







## PERSONAL INFORMATION Ioan SZAVA

-  University Transilvania of Brasov
-  (00) 40 268 418992  (00) 40 722 643020
-  [apukam27@gmail.com](mailto:apukam27@gmail.com); [apupeter@yahoo.com](mailto:apupeter@yahoo.com)
-  State personal website(s)
-  Replace with type of IM service Replace with messaging account(s)
- Sex Male | Date of birth 21/01/1949 | Nationality Romanian

## POSITION WITHIN THE PROJECT

Researcher and tester in the field of mechanics

## WORK EXPERIENCE

[Add separate entries for each experience. Start from the most recent.]

2000-present

**Professor**

Transilvania University of Brasov, 29 Eroilor Av., 500036, Brasov, Romania

- Academic activities: Mechanics, Vibrations, Stability, Dynamics, Composite materials, Computational Mechanics;
- Research activities: Dynamical Systems, Dynamics of the Multibody Systems, Composite materials mechanics;
- Management activities: students tutoring, undergraduate diploma/master dissertation papers advising, monitoring and coordinating.

**Business or sector** Academic

1975-2000

**Assistant Professor, Associate Professor**

Transilvania University of Brasov, 29 Eroilor Av., 500036, Brasov, Romania

- Academic activities: Mechanics, Vibrations, Stability, Dynamics, Composite materials, Experimental Mechanics;
- Research activities: Dynamical Systems, Dynamics of the Multibody Systems, Composite materials mechanics;
- Management activities: students tutoring, undergraduate diploma/master dissertation papers advising, monitoring and coordinating.

**Business or sector** Academic

1972-1975

**Engineer, Research engineer**

Research Institute for Automotive Engineering Braşov

- Research activities: Dynamical Systems, Dynamics of the Multibody Systems, Composite materials mechanics;
- Industrial activities

**Business or sector** Industry, research

## EDUCATION AND TRAINING

[Add separate entries for each course. Start from the most recent.]

1981-1991

**Ph.D.**

"Transilvania" University of Brasov, Romania

Replace with EQF  
(or other) level if  
relevant

Contributions to the elastodynamic analysis of the mechanisms using *FEM*. Ph.D. father: prof. Bobescu Gheorghe

1967-1972

Engineer

Replace with EQF (or other) level if relevant

Licence+master diploma in engineering/ specialization: Mechanical Engineering/Automotive Engineering

Mechanical engineering, automotive engineering, computer aided design, manufacturing technologies, vibrations, modelling and simulation of mechanical devices.

PERSONAL SKILLS

Mother tongue(s)	Romanian				
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Proficient user	Independent user	Proficient user	Independent user	Independent user
Replace with name of language certificate. Enter level if known.					
Franch	Proficient user	Proficient user	Proficient	Proficient user	Independent user
Replace with name of language certificate. Enter level if known.					

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

**Communication skills** Team spirit and good communication skills acquired through experience as manager or member of more as 50 research projects (manager – 15 research grants).  
 Communication skills and competences concerning the knowledge transmission and continuing education gained through experience in the teaching activities within the “Transilvania” University of Brasov, since 1980.

**Organisational / managerial skills** Finite Element Method for the use to the dynamic analysis of Multibody Systems.  
 Experimental characterization/identification/evaluation of the behaviour/(mechanical, thermal, electrical) properties/aging of mechanical structures and advanced materials  
 Optical methods for advanced materials characterization (stress/strain states evaluation; mechanical properties identification based laser ultrasonic; surface parameter identification) – set-up, monitoring, use and tailoring  
 Mechanical and dynamic mechanical methods for advanced/multi-layered polymer based composite materials characterization

**Job-related skills** Composite materials (particle/fibre) manufacturing based on self-developed/known technologies  
▪ Industrial abilities in mechanical and automotive engineering

**Digital competence**

**SELF-ASSESSMENT**

Information processing

Communication

Content creation

Safety

Problem solving

Proficient

Proficient

Proficient

Independent user

Proficient

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

Replace with name of ICT-certificate(s)

Replace with your other computer skills. Specify in what context they were acquired.

- good command of office suite (word processor, spread sheet, presentation software)
- good command of photo editing software gained as an amateur photographer

Programming in Matlab, MathCAD);

Linear and non-linear multi-scale material modelling;

Structural analysis and simulation in FEM based environments;

Statistical data processing;

**Other skills**

**Driving licence** Replace with driving licence category/-ies.  
B & C

**ADDITIONAL INFORMATION**

Publications In Annexes  
Presentations  
Projects  
Conferences  
Seminars  
Fellowship

**ANNEXES** Selected scientific papers/books/chapters in international books

**Books**

**I.Száva**, I.Curtu, V.Ciofoaia.

*Experimental methods in Mechanical structures' dynamics (Metode Experimentale în dinamica structurilor mecanice) in Romanian*, 2 volumes, Transilvania University Press, 2000 and 2001, Cod ISBN : 973-9474-40

**I.Száva**

*Laboratory working plans* (offered to listeners at the beginning of the lectures)

**I.Száva.**

*Strength of Materials (Rezistența Materialelor) in Romanian*, Transilvania University Press, 1999, Cod ISBN : 973-9474-03-9

**I.Száva**, I.Curtu, V.Ciofoaia.

*Mechanical Vibrations (Vibrații mecanice) in Romanian*, Transilvania University Press, 2007, Cod ISBN: 978-973-598-119-8

Eva Kormanikova, Michal Sejnoha, **Ioan Száva**, Kamila Kotrasova, Florin Dogaru, Alena Sicakova, Richard Valenta, „**Selected Chapters of Mechanics of Composite Materials I**”, *Chapter IV: Ioan Száva, Experimental methods applied on composite materials*, pp.145-188. Publisher: Tehnical University of Kosice, 2011, Print: EQUILIBRIA, Kosice, Slovakia, AQ 17,25 , ISBN 978-80-89284-86-3; EAN 9788089284863

#### Papers published in speciality journals

A.Kakucs, P. Dani, K. Jármaj, I. Száva, B. Gálfi, *Kísérleti berendezés felhabzó tűzvédelmi bevonatok tanulmányozására. Géptervezők és Termékfejlesztők XXV. Szemináriuma 2009. november 5 – 6, MAB, Miskolc, Hungary, Revista GÉP, Vol. LX, No. 10-11. pp. 51-54. ISSN 0016-8572; Lucrările celui de al XXV-lea Seminar al Proiectanților de mașini, 5-6 Noiembrie, 2009, organizată de Comitetul Academic din Miskolc, Ungaria. In: revista GÉP, Budapest, ISSN: 0016-8572, Vol. LX, No. 10-11. pp 51-54.*

M.Procop, B. Gálfi, I. Száva, C.I. Roșca, V. Ciofoaia, S.C. Popa, R. Tutunea, *Experimental Results on Elastic Behaviours of Coupling Systems' Components, 14<sup>th</sup> International Conference „Theoretical and Experimental problems of materials Engineering-Progress in Materials Engineering”-PIME 2009, 24-27 August, 2009, VSB- Technical University of Ostrava, Ostravice, Czech Republic, Transaction of the VSB, Technical University of Ostrava, Metallurgical Series, Nr. 3/2009, ISBN: 978-80-248-2039-2, ISSN: 0474-8484, pp.185-190.*

J. Farkas, I. Száva, *Minimum cost design of a compressed column of welded square box cross-section. The 17<sup>th</sup> International Conference on mechanical Engineering, OGÉT-2009, Gheorgheni, 23-26 Aprilie, 2009, In: Technical Review of The Hungarian Technical Scientific Society of Transilvania, Revistă acreditată CNCSIS, ISSN: 1454-0746, pp. 101-105.*

K. Jármaj, I. Száva, *Fire Safety of Steel Structures: Thermal Effects and Mechanical Behaviors, The 17<sup>th</sup> International Conference on mechanical Engineering, OGÉT-2009, Gheorgheni, 23-26 Aprilie, 2009, In: Technical Review of The Hungarian Technical Scientific Society of Transilvania, Revistă acreditată CNCSIS, ISSN: 1454-0746, pp. 174-178.*

I. Száva, A. Kakucs, K. Jármaj, J. Farkas, P. Dani, B. Varga, B., Gálfi, *Experimental results of Intumescent Coatings, The 17<sup>th</sup> International Conference on mechanical Engineering, OGÉT-2009, Gheorgheni, 23-26 Aprilie, 2009, In: Technical Review of The Hungarian Technical Scientific Society of Transilvania, Revistă acreditată CNCSIS, ISSN: 1454-0746, pp. 351-354.*

I. Száva, A. Kakucs, K. Jármaj, P. Dani, B. Varga, B. Gálfi, *Numerical approach and preliminary experimental results of intumescent paints' behaviors at medium temperatures, Metalurgia International Vol. XIV (2009), ISI-cited journal, Special issue No. 2. pp. 83-86. ISSN 1582-2214*

B. Varga, P. Dani, A. Kakucs, I. Száva, K. Jármaj, B. Gálfi, *Intumescent paint fire protected steel structures elements' internal stress state experimental approach, using dilatometer, Metalurgia International Vol. XIV (2009), ISI-cited journal, Special issue No. 2. pp. 87-90. ISSN 1582-2214.*

H. Hoța, Ș. Bobancu, A. Neagu, B. Gálfi, I. Száva, *Testing device for the rolling friction coefficient evaluation, Surface Engineering INPO 2008, Czestochowa University, Wisla-Jawornik, Poland, 2-5 Dec., 2008, Published in „Inzineria Materialowa” PL ISSN: 0208-6247, INDEKS 36156, XXIX Year, nr. 6 (2008), pag. 1047-1049.*

I. Száva, P. Dani, B. Gálfi, A. Kakucs, P. Sárosi, K. Harangus, *A Moiré-sávok elvének alkalmazása roncsolásmentes vizsgálatokra (Utilizarea metodei Franjelor Moiré la control nedistructiv). Revista Anyagvizsgálók Lapja, Budapest, Hungary, nr. 3 din 2007, pag. 118-120, HU ISSN 1787-5072*

V. Constantin , I.Száva, P.Dani, Cr.Fragassa, *Un banco fai-da-te per la Prova a Temperatura Degli Acciai, Revista Lamiera, nr.8, Augusto, 2006, Italy, Code ISSN: 0391-5891, pp.49-52.*

I.Száva, Th.Szirtes, P. Dani, *An Application of Dimensional Model Theory in the Determination of the Deformation of a structure, Published in: Engineering Mechanics, International Journal for Theoretical and Applied Mechanics, Engineering Academy of the Czech Republic on behalf of the Association of Engineering Mechanics, 2006, Volume 13, No. 1, ISSN 1210-2717, pp. 31-39.*

#### Papers published in Proceedings of the speciality conferences

B. Gálfi, R. Necula, I. Șamotă, I. Száva, A. Kakucs, H. Hoța, *A Generalized Electric Strain Gage-Based Evaluation of The Long Human Bones Fixators' Stiffness, Acta Technica Napocensis, Tehnical University of*

**Cluj-Napoca, Series: Applied Mathematics and Mechanics, 2010, Nr. 53, Vol. II, pag. 359-362. ISSN 1221-5872,**

H. Hoța, Ș. Bobancu, B. Gálfi, I. Száva, *An Efficient Stand And Some Preliminary Results On The Rolling Friction Coefficient Evaluation of The Steel-Steel Elements*, **Acta Technica Napocensis, Tehnical University of Cluj-Napoca, Series: Applied Mathematics and Mechanics, 2010, Nr. 53, Vol. II, pag. 253-256. ISSN 1221-5872**

I. Șamotă, R. Necula, I. Száva, *A Proposal of Extension of Flexible Intermedullary Fixation in Comminuted Shaft Fractures. Biomechanical Consideration and Clinical Results*, **Proceed. of The 8<sup>th</sup> Central European Orthopaedic Congress, The 8<sup>th</sup> CEOC, Univeristy of Medicine Pecs, Hungary, 16-17 June, 2010, pp.68.**

R. Necula, I. Șamotă, I. Száva, B. Gálfi, A. Burnariu, A. Kakucs, *Electro-tensometrical Study of Internal Fixation with Plate, In Stabile Versus Instabile Shaft Fractures*, **Proceed. of The 8<sup>th</sup> Central European Orthopaedic Congress, The 8<sup>th</sup> CEOC, Univeristy of Medicine Pecs, Hungary, 16-17 June, 2010, pp.69.**

R. Necula, I. Șamotă, I. Száva, B. Gálfi, A. Burnariu, A. Kakucs, *Micro-movement Evaluation in Flexible Versus Rigid Internal Fixation in Unstable Shaft Fractures by Video Image Correlation*, **Proceed. of The 8<sup>th</sup> Central European Orthopaedic Congress, The 8<sup>th</sup> CEOC, Univeristy of Medicine Pecs, Hungary, 16-17 June, 2010, pp.70.**

V. Enache, Fl. Dogaru, I. Száva, B. Varga, *Some Results Concerning On The Mechanical Properties Evaluation Of The Cylinder-Head Gasket Materials*, **Proceedings of The 11<sup>th</sup> International Congress on Automotive and Transport Engineering, CONAT 2010, Proceedings, Volume VI, Heavy and Special Vehicles, pp.271-274. ISSN 2069-0401.**

I. Száva, Fl. Dogaru, B. Varga, V. Enache, R. Tutunea, *Numerical Modelling of The Cylinder-Head Gasket's Displacement Field, Based on Experimental data*, **Proceedings of the 3<sup>rd</sup> International Conference „Advanced Composite Materials Engineering” COMAT 2010, 27-29 October 2010, Transilvania University of Brașov, Volume 2, pp.133-136. ISSN 1844-9336**

P. Dani, A. Kakucs, K. Jarmai, B. Gálfi, J. Farkas, S. Dinu, I. Száva, *Comparative Behaviours Analysis of The Intumescent Paints Influence on Structural Elements' Load-Bearing Capacity*, **Proceedings of the 3<sup>rd</sup> International Conference „Advanced Composite Materials Engineering” COMAT 2010, 27-29 October 2010, Transilvania University of Brașov, Volume 3, pp. 53-58, ISSN 1844-9336**

B. Gálfi, R. Necula, I. Șamotă, I. Száva, A. Kakucs, *High-Efficiency, Electric Strain-Gauge Stand Destined to Compare Different Human Bones' Fixator Systems*, **Proceedings of the 3<sup>rd</sup> International Conference „Advanced Composite Materials Engineering” COMAT 2010, 27-29 October 2010, Transilvania University of Brașov, Volume 3, pp. 72-75, ISSN 1844-9336**

B. Gálfi, I. Száva, L. Borbás, J. Szalai, K. Harangus, *Stand and Preliminary Testing Results On Disc-Shape Hardwood Specimens Obtained With Video Image Correlation Method*, **Proceedings of the 9<sup>th</sup> Youth Symposium on Experimental Solid Mechanics, Trieste, July 7-10, ISBN 978-88-95940-30-4, pp. 9-12**

P. Dani, A. Kakucs, K. Jarmai, I. Száva, J. Farkas, B. Gálfi, *Comparative Stiffness Analysis of Covered and Uncovered Structural Elements with Intumescent Paints at High Temperature*, **Proceedings of the XXIV. MicroCAD International Scientific Conference, Miskolc University, Hungary, 18-20 March, 2010, Section F “Fluid and Heat Engineering”, pp.7-12, ISBN: 978-963-661-925-1.Ö; 978-963-661-910-7**

K. Jarmai, J. Farkas, I. Száva, *Optimum Design and Measurements of Steel Structures for Fire Safety*, **Proceedings of the 3<sup>rd</sup> International Conference on Multidisciplinary Design Optimization and Applications, Organized by ASMDO (Association for Simulation and Multidisciplinary Design Optimization), 21-23 June, 2010, Paris, France, pp.1-12. web site: [www.asmdo.com/conference2010/](http://www.asmdo.com/conference2010/) Paper Id-28**

B. Gálfi, I. Száva, A. Kakucs, K. Harangus, *Experimental Investigation Combined with Analytical Calculus for Orthotropic Materials' Mechanical Behaviors Evaluation*, **Ovidius University Annuals, Scientific Journal, Mechanical Engineering Series, Vol. XII, TOM 1, 2010, Ovidius University Press, ISSN 1224-1776, pp.187-190.**

H. Hota, S. Bobancu, I. Száva, *Experimental Investigation of the Rolling Friction Coefficient Evaluation*, **Ovidius University Annuals, Scientific Journal, Mechanical Engineering Series, Vol. XII, TOM 1, 2010, Ovidius University Press, ISSN 1224-1776, pp.199-202.**

B. Gálfi, I. Száva, A. Kakucs, K. Harangus, *A New Analytical Approach of The Annual Rings' Contribution on The Hardwood Elements Loading Capacity*, **Proceedings of Abstracts of The 6<sup>th</sup> International**

Symposium "Wood Structure and Properties'10", Technical university in Zvolen, Slovakia, 6-9 September, 2010, Podbanske, High Tatras, Arbore Publishers, Zvolen, Slovakia, 2010, ISBN 978-80-228-2145-2, pp.8. Web site of the Conference [www.tuzvo.sk/wsp\\_2010](http://www.tuzvo.sk/wsp_2010)

B. Gálfi, I. Száva, L. Borbás, J. Szalai, A. Kakucs, *Investigation on The Displacement Fields of The Disc-Shape Hardwood Specimens Using Video Image Correlation Method*, **Proceedings of Abstracts of The 6th International Symposium "Wood Structure and Properties'10"**, Technical university in Zvolen, Slovakia, 6-9 September, 2010, Podbanske, High Tatras, Arbore Publishers, Zvolen, Slovakia, 2010, ISBN 978-80-228-2145-2, pp.16. Web site of the Conference [www.tuzvo.sk/wsp\\_2010](http://www.tuzvo.sk/wsp_2010)

B. Gálfi, R. Necula, I. Samota, A. Burnariu, I. Száva, *Analiza starii de tensiune la nivelul fracturilor oaselor umane lungi cu ajutorul Polariscopului portabil*, **Revista de Ortopedie si Traumatologie (Journal of Orthopaedic Trauma)**, Cod ISSN: 1220-6466; Cod CNCSIS: 217, Volumul 20, nr.1, pag.25.

I. Samota, R. Necula, I. Száva, *Propunere de extindere a fixarii endomedulare in fracturile diafizare cominutive. Consideratii biomecanice si rezultate clinice*, **Revista de Ortopedie si Traumatologie (Journal of Orthopaedic Trauma)**, Cod ISSN: 1220-6466; Cod CNCSIS: 217, Volumul 20, nr.1, pag.227-28.

R. Necula, I. Samota, I. Száva, B. Gálfi, C. Butum, A. Burnariu, *Fixarea elastica versus fixarea rigida in fracturile diafizare instabile. Studiu electrotensometric*, **Revista de Ortopedie si Traumatologie (Journal of Orthopaedic Trauma)**, Cod ISSN: 1220-6466; Cod CNCSIS: 217, Volumul 20, nr.1, pag.28-29.

R. Necula, I. Samota, I. Száva, B. Gálfi, Fl. Sabau, *Studiul experimental prin Video Image Correlation asupra deformatiilor specifice in fixarea interna elastica versus rigida*, **Revista de Ortopedie si Traumatologie (Journal of Orthopaedic Trauma)**, Cod ISSN: 1220-6466; Cod CNCSIS: 217, Volumul 20, nr.1, pag.29-30.

I. Száva, B. Gálfi, D. Száva, S. Vlase, E. Secară, P. Orbán, *Comparative Evaluation of Some Modern Dental Filling Materials' Mechanical Characteristics*, **The 4<sup>th</sup> International Conference of Computational Mechanics and Virtual Engineering, COMEC 2011**, Transilvania University of Brasov, 20-22 October, 2011, Volume of Conference, Lux Libris Publishing House, ISBN-978-973-131-122-7, pp.561-566,

B. Gálfi, I. Száva, S. Vlase, P. Orbán, *A New Approach In Mechanical Characteristics' Establishing of The Softwoods*, **The 4<sup>th</sup> International Conference of Computational Mechanics and Virtual Engineering, COMEC 2011**, Transilvania University of Brasov, 20-22 October, 2011, Volume of Conference, Lux Libris Publishing House, ISBN-978-973-131-122-7, pp.567-571,

L. Borbás, I. Száva, B. Gálfi, A. Kakucs, *A New Approach In The Poisson Ratios Establishing Of The Soft-Wood Materials Components*, **The 28<sup>th</sup> Danubia-Adria Symposium on Advances in Experimental Mechanics**, 28<sup>th</sup> Sept.- 1<sup>st</sup> Oct., 2011, Siófok, Hungary, Volume of Abstracts Symposium, ISBN 978-963-9058-32-3, pp. 269-270

B. Gálfi, I. Száva, A. Kakucs, V. Ciofoaia, P. Orbán, *Theoretical and experimental investigations on early-, and late-wood mechanical characteristics establishing* **International Conference Wood Science and Engineering in the Third Millennium – ICWSE 2011**, Transilvania University of Brasov, 3<sup>rd</sup> – 5<sup>th</sup> November, 2011, Volume of the Conference, Edited at Transilvania University Press, ISSN 1843-2689, pp. 63-70

I. Száva, V. Enache, Fl. Dogaru, *Elastic Behaviours of the Cylinder Head Gasket Materials for Internal Combustion Engine, Chapter 28;* pp. 383-394, **The Automobile and the Environment: International Congress of Automotive and Transport Engineering CONAT 2010**, Book published in Cambridge Scholars Publishing House, U.K., ISBN (10): 1-4438-2972-2, ISBN (13): 978-1-4438-2972-4.

B. Gálfi, I. Száva, A. Kakucs, P. Orbán, *Korai,és késői pásztlák rugalmas jellemzőinek meghatározása egyszerű nyomóvizsgálat alapján lágy fafajták esetében (Early- and late-wood mechanical characteristics establishing using simply compression tests, in Hungarian)* , **The 11<sup>th</sup> Hungarian Mechanical Conference, MaMek XI., 2011**, University of Miskolc, 29-31 August, 2011, Volume of Conference, ISBN 978-963-661-975-6, pp.235-246

I. Száva, B. Gálfi, A. Kakucs, P. Orbán, *Újabb nagyérzékenységű érintésmentes módszerek a roncsolásmentes vizsgálatokhoz (New high accuracy contactless methods in NDT investigations, in Hungarian)*, **The 7<sup>th</sup> Hungarian NDT Conference and Exhibition**, 12-14 April, 2011, Eger, Volume of Conference on CD, pp.21-25, contribution G4

I. Száva, B. Gálfi, A. Kakucs, *Theoretical and Experimental Approach of the Early-, and Late-Wood Mechanical Characteristics' Evaluation*. **The XXV. MicroCAD International Scientific Conference, 31 march- 1 April, 2011, University of Miskolc, Hungary, Volume of the Conference, Section E (Applied Mechanics), ISBN: 978-963-661-958-9, pp.43-48,**

D. Száva, B. Gálfi, I. Száva, P. Orbán, *Research and Academic Exploration about Optimal Attitudes of Dental Filling Materials*, **The 10th Youth Symposium on Experimental Solid Mechanics, 25-28 May, 2011, Chemnitz University of Technology, Germany, ISBN: 978-3-941003-34-7, Proceedings of Symposium, pp. 107-108**

#### 13.4. Scientific research Projects / Contracts

Research projects/Contracts	Position	Period
1. Contract nr. 53/1985: <i>Studiul teoretic și experimental al rigidității blocului motor la familia de MAC de 185-540 CP fabricate la IABv.</i>	Co-Responsible	1985-1986
2. Contract nr. 38/1988: <i>Studiul teoretic și experimental al ansamblului bloc cilindru-capc palier-arbore cotit al motorului D-2601-050, care echipează tractoare pe roți și șenile în scopul stabilirii rigidității acestuia.</i>	Responsible	1988-1989
3. Contract nr. 76/1989: <i>Studii și soluții constructive privind echilibrarea motoarelor de 2, 3, 4 și 6 cilindri, cu alezaj 95...102 mm și cursa de 110...115 mm.</i>	Responsible	1989
4. Contract nr. 68/1991: <i>Cercetări privind rigiditatea blocului motor și influența ansamblului bloc motor-chiulasă-cămașa de cilindri asupra ruperii gulerului cămășii.</i>	Co-Responsible	1991-1992
5. Contract nr. 103/1991: <i>Cercetarea deformațiilor și rigidităților la blocurile motoarelor noi pentru autoturismele ARO în condițiile standului hidraulic de încercare statică.</i>	Co-Responsible	1991-1992
6. Contract nr. 104/1991: <i>Studiul posibilităților de optimizare constructivă a zonei lagăre paliere-capace după criteriul de rigiditate în funcționare, la motoarele de 12 cilindri în V pentru autocamioane.</i>	Co-Responsible	1991-1992
7. Contract nr. 111/1991: <i>Studiul teoretic și experimental al rigidității reazemelor paliere ale motoarelor de autovehicule și tractoare</i>	Co-Responsible	1991-1992
8. Contract nr. 52/1992: <i>Studiul influenței deformațiilor în sarcină asupra deteriorării cuzineților palier și de bielă la motoarele de 8 cilindri în V pentru autocamioane.</i>	Responsible	1992-1993
9. Contract nr. 5005/37: <i>Studiul teoretic și experimental al rigidității blocurilor motoarelor de autovehicule și tractoare.</i>	Responsible	1994-1995
10. Contract CNCSIS, nr.33459 din 2002, tip A, tema nr.16, cod CNCSIS 632: <i>Influența câmpului termic asupra rezistenței structurilor metalice.</i>	Responsible	2002-2003
11. Contract CNCSIS, nr.618/14.03.2005, cod CNCSIS 1098: <i>Rezistența structurilor metalice prevăzute cu straturi termoprotectoare.</i>	Responsible	2005
12. Contract CNCSIS, nr.A1/GR106/19.05.2006, cod CNCSIS 1098: <i>Rezistența structurilor metalice prevăzute cu straturi termoprotectoare.</i>	Responsible	2006-2008
13. Contract de finanțare nr. 735 / 2009, PN-II-ID-PCE, Proiecte de cercetare exploratorie tip IDEI, Cod UEFISCSU: ID-854: <i>Modelarea numerică și analiză experimentală a influenței acoperirilor termoprotectoare asupra creșterii rezistenței joncțiunilor din structurile metalice în cazul unor incendii</i>	Responsible	2009
14. Contract bilateral România-Ungaria pe 2 ani (2009-2010) RO-06/2007, RO ID 24, Proiect PN II, tip CAPACITĂȚI, Modul III, Cod ANCS 87/22.08.2008: <i>Proiectarea optimă a structurilor metalice din punctul de vedere al rezistenței la incendii</i>	Responsible	2009-2010

#### Member within professional / scientific associations

- Romanian Society of Tensometry (ARTENS), identity card nr. 108/1991;

- Romanian Society of Automotive Engineers (SIAR), identity card nr. 444/1991;
- Romanian Society of CAD (SIAC), identity card nr.555/1994;
- Founding member of Romanian Society of Theoretical and Applied Mechanics (SRMTA), identity card nr. 0013, Serie A;
- Founding member of "Neumark" University Association

**Other competences (coordination of specializations, laboratories)**

I am responsible / answerable for the *Experimental methods* laborator

**Others mentions**

I was involved, as co-organizer, of 3-years Summer School (2011-2013) in Composite materials: 2011-Kosice, Slovak Republic; 2012-Prague, Czech Republic, respectively at Transilvania University of Brasov (2013).