, Dan – Sorin Gabor, Vlad Păsculescu, Nicolae Vlasin, Andrei Szollosi-Moța, Marius Șuvar, Vasilica Irina Nălboc, Cerere de brevet înregistrată la Oficiul de Stat pentru Inventii și Marci OSIM cu nr: A/00739 din 19.10.2015

8. Metodă de restabilire a unei rețele de aeraj afectate de o explozie pe baza traseelor critice, Autori: Doru Cioclea, George Artur Găman, Constantin Lupu, Emilian Ghicioi, Ion Gherghe, Emeric Chiuzan, Cristian Tomescu, Corneliu Boantă, Marius Șuvar, Vlad Păsculescu, Cerere de brevet înregistrată la Oficiul de Stat pentru Inventii și Marci OSIM cu nr: a 2015 00163

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**2015:** Metodologie de stabilire a abaterii standard la nivelul unei rețele complexe de aeraj, Contract 45N/2007 act adițional nr.1/2015, PN 07 45 02 52, Program NUCLEU, Membru în colectiv

**2015:** Cercetări în vederea armonizării procedurilor și regulamentelor de acordare prim ajutor pentru intervenție și salvare în medii toxice / explozive / inflamabile cu cele existente pe plan european, Contract 45N/2007 act adițional nr.1/2015, PN 07 45 02 51, Program NUCLEU, Membru în colectiv

**2015:** Tehnologie inovativă de determinare a debitelor gazelor vehiculate prin conducte, Contract 45N/2007 act adițional nr.1/2015, PN 07 45 01 43, Program NUCLEU, Membru în colectiv

**2015:** Implementarea unor tehnologii armonizate cu metodele de referință în vederea determinării imisiilor de gaze din zonele adiacente proteja-te, Contract 45N/2007 act adițional nr.1/2015, PN 07 45 01 38, Program NUCLEU, Membru în colectiv

**2015:** Stabilirea influenței tirajului natural asupra repartiției debitelor de aer în rețeaua de aeraj,

Contract 45N/2007 act adițional nr.1/2015, PN 07 45 01 37, Program NUCLEU, Membru în colectiv

**2015:** Extinderea domeniului de evaluare a laboratorului prin testarea hărților de dispersie a poluanților atmosferici, Contract 45N/2007 act adițional nr.1/2015, PN 07 45 01 36, Program NUCLEU, Membru în colectiv

**2015:** Dezvoltarea laboratorului de protecția mediului prin achiziționarea unui echipament performant de măsurare și analiză a SO<sub>2</sub>. Contract 45N/2007 act adițional nr.1/2015, PN 07 45 01 34, Program NUCLEU, Membru în colectiv

**2014:** Optimizarea simulării computerizate a exploziilor amestecurilor aer-metan prin intermediul aplicațiilor ANSYS CFX și FLUENT, PN 07 45 02 46, Program NUCLEU, Membru în colectiv

**2014:** Completarea bazei de date cu parametrii de explozivitate obținuți în urma modernizării standului experimental „tub de șoc” pentru amestecuri explozive gazoase, PN 07 45 03 21, Program NUCLEU, Membru în colectiv

**2014:** Optimizarea activităților de cercetare a evenimentelor generate de explozii prin elaborarea de instrumente procedurate, PN 07 45 03 19, Program NUCLEU, Membru în colectiv

**2014:** Metodologie de stabilire a modificărilor mediului de lucru în subteran după producerea unei explozii în scopul protejării lucrătorilor, PN 07 45 02 45, Program NUCLEU, Membru în colectiv

**2014:** Extinderea domeniului de competență a laboratorului de toxicologie privind determinările de radiații electromagnetice la locurile de muncă, Contract 45 N/2007, PN 07 45 01 29, Program NUCLEU, Membru în colectiv

**2013 – 2014:** Extinderea domeniului de competență a laboratorului de mediu privind determinările de compuși organici volatili din emisii., Contract 45 N/2007, PN 07 45 02 34, Program NUCLEU, Membru în colectiv

**2013 – 2014:** Utilizarea CFD (Computational Fluid Dynamics) pentru clasificarea preceisă a arilor periculoase Ex generate de gaze inflamabile, Contract 45N/2007 act adițional nr.3/2012, 07 45 02 42, Program NUCLEU, **Responsabil Proiect**

**2013 – 2014:** Modelarea numerică a rețelelor de aeraj minier, utilizând analiza CFD prin intermediul pachetului software ANSYS Multiphysics, Contract 45N/2007 act adițional nr.3/2012, 07 45 02 35, Program NUCLEU, Membru în colectiv

**2013 – 2014:** Dezvoltarea capacității de testare a combustibililor solizi prin utilizarea metodei calorimetrice, Contract 45N/2007 act adițional nr.3/2012, 07 45 02 37, Program NUCLEU, Membru în colectiv

**2013:** Aplicație software pentru calculul parametrilor funcționali aferenți ventilatoarelor miniere și trasarea curbelor caracteristice acestora, , Contract 45N/2007 act adițional nr.3/2012, 07 45 02 44, Program NUCLEU, Membru în colectiv

**2012:** Cercetări privind identificarea de noi indici de foc utilizabili în condițiile aplicării tehnologiei de inertizare cu azot, Contract 45N/2007 act adițional nr.3/2012, 07 45 02 32, Program NUCLEU, Membru în colectiv

**2012:** Simularea computerizată a exploziilor de aer-gaz inflamabil produse în spații închise, Contract 45N/2007, 07 45 02 25, Program NUCLEU, Membru în colectiv

#### Proiecte CDI cu Finanțare Privată (Companii Naționale)

**2018:** Raport de expertiză tehnică a evenimentului produs în data de 16.01.2017 la imobilul cu nr. 37, de pe str. Scărișoara din loc. Micești (mun. Alba Iulia), jud. Alba, Membru în colectiv

**2017:** Raport de expertiză tehnică a evenimentului produs în data de 21.01.2017 la clubul Bamboo din București, str. Tuzla, nr. 50, sector 2, Membru în colectiv

**2016:** Raport de expertiză tehnică a evenimentului produs, în data de 22.08.2016, pe platforma Rafinării Petromidia, aparținând S.C. ROMPETROL RAFINĂRIE S.A., la Instalația Distilare Atmosferică și în Vid (DAV), Personal cooptat

**2015:** Raport de expertiză tehnică a evenimentului produs în data de 30.10.2015 la Clubul Colectiv din imobilul situat în municipiul București, str. Tăbăcarilor, nr. 15, sector 4, Membru în colectiv

**2015:** Raport de expertiza tehnica a evenimentului produs în data de 11 / 12.01.2015 în locuința situata în Rovinari, str. AL. Parcului bl. H 6, sc. 1, ap. 7, jud. GJ, Membru în colectiv

**2013:** Evaluarea și verificarea instalațiilor de ventilare din cadrul S.C. ELECTROLUX ROMÂNIA S.A. privind conformitatea cu Normativul NVIV-01-06, contract nr. 6387/2013, Membru în colectiv

**2013:** Evaluarea și verificarea instalațiilor de ventilare aferente ROMPETROL PETROCHEMICALS din cadrul S.C. ROMINSEV S.R.L. – Punct de lucru Petromidia, în conformitate cu Normativul NVIV-01-06, contract 6340/2013, Membru în colectiv

**2012 – 2013:** Evaluarea și verificarea instalațiilor de ventilație aferente uzinelor din cadrul din cadrul ARCELOR MITTAL S.A., în conformitate cu NVIV-01-06, etapa III – 2013 "Evaluarea și verificarea instalațiilor de ventilare din cadrul Dep. DPDES, Dep. DMC", contract 6212 /2012-2013, Membru în colectiv

**2013:** Evaluare și verificare instalații de ventilare din cadrul S.C. ROMPETROL RAFINARE S.A. – RAFINĂRIA VEGA PLOIEȘTI, în conformitate cu Normativul NVIV-01-06, CONTRACT NR. 6311/2013, Membru în colectiv

**2012 – 2013:** Evaluarea și verificarea instalațiilor de ventilare din cadrul S.C. ARCELOR MITTAL TUBULAR PRODUCTS ROMAN S.A. – FOSFATARE FMT, privind conformitatea cu Normativul NVIV-01-06, comanda nr. 4500010121/31.10.2012, contract nr. 6218/2012-2013, Membru în colectiv

**2012:** Evaluarea și verificarea instalațiilor de ventilație din cadrul ANTIBIOTICE S.A. în conformitate cu NVIV-01-06, contract nr. 6253/2012, Membru în colectiv

**2012:** Evaluarea și verificarea instalațiilor de ventilație din cadrul S.C. WEATHERFORD ATLASS.A.PLOIEȘTI în conformitate cu NVIV-01-06", contract nr. 6239/2012, Membru în colectiv

**2012 – 2013:** Evaluarea și verificarea instalațiilor de ventilație aferente uzinelor din cadrul ARCELOR MITTAL S:A, în conformitate cu NVIV-01-06, etapa I – 2012 "Evaluarea și verificarea instalațiilor de ventilare din cadrul Dep. Furnale, Dep. Aglomerare și materii prime, Dep. Tablă groasă, Dep. Oțelărie, Dep. Piese de Schimb", contract nr. 6212/2012-2013, Membru în colectiv

**2012:** Evaluarea și verificarea instalațiilor de ventilare aferente ROMPETROL GAS S.R.L., punctele de lucru Năvodari-Constanța, Vladimirescu-Arad și Dumbrava-Bacău, privind conformitatea cu Normativul NVIV-01-06, contract nr.6193/2012, Membru în colectiv

**2012:** Evaluarea și verificarea instalațiilor de ventilare din cadrul secției de extracție DeSmet aferente S.C. ARDEALUL S.A. Carei, privind conformitatea cu Normativul NVIV-01-06, contract nr. 6179/2012, Membru în colectiv

**2012:** Evaluarea și verificarea instalațiilor de ventilare din cadrul S.C. CRIMBO SAV GAS S.R.L., Onești, privind conformitatea cu Normativul NVIV-01-06, contract.nr. 6075/2012, Membru în colectiv

**2012:** Evaluarea și verificarea instalațiilor de ventilare aferente SINDAN PHARMA, privind conformitatea cu Normativul NVIV – 01 – 06" – contract nr. 5982 / 2012, Membru în colectiv

**2011:** Raport de expertiză tehnică privind evenimentul produs în data de 05.02.2011, la Exploatarea Minieră Uricani, Membru cooptat



## PERSONAL INFORMATION



## Vlad Mihai PĂSCULESCU

 1 Decembrie 1918 street, Bl.122, Sc. 2, Et. 6, Ap. 42, 332057 Petroșani (Romania)

 +40 765 616 288

 vlad.pasculescu@insemex.ro

Sex Male | Date of birth 29/09/1986 | Nationality Romanian

## WORK EXPERIENCE

20/04/2017–Present

**Senior Researcher II - Head of Laboratory for International Projects and Cooperation**

National Institute for Research and Development in Mine Safety and Protection to Explosion - INSEMEX

32 - 34 G-ral Vasile Milea street, 332047 Petrosani (Romania)

<http://www.insemex.ro>

**Main duties:**

- Organize and manage the laboratory team and activity.
- Organize and manage available inventory and financial resources.
- Establish the annual laboratory activity schedule.
- Coordinate public funded research projects and manage the resources (staff, financial, inventory) within the project.
- Keep track of staff work-hours within research projects developed by the laboratory.
- Work independently or part of a research team on assigned tasks.
- Develop internal work procedures.
- Understand special safety precautions and/or equipment (e.g., working with specific laboratory equipment and hazardous materials).
- Engage with internal and external partners including knowledge institutions, universities, technology vendors and scientific industry groups.
- Draft and submit papers to appropriate peer reviewed journals.
- Develop progress and final reports (technical, administrative & financial) for projects carried out in consortium foreign institutions/companies/organizations.
- Develop and submit project proposals in national/European and international research competitions.
- Prepare and present formal/official presentations, papers and complex information effectively to a range of audiences.
- Participate in national and international scientific symposia and conferences and disseminate the research results.
- Participate in the organization of national/international scientific events/meetings/forums.
- Develop multimedia materials for promoting the activity of the institute within national and international trade fairs.
- Develop and submit documents to foreign public institutions, companies, organizations.
- Develop MoU's and technical&scientific cooperation agreements with other parties.
- Communicate with foreign partners in order to establish the framework for cooperating in relevant RD&I projects.
- Create, maintain & improve the institute's relations with the media (newspapers, radio or TV).

Business or sector Research - Development - Innovation

01/12/2015–19/04/2017

### Senior Researcher III - Head of Laboratory for International Projects and Cooperation

National Institute for Research and Development in Mine Safety and Protection to Explosion - INSEMEX

32 - 34 G-ral Vasile Milea street, 332047 Petrosani (Romania)

<http://www.insemex.ro>

#### Main duties:

- Organize and manage the laboratory team and activity.
- Organize and manage available inventory and financial resources.
- Establish the annual laboratory activity schedule.
- Coordinate public funded research projects and manage the resources (staff, financial, inventory) within the project.
- Keep track of staff work-hours within research projects developed by the laboratory.
- Work independently or part of a research team on assigned tasks.
- Develop internal work procedures.
- Understand special safety precautions and/or equipment (e.g., working with specific laboratory equipment and hazardous materials).
- Engage with internal and external partners including knowledge institutions, universities, technology vendors and scientific industry groups.
- Draft and submit papers to appropriate peer reviewed journals.
- Develop progress and final reports (technical, administrative & financial) for projects carried out in consortium foreign institutions/companies/organizations.
- Develop and submit project proposals in national/European and international research competitions.
- Prepare and present formal/official presentations, papers and complex information effectively to a range of audiences.
- Participate in national and international scientific symposia and conferences and disseminate the research results.
- Participate in the organization of national/international scientific events/meetings/forums.
- Develop multimedia materials for promoting the activity of the institute within national and international trade fairs.
- Develop and submit documents to foreign public institutions, companies, organizations.
- Develop MoU's and technical&scientific cooperation agreements with other parties.
- Communicate with foreign partners in order to establish the framework for cooperating in relevant RD&I projects.
- Create, maintain & improve the institute's relations with the media (newspapers, radio or TV).

Business or sector Research - Development - Innovation

01/08/2013–30/11/2015

### Scientific Researcher

National Institute for Research and Development in Mine Safety and Protection to Explosion - INSEMEX

32 - 34 G-ral Vasile Milea street, 332047 Petroșani (Romania)

<http://www.insemex.ro>

**Main duties:**

- Coordinate public funded research projects.
- Work independently on assigned research tasks.
- Work collaboratively and as part of a research team.
- Understand special safety precautions and/or equipment (e.g., working with specific laboratory equipment and hazardous materials).
- Engage with internal and external partners including knowledge institutions, universities, technology vendors and scientific industry groups.
- Draft and submit papers to appropriate peer reviewed journals.
- Carry out field work in consultation with the PI and Research Project Coordinator.
- Develop documents (technical, administrative and financial forms) for research projects carried out in consortium with institutions / companies / organizations from abroad.
- Contribute to the induction and direction of other research staff as requested.
- Prepare and present complex information effectively to a range of audiences
- Prepare progress reports on research for funding bodies as required.
- Prepare formal/official presentations and papers of research findings to external audiences.
- Participate in national and international scientific symposia and conferences and disseminate research results to the participants.
- Participate in the organization of national/international scientific events/meetings/forums.
- Draft and translate multimedia materials for promoting the activity of the institute within national and international trade fairs.
- Develop documents to be submitted to public institutions, companies, organizations a.s.o. established outside the country.
- Develop memorandums of understanding and technical and scientific cooperation agreements between the institute and other parties.
- Communicate with international partners in order to establish the framework for cooperating in relevant Research-Development-Innovation projects.
- Participate in development and submission of project proposals in national/European and international research competitions.

**Business or sector** Research - Development - Innovation

14/02/2011–31/07/2013

**Scientific Research Assistant**

National Institute for Research and Development in Mine Safety and Protection to Explosion - INSEMEX

32 - 34 G-ral Vasile Milea street, 332047 Petroșani (Romania)

<http://www.insemex.ro>

**Main duties:**

- Work within an interdisciplinary research team on assigned research tasks.
- Contribute to the drafting and submitting of papers to appropriate peer reviewed journals.
- Carry out field work in consultation with the Principal Investigator and Research Project Coordinator.
- Contribute to the induction and direction of other research staff as requested.
- Prepare and present findings of research activity to colleagues for review purposes.
- Help prepare progress reports on research for funding bodies as required.
- Help draft formal/official presentations and papers of research findings to external audiences.
- Participate in national and international scientific symposia and conferences and disseminate

research results to the participants.

- Participate in the organization of national/international scientific events/meetings/forums.
- Help draft and translate multimedia materials for promoting the activity of the institute within national and international trade fairs.
- Develop documents to be submitted to public institutions, companies, organizations a.s.o. established outside the country, forwarding them to the management for approval.
- Develop memorandums of understanding and technical and scientific cooperation agreements between the institute and other parties.
- Communicate with international partners in order to establish the framework for cooperating in relevant Research-Development-Innovation projects.
- Help develop documents (technical, administrative and financial forms) for research projects carried out in consortium with institutions / companies / organizations from abroad.
- Participate in the development and submission of project proposals in national/European and international research competitions.

**Business or sector** Research - Development - Innovation

## EDUCATION AND TRAINING

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- 10/2017–12/2017 **Pyrotechnician, Professional qualification (Certificate)**  
National Institute for Research and Development in Mine Safety and Protection to Explosion - INSEMEX, Department for Safety of Explosives and Pyrotechnic Articles  
32 - 34 G-ral Vasile Milea street, 332047 Petrosani (Romania)  
<http://www.insemex.ro>
- 10/2015–12/2015 **Risk Assessor and Auditor in Labor Safety and Health, Postgraduate program of training and professional development (Certificate)**  
University of Petrosani, Faculty of Mining, Department of Mining, Topography and Constructions, Postuniversity Course  
20 Universitatii street, 332006 Petroșani (Romania)  
<http://www.upet.ro>
- 10/2011–11/2014 **Doctor in Engineering Sciences - Mines, Oil and Gas (Ph. D. Diploma)**  
University of Petrosani, Doctoral School, Fundamental Field of Study: Engineering Sciences, Doctoral Field of Study: Mines, Oil, Gases  
Strada Universității, nr. 20, 332006 Petroșani (Romania)  
<http://www.upet.ro>
- 10/2009–06/2011 **Master in Systems Engineering - Information Systems and Technologies (M. Sc. Diploma)**  
University of Petrosani, Faculty of Mechanical and Electrical Engineering, Field of Study: Systems Engineering, Specialization: Information Systems and Technologies  
20 Universitatii street, 332006 Petroșani (Romania)  
<http://www.upet.ro>
- 10/2009–07/2011 **Bachelor in Power Engineering - Industrial Energetics (B. Sc. Diploma)**  
University of Petrosani, Faculty of Mechanical and Electrical Engineering, Field of Study: Power Engineering, Specialization: Industrial Energetics  
20 Universitatii street, 332006 Petroșani (Romania)

<http://www.upet.ro>

10/2010–06/2011 **Promotion Certificate Level I**  
 University of Petrosani, Department for Teacher's Preparation and Continuous Training, Psycho-Pedagogical Training Programme, Postuniversity Programme: Teaching Staff Preparation, Level 1  
 20 Universitatii street, 332006 Petroșani (Romania)  
<http://www.upet.ro>

10/2005–07/2009 **Bachelor in Computers and Information Technologies - Computers (B. Sc. Diploma)**  
 University of Petrosani, Faculty of Mechanical and Electrical Engineering, Field of Study: Computers and Information Technology, Specialization: Computers  
 20 Universitatii street, 332006 Petroșani (Romania)  
<http://www.upet.ro>

2001–2005 **Baccalaureate Diploma, Computer Operator Certificate**  
 Informatics Highschool, Specialization: Mathematics - Informatics Intensive  
 10 Slatinioara street, Petroșani (Romania)  
<http://infopetrosani.ro/>

PERSONAL SKILLS

Mother tongue(s) Romanian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C1	C1	C2
German	A2	A2	A1	A1	A1
French	A1	A1	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 - Self-assessment grid

**Communication skills** Skills in working with young people and adults, persevering, responsible, eager for self improvement, good team spirit, increased capacity to adapt, communication, reliability, capacity to assimilate new information and skills, competencies acquired from carrying out various research projects conducted by interdisciplinary teams.

**Organisational / managerial skills** Sense of organization, capacity of synthesis and analysis, punctuality, ability to make decisions under stress conditions, ability to meet deadlines, spirit of evaluation and improvement, analytical spirit, self-taught.

**Job-related skills** Technical skills on means of protection to explosion, explosion risk assessment, classification of Ex hazardous areas generated by gases and vapours, types of explosion protection for technical equipment operating in potentially explosive atmospheres, computational fluid dynamics.

**Digital skills** Phast (Process Hazard Analysis Software Tool) by DNV GL, Windows OS, Microsoft Office, MySQL databases, Adobe Dreamweaver

**Driving licence** B1, BE, C1, C1E, B, C, CE

ADDITIONAL INFORMATION



International Projects	<p><b>2012 - 2015:</b> Advanced Tools for Ventilation and Methane Emissions Control - AVENTO, Contract No. RFCR-CT-2012-00004, European Commission, Directorate-General for Research and Innovation, Directorate G - Industrial Technologies, G.5 - Research Fund for Coal and Steel (RFCS Coal RTD Programme), <b>Member of the Research Team</b></p>
Memberships in International Scientific Organizations	<ol style="list-style-type: none"> <li>1. International Association of Engineers - <b>IAENG</b> (Member Number: 208669) <ul style="list-style-type: none"> <li>- IAENG Society of Electrical Engineering</li> <li>- IAENG Society of Industrial Engineering</li> <li>- IAENG Society of Information System Engineering</li> <li>- IAENG Society of Mechanical Engineering</li> </ul> </li> <li>2. International Association of Educators and Researchers – <b>IAER</b> (Membership number 181055)</li> </ol>
Memberships in National Scientific Organizations	<ol style="list-style-type: none"> <li>1. General Association of Engineers in Romania <b>AGIR Bucharest</b></li> <li>2. Association for Multidisciplinary Research in the West Region <b>ACM-V Timișoara</b> - Member of the <b>Managing Board</b></li> <li>3. Romanian Society of Automation and Information Technology - <b>SRAIT</b></li> <li>4. Romanian Association for Electrical Safety - <b>ARES</b></li> <li>5. Romanian National Committee of the World Energy Council <b>CNR-CME</b></li> <li>6. Romanian Society of Power Engineers – <b>SIER, Bucharest Branch</b></li> </ol>
Expert Evaluator/Rapporteur for RD&I Projects	<p><b>2019: Expert Evaluator (Independent Reviewer)</b>, III edition of EEA and Norway grants, Programme "Applied research" under the Norwegian Financial Mechanisms 2014 – 2021 / POLNOR CCS 2019 Call, Polish-Norwegian research projects, National Centre for Research and Development - NCBR, Warsaw Poland</p> <p><b>2019: Expert Evaluator (Independent Reviewer)</b>, National Plan for RDI 2015-2020 - PNCDI III - Programme 2 – Increase competitiveness of the Romanian Economy through Research, Development and Innovation, Subprogramme 2.1. Competitively through research, development and innovation, Funding instrument: Economic Transfer Projects - 2019 Competition (competition code: PN-III-P2-2.1 PTE-2019), Romania</p> <p><b>2017: Expert Evaluator (Independent Reviewer)</b>, National Plan for RDI 2015-2020 - PNCDI III - Programme 1 – Developing the National R&amp;D System, Sub-programme 1.2. Institutional Performance, Funding instrument: Complex Projects developed in RD&amp;I Consortia – 2017 Competition (competition code: PN-III-P1-1.2-PCCDI-2017), Romania</p>
Hirsch Index	<p>Web of Science Core Collection H-index: <b>7</b></p> <p>SCOPUS H-index: <b>10</b></p> <p>Google Scholar H-index: <b>10</b></p>
Participation in International Forums / Meetings / Working Sessions	<p><b>2017:</b> 23<sup>rd</sup> Meeting of European Heads of State Mining Authorities, 25-26 September 2017, Bratislava, Slovakia</p> <p><b>2016:</b> 22<sup>nd</sup> Meeting of European Heads of State Mining Authorities, 13-14 September 2016, Bucharest, Romania</p> <p><b>2016:</b> 17<sup>th</sup> Forum of Notified Bodies for Pyrotechnics, 9-11 May, Sibiu</p> <p><b>2016:</b> 25<sup>th</sup> Forum of Notified Bodies for Explosives for Civil Use, 9-11 May, Sibiu, Romania</p> <p><b>2015:</b> 21<sup>st</sup> Meeting of European Heads of State Mining Authorities, 15-16 September 2015, Helsinki, Finland</p> <p><b>2014:</b> 20<sup>th</sup> Meeting of European Heads of State Mining Authorities, 9-10 October 2014, Dublin, Ireland</p> <p><b>2013:</b> 19<sup>th</sup> Meeting of European Heads of State Mining Authorities, 23-24 September 2013, Belgrade, Serbia</p>
Member of Editorial Boards or Scientific Committees, Organizer	<ul style="list-style-type: none"> <li>■ Member of the <b>Review Committee</b> for Scientific Articles “<b>Universal Journal of Mechanical Engineering</b>” <a href="http://www.hrpub.org/journals/jour_reviewers.php?id=51">http://www.hrpub.org/journals/jour_reviewers.php?id=51</a></li> </ul>

## of Scientific Events

- Member of the **Review Committee** for Scientific Articles “**SWS Earth & Geo Sciences Review Committee**” <https://www.sgem.org/index.php/committee-and-partners/reviewers-committee>
- Member of the **Editorial Board** of “**Bionics of Intelligence**” Journal, ISSN: 2663-3051 (print), ISSN: 2663-306X (online), Kharkiv, Nauky ave., 14, Ukraine <http://bionica-scimag.com/en/redaction>
- **Reviewer** for Scientific Articles for the International Symposium on Occupational Health and Safety – SESAM 2019, 9th Edition, 3 October 2019, Petrosani, Romania
- Reviewer for the “**Journal of Cleaner Production**”, ELSEVIER, ISSN: 0959-652
- Member of the **Editorial Board** of “**International Journal of Oil, Gas and Coal Engineering (OGCE)**” Journal, ISSN: 2376-7669 (Print), ISSN: 2376-7677 (Online), Science Publishing Group, 548 Fashion Avenue, New York, NY 10018, U.S.A.
- Member of the International Scientific Committee of the "International 11th Conference of Health and Hospital Administration", 13-15 October 2017, Trabzon, Turkey
- Member of the organizing committee of the International Symposium on Occupational Health and Safety – SESAM 2019, 9th Edition, 3 October 2019, Petrosani, Romania
- Member of the organization committee of the International Symposium on Occupational Health and Safety – SESAM 2017, 8<sup>th</sup> Edition, 19 October 2017, Bucharest, Romania
- Member of the organization committee of the 22<sup>nd</sup> Meeting of the European Heads of State Mining Authorities, 13-14 September 2016, Bucharest, Romania
- Member of the organization committee of the 17<sup>th</sup> Forum of Notified Bodies for Pyrotechnics, Sibiu, 09 ÷ 11 May 2016
- Member of the organization committee of the 25<sup>th</sup> Forum of Notified Bodies for Explosives for Civil Use, Sibiu, 09 ÷ 11 May 2016
- Member of the secretariat of the International Symposium on Occupational Health and Safety – SESAM 2015, 7<sup>th</sup> Edition, 30 September – 2 October 2015, Poiana Braşov, Romania
- Member of the secretariat of the International Symposium on Occupational Health and Safety – SESAM 2013, 6<sup>th</sup> Edition, 23-25 October 2013, Sibiu, Romania
- Member of the secretariat of the International Symposium on Occupational Health and Safety – SESAM 2011, 5<sup>th</sup> Edition, 9-11 November 2011, Sinaia, Romania

## Specializations and Trainings

- 2019:** Training SA-01 Phast software – Process Hazard Analysis Software Tool – DNV GL London, United Kingdom, 16-18 September 2019
- 2019:** Training SA-16 Phast 3D Explosions modelling extension – Process Hazard Analysis Software Tool – DNV GL London, United Kingdom, 19 September 2019
- 2019:** Session Chairman: “4.Mineral Processing și 10.Photogrammetry and Remote Sensing” within the 19 International Multidisciplinary GeoConference SGEM 2019, 28.06.2019-07.07.2019, Albena, Bulgaria (Verification letter, 10.07.2019, Sofia, Bulgaria)
- 2019:** Training Session “Electronic access to the scientific literature to support and promote the research and education system in Romania”, Petrosani, Romania, 5 April 2019, organised within ANELIS Project
- 2018:** Course “Entrepreneurial skills”, 28.09.2018 – 19.10.2018, organised by S.C. EURO-JOBS S.R.L. Petroşani, Romania
- 2018:** Training course “Project Manager”, COR code (Classification of Occupations in Romania) 242101, April 2018, organised by LIDEEA DEVELOPMENT ACTIONS Deva, Romania
- 2018:** Session Chairman “1.2. Advances in Safety Science and Occupational Risk Management 2” within the 8th International Multidisciplinary Scientific Symposium “UNIVERSITARIA SIMPRO 2018”, 11-13 October 2018, Petrosani, Romania
- 2017:** Plenary scientific session Chairman: “1. Geology”, 17<sup>th</sup> International Multidisciplinary Conference SGEM 2017, Albena, Bulgaria (Verification letter, 13.07.2017, Sofia, Bulgaria)
- 2013:** Session Chairman: “Exploration and Mining” within the 13<sup>th</sup> International Multidisciplinary Scientific GeoConference SGEM 2013, 16.06.2013-22.06.2013, Albena, Bulgaria (Verification letter, 28.06.2013, Sofia, Bulgaria)
- 2013:** Training – Introduction to ANSYS CFX v14.5 (Certificate of Completion no. 01867) – INAS S.A. Craiova, Romania, January 2013
- 2012:** Training – Introduction to ANSYS AUTODYN & ANSYS Explicit Dynamics STR (Certificate of Completion no. 01851) – INAS S.A. Craiova, Romania, December 2012

**2012:** Training – Introduction to ANSYS Workbench 14.5 (Certificate of Completion no. 01835) – INAS S.A. Craiova, Romania, November 2012

**2012:** Training session for competent authorities enrolled in the Unique National Electronic Contact Point, "Digital Romania" National Centre, Bucharest, Romania, 8-9 May 2012

**2008:** Erasmus Schollarsip - LLP (Life Learning Program), Birmingham (West Midlands), United Kingdom, June - September 2008

**2007:** Two-weeks training at the Moscow State Mining University (Russian Federation), July 2007

#### Online Trainings

**2020:** E-nformation online training session, 13 February 2020, National Institute for R&D in Mine Safety and Protection to Explosion – INSEMEX Petrosani, S.C. E-NFORMATION S.R.L., Bucharest, Romania

**2020:** Webex Web of Science: Everything about EndNote Online, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 19 February 2020

**2020:** Webex Web of Science: Discover the export functions available in Web of Science, S.C. E-NFORMATION S.R.L., Bucharest Romania, 12 February 2020

**2020:** Webex Web of Science: Selection of Emerging Sources Citation Index journals, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 20 January 2020

**2020:** Webex Web of Science: Novelties of Kopernio, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 9 January 2020

**2019:** Webex Web of Science: Novelties of Web of Science Group, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 4 December 2019

**2019:** Webex Clarivate Analytics: Discover everything about funding data available within Web of Science, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 30 September 2019

**2019:** Webex Clarivate Analytics: Presentation of analytical tools related to Web of Science Core Collection data, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 10 September 2019

**2019:** Webex Clarivate Analytics: Kopernio. Stop Clicking.Start Reading, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 18 June 2019

**2019:** Webex Clarivate Analytics: What is new in Web of Science, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 11 June 2019

**2019:** Webex Euromonitor: "Passport – Your Gateway To Global Market Research", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 29 mai 2019

**2019:** Webex Clarivate Analytics: Open Access content identification, usage and analysis: what you have to know, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 16 May 2019

**2019:** Webex Clarivate Analytics: To cooperate, this is the question, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 14 May 2019

**2019:** Webex Clarivate Analytics: Discovery through the citation network– Citation Network, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 7 May 2019

**2019:** Webex Clarivate Analytics: Where to publish: Journal Impact Factor, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 23 April 2019

**2019:** Webex Clarivate Analytics: ResearcherID merges with Publons, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 18 April 2019

**2019:** Webex Clarivate Analytics: Discover the free Kopernio plugin, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 26 march 2019

**2019:** Webex Clarivate Analytics: Navigate citations in Web of Science, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 19 march 2019

**2019:** Webex Clarivate Analytics: Identification, use and analysis of Open Access content in Web of Science, 23 January S.C. E-NFORMATION S.R.L., Bucharest, Romania, 2019

**2019:** Webex Clarivate Analytics: New Publons profile, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 10 January 2019

**2018:** Webex Clarivate Analytics: "Identification, use and analysis of Open Access content in Web of Science", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 18 December 2018

**2018:** Webex Clarivate Analytics: "Citation analytical tools and metrics for Web of Science Core Collection data", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 12 December 2018

**2018:** Webex Clarivate Analytics: "Discover the content of Social and Human Sciences from Web of Science", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 5 December 2018

- 2018:** Google Digital Garage, Digital Marketing Basics, 5 December 2018
- 2018:** ELSEVIER Online Training, Scopus: How does it help you?, 10 December 2018
- 2018:** ELSEVIER Online Training, ScienceDirect: what is new?, 29 November 2018
- 2018:** Webex Clarivate Analytics: "Did you know that Web of Science does not contain only publications?", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 27 November 2018
- 2018:** Webex Clarivate Analytics: "Web of Science, a shortcut to the full text ", 21 November 2018
- 2018:** Webex Clarivate Analytics: "Publons for researchers: promote your peer-review activity", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 14 November 2018
- 2018:** ANELIS & E-nformation: "Access to the scientific literature: Romanian International Conference for Research and Education", – 6<sup>th</sup> Edition – 23-25 October 2018, Cluj-Napoca, Romania
- 2018:** Webex Clarivate Analytics: "Clarivate Analytics APIs – Web of Science data available outside the Web of Science platform ", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 18 October 2018
- 2018:** Webex Clarivate Analytics: " From Open Access to High Performance Analytics: Web of Science News", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 11 October 2018
- 2018:** Webex Clarivate Analytics: "Researching gravitational waves", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 5 October 2018
- 2018:** Webex Clarivate Analytics: Workshop "Web of Science: An efficient combination of patents, publications, research data, for an unparalleled bibliographic breakthrough", S.C. E-NFORMATION S.R.L., Bucharest, Romania, 12 September 2018
- 2018:** Webex Clarivate Analytics: Cooperation in research: why does it matter?, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 4 September 2018
- 2018:** Webex Clarivate Analytics: InCites comprises now over 2.2 million records from emerging journals, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 5 July 2018
- 2018:** Webex Clarivate Analytics: 2018 Journal Citation Reports, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 2 July 2018
- 2018:** Webex Clarivate Analytics: Learn how to create and work with personalised datasets in Incites and how to use benchmarks, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 26 June 2018
- 2018:** Webex Clarivate Analytics: How to use Web of Science for measuring Open Access publications, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 11 June 2018
- 2018:** Webex Clarivate Analytics: Where shall I publish? Web of Science, Journal Citation Reports and EndNote for articles publishing decision making, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 8 June 2018
- 2018:** Webex Clarivate Analytics: Learn how to access freely and legally over 10 million articles, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 31 May 2018
- 2018:** Webex Clarivate Analytics: Publons for researchers, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 29 May 2018
- 2018:** Webex IOP Publishing: How to get published, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 22 May 2018
- 2018:** Webex Clarivate Analytics: Release the potential of Citation Connection, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 9 May 2018
- 2018:** Webex Clarivate Analytics: How to analyse data from Web of Science, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 10 April 2018
- 2018:** Webex Clarivate Analytics: Learn how to create an author profile (ORCID / ResearcherID), S.C. E-NFORMATION S.R.L., Bucharest, Romania, 4 April 2018
- 2018:** Webex Clarivate Analytics: Publons, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 3 April 2018
- 2018:** Webex Clarivate Analytics: InCites Benchmarking & Analytics for beginners, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 19 Mar 2018
- 2018:** Webex Clarivate Analytics: Learn how to create and consolidate an author profile (ORCID / RID) in order to be in compliance with requirements for authors of the editors and funders, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 23 Feb 2018
- 2018:** Webex Clarivate Analytics: How to identify funding sources, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 19 February 2018
- 2018:** Webex Clarivate Analytics: Eugene's Garfield legacy – learn about the unique history of Web of



Science, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 9 February 2018

**2018:** Webex Clarivate Analytics: Learn how to develop a library of references and how to manage references online using EndNote Online, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 26 Ian 2018

**2018:** Webex Clarivate Analytics: Learn how to create and work with InCites personalised data sets, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 25 Ian 2018

**2018:** Webex Clarivate Analytics: Find out how Clarivate creates millions of new links to Open Access articles in order to support the Open Science revolution, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 22 Ian 2018

**2018:** IVERSITY: MOOC of the European Committee of the Regions - Make the most of EUresources for your region or city, January - February 2018, Statement of Participation: <https://iversity.org/verify/rFtShL>

**2018:** IVERSITY: Managing Innovation, January 2018, Statement of Participation: <https://iversity.org/verify/rXXkUL>

**2017:** Webex Clarivate Analytics: New functions in Web of Science, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 29.11.2017

**2017:** Webex Clarivate Analytics: How to discover emerging and top research using Research Fronts and Highly Cited indicators, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 28.11.2017

**2017:** Webex Clarivate Analytics: Discover new and emerging research using Emerging Sources Citation Index, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 15.11.2017

**2017:** Webex Clarivate Analytics: Web of Science Core Collection for beginners, S.C. E-NFORMATION S.R.L., Bucharest, Romania, 08.11.2017

#### Patents / Patent requests

1. Stand for determining the self-ignition temperature  $T_i$  of flammable liquids with high viscosity, **Authors:** Ghicioi Emilian, Găman George Artur, Pupăzan Gheorghe Daniel, Călămar Angelica-Nicoleta, Vlasin Nicolae – Ioan, **Păsculescu Vlad Mihai**, Nicolescu Cristian, Laszlo Robert, Burian Constantin Sorin, Manea Florin, Florea Gheorghe-Daniel, Nălboc Vasilica Irina, Szollosi-Moța Andrei, Șuvar Marius Cornel, Gheorghiosu Edward-Jan, Kovacs Attila, Simion Alexandru Florin, Morar Marius Simion, Patent request registered at the Romanian State Office for Inventions and Trademarks with no: a 2018 00910
2. System for continuous monitoring and recording of gas explosion parameters, **Authors:** Vlasin Nicolae-Ioan, Găman George Artur, Ghicioi Emilian, Pupăzan Gheorghe Daniel, Călămar Angelica-Nicoleta, **Păsculescu Vlad Mihai**, Nicolescu Cristian, Laszlo Robert, Burian Constantin Sorin, Manea Florin, Florea Gheorghe-Daniel, Nălboc Vasilica Irina, Szollosi-Moța Andrei, Șuvar Marius Cornel, Vass Zoltan, Tuhuț Ligia – Ioana, Simion Alexandru Florin, Morar Marius Simion, Patent request registered at the Romanian State Office for Inventions and Trademarks with no: a 2018 00933
3. Stand for determining reaction products generated by solid combustible materials, **Authors:** Emilian Ghicioi, George Artur Găman, Maria Prodan, Andrei Szollosi-Moța, Constantin Lupu, Sorin Constantin Burian, **Vlad Mihai Păsculescu**, Doru Cioclea, Irina Nălboc, Niculina Sonia Șuvar, Nicolae Vlasin, Marius Șuvar, Florin Rădoi, Emeric Chiuzan, Gheorghe Daniel Florea, Răzvan Drăgoescu, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: a 2017 00929
4. Universal system for determining the minimum ignition energy of explosive air - inflammable substance mixtures, **Authors:** Maria Prodan, Emilian Ghicioi, Constantin Lupu, **Vlad Mihai Păsculescu**, Nicolae Ioan Vlasin, Adrian Marius Jurca, Angelica Nicoleta Călămar, Dan Sorin Gabor, Andrei Szollosi-Moța, Irina Vasilica Nălboc, Marius Cornel Șuvar, Patent request registered at the Romanian State Office for Inventions and trademarks with no.: a 2017 00457
5. Stand for determination of explosive limit in flammable liquid vapour, **Authors:** Maria Prodan, George Artur Găman, Emilian Ghicioi, Constantin Lupu, Doru Cioclea, **Vlad Mihai Păsculescu**, Dan Gabor, Nicolae Vlasin, Adrian Jurca, Andrei Szollosi Moța, Irina Nălboc, Marius Cornel Șuvar, Patent request registered at the Romanian State Office for Inventions and trademarks with no.: A2016 00750
6. Stand for imagistic research of gas explosions, **Authors:** Nicolae-Ioan Vlasin, Găman George Artur, Constantin Lupu, Vlad Păsculescu, Gheorghe Daniel Pupăzan, Maria Prodan, Angelica Nicoleta Călămar, Doru Cioclea, Irina Nălboc, Marius Șuvar, Gheorghe-Daniel Florea, Patent request registered at the Romanian State Office for Inventions and trademarks with no.: A/00788 / 04.11.2015
7. Integrated system for simultaneously measuring propagation rates of the front of the flame and pressure wave in case of explosions, **Authors:** Emilian Ghicioi, George Artur Găman, Constantin Lupu, Sorin Constantin Burian, Mihaela Părăian, Maria Prodan, Dan – Sorin Gabor, **Vlad Păsculescu**, Nicolae Vlasin, Andrei Szollosi-Moța, Marius Șuvar, Vasilica Irina Nălboc, Patent request



registered at the Romanian State Office for Inventions and trademarks with no.: A/00739 / 19.10.2015

**8.** Method for restoring a ventilation network affected by an explosion, on the basis of critical paths, **Authors:** Doru Cioclea, George Artur Găman, Constantin Lupu, Emilian Ghicioi, Ion Gherghe, Emeric Chiuzean, Cristian Tomescu, Corneliu Boantă, Marius Șuvar, **Vlad Păsculescu**, Patent request registered at the Romanian State Office for Inventions and trademarks with no.: a 2015 00163

**9.** Method for a priori solving a ventilation network affected by an explosion, **Authors:** Doru Cioclea, George Artur Găman, Constantin Lupu, Emilian Ghicioi, Ion Gherghe, Florin Rădoi, Cristian Tomescu, **Vlad Păsculescu**, Patent request registered at the Romanian State Office for Inventions and trademarks with no.: a 2014 00953

#### Prizes and Awards

**2019: Best presentation prize** within the 19th International Multidisciplinary Scientific GeoConference SGEM 2019, 28.06.2019 - 07.07.2019, Albena, Bulgaria, <https://www.sgem.org/index.php/committee-and-partners/sgem-award-certificate>

**2019:** Stand for determining reaction products generated by solid combustible materials, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: a 2017 00929, **Diploma of Excellence**, International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 20-22 March 2019, Cluj-Napoca, Romania, **Authors:** Ghicioi Emilian, Găman George Artur, Maria Prodan, Szollosi Mota Andrei, Lupu Constantin, Burian Sorin Constantin, **Păsculescu Vlad Mihai**, Cioclea Doru, Nălboc Irina, Șuvar Niculina Sonia, Vlasin Nicolae, Șuvar Marius, Rădoi Florin, Chiuzean Emeric, Florea Gheorghe Daniel, Drăgoescu Răzvan

**2019:** Universal system for determining the minimum ignition energy of explosive air – inflammable substance mixtures, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2017 00457, **Gold Medal / Special prize received from APIR**, 47th International Exhibition of Inventions Geneva, Switzerland, 10 - 14 April 2019 **Authors:** Prodan Maria, Ghicioi Emilian, Găman George Artur, Lupu Constantin, **Păsculescu Vlad Mihai**, Vlasin Nicolae, Jurca Adrian, Călămar Angelica, Gabor Dan, Szollosi Mota Andrei, Nălboc Irina, Șuvar Marius

**2019:** Stand for determining reaction products generated by solid combustible materials, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: a 2017 00929, **Gold Medal**, EUROINVENT - European Exhibition of Creativity and Innovation, 10<sup>th</sup> Edition, 16 – 18 May, 2019, Iași, Romania, **Authors:** Ghicioi Emilian, Găman George Artur, Maria Prodan, Szollosi Mota Andrei, Lupu Constantin, Burian Sorin Constantin, **Păsculescu Vlad Mihai**, Cioclea Doru, Nălboc Irina, Șuvar Niculina Sonia, Vlasin Nicolae, Șuvar Marius, Rădoi Florin, Chiuzean Emeric, Florea Gheorghe Daniel, Drăgoescu Răzvan

**2019:** Universal system for determining the minimum ignition energy of explosive air – inflammable substance mixtures, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2017 00457, **Gold Medal**, EUROINVENT - European Exhibition of Creativity and Innovation, 10<sup>th</sup> Edition, 16 – 18 May, 2019, Iași, Romania, **Authors:** Prodan Maria, Ghicioi Emilian, Găman George Artur, Lupu Constantin, **Păsculescu Vlad Mihai**, Vlasin Nicolae, Jurca Adrian, Călămar Angelica, Gabor Dan, Szollosi Mota Andrei, Nălboc Irina, Șuvar Marius

**2019:** Stand for imagistic research of gas explosions, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2016 00788, **Silver Medal**, EUROINVENT - E European Exhibition of Creativity and Innovation, 10<sup>th</sup> Edition, 16 – 18 May, 2019, Iași, Romania, **Authors:** Nicolae-Ioan Vlasin, George Artur Găman, Emilian Ghicioi, Constantin Lupu, **Vlad Mihai Păsculescu**, Daniel Pupăzan, Maria Prodan, Angelica Nicoleta Călămar, Doru Cioclea, Irina Nălboc, Marius Comel Șuvar, Gheorghe – Daniel Florea

**2019:** Method for a priori solving a ventilation network affected by an explosion, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2014 00953, **Excellency Diploma**, EUROINVENT - European Exhibition of Creativity and Innovation, 10<sup>th</sup> Edition, 16 – 18 May, 2019, Iași, Romania, **Authors:** Cioclea Doru, Găman George Artur, Lupu Constantin, Ghicioi Emilian, Gherghe Ion, Rădoi Florin, Tomescu Cristian, **Păsculescu Vlad**, Morar Marius Simion

**2018:** Method for a priori solving a ventilation network affected by an explosion, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: a 2014 00953, **Gold Medal**, 22<sup>nd</sup> International Exhibition of Inventions - INVENTICA, Iași, Romania, 27-29 June 2018, **Authors:** Cioclea Doru, Găman George Artur, Lupu Constantin, Ghicioi Emilian, Gherghe Ion, Rădoi Florin, Tomescu Cristian, **Păsculescu Vlad**, Morar Marius Simion

**2018:** Universal system for determining the minimum ignition energy of explosive air - inflammable substance mixtures, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: a 2017 00457, **Gold Medal**, 22<sup>nd</sup> International Exhibition of Inventions - INVENTICA, Iași, Romania, 27-29 June 2018, **Authors:** Prodan Maria, Ghicioi Emilian, Găman George Artur, Lupu Constantin, **Păsculescu Vlad Mihai**, Vlasin Nicolae, Jurca Adrian, Călămar

Angelica, Gabor Dan, Szollosi Mota Andrei, Nălboc Irina, Şuvar Marius

**2018:** Universal system for determining the minimum ignition energy of explosive air - inflammable substance mixtures, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: a 2017 00457, **Gold Medal**, "Traian Vuia" International Exhibition of Inventions and Innovations, 4<sup>th</sup> Edition, Timișoara, Romania, 13-15 June 2018, **Authors:** Prodan Maria, Ghicioi Emilian, Găman George Artur, Lupu Constantin, **Păsculescu Vlad Mihai**, Vlasin Nicolae, Jurca Adrian, Călămar Angelica, Gabor Dan, Szollosi Mota Andrei, Nălboc Irina, Şuvar Marius

**2017:** Stand for determination of explosive limit in flammable liquid vapour, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A2016 00750, **Gold Medal**, 21<sup>st</sup> International Exhibition of Inventions INVENTICA 2017 Iași, Romania, 28-30 June 2017, **Authors:** Maria Prodan, George Artur Găman, Emilian Ghicioi, Constantin Lupu, Doru Cioclea, **Vlad Mihai Păsculescu**, Dan Gabor, Nicolae Vlasin, Adrian Jurca, Andrei Szollosi Moța, Irina Nălboc, Marius Cornel Şuvar

**2017:** Integrated system for simultaneously measuring propagation rates of the front of the flame and pressure wave in case of explosions, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: 2015 00739, **Gold Medal**, 21<sup>st</sup> International Exhibition of Inventions INVENTICA 2017 Iași, 28-30 June 2017, **Authors:** Emilian Ghicioi, George Artur Găman, Constantin Lupu, Sorin Burian, Mihaela Părăian, Maria Prodan, Dan Gabor, **Vlad Păsculescu**, Nicolae Vlasin, Andrei Szollosi-Mota, Marius Şuvar, Irina Vasilica Nălboc

**2017:** Integrated system for simultaneously measuring propagation rates of the front of the flame and pressure Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: 2015 00739, **Diploma of Excellence and the INCDMTM (National Institute of Research and Development in Mechatronics and Measurement Technique) Bucharest Trophy**, 21<sup>st</sup> International Exhibition of Inventions INVENTICA 2017 Iași, 28-30 June 2017, **Authors:** Emilian Ghicioi, George Artur Găman, Constantin Lupu, Sorin Burian, Mihaela Părăian, Maria Prodan, Dan Gabor, **Vlad Păsculescu**, Nicolae Vlasin, Andrei Szollosi-Mota, Marius Şuvar, Irina Vasilica Nălboc

**2017:** Stand for determination of explosive limit in flammable liquid vapour, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A2016 00750, **Gold Medal**, "Traian Vuia" International Exhibition of Inventions and Innovations, 3<sup>rd</sup> Edition, Timișoara, Romania, 7-9 June 2017, **Authors:** Maria Prodan, George Artur Găman, Emilian Ghicioi, Constantin Lupu, Doru Cioclea, **Vlad Mihai Păsculescu**, Dan Gabor, Nicolae Vlasin, Adrian Jurca, Andrei Szollosi Moța, Irina Nălboc, Marius Cornel Şuvar

**2017:** Stand for imagistic research of gas explosions, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2016 00788, **Gold Medal**, "Traian Vuia" International Exhibition of Inventions and Innovations, 3<sup>rd</sup> Edition, Timișoara, Romania, 7-9 June 2017, **Authors:** Nicolae-Ioan Vlasin, George Artur Găman, Emilian Ghicioi, Constantin Lupu, **Vlad Mihai Păsculescu**, Daniel Pupăzan, Maria Prodan, Angelica Nicoleta Călămar, Doru Cioclea, Irina Nălboc, Marius Cornel Şuvar, Gheorghe – Daniel Florea

**2017:** Method for restoring a ventilation network affected by an explosion, on the basis of critical paths, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2015 00163, **Gold Medal and Diploma of Excellence**, "Traian Vuia" International Exhibition of Inventions and Innovations, 3<sup>rd</sup> Edition, Timișoara, Romania, 7-9 June 2017, **Authors:** Doru Cioclea, George Artur Găman, Constantin Lupu, Emilian Ghicioi, Ion Gherghe, Emeric Chiuzean, Cristian Tomescu, Corneliu Boantă, Marius Cornel Şuvar, **Vlad Mihai Păsculescu**

**2017:** Stand for imagistic research of gas explosions, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2016 00788, **Gold Medal and Special Prize** of "Technopol- Moscow" - The Science & Technology Association, International Invention, Research and New Technology Fair - INNOVA, 2nd Edition, Barcelona, Spain, 4-6 May 2017, **Authors:** Nicolae-Ioan Vlasin, George Artur Găman, Emilian Ghicioi, Constantin Lupu, **Vlad Mihai Păsculescu**, Daniel Pupăzan, Maria Prodan, Angelica Nicoleta Călămar, Doru Cioclea, Irina Nălboc, Marius Cornel Şuvar, Gheorghe–Daniel Florea

**2017:** Stand for determination of explosive limit in flammable liquid vapour, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A2016 00750, **Gold Medal**, International Invention, Research and New Technology Fair - INNOVA, 2nd Edition, Barcelona, Spain, 4-6 May 2017, **Authors:** Maria Prodan, George Artur Găman, Emilian Ghicioi, Constantin Lupu, Doru Cioclea, **Vlad Mihai Păsculescu**, Dan Gabor, Nicolae Vlasin, Adrian Jurca, Andrei Szollosi Moța, Irina Nălboc, Marius Cornel Şuvar

**2017:** Method for restoring a ventilation network affected by an explosion, on the basis of critical paths, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2015 00163, **Gold Medal and Special Prize** from Hong Kong Science and Technology Parks Corporation Company, 45<sup>th</sup> International Exhibition of Inventions Geneva, Switzerland, 29 March – 2 April 2017, **Authors:** Doru Cioclea, George Artur Găman, Constantin Lupu, Emilian Ghicioi, Ion

Gherghe, Emeric Chiuzan, Cristian Tomescu, Corneliu Boantă, Marius Cornel Șuvar, **Vlad Mihai Păsculescu**

**2017:** Stand for determination of explosive limit in flammable liquid vapour, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A2016 00750, **Gold Medal and Diploma of Excellence PRO INVENT**, International Exhibition of Research, Innovation and Inventions PRO INVENT, Cluj-Napoca, Romania, 21-24 March 2017, **Authors:** Maria Prodan, George Artur Găman, Emilian Ghicioi, Constantin Lupu, Doru Cioclea, **Vlad Mihai Păsculescu**, Dan Gabor, Nicolae Vlasin, Adrian Jurca, Andrei Szollosi Moța, Irina Nălboc, Marius Cornel Șuvar

**2017:** Stand for imagistic research of gas explosions, Patent request registered at the Romanian State Office for Inventions and Trademarks with no.: A 2016 00788, **Diploma of Appreciation**, National Fair of Romanian Inventions – 1<sup>st</sup> Edition, Bucharest, Romania, 20 June 2017, **Authors:** Nicolae-Ioan Vlasin, George Artur Găman, Emilian Ghicioi, Constantin Lupu, **Vlad Mihai Păsculescu**, Daniel Pupăzan, Maria Prodan, Angelica Nicoleta Călămar, Doru Cioclea, Irina Nălboc, Marius Cornel Șuvar, Gheorghe – Daniel Florea

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- 2019:** Consequence modelling of a truck explosion, 9th International Conference on Manufacturing

Science and Education – MSE 2019 “Trends in New Industrial Revolution”, Sibiu, Romania, June 5-7, 2019, **Authors: Păsculescu Vlad Mihai**, Ghicioi Emilian, Morar Marius Simion, Suvar Marius Cornel, Vlasin Nicolae Ioan

**2018:** A quality-based approach for improving the lighting design process, 8th International Multidisciplinary Scientific Symposium “UNIVERSITARIA SIMPRO 2018”, 11-13 October 2018, Petrosani, Romania, **Authors:** Păsculescu Dragos, Pana Leon, Buica Georgeta, **Păsculescu Vlad Mihai**, Dobra Remus

**2018:** Computational study for improving the quality of safety measures for LPG filling stations, 8th International Multidisciplinary Scientific Symposium “UNIVERSITARIA SIMPRO 2018”, 11-13 October 2018, Petrosani, Romania, **Authors: Păsculescu Vlad Mihai**, Ghicioi Emilian, Morar Marius Simion, Păsculescu Dragoș, Șuvar Marius Cornel

**2018:** Computational study on the quality of the suppression effect of sprinklers on building fires spread and interaction with smoke layers, 8th International Multidisciplinary Scientific Symposium “UNIVERSITARIA SIMPRO 2018”, 11-13 October 2018, Petrosani, Romania, **Authors:** Șuvar Marius Cornel, Ghicioi Emilian, Munteanu Laurențiu, **Păsculescu Vlad Mihai**, Florea Gheorghe Daniel, Șuvar Niculina Sonia, Nicola Aurelian

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**2012:** Computerized prediction of the development of a fire occurred in a hypothetical wholesale warehouse, Proceedings of the 5th international multidisciplinary scientific Symposium Universitaria Simpro 2012, 11-14 October 2012, Petrosani, Romania, **Authors:** Lupu Constantin, Nicolae-Ioan Vlasin, Tomescu Cristian, **Păsculescu Vlad**, Şuvar Marius

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**2007:** Programmable control block for shearer and conveyor intended for mines with explosion hazard, International Symposium on Occupational Health and Safety – SESAM 2007, 3<sup>rd</sup> Edition, pp.426-432, INSEMEX Petrosani, **Authors:** Păsculescu Dragoş, **Păsculescu Vlad**

#### Public Funded RD&I Projects (National Programme)

**2019 – 2022:** Techniques and solutions for developing scientific and technical competences for explosion prevention and protection, Contract no. 32 N/2019, PN 19 21 02 01, “Nucleu” Programme, **Project Leader**

**2019 – 2022:** Modernization of the research infrastructure for the complete investigation of both the physical-chemical parameters of the quality of the environmental components in the field from the landfills of the household waste, as well as from the working environments in order to increase the health and safety level, Contract no. 32 N/2019, PN 19 21 01 01, “Nucleu” Programme, **Team Member**

**2019 – 2022:** Developing capacity for technical investigations of fire type events for residential and industrial environments, through computer simulations, Contract no. 32 N/2019, PN 19 21 01 02, Program NUCLEU, **Team Member**

**2019 – 2022:** Fundamental research and computer simulations on the initiation of explosive gas mixtures through potential sources of ignition of different nature, Contract no. 32 N/2019, PN 19 21 01 05, “Nucleu” Programme, **Team Member**

**2019 – 2022:** Increasing the technical and operational capacity for expertise of explosives and their techniques for industrial applications on surface and underground, Contract no. 32 N/2019, PN 19 21 01 06, “Nucleu” Programme, **Team Member**

**2019 – 2022:** Development of the practical training infrastructure for the intervention and rescue staff in toxic / explosive / flammable environments by creating a mobile training facility, Contract no. 32 N/2019, PN 19 21 02 03, “Nucleu” Programme, **Team Member**

**2018 -2020:** Fabrication, calibration, and testing of advanced integrated sensor systems aiming at

applications in peoples' security (TESTES) - Project Code: PN-III-P1-1.2-PCCDI-2017-0172, **Team Member**

**2017 - 2018:** Computational method for assessing the hazardous area extent in case of gas leak explosions in confined spaces (COMALEX) - Project code: PN-III-P2-2.1-PED-2016- 0089, Contract No. 200 PED / 2017, PNCDI III Programme 2 – Increasing Romanian economic competitiveness through RDI, Sub-programme 2.1. Competitiveness through RDI, Funding instrument: Experimental demonstrative project (PED), **Project Leader**

**2017 - 2020:** Integrated system for fast intervention in case of CBRNE incidents, Project code: PN-III-P2-2.1- SOL-2017-07-0086, PNCDI III Programme 2 – Increasing Romanian economic competitiveness through RDI, Sub-programme 2.1. Competitiveness through RDI, Funding instrument: Solutions (SOL), **Team Member**

**2017 - 2018:** Experimental validation of the response of a full scale frame building subjected to blast load – FRAMEBLAST, Project code: PN-III-P2-2.1-PED-2016-0962, Contract no. 39 PED / 2017, PNCDI III Programme 2 – Increasing Romanian economic competitiveness through RDI, Sub-programme 2.1. Competitiveness through RDI, Funding instrument: Experimental demonstrative project (PED), **Team Member**

**2018:** Developing the institutional capacity for performing technical investigations of explosion/fire type events, Contract 22 N / 16.03.2018, PN 18 17 01 01, "Nucleu" Programme, **Team Member**

**2018:** Research for developing the assessment, testing capacity for technical equipment and personal protective equipment used in areas with explosion hazard, Contract 22 N / 16.03.2018, PN 18 17 02 01, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Advanced tools for computational simulation of impact resistance of explosion-proof electrical equipment, PN 16 43 03 06, "Nucleu" Programme, **Project Leader**

**2016 - 2017:** Assessing the occupational exposure of workers to inhalable wood powders and establishing the granulometric dispersion of particles from the work environment, PN 16 43 01 06, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Expanding the field of competence of the environmental laboratory by determination of carbon monoxide from the environment (immissions), PN 16 43 01 16, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Research on the dispersion of pollutants in water by using specialized software for estimating the dynamics of the pollution phenomenon, PN 16 43 01 15, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Research on the catalytic role of microelements for coal oxidation, as active cores, by formation of complex combinations – oxygen transports, in order to identify new solutions for preventing / fighting against the spontaneous combustions phenomenon, PN 16 43 02 02, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Methodology for 3D analysis of potentially explosive atmospheres which interact with industrial ventilation systems, PN 16 43 02 04, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Improving industrial ventilation systems from enclosures susceptible to the occurrence of explosive and/or toxic atmospheres, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Calibration of computational simulations of gas explosions using the Schlieren effect, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Research on the influence of pyrosulphates in the occurrence of explosion or fire type phenomena, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Research on performing computational simulations of fires using HPC (High Performance Computing) systems, PN 16 43 03 03, "Nucleu" Programme, **Team Member**

**2016 - 2017:** Research on the burning behaviour of flammable substances involved in fire/explosion type events, PN 16 43 03 07, "Nucleu" Programme, **Team Member**

**2016:** Method for establishing critical ventilation constructions within a complex ventilation network, **Team Member**

**2016:** Method for determining the air flow in industrial ventilation installations, PN 16 43 02 12, "Nucleu" Programme, **Team Member**

**2015:** Computational modelling of fires using small scale geometries, in order to establish the influence upon the output parameters, PN 07 45 03 27, "Nucleu" Programme, **Team Member**

**2015:** Programming and using subroutines for moving mesh networks in computational fluid dynamics, PN 07 45 03 25, "Nucleu" Programme, **Team Member**

**2015:** Research on the minimum ignition temperature of flammable dust clouds in order to increase

the protection to explosion level in the industry, PN 07 45 03 24, "Nucleu" Programme, **Team Member**

**2015:** Research on the behaviour of the flame front and pressure wave in case of air-gas explosions in the shock tub, PN 07 45 03 23, "Nucleu" Programme, **Team Member**

**2015:** Expert system for selecting electrical equipment intended to be used in explosive gas atmospheres, PN 07 45 02 65, "Nucleu" Programme, **Project Leader**

**2015:** Upgrading the training facility for rescuers in order to test rescue and intervention staff in high temperature and humidity conditions, PN 07 45 02 63, "Nucleu" Programme, **Team Member**

**2015:** Research on using natural and cheap materials (zeolites from volcanic tuffs) for reducing the pollution level of mine water charged with toxic metallic pollutants, PN 07 45 02 58, "Nucleu" Programme, **Team Member**

**2015:** Developing the practical training infrastructure of rescue and intervention staff in toxic/explosive/flammable atmospheres by developing a training facility in confined spaces, PN 07 45 02 56, "Nucleu" Programme, **Team Member**

**2015:** Innovative technology for testing coal self-ignition parameters, PN 07 45 02 53, "Nucleu" Programme, **Team Member**

**2015:** Method for establishing the standard deviation within a complex ventilation network, PN 07 45 02 52, "Nucleu" Programme, **Team Member**

**2015:** Research on harmonizing the procedures and regulations for first aid in case of rescue and intervention in toxic / explosive / flammable atmospheres with the European ones, PN 07 45 02 51, "Nucleu" Programme, **Team Member**

**2015:** Innovative technology for determining gas flows circulated in pipes, PN 07 45 01 43, "Nucleu" Programme, **Team Member**

**2015:** Implementation of technologies harmonized with reference methods in order to determine gas immisions from adjacent protected areas, PN 07 45 01 38, "Nucleu" Programme, **Team Member**

**2015:** Establishing the influence of the natural draft upon the reparation of air flows within the ventilation network, PN 07 45 01 37, "Nucleu" Programme, **Team Member**

**2015:** Expanding the laboratory's field of competence by testing dispersion maps of atmospheric pollutants, "Nucleu" Programme, **Team Member**

**2015:** Developing the environmental protection laboratory by acquiring an advanced measurement and analysis of SO<sub>2</sub> system, PN 07 45 01 34, "Nucleu" Programme, **Team Member**

**2014:** Optimization of computerised simulation of air-methane mixtures explosions using ANSYS CFX and FLUENT, PN 07 45 02 46, "Nucleu" Programme, **Team Member**

**2014:** Supplementing the database with explosivity parameters obtained after the upgrade of the "shock-tube" test stand for gaseous explosive mixtures, PN 07 45 03 21, "Nucleu" Programme, **Team Member**

**2014:** Optimization of activities for investigating events generated by explosions by developing procedural instruments, PN 07 45 03 19, "Nucleu" Programme, **Team Member**

**2014:** Method for establishing the changes of the underground work environment after the occurrence of an explosion aiming the protection of workers, PN 07 45 02 45, "Nucleu" Programme, **Team Member**

**2014:** Expanding the competence field of the toxicology laboratory concerning the determination of electromagnetic radiations in workplaces, PN 07 45 01 29, "Nucleu" Programme, **Team Member**

**2013 – 2014:** Expanding the field of competence of the environmental laboratory concerning volatile organic compounds from emissions, PN 07 45 02 34, "Nucleu" Programme, **Team Member**

**2013 – 2014:** Using CFD (Computational Fluid Dynamics) for precise classification of hazardous Ex areas generated by flammable gases, PN 07 45 02 42, "Nucleu" Programme, **Project Leader**

**2013 – 2014:** Numerical modelling of mining ventilation networks using CFD analysis by ANSYS Multiphysics software, PN 07 45 02 35, "Nucleu" Programme, **Team Member**

**2013 – 2014:** Developing the capacity for testing solid fuels by using the calorimetric method, PN 07 45 02 37, "Nucleu" Programme, **Team Member**

**2013:** Software for calculating operational parameters related to mining ventilation fans and for drawing up their characteristic curves, PN 07 45 02 44, "Nucleu" Programme, **Team Member**

**2012:** Research on the identification of new fire indexes to be used when applying the nitrogen inertisation technology, PN 07 45 02 32, "Nucleu" Programme, **Team Member**

**2012:** Computerised simulation of air-flammable gas explosions occurred in confined spaces, PN 07



45 02 25, "Nucleu" Programme, **Team Member**

Private Funded RD&I Projects  
(National Companies)

**2018:** Technical investigation report on the event occurred on 16.01.2017 at building no. 37, Scarisoara street, Micesti (Alba Iulia municipality), Alba county, **Team Member**

**2017:** Technical investigation report on the event occurred on 21.01.2017 at Bamboo Club in Bucharest, str. Tuzla, no. 50, sector 2, **Team Member**

**2016:** Technical investigation report on the event occurred on 22.08.2016 on the platform of Petromidia Refinery belonging to S.C. ROMPETROL RAFINĂRIE S.A., at the Void Distillation Installation (DAV), **Co-opted staff**

**2015:** Technical investigation report on the event occurred on 30.10.2015 at Colectiv Nightclub located in Bucharest, str. Tăbăcarilor, no. 15, sector 4, **Team Member**

**2015:** Technical investigation report on the event occurred on 11 / 12.01.2015 in the apartment from Rovinari, str. AL. Parcului bl. H 6, sc. 1, ap. 7, Gorj County, **Team Member**

**2013:** Evaluation and verification of ventilation installations from S.C. ELECTROLUX ROMÂNIA S.A. concerning the compliance with Normative NVIV-01-06, contract nr. 6387/2013, **Team Member**

**2013:** Evaluation and verification of ventilation installations from S.C. ROMINSEV S.R.L. – Petromidia concerning the compliance with Normative NVIV-01-06, contract 6340/2013, **Team Member**

**2012 – 2013:** Evaluation and verification of ventilation installations from ARCELOR MITTAL S.A., în conformitate cu NVIV-01-06, Phase III – 2013 "Evaluation and verification of ventilation installations from Dep. DPDES, Dep. DMC", contract no. 6212 /2012-2013, **Team Member**

**2013:** Evaluation and verification of ventilation installations from S.C. ROMPETROL RAFINARE S.A. – RAFINĂRIA VEGA PLOIEȘTI concerning the compliance with Normative NVIV-01-06, contract no. 6311/2013, **Team Member**

**2012 – 2013:** Evaluation and verification of ventilation installations from S.C. ARCELOR MITTAL TUBULAR PRODUCTS ROMAN S.A. – FOSFATARE FMT concerning the compliance with Normative NVIV-01-06, contract no. 6218/2012-2013, **Team Member**

**2012:** Evaluation and verification of ventilation installations from ANTIBIOTICE S.A. concerning the compliance with Normative NVIV-01-06, contract no. 6253/2012, **Team Member**

**2012:** Evaluation and verification of ventilation installations from S.C. WEATHERFORD ATLAS.S.A.PLOIEȘTI concerning the compliance with Normative NVIV-01-06 contract no. 6239/2012, **Team Member**

**2012 – 2013:** Evaluation and verification of ventilation installations from ARCELOR MITTAL SA, concerning the compliance with Normative NVIV-01-06, Phase I – 2012 "Evaluation and verification of ventilation installations from Dep. Furnacers, Dep. Agglomeration and raw materials, Dep. Thick board, Dep. Steel, Dep. Exchange parts", contract no. 6212/2012-2013, **Team Member**

**2012:** Evaluation and verification of ventilation installations from ROMPETROL GAS S.R.L., Work points: Năvodari-Constanța, Vladimirescu-Arad și Dumbrava-Bacău, concerning the compliance with Normative NVIV-01-06, contract no.6193/2012, **Team Member**

**2012:** Evaluation and verification of ventilation installations from the DeSmet extraction section belonging to S.C. ARDEALUL S.A. Carei, concerning the compliance with Normative NVIV-01-06contract no. 6179/2012, **Team Member**

**2012:** Evaluation and verification of ventilation installations from S.C. CRIMBO SAV GAS S.R.L., Onești, concerning the compliance with Normative NVIV-01-06, contract.no. 6075/2012, **Team Member**

**2012:** Evaluation and verification of ventilation installations from SINDAN PHARMA concerning the compliance with Normative NVIV-01-06, contract no. 5982 / 2012, **Team Member**

**2011:** Technical investigation report on the event occurred on 05.02.2011 at Uricani Mining Unit, **Co-opted member**