

PERSONAL INFORMATION

Emanoil LINUL

STUDIES APPLIED FOR

Engineering and Technology, Visiting Professor

OBJECTIVE

- Obtaining a meaningful and challenging position in the vibration-based and acoustic-based techniques in detecting the presence of defects (cracks, delamination, notches) in steel, composite and cellular materials;
- Within these topics, short courses and seminars on monitoring the structural behaviour, on detecting cracks, delamination or defects in different materials will be offered to graduate students and Ph.D. students in Civil, Mechanical and Industrial Engineering.

February 2012 – Present

Assistant Professor, Dr. Eng.

Politehnica University of Timișoara, Faculty of Mechanical Engineering, Department of Mechanics and Strength of Materials, Timișoara, Romania, www.mec.upt.ro/rezi/

- Didactic Activities (courses, seminars, laboratories and projects): Strength of Materials and Fundamentals of Mechanical Engineering;
- Bachelor and Master Supervisor;
- Participation in Conferences Organization;
- Member of various Committees of the Department;
- Research on Numerical and Experimental Determination of Fracture Mechanics Parameters and Mechanical Behaviour of Cellular Materials.

Business or sector Higher Education System / National Institution

November 2011 – Present

Research Assistant in National Grant “Micro-mechanical modelling of cellular materials with refinements on fracture and damage”, contract number 172/2011

Politehnica University of Timișoara, Faculty of Mechanical Engineering, Department of Mechanics and Strength of Materials, Timișoara, Romania, www.mec.upt.ro/rezi/

- Strength and Fatigue Study of the Cellular Materials;
- Determination of Fracture Mechanics Parameters;
- Static and Dynamic Tests for a Mechanical Characterization of Rigid Polyurethane Foams;
- Analytical and Numerical Modelling of the Behaviour of Rigid Polyurethane Foams.

Business or sector Higher Education System / National Institution

May 2014 – November 2015

Postdoctoral Researcher in National Grant “Increasing the structural performance of materials used in wind turbine blades construction”, contract number 6529/2014

Politehnica University of Timișoara, Faculty of Mechanical Engineering, Department of Mechanics and Strength of Materials, Timișoara, Romania, www.mec.upt.ro/rezi/

- Identification of causes and failure mechanisms in structural components of wind turbine blades;
- Assessment of failure modes in composites sandwich materials with cellular material core;
- Static and dynamic tests on core and faces of wind turbine blades;
- Determination of the fatigue strength for the core and faces material of the turbine blade;
- Fracture toughness, crack propagation and energy absorption studies;
- Micro and macro structural analysis in order to highlight degradation.

Business or sector Higher Education System / National Institution

WORK EXPERIENCE

EDUCATION AND TRAINING

September 2015

Graduation Certificate of “The 14th Polish-Ukrainian-German Summer School of Fracture Mechanics «Damage and integrity of structures»”

EQF level 8

Temopil Ivan Pul'uj National Technical University (TNTU), Mechanical Engineering Faculty, Temopil, Ukraine, [www.http://tntu.edu.ua/](http://tntu.edu.ua/)

Have been studied the following aspects:

- Basic approaches of fracture mechanics;
- Basic concepts and mechanisms of fatigue;
- Semi non-destructive material characterization for ageing monitoring of operating components;
- The main regularities and methods of evaluation of dissipated damaging in steels, caused by its long-term service;
- Application of fracture mechanics methodology to the structural integrity assessment of some industrial objects;
- Design, manufacturing, modelling, monitoring and testing of high-pressure composite vessels for hydrogen storage.

May 2014

Graduation Certificate of the specialized course “Analysis and Design Optimization of Laminated Composite Structures”

EQF level 8

Aalborg University, The Faculty of Engineering and Science, Department of Mechanical and Manufacturing Engineering, Aalborg, Denmark, www.m-tech.aau.dk/

Have been studied the following aspects:

- Fibres and resin materials: Types and properties;
- Laminae and laminates: Micro-mechanical models, modelling of the laminae, classical lamination theory (CLT);
- Analysis of composite structures: Beam, plate and shell modelling;
- Thermal effects;
- Fracture and failure, including fatigue;
- Brief introduction to 3-D effects and general design principles;
- Finite element analysis of laminated composite structures;
- Non-linear finite element analysis and prediction of progressive damage evolution, debonding and failure/collapse;
- Design optimization of laminated composite structures with focus on gradient based optimization of linear and nonlinear problems;
- Fundamental aspects of mechanics of sandwich structures.

June 2012 – November 2012

Graduation Certificate of the courses “University School for initial continuous training of teaching staff and trainers in the engineering and technical specializations field (Dida Tech)”

EQF level 8

Politehnica University of Timișoara, Faculty of Mechanical Engineering, Department of Teaching Staff Training, Timișoara, Romania, www.dppd.upt.ro/

- Have been covered the following modules: administrative, academic, curriculum design, professional training in blended-learning, development of teaching materials, testing of the chosen strategies, respectively objectives for improving the department and personal development;
- Professional skills acquired: modern techniques and technologies in education, communication methods, the use of Information Computing Techniques in the educational process, evaluation methods of the students, educational careers planning in engineering sciences field, ways to promote students' abilities.

September 2009 **Graduation Certificate of the National Programs of Training in Scientific Authorship of the Project “Doctoral Studies in Schools of Excellence – Evaluation of Research Quality in Universities and Increasing Visibility Through Scientific Publication”** EQF level 8
 Politehnica University of Timișoara, Faculty of Automatic Control and Computing, Department of Automation and Applied Informatics, Timișoara, Romania, www.ac.upt.ro/

October 2008 – October 2011 **PhD Degree in Engineering Science – Thesis Title: “Study of the Influence Factors Affecting the Mechanical Properties of Rigid Polyurethane Foams”** EQF level 8
 Politehnica University of Timișoara, Faculty of Mechanical Engineering, Department of Mechanics and Strength of Materials, Timișoara, Romania, www.mec.upt.ro/rezi/

- Research in the field of Strength of Materials by Numerical Simulation (using Finite Element Analysis Programs) and Static / Dynamic Test Methods (Tensile and Compression Tests, Three and Four Point Bending Tests, Shear Tests, Fracture Mechanics Tests) on different test machines;
- Strength and Fatigue Behaviour of Cellular Materials;
- Masters Courses: Deformability and Fracture, Objectives, Strategies and Methods in Scientific Research, Scientific and Deontology Communications, Fatigue of Metals and Structures, Optimization and Selection of Materials, Numerical Methods in Stress and Strain Analysis.

October 2003 – July 2008 **Bachelor Degree in Transport Engineering Specialization** EQF level 6
 Politehnica University of Timișoara, Faculty of Mechanical Engineering, Department of Transport Engineering, Timișoara, Romania, www.mec.upt.ro/

- Mechanical Engineering Fundamental Courses: Mathematics, Physics, Informatics, Strength of Materials, Descriptive Geometry and Technical Drawing, Material Sciences, Mechanics and Vibrations, Fluid Mechanics, Thermodynamics and Mechanisms;
- Specific Transport Engineering Specialization Courses: Informatics and Cybernetics in Transport, Stations and Complex Railways, etc.

September 1999 – June 2003 **High School Diploma in Transport Technician Specialization** EQF level 4
 High School "Nicolae Olahus" Orăștie, Romania;

- Exact Sciences and Humanities;
- Fundamental Theoretical Knowledge with emphasis on Exact Sciences and Field of Transport.

PERSONAL SKILLS

Mother tongue(s) Romanian

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B1
French	A2	A2	A1	A1	A2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Social skills and competences

- Open communication with individuals on issues that affect them or me, good ability to adapt, flexibility, proactive attitude, sociable and empathetic;
- Good team worker: I have worked in various types of teams, from Research Teams, out of different countries, to High School Basketball Championships. For 3 years I was the assistant coach and captain of my High School Basketball Team;
- Good mediating skills because I work on the borders between young peoples (students, masters, PhD Students and youth researchers or trainers) and experienced peoples (researcher, professors, people with leadership positions etc.);
- Good communication skills gained through my experience as a researcher through teamwork with experienced researchers.
- Organizational skills and capitalizing on of available resources;
- Skills and competences to adapt to any specific change with respect to new educational and social situations;
- Diplomacy skills and competencies in social relationships, good conciliator in conflict situations and misunderstandings;
- Analytical skills and spirit of justice.

Organisational / managerial skills

- Skills in project management in which I attended as a Director or Member of the research team, as well as skills in organizing or co – organizing National and International Conferences;
- Strong team – working and multi-tasking skills;
- Skills to successfully complete projects within deadline;
- Skills to apply logical thinking for problem solving, intuition and involvement
- Organizational skills of teaching and non-teaching activities;
- Ability to combine various forms of teaching;
- Stimulating and entrainment skills of the students in teaching and non-teaching activities;
- Skills to give specific tasks to each student or group of students based on their skills and abilities;
- Ability to resist in stressful situations;
- Skills to be proactive, to take responsible decisions timely and accountability;
- Skills to set goals in stages, to set priorities to organize and harness the available resources;
- Skills to communicate easily with the group as well as isolated persons;
- Skills to use properly the power and authority;
- Skills to stimulate the effective working relationships.

Job – related skills

- A good knowledge of materials testing methodologies (static and dynamic tests) acquired over career in Romania and abroad (Poland, Slovakia, Germany, Ukraine, Austria etc.);
- Good knowledge of analytical and numerical methods for characterization of cellular materials;
- Skills about strength and fatigue behaviour of cellular materials and fracture mechanics parameters.

Computer skills

- Good command of Microsoft Office tools;
- Finite Element Analysis Software: Franc2D, ABAQUS;
- Data Processing Software: Origin;
- Design Software: SolidWorks, AutoCAD;
- Graphics Software: Photoshop;
- Mathematical Tool: MathCad.

Other skills

- Artistic skills and competences: Enjoy all sports, especially football, basketball and ping pong; I love to travel and to experience different cultures; I like to read and listening to music.
- Other skills and competences: creativity, sense of observation, problem solving, dynamism and flexibility in behaviour and thinking, conscientiousness, reliability, practical spirit, initiative, flexibility for new and change in the social and educational perseverance in work and achieve the objectives, the ability to transfer information and their application, self-improvement.

Driving licence

- I am holder of a Romanian driver licence, B vehicle category.

 ADDITIONAL INFORMATION

Publications

During the period 2010-2017 I have published over 60 scientific papers in journals or conferences/symposiums, of which 32 in ISI circuit (20 papers in ISI Journals with impact factor and 12 ISI Proceedings). The most relevant 24 articles are the following:

- [1] **E. Linul**, L. Marsavina, J. Kováčik, Collapse mechanisms of metal foam matrix composites under static and dynamic loading conditions, *Materials Science & Engineering A*, 690, 214-224, 2017
- [2] **E. Linul**, D. A. Șerban, L. Marsavina, J. Kovacik, Low-cycle fatigue behaviour of ductile closed-cell aluminium alloy foams, *Fatig. Fracture of Eng. Mat. & Struct.*, 40(4), 597-604, 2017.
- [3] **E. Linul**, D. A. Șerban, L. Marsavina, T. Sadowski, Assessment of collapse diagrams of rigid polyurethane foams under dynamic loading conditions, *Archives of Civil and Mechanical Engineering*, 17(3), 457-466, 2017
- [4] J. Kováčik, J. Jerz, N. Mináriková, L. Marsavina, **E. Linul**, Scaling of compression strength in disordered solids: metallic foams, *Frattura ed Integrità Strutturale*, 36, 55-62, 2016.
- [5] L. Marsavina, D.M. Constantinescu, **E. Linul**, F.A. Stuparu, D.A. Apostol, Experimental and numerical crack paths in PUR foams, *Engineering Fracture Mechanics*, 167, pp. 68-83, 2016.
- [6] L. Marsavina, J. Kovacik, **E. Linul**, Experimental validation of micromechanical models for brittle aluminium alloy foam, *Theoretical and Applied Fracture Mechanics*, vol. 83, 11-18, 2016.
- [7] D.A. Apostol, F. Stuparu, D.M. Constantinescu, L. Marsavina, **E. Linul**, Crack Length Influence on Stress Intensity Factors for the Asymmetric Four-point Bending Testing of a Polyurethane Foam, *Materiale Plastice*, 53(2), 280-282, 2016.
- [8] D.A. Apostol, F. Stuparu, D.M. Constantinescu, L. Marsavina, **E. Linul**, Experimental and XFEM Analysis of Mode II Propagating Crack in a Polyurethane Foam, *Materiale Plastice*, 53(4), 685-688, 2016.
- [9] **E. Linul** and L. Marsavina, Assesment of sandwich beams with rigid polyurethane foam core using failure-mode maps, *Proc. of the Romanian Academy – Series A*, 16(4), 522-530, 2015.
- [10] D. A. Șerban, T. Voiconi, **E. Linul**, L. Marsavina, N. Modler, Viscoelastic properties of PUR foams: Impact excitation and dynamic mechanical analysis, *Materiale Plastice*, 52(4), 537-541, 2015.
- [11] R. Negru, L. Marsavina, T. Voiconi, **E. Linul**, H. Filipescu, G. Belgiu, Application of TCD for brittle fracture of notched PUR materials, *Theoretical and Applied Fract. Mech.*, 80, 87-95, 2015.
- [12] L. Marsavina, D.M. Constantinescu, **E. Linul**, T. Voiconi, D.A. Apostol, Shear and mode II fracture of PUR foams, *Engineering Failure Analysis*, 58, pp. 465-476, 2015.
- [13] D.A. Șerban, **E. Linul**, T. Voiconi, L. Marsavina, N. Modler, Numerical evaluation of two-dimensional micromechanical structures of anisotropic cellular materials: case study for polyurethane rigid foams, *Iranian Polymer Journal*, 24, 515-529, 2015.
- [14] L. Marsavina, E. Linul, T. Voiconi, D. M. Constantinescu, D. A. Apostol, On the crack path under mixed mode loading on PUR foams, *Frattura ed Integrità Strutturale*, 34, 444-453, 2015;
- [15] L. Marsavina, D.M. Constantinescu, **E. Linul**, D.A. Apostol, T. Voiconi, T. Sadowski, Refinements on fracture toughness of PUR foams, *Engineering Fracture Mechanics*, 129, 54-66, 2014.
- [16] L. Marsavina, **E. Linul**, T. Voiconi, T. Sadowski, A comparison between dynamic and static fracture toughness of polyurethane foams, *Polymer Testing*, 32, 673-680, 2013.
- [17] M. Birsan, T. Sadowski, L. Marsavina, **E. Linul**, and D. Pietras, Mechanical behavior of sandwich composite beams made of foams and functionally graded materials, *International Journal of Solids and Structures*, 50, 519-530, 2013.
- [18] **E. Linul**, L. Marsavina, Prediction of fracture toughness for open cell polyurethane foams by finite element micromechanical analysis, *Iranian Polymer Journal*, 20(9), 736-746, 2011.
- [19] L. Marsavina, **E. Linul**, T. Voiconi, R. Negru, Experimental Investigations and Numerical Simulations of Notch Effect in Cellular Plastic Materials, *IOP Conference Series: Materials Science and Engineering*, 123(1), 012060, 2016.
- [20] **E. Linul**, D.A. Serban, T. Voiconi, L. Marsavina, T. Sadowski, Energy-absorption and efficiency diagrams of rigid PUR foams, *Key Engineering Materials*, 601, 246-249, 2014.
- [21] T. Voiconi, **E. Linul**, L. Marsavina, T. Sadowski, M. Kneć, Determination of flexural properties of rigid PUR foams using digital image correlation, *Solid State Phenomena*, 216, 116-121, 2014.
- [22] T. Voiconi, **E. Linul**, L. Marsavina, J. Kovacik, M. Kneć, Experimental determination of mechanical properties of aluminium foams using Digital Image Correlation, *Key Engineering Materials*, 601, 254-257, 2014.
- [23] **E. Linul**, T. Voiconi, L. Marsavina, T. Sadowski, Study of factors influencing the mechanical properties of polyurethane foams under dynamic compression, *Journal of Physics: Conference Series* 451, 012002, 2013.
- [24] E. Linul, L. Marsavina, T. Sadowski and M. Kneć, Size Effect on Fracture Toughness of Rigid Polyurethane Foams, *Solid State Phenomena* 188, 205-210, 2012.

Conferences During PhD thesis, and after, I attended a series of National/International Conferences/Workshop, of which the most important are:

Year 2016

1. The workshop “New generation of epoxies for structural applications: nanocomposites with enhanced strength and toughness”, Bucuresti, Romania, June 27, 2016;
2. The 16th International Conference on New Trends in Fatigue and Fracture – NT2F16, Dubrovnik, Croatia, May 24 – 27, 2016;

Year 2015

3. The 6th Int. Conf. on Advanced Materials and Structures, Timișoara, October 16 – 17, 2015;
4. The 5th Int. Conference on Crack Paths, Ferrara (Italy), 16 - 18 September, 2015;
5. The 18th Int. Conference on Composite Structures, 15 - 18 June 2015, Lisbon, Portugal;
6. The 4th Int. Conference of Engineering Against Failure, 24-26 June 2015, Skiathos, Greece;

Year 2014

7. The 7th International Conference of Advanced Manufacturing ICAMaT 2014, 23-24 October 2014, Politehnica University of Bucharest, Romania;
8. The 20th National Symposium on Fracture Mechanics, Ploiesti, December 5, 2014;
9. The 3rd International Conference on Competitive Materials and Technology Processes, Miskolc, Hungary, October 6 – 10, 2014;
10. New Trends in Fatigue and Fracture – NT2F14 „Fatigue and fracture at all scales“, Belgrade, Serbia, September 15 – 18, 2014;
11. The 20th European Conference on Fracture, Trondheim, Norway, June 30 – July 4, 2014.
12. The First Multi-Lateral Workshop on “Fracture and Structural Integrity related Issues” Catania, Italy, September 15-17, 2014;
13. The 13th Youth Symp. Exp. Solid Mechanics, Decin, Czech Republic, June 28-July 2, 2014;

Year 2013

14. The 4th Numerical Simulation Workshop within Continental Automotive Romania, Timisoara, Romania, November 21-22, 2013;
15. The 19th National Symposium on Fracture Mechanics, Sibiu, Romania, 15 November, 2013;
16. The 5th International Conference on Advanced Materials and Structures, Timișoara, Romania, October 24 - 25 2013;
17. International Symposium on Dynamic Deformation and Fracture of Advanced Materials - D2FAM, Loughborough, UK, September 9 – 12, 2013;
18. The 13th International Conference on Fracture, Beijing, China, June 16-21, 2013.
19. The 14th Symposium of Experimental Stress Analysis and Material Testing – ARTENS, Timișoara, Romania, May 23 – 25, 2013;

Year 2012

20. The 29th Danubia-Adria-Symposium on Advances in Experimental Mechanics, Belgrade, Serbia, September 26-29, 2012;
21. The 10th International Conference on Foam Materials and Technology, Barcelona, Spain, September 12 – 13, 2012;
22. The 19th European Conf. on Fracture, Kazan, Russia, August 26-31, 2012;
23. The 18th National Symposium on Fracture Mechanics, Ploiești, Romania, December 7, 2012;

Year 2011

24. The 4th Int. Conf. on Advanced Materials and Structures, Timișoara, Romania, October 27 – 28, 2011;
25. The 9th Int. Conf. OPROTEH 2011, 24 - 26 May, Bacau, Romania;
26. The 16th Int. Conf. on Composite Structures, Porto, Portugal, June 28 – 30, 2011;
27. The 19th Int. Conf. in Computer Methods in Mechanics, Warsaw, Poland, May 9 – 12, 2011;

Year 2010

28. The 16th National Symposium on Fracture Mechanics, Ploiești, Romania, December 3 – 4, 2010;
29. The 18th European Conf. on Fracture, Dresden, Germany, August 30-September 03, 2010.
30. The 13th Symposium of Experimental Stress Analysis and Material Testing – ARTENS, Cluj – Napoca, Romania, June 11 – 12, 2010.

- Books**
1. D. Silaghi-Perju and **E. Linul**, Fundamentals of mechanical engineering. Theory and Applications, Ed. Politehnica 2013, ISBN: 978-606-554-706-3, 228 pages, in Romanian;
 2. **E. Linul** and L. Marsavina. Mechanical Characterization of Rigid PUR Foams Used for Wind Turbine Blades Recent Advances in Composite Materials for Wind Turbines Blades Construction, Dr. Brahim Attaf (Ed.), ISBN: 978-0-9889190-0-6, 2013;
 3. **E. Linul** and L. Marsavina, Experimental determination of mixed-mode fracture toughness for rigid polyurethane foams, accepted for publication in Springer.

- Projects**
- I attended as a Director or Member of the research team in different projects. Some of the most important projects are:
- Bilateral Agreement UEFISCDI, contract number 653/2013, between Politehnica University of Timisoara and Slovak Academy of Science „Microstructure – mechanical properties relationship for metallic foams”;
 - The CNCS – UEFISCDI grant PN-II-ID-PCE-2011-3-0456, contract number 172 / 2011, “Micromechanics modeling of fracture behavior and degradation of cellular material”;
 - Research contract no. 99/29.09.2009, titled “Stress – strain tests on electrical conductors of Al and steel, according to SR CEI 1089-97 and SR – CEI 61089/A1 for conductor with $S=50 \text{ mm}^2$ and OL – Al conductors of $70/12 \text{ mm}^{2*}$ ”;
 - Research contract no. 14/19.01.2009, titled “Stress – strain tests for aluminum and steel – aluminum conductors”;
 - Research contract no. 2/12.01.2009, titled “Testing of plastic materials”;
 - Research contract no. 185/18.12.2008, titled “Technical verification of measuring equipment DVIA-6 type, Series 4/1982 used for tensioning anchors from LEA”;
 - Research contract no. 694/25.06.2007, titled “Stress – strain load testing ACSS / TW 490/70 Conductor Construction SF 162/lproeb + pr. EN 50xxx”.

Honours and awards**Scholarships:**

- PhD student scholarship awarded through the “Doctoral Scholarships” strategic project ID 6998, POSDRU/6/1.5/S/13 agreement, “Connecting European Doctoral Studies Programs”, project co-financed by European Social Fund through the Sectoral Operational Programme Human Resources Development, 2007 – 2013 – Invest in people! Period: October 2008 – October 2011.
- BRD (Romanian Bank for Development) academic scholarships – Groupe Societe Generale – for outstanding academic performance, 2005;
- Excellence Scholarship (mark 10) during the four years of College.

Prizes:

- Second Prize – Local Phase of the Professional Competition “Traian Lalescu”, discipline “Fluid mechanics and hydraulic machines”, Politehnica University of Timișoara, Romania, May 5, 2006;
- Second Prize – National Phase of the Professional Student Competition “CC Teodorescu”, discipline “Strength of Materials”, “Petru – Maior” University of Târgu - Mureș, Romania, May 19 – 21, 2005;
- Special Prize (Prof. dr. eng. Dumitru Remus Mocanu) to outstanding results at the National Phase of the Professional Student Competition “CC Teodorescu”, discipline “Strength of Materials” held at Târgu – Mureș, awarded by Technical University “Gh. Asachi” Iași, Romania, May 20, 2005;
- Second Prize – Local Phase of the Professional Student Competition “CC Teodorescu” discipline “Strength of Materials”, Politehnica University of Timișoara, Romania, March 21, 2005;
- Third Prize – Local Phase of the Professional Student Competition “Traian Lalescu”, discipline “Mechanics”, Politehnica University of Timișoara, Romania, 2004;
- Also, in the High School I took two 1st Prizes in the Local Phase (Petroșani, 2002 and Deva, 2003) and two honourable mentions at the National Phase (Timișoara, 2002 and Iași, 2003) at the Interdisciplinary Technical Olympiad.

Scientific Society Memberships

- Member of European Structural Integrity Society (ESIS) since 2015;
- From September 2014 I was designate (in Belgrade, Serbia) alongside Prof. Dr. Eng. Liviu Marşavina as the Romania's representative for the New Trends in Fatigue and Fracture Congress (NT2F) which takes place annually (Congress founded in 2000 by Laboratoire de Fiabilité Mécanique Metz);
- Member of Romanian Society for Experimental Stress Analysis – ARTENS, from 2010;
- Member of Romanian Association for Fracture Mechanics – ARMFR, from 2009.

Reviewer specialized journals

- Archives of Civil and Mechanical Engineering, 2017;
- Industrial Crops and Products, 2017;
- Key Engineering Materials, Vol. 601-2014, 2016.
- Advances in Materials Science and Engineering Journal, 2016;
- International Research Journal of Pure and Applied Chemistry, 2014;
- Solid State Phenomena, Vol. 188-2012, Vol. 216-2014, 2016;
- Journal of Physics: Conference Series, Vol. 451-2013;
- Journal of Mechanical Science and Technology, 2013, 2016;
- International Journal of Agricultural Sciences, 2013.

Research Internships

- “Mechanical Characterization of Rigid PUR Foams” – Research Internship at Department of Solid Mechanics from Lublin University of Technology, Nadbystrzycka 40 Str., Poland, Period: November 17 – December 2, 2013.
- “Mechanical properties for metallic foams” – Research Internship at Institute of Materials and Machine Mechanics from Slovak Academy of Sciences, Bratislava, Slovakia Period: October 26 – November 3, 2013.
- “Experimental Determination of Rigid Polyurethane Behaviour” – PhD Internship at Department of Solid Mechanics from Lublin University of Technology, Nadbystrzycka 40 Str., Poland, Period: February 1 – May 1, 2011.

ANNEXES

Recommendation (written or via telephone) only upon personal request.