



## ALINA ADRIANA MINEA

**Nationality:** Romanian

**Phone:** (+40) 723455071

**Date of birth:** 15/06/1971

**Gender:** Female

**Email address:** [aminea@tuiasi.ro](mailto:aminea@tuiasi.ro)

### WORK EXPERIENCE

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**Director of Coordination Council of Doctoral Studies at Faculty of Materials Science and Engineering  
Technical University "Gh. Asachi" from Iasi, Area of Materials Engineering** [ 16/02/2018 – Current ]

**DIRECTOR Doctoral School S.I.M.  
Technical University Gheorghe Asachi from Iasi** [ 05/07/2016 – 16/02/2018 ]

**professor  
Technical University Gheorghe Asachi from Iasi** [ 01/10/2014 – Current ]

**Address:** Iasi

**assistant professor, lecturer, associate professor  
Technical University Gheorghe Asachi from Iasi** [ 01/03/1998 ]

**Address:** Bd. D. Mangeron 63, IASI (Romania)

teaching, research

**researcher  
INTEC SA** [ 01/10/1995 – 28/02/1998 ]

**Address:** Iasi (Romania)

design, research

### EDUCATION AND TRAINING

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**habilitation thesis**  
[ 01/01/2013 – 16/09/2013 ]

Materials engineering area, heat transfer enhancement techniques

**Fluent training diploma  
Tensor SRL** [ 01/04/2008 – 08/04/2008 ]

**Address:** Bucuresti (Romania)

advanced simulation software user

### master degree in Work health and security

*Technical University Gheorghe Asachi from Iasi* [ 01/10/2006 – 15/07/2007 ]

**Address:** Iasi (Romania)

Ergonomics, Ecology of the work environment, Risk assessment, knowledge of legislation and social context in work protection and security

occupational technology(basic principles, safety)

### Risk evaluator diploma

*Technical University Gheorghe Asachi from Iasi* [ 20/02/2007 – 15/06/2007 ]

**Address:** Iasi (Romania)

risk evaluator in work health and security

### pH D diploma

*Technical University Gheorghe Asachi from Iasi* [ 01/10/1994 – 25/05/2000 ]

**Address:** Iasi (Romania)

pH D title in Engineering Sciences

### Auto Cad user

*Auto Desk Center* [ 01/02/1996 – 15/02/1996 ]

**Address:** Iasi (Romania)

design software user

### master in Surface engineering

*Technical University Gheorghe Asachi from Iasi* [ 01/10/1994 – 15/07/1995 ]

**Address:** Iasi (Romania)

science applied in Surface engineering

### pedagogical skills

*Technical University Gheorghe Asachi from Iasi* [ 01/10/1994 – 15/06/1995 ]

**Address:** Iasi (Romania)

### engineer diploma

*Technical University Gheorghe Asachi from Iasi* [ 01/10/1989 – 15/07/1994 ]

**Address:** Bd. D. Mangeron, Iasi (Romania)

engineer skills

science applied in heat treatment and plactical processing

## LANGUAGE SKILLS

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Mother tongue(s):

**Romanian**

**English**

LISTENING: C2 READING: C2 UNDERSTANDING: C1

SPOKEN PRODUCTION: C2

SPOKEN INTERACTION: C2

**French**

LISTENING: B1 READING: B2 UNDERSTANDING: A2

SPOKEN PRODUCTION: A2 SPOKEN INTERACTION: B1

## DRIVING LICENCE

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Driving Licence: **B**

## ORGANISATIONAL SKILLS

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### Organisational skills

Sense of organisation (experience in logistics); Good experience in project management; Active scientist due to many projects I was involved; very good experience as organizer of different small events(workshop, summer school); good experience in dealing with conference organization; leadership skills due to my experience as grant manager

## COMMUNICATION AND INTERPERSONAL SKILLS

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### Communication and interpersonal skills

team spirit, very good ability to adapt to changes, good communication skills gained through my experience as teacher

## JOB-RELATED SKILLS

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### Job-related skills

good command of quality research programme, good technical skills, good understanding of related and interdisciplinary areas(due to different qualifications obtained)

## OTHER SKILLS

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### Other skills

I am a people-oriented networker, with international contacts(I initiated a scientific network on linkedin.com: Heat Transfer). Also, for few years I work for different journals as member of the Editorial Board, Vice-president of the Advisory Board and reviewer. From 2010 I initiated an annual Special Issue on Heat Transfer at IREME journal and a Summer School in Heat Transfer Enhancement.

My experience as reviewer started more than 15 years ago and I worked for different Agencies (from Romania and abroad), journals or conferences. As expert for agencies I worked for: CNCSIS, MCT, ARACIS, European Commission, UEFISCDI etc.

## RESEARCH ACTIVITIES

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### Published work summary:

- 37 books/chapters in recognized Publishing Houses, from which 11 are textbooks for students use and 12 are published abroad (Germany, Italy, USA)
- 204 papers published in journals and at conferences, from which 79 articles are indexed in Web of Science.
- 1 patent
- member at 14 national research grants from which 4 are won in national competition as principal investigator.
- partner manager at 8 international research grants won in international competition

### **More information about published work:**

79 papers WoS indexed, h-index 15 and 772 citations (659 citations without self-citations) Source: Web of Science

97 papers indexed, h-index 16 and 909 citations (778 citations without self-citations) Source: SCOPUS

h-index 18, i-10 index 31 and 1176 citations Source: GOOGLE SCHOLAR

<http://orcid.org/0000-0002-2473-184X>

ResearcherID: C-7307-2009

Scopus Author ID: 23493089800

PUBLONS: <https://publons.com/researcher/444769/alina-adriana-minea>

### **Research projects, as project manager.**

1 Grant no. 275 /31.10.2008, Programme INNOVATION, AMCSIT

Theme title: Technology for manufacturing metallic parts for automobiles with superficial layers modified by zones

Contractor: PROCOMIMPEX SRL Iași, **Project manager: Minea Alina Adriana**

2 Grant no. 81 / 01.10.2007, Programme: PNCDI II, IDEAS

Theme title: Experimental and CFD techniques for energy optimization of electric furnaces by modifying inner geometry

Contractor: Technical University Gh. Asachi Iași, **Project manager: Minea Alina Adriana**

3 Grant no. 5882 / 2006, Programme MCT- EXCELENTA, type Excellence for young researchers

Theme title: Reducing energy consumptions of heating equipments at medium temperatures by intensifying heat and mass transfer

Contractor: Technical University Gh. Asachi Iași, **Project manager: Minea Alina Adriana**

4 Grant no. 63GR tema 28 / 2006, Programme CNCSIS, type AT (for young researchers)

Theme title: Energy optimization of heat treatment equipments of aluminum alloys by heat transfer efficiency. Metallurgical implications

Contractor: Technical University Gh. Asachi Iași, **Project manager: Minea Alina Adriana**

## Research projects, as member

1. Contract nr. 37 PCCDI /2018

Platforme teranostice antitumorale pe baza de carbon-dots si matrice polimerice

Director de proiect: Simionescu B, membru: Minea A

2. Contract nr. 113.1 /29.09.2007

Tehnologie pentru sudo-brazarea structurilor duplex din oțel de construcții protejat cu straturi de zinc

Director de proiect: Baciuc C, membru: Minea A

3. Contract nr. 71-086 / 18.09.2007

Tehnologie modernă de obținere a straturilor fosfatate de înaltă porozitate pentru prelucrarea plastică volumică a pieselor din industria de automobile

Director de proiect: Bejinariu C, membru: Minea A

4. Contract nr. 171/2006

Sisteme expert pentru comanda sistemelor termice

Director de proiect: Vizureanu P, membru: Minea A

5. Contract nr. 293 / 13.09.2006

Sistem tehnologic performant pentru tragerea țevilor din oțeluri inoxidabile cu vibrații ultrasonice

Director de proiect: Susan M, membru: Minea A

6. Contract nr. 193 / 20.07.2006

Materiale multifuncționale cu granulație ultrafină/nanometrică obținută prin deformare plastică severă

Director de proiect: Comăneci R, membru: Minea A

7. Contract nr. 191 / 20.07.2006

„Sistem automat pentru obținerea piulițelor olandeze din oțel prin extrudare indirectă la rece”

Director de proiect: Bejinariu C, membru: Minea A

8. Contract nr. 1123 /12.01.2001

Realizarea unei tehnologii complexe de tratament termic criogenic si/sau termomecanic a corpurilor de

rulmenți în scopul creșterii fiabilității rulmenților

Director de proiect: Susan M, membru: Minea A

9. Contract nr. 905 /19.09.2000

Tehnologii moderne, de mare eficiență economică, pentru obținerea țevilor cu pereți subțiri și a cablurilor cu izolație minerală pentru termocupluri în tub metalic, din oțeluri inoxidabile, prin tragere în câmp ultrasonor

Director de proiect: Dima A, membru: Minea A

10. Contract nr. 1274/1996

Stadiul actual, fundamentare teoretică și elemente de proiectare tehnologică

Director de proiect : Dima A, membru: Minea A

### International projects, as partner manager:

1. Coordinator for program Erasmus IP with Portugal, Spain si Poland (nr 2013-1-PT1-ERA10-16665).
2. Energy Efficiency in Buildings in Russia and Armenia – MARUEEB: 2015, Erasmus KA2\_ Horizon 2020
3. CA 15119 - Overcoming Barriers to Nanofluids Market Uptake (NANO-UPTAKE) member in Management Committee and Dissemination Manager: 2016, COST\_ Horizon 2020
4. Member Research Network GreTInMat: Horizon 2020, coordinator: UCTM, Sofia, Bulgaria
5. Member in CEEPUS III network: RS-1012 Building Knowledge and Experience Exchange in CFD; Coordinator of the whole network: University of Novi Sad, Faculty of Technical Sciences, Department for Energy and Process Engineering, PhD Sinisa Bikic
6. CA18234 - Computational materials sciences for efficient water splitting with nanocrystals from abundant elements - member in Management Committee: 2019, COST\_ Horizon 2020
7. CA18202 - Network for Equilibria and Chemical Thermodynamics Advanced Research - member in Management Committee: 2019, COST\_ Horizon 2020
8. CIG-15119: Nanofluids for convective heat transfer devices, COST\_ Horizon 2020, April 2020- April 2021: membru în Management Committee și Dissemination Manager

## DIDACTICAL ACTIVITY

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### Courses

During last years I **introduced two new teaching directions** at Faculty of Materials Science and Engineering:

**- Mass and Energy transfer (later the name changed in Termotechincs) - year 2 IM**

**- Techniques for simulation of thermo-gas-dynamics processes – year 1 master TAIPM**

These 2 teaching directions were built from the scratch, including lectures and applications (labs and tutorials).

Plus, these 2 disciplines are at the base of engineering education for all students enrolled in materials engineering area and are establishing the basics for future focused disciplines, like: heating equipment, thermal treating, thermochemical treatment, plastic deformation etc.

The second discipline is unique at national level and constitutes the bases of simulation processes involving fluid dynamics and heat transfer, using CFD commercial code Ansys and Fluent.

Starting with 1998 (the year when I was hired by TUIASI) I taught several disciplines (courses and applications):

- Physical metallurgy
- Heating equipment
- Technological equipment
- Heat and mass transfer
- Industrial robots
- Techniques for simulation of thermo-gas-dynamics processes

## Published courses

The teaching activity is sustained by conceiving teaching material (monographs and printed courses), as (selection):

1. **A. A. Minea**, *Echipamente si instalatii de incalzire* -356 pag., Ed. Pim, Iasi, ISBN 978-606-13-4010-1, 2017
2. **A. A. Minea**, *Tehnici de simulare a proceselor termogazodinamice* -277 pag, Ed. Matrix Rom Bucuresti, ISBN 978-973-755-603-5, 2010
3. **A. A. Minea**, *Transfer de caldura si masa- notițe de curs și aplicații* -262 pag., Ed. Pim, Iasi, ISBN 606-520-835-3, 2010
4. **A. A. Minea** *Engineering heat and mass transfer*, 210 pag Ed. Praise Worthy Praise, Italy, ISBN 978-88-96329-01-6, 2009
5. **A. A. Minea** *Techniques for studying heat and mass transfer enhancement*, 243 pag, Ed. VDM Publishing House, Germany, ISBN 978-3—639-17191-4, 2009
6. **A. A. Minea**, *Tehnici de studiu a intensificării proceselor de transfer de caldura și masa* -229 pag., Ed. Politehniun, Iasi, ISBN 978-973-621-213-0, 2008
7. **A. A. Minea**, *Cuptoare si instalatii de incalzire, Indrumar de proiectare*-98 pag, Ed. Cermi, Iasi, ISBN 978-973-667-219-4, 2007
8. **A. A. Minea**, *Transfer de caldura si masa*-104 pg, Ed. Cermi, Iasi, ISBN 978-973-667-220-0, 2007
9. **A. A. Minea**, *Transfer de masa si energie. Aplicatii in stiinta si ingineria materialelor* - 154 pag, Ed. Tehnopres, Iasi, ISBN 973-8048-21-4, 2006
10. **A. A. Minea** , A.Dima, *Transfer de masa si energie* - 294 pag, Ed. Tehnica, Stiintifica si didactica Cermi, Iasi, ISBN 973-667-115-1, 2005
11. A. Dima, **A. A. Minea**, *Cuptoare si instalatii de incalzire – Particularitati constructiv-functionale –* 229 pag, Ed. Cermi, Iasi, ISBN 973-667-114-3, 2005
12. **A. A. Minea**, *Transfer de caldura si instalatii termice* - 231 pag, Ed. Tehnica, Stiintifica si didactica Cermi, Iasi, ISBN 973-8188-63-6, 2003

## NATIONAL COOPERATION

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### Affiliation at national professional organizations

- member from 2004 in AGIR, ID no. 59980
- member from 2006 in AdAstra.

### Co-Organizer of national events:

2019: The TUIASI Doctoral School International Conference May, 2019, Iasi, Romania

2020: The TUIASI Doctoral School International Conference November 5th-7th, 2020, Iasi, Romania

## National prizes: 52

### - 1989:

Mentione la Seminarul Stiintific Studentesc cu tema "Chimia – fundament al stiintei materialelor"

### - 2008:

- Gold medal at Salonul Internațional de Inventică PRO INVENT ediția a VI-a 2008, Cluj Napoca pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment.

- Bronze medal at INVENTICA 2008 la Salonul Internațional jubiliar al cercetării, invențiilor și transferului tehnologic INVENTICA 2008 14-24 mai 2008, Iași pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment.

- Bronze medal at INVENTIKA 2008 la Salonul Internațional jubiliar al cercetării, invențiilor și transferului tehnologic INVENTIKA 2008 7-11 oct 2008, Bucuresti

### - 2009:

- Gold medal at Expoziția Internațională de invenții, cercetare științifică și tehnologii noi, INVENTIKA 28-31 oct 2009, București, România, pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment

### - 2011:

- Bronze medal at Salonul International de inventică EUROINVENT (14 may 2011) pentru invenția: "Procedure for heat transfer enhancement in oval electrical furnaces used for medium temperature heat treatment".

### - 2013

- Silver medal at Salonul international de inventica PROINVENT, 2013, Cluj Napoca pentru invenția "Procedure for heat transfer enhancement in oval electrical furnaces used for medium temperature heat treatment"

### -2015:

- UEFISCDI prizes on papers: **27**

- CNCSIS prize on patent: 1

### - 2016:

- Excellence prize and "Gh. Asachi" meadl for the research activity Technical University of Iasi, Romania

### - 2017

- Premiul "Traian Negrescu" al ASTR pentru cartea: "Tratat de Stiinta si Ingineria Materialelor"

### - 2018

- UEFISCDI prizes on papers: **6**

### - 2019

- UEFISCDI prizes on papers: **8**

- Excellence prize and "Gh. Asachi" meadl for the research activity Technical University of Iasi, Romania



### **National professional experience - reviewer for research**

- reviewer CNCSIS 2004 - 2010(certificat nr.1417/28.11.2005)
- reviewer MCT-excelenta in 2005, 2006
- reviewer AMCSIT, programme Inovare, in 2007
- reviewer CNMP, in 2007, 2008
- reviewer ANCS- Fonduri structurale competition 2009, 2011
- certified reviewer pentru ARACIS (national agency for quality in academia)
- reviewer ARACIS, internal programme.
- expert UEFISCDI, programe PD si TE, 2017
- expert UEFISCDI, programme PTE, PD si TE, 2020

### **National cooperation with R&D centers:**

Over the years I established solid and long term cooperation with different research groups from Romania, cooperation that enabled grants proposals, writing joint papers, books. Some of these can be outlined:

- Institute of Macromolecular Chemistry Petru Poni
- University Politehnica Timișoara
- University Babes Bolyai Cluj
- University Transilvania Brașov
- University Al Cuza Iași

Plus, I organized, for the first time at national level, the first network in studying nanofluids, by identifying all preoccupations in this area and inviting all romanian researchers to participate in the Nanouptake COST action, promoting thus the romanian research in nanofluids.

## **INTERNATIONAL COOPERATION**

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### **Coordinated international projects:**

**April 2020- April 2021:** Dissemination Manager of COST Action CIG-15119: Nanofluids for convective heat transfer devices, COST\_ Horizon 2020

**April 2020- April 2021:** Management Committee member of COST Action CIG-15119: Nanofluids for convective heat transfer devices, COST\_ Horizon 2020

**Aprilie 2016- Aprilie 2020:** Dissemination Manager COST Action CA 15119: Overcoming Barriers to Nanofluids Market Uptake (NANO-UPTAKE), COST\_ Horizon 2020

**Aprilie 2016- Aprilie 2020:** Membru în Management Committee COST Action CA 15119: Overcoming Barriers to Nanofluids Market Uptake (NANO-UPTAKE) Membru in Management Committee and Dissemination Manager: 2016, COST\_ Horizon 2020

**Octombrie 2019 – Octombrie 2023:** Membru în Management Committee COST Action CA18234 - Computational materials sciences for efficient water splitting with nanocrystals from abundant elements, COST\_ Horizon 2020

**Octombrie 2019 – Octombrie 2023:** Membru în Management Committee COST Action CA18202 - Network for Equilibria and Chemical Thermodynamics Advanced Research, COST\_ Horizon 2020

### **Affiliation at international professional organizations**

- member from 2005 in INWES (International Network of Women in Engineering), ID no. IND093
- member from 2004 in EuMat.
- member from 2007 in ASME International, ID no. 9543307
- member from 2014 in ASTFE (American Society of Thermal and Fluids Engineers)

### **Editor – in – chief /Associate Editor Web of Science indexed journals:**

- **Associate Editor**, Journal of Thermal Science (Springer) (WoS, IF 1.228): <https://www.springer.com/physics/classical+continuum+physics/journal/11630?detailsPage=editorialBoard>
- **Associate Editor** International Journal of Thermophysics (SPRINGER), (WoS, IF 0.853), <https://www.springer.com/journal/10765>
- **Guest Editor in Chief** Special Issue "Future and Prospects in Nanofluids Research" in Nanomaterials journal, MDPI, (WoS, IF 4.034): [https://www.mdpi.com/journal/nanomaterials/special\\_issues/future\\_prospects\\_nanofluids](https://www.mdpi.com/journal/nanomaterials/special_issues/future_prospects_nanofluids)
- **Guest Editor in Chief** Special Issue on nanoparticle enhanced ionic liquids. International Journal of Thermophysics (SPRINGER), (WoS, IF 0.853), <https://www.springer.com/journal/10765>

### **Member in Editorial Boards - SCOPUS / Web of Science indexed journals:**

- Member in Editorial Board ANNALS OF "DUNAREA DE JOS" UNIVERSITY OF GALATI, Fascicle XII, WELDING EQUIPMENT AND TECHNOLOGY:(SCOPUS)

<http://www.if.ugal.ro/editorialBoard.htm>

- Member in Regional Editorial Board Journal of Thermal Sciences (WoS, IF 1.541):

<http://thermalscience.vinca.rs/Editorial>

- **Guest Editor in chief** IREME – Special Issue on Heat Transfer 2010, 2011, 2012 and 2013:

[http://www.praiseworthyprize.com/special\\_issues.htm](http://www.praiseworthyprize.com/special_issues.htm)

- Member in Editorial Board Thermal Science and Engineering Progress (Elsevier) (SCOPUS): <https://www.journals.elsevier.com/thermal-science-and-engineering-progress/editorial-board>

- Member Reviewer Board Micromachines, MDPI, (WoS, IF 2.426): [https://www.mdpi.com/journal/micromachines/submission\\_reviewers](https://www.mdpi.com/journal/micromachines/submission_reviewers)

- **Topic Editor** Nanomaterials journal, MDPI, (WoS, IF 4.324): [https://www.mdpi.com/journal/nanomaterials/topic\\_editors](https://www.mdpi.com/journal/nanomaterials/topic_editors)

### **Member in Editorial Boards - other journals:**

- Editor in chief IREHeat
- Membru in Editorial Board International Journal of Green Technology
- Editor-in-chief International Journal of Metallurgical Engineering from 2012:
- Membru in Editorial Board MEHTA Press: Journal of Engineering, from 2010
- Membru in Editorial Board International Journal of Advanced Thermofluid Research (IJATR):
- Membru in Editorial Board British Journal of Engineering and Technology (BJET), from 2012
- Membru in Editorial Board International Journal of Energy and Environment from 2012
- Membru in Editorial Board American Journal of Heat and Mass Transfer from 2013
- Membru in Editorial Board Hindawi: Advances in Mathematical Physics, Special issue Micro/Nanoscale Fluid Flow and Heat transfer in 2014-2015: <http://mts.hindawi.com/guest.editor/journals/amp/mina/>
- Membru Editorial Board International Journal of Green technology
- International Journal of Nanoparticles and Nanotechnology

## Chairman at international events

- chairmen session U.2.4. HEAT AND MASS TRANSFER, Conference ASME-ATI-UIT: Thermal and Environmental Issues in Energy Systems 2010, may 2010, Sorrento, Italy: <http://www.ichmt.org/asme-ati-uit-10/images//program.pdf>
- chairman session G: Mechanical Equipment Design and Analysis, Conference IManE 2013, 22-24 May 2013, Iasi, Romania: <http://2013.imane.ro/conference-program/>
- chairman session G: Mechanical Equipment Design and Analysis, Conference IManE 2014, 29-30 May 2014, Chisinau, Rep. Moldova: <http://2014.imane.ro/conference-program/>
- chairmen session M1.3. Single phase heat transfer, Conference ASME-ATI-UIT: Thermal Energy Systems: Production, Storage, Utilization and the Environment 2015, may 2015, Naples, Italy: <http://www.asmeatiuit2015.com/public/index.php?node=63&nm=Conference+Program>
- chairmen session M1.4. Heat exchangers, Conference ASME-ATI-UIT: Thermal Energy Systems: Production, Storage, Utilization and the Environment 2015, may 2015, Naples, Italy: <http://www.asmeatiuit2015.com/public/index.php?node=63&nm=Conference+Program>
- chairman session A2: Heat exchanger, Conference ISTP26, september 2015, Leoben, Austria: [http://www.istp26.at/media/Detailed\\_Program\\_neu\\_8.pdf](http://www.istp26.at/media/Detailed_Program_neu_8.pdf)
- chairman session A3: Heat transport technology, Conference ISTP26, september 2015, Leoben, Austria: [http://www.istp26.at/media/Detailed\\_Program\\_neu\\_8.pdf](http://www.istp26.at/media/Detailed_Program_neu_8.pdf)
- chairman session C6: Micro and nano scale transport, Conference ISTP26, september 2015, Leoben, Austria: [http://www.istp26.at/media/Detailed\\_Program\\_neu\\_8.pdf](http://www.istp26.at/media/Detailed_Program_neu_8.pdf)
- chairman Session E: Physical & Mechanical Metallurgy. Materials, Conference ICMM 2016, Sofia, Bulgaria, <http://icmm2016.com/conference/program/>
- chairman Conference of PHD School, Technical University "Gh. Asachi" Iasi 2017
- chairman Session 1 (Renewable energy) IAPE 2019
- chairman Session 2 (Green energy) IAPE 2019
- chairman session no. S6: Numerical Simulation on the Microscopic and Macroscopic Levels, ICNF 2019, Spania

## **Member in International Committee at different conferences: 95**

### **SELECTION:**

- SOLARIS 2011
- SUSTEM 2011
- Conference IManE 2014, 27-30 May 2014, Chisineu, Moldavia:
- Conference IManE 2015, 21-22 May 2015, Iasi, Romania
- International conference TEME 2015, Galati, Romania:
- ISTP 26, Leoben, Austria
- SUSTEM 2015, Newcastle, UK:
- 2015 International Conference on Power, Energy Engineering and Management (PEEM2015) December 20-21, 2015, Phuket, Thailand:
- IMANE 2016, September 23-25, 2016 Kallithea Chalkidiki, Greece
- 7 th edition of INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE & ENGINEERING, UgalMat 2016, MAY 19 - 21, 2016, GALATI, ROMANIA
- The International Conference on Metallurgy & Materials (ICMM'16), Sofia, September 26 – 28, 2016
- 11th European Conference on Industrial Furnaces and Boilers, Portugal, 18-21 April 2017
- The 7th International Symposium on Advances in Computational Heat Transfer, CHT-17, Napoli, Italy, during 28 May - 02 June 2017
- The 21th edition of IManEE 2017 International Conference, May 25-26, 2017 Iasi, Romania
- TEME 2017: New trends in environmental and materials engineering, Galati, ROMANIA, 25-27 october
- European Symposium on Nanofluids (ESNf) Lisbon, Portugal, 8-10 October 2017
- ICPM 2017: 9TH International congress on precision machining, 6 - 9 september 2017, Athens, Greece
- TUIasi, First conference of Doctoral Schools, mai 2017, Iasi, Romania
- UGalMat 2018
- 22-nd Thermal Science and Technology Congress 2019
- ICNF 2019
- The 23rd edition of IManEE 2019 International Conference May 22 – 24, 2019 Pitesti, Romania
- Building Services and Energy Efficiency, July 2, 2020 - July 3, 2020

## **International prizes: 10**

### **- 2008:**

- Silver medal at Salonul Archimed 2008, Moscova, Rusia, 1.04-4.04.2008: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment.
- Gold medal at Salonul Internațional de la Sevastopol 2008 25-27 aug 2008: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment
- Silver medal at Salonul Internațional de la Sevastopol 2008 24-28 sept 2008: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment
- TESLA medal at Festivalul Internațional de Inovare, cunoastere si creatie de la Novi Sad, 2008 oct 2008,: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment:
- Bronze medal at Salon des innovations, des recherche et des nouveles technologies BRUSSELS EUREKA 13 nov 2008, Banja Luka Bruxelles pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment:

### **- 2009:**

- Bronze medal at Expoziția Internațională INFOINVENT 24-27 nov 2009, Chișinău, Rep. Moldova,: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment:

### **- 2010:**

- Gold medal at Salonul International de inventică "International salon of Inventions and new technologies NEW TIME", Sevastopol, Ucraina (23-25 sept. 2010): "Procedure for heat transfer enhancement in oval electrical furnaces used for medium temperature heat treatment".

### **- anul 2011:**

- Bronze medal at Salonul International de inventică EUROINVENT (14 may 2011): "Procedure for heat transfer enhancement in oval electrical furnaces used for medium temperature heat treatment".

### **- 2013**

- BEST REVIEWER for 2012, Journal Applied Energy, ELSEVIER

### **- 2017**

- BEST REVIEWER for 2016, Journal Applied Energy, ELSEVIER

## **International professional experience - invited professor**

Since 2009 I was invited to keep lectures based on different agreements at:

- Seconda Universita degli Studi di Napoli in 2009
- Seconda Universita degli Studi di Napoli in 2010
- Seconda Universita degli Studi di Napoli in 2013
- Austria, Leoben University, in 2011
- Portugal, University of Beira Interior, in 2012
- France, University of Poitiers, in 2013
- Portugal, University of Beira Interior, in 2014
- Bulgaria, University UCTM, in 2014
- Seconda Universita degli Studi di Napoli in may 2015
- Technical University of Athens, Greece in december 2015
- Bulgaria, University UCTM, in 2016
- Norway, NTNU Trondheim in 2019

### **International professional experience - reviewer for research grants:**

- expert EACI-IEE for Intelligent Energy Europe
- expert programme Fp7, HORIZON 2020
- expert HORIZON 2020, in aprilie-mai 2014, competition H2020-EE
- rapporteur HORIZON 2020, in aprilie-mai 2014, competition H2020-EE
- expert HORIZON 2020, in octombrie 2014, competition H2020-LCE
- rapporteur HORIZON 2020, in octombrie 2014, competition H2020
- expert HORIZON 2020, in martie 2015, competition H2020-EASME
- expert HORIZON 2020, in iunie 2015, competition H2020-second stage
- expert HORIZON 2020, in 2016, competition H2020
- rapporteur HORIZON 2020, in 2016, competition H2020
- expert NCRB Poland in martie 2017, februarie 2018
- expert EUROSTARS, programme CDI in 2017: 3 projects; 2018: 4 projects; 2019: 4 projects; 2020: 6 projects
- expert Kazakhstan Ministry of Research, 2017
- expert HORIZON 2020, in 2018, competition H2020
- expert HORIZON 2020, in 2019, competition RES
- expert NCRB Poland in march 2019, february 2020

### **International professional experience -as reviewer (selection):**

- reviewer for prestigious journals: J.Materials Science (Springer); Experimental Mechanics (Springer); Heat and Mass Transfer (Springer); Applied Energy (Elsevier); International Journal of Advanced Manufacturing Technologies (Springer); CRC press, Taylor and Francis; Current Nanoscience (Bentham); Thermal Science; Environmental Engineering and Management Journal; Journal of Materials Processing Technology (Elsevier), International Journal of Heat and Mass Transfer (Elsevier), Nano Research Letters, Continuum Mechanics and Thermodynamics (Springer), Computational Materials Science (Elsevier), Energy (Elsevier), Heat transfer Engineering (Taylor and Francis), International Journal of Thermophysics (Springer), Journal of Thermal Analysis and Calorimetry (Springer), Microfluidics and nanofluidics (Elsevier), Journal of Molecular Liquids(Elsevier)
- reviewer for conferences: KGCM 2008, Orlando, USA; WSEAS (209-2016); IMETI 2009, Orlando, USA; BMIC 2009, Orlando, USA; ASM – IMECE 2009, Florida, USA; ASME – FEDSM 2010, ISTP 26 (2015)

### **Coordinator Erasmus and Erasmus+:**

- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and Seconda Università degli Studi di Napoli, Italia
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and Montanuniversität Leoben, Austria
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and University of Beira Interior, Portugal
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and UCTM, Bulgaria
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and University of Poitiers, France
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and Technical University of Athens, Greece
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and University of Lisbon, Portugal
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and University of Parma, Italia
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and Technological Educational Institute of Sterea Ellada, Greece
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and University of Vigo, Spain
- Coordinator of agreement ERASMUS/ERASMUS+ between Universitatea Tehnică Gheorghe Asachi din Iasi and University of Trondheim, NORWAY

### **International research periods**

- Portugal, Lisbon
- France, Paris
- Italy: Aversa, Rome, Milano
- Spain, Madrid
- UK, London



### **Invited Key speaker:**

- Invited speaker for HTE Conference, Moscow, 2009: <http://www.wseas.org/conferences/2009/russia/hte/Plenary3.htm>
- Invited speaker for TEHNOMUS 2013, Suceava, Romania: [http://www.fim.usv.ro/conf\\_1/TEHNOMUS/](http://www.fim.usv.ro/conf_1/TEHNOMUS/)
- Invited speaker Conference IManE 2014, 27-30 May 2014, Chisinau, Moldavia: <http://www.imane.ro/conference-program/>
- Invited speaker Summer school in Composite Materials in Portugalia in: 2012, 2013, 2014.
- Invited speaker Conference ISTP 26, Austria, 27.09 – 1.10 2015: <http://www.istp26.at/en/1/>
- Invited speaker INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE & ENGINEERING, UgalMat 2016, MAY 19 - 21, 2016, GALATI, ROMANIA: <http://www.ugalmat.ugal.ro/>
- Invited speaker Conference ICMM 2016, Bulgaria, 26.09 2016: <http://icmm2016.com/organizers/conference-committee/>
- Key speaker for TUIasi, First conference of Doctoral Schools, 29-30 mai 2017, Iasi, Romania
- Invited speaker la First International Conference on Energy Systems Engineering, (ICESE'17) 2017, Turcia, november 2017, <http://icese17.com/22-2/>
- Invited speaker at NANOSTRUC 2018, Berlin, may 2018: <https://www.nanostruc.info/nanostruc-conference.html>
- Invited speaker at Modtech 2018, Constanta, Romania, june 2018: [http://modtech.ro/conference/invited\\_speakers.php](http://modtech.ro/conference/invited_speakers.php)
- Invited speaker at IAPE 2019: Innovative Applied Energy, Oxford, UK, march 2019; <http://iape-conference.org/index.php/2018-05-02-19-15-06/keynote-talks>

### **ACTIVITIES AS PHD ADVISER**

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#### **No. of finalized thesis, participation in Committees**

**Finalized thesis:** 2, from which one with „excellent”.

#### **Member in pHD Committees:**

- Chairman of different pHD thesis committees in TUIASI: 13 participations
- member pHD committee: București 2007
- member pHD committee in India, december 2017.
- member pHD committee in France, Lyon, january 2018.
- member pHD committee in in Montreal, University of Sherbrook, Canada, 25 october 2018.
- member pHD committee in Italia, nov. 2018.
- member pHD committee in in India, march 2019.
- member pHD committee in India, september 2019.
- member pHD committee in France, Rennes, october 2020.

**Member guiding comission:** 4 pHD students

**Member in different comissions for projects in Doctoral School:** since 2010: over 20 participation

**President of Admission Committee for Doctoral Students:** 2016 – 2020 (5 years)

## EXPERIENCE IN MANAGEMENT

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### Experience in university management

**05/2016–02/2018** Director of Doctoral School in Materials Science and Engineering, Technical University "Gh. Asachi" from Iasi

**02/2018–present** Director of Coordination Council of Doctoral Studies at Faculty of Materials Science and Engineering, Technical University "Gh. Asachi" from Iasi, Area of Materials Engineering

### Experience in management of research and editorial work

- **04/2016 – present** – member in Management Committee at 4 different COST actions (Nanouptake, NanoConvex etc)
- 4 grants as manager at national level
- 8 international grants as partner manager
- coordinator of 13 Erasmus agreements
- coordinator of 3 research agreements
- organizer of international events: summer schools, training schools, seminars, conferences
- editorial activities: coordination of Special issues, edited books at Taylor and Francis

## REPRESENTATION IN COMMITTEES OF NATIONAL AND INTERNATIONAL INTEREST

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### Member in national and international committees

- Member Advisory Board TEST ([www.thermofluids.net](http://www.thermofluids.net)), web based courseware
- member commission report "Energy Transition and the Future of Energy Research, Innovation and Education: An Action Agenda for Europe`s Universities", december 2017
- Member of ARACIS: <http://pfe.aracis.ro/inscriere/registru/evaluator/233/>
- Member CNATDCU Materials Engineering 2016-2020
- Member in several committees for doctoral studies, as well as for didactic activities

