

Lista de lucrări în domeniul de studii universitare de licență*

Numele și prenumele: **prof.univ.dr.ing. Alina Adriana Minea**

A. Teza de doctorat.

Teza de abilitare: Heating equipments: saving energy by heat transfer enhancement techniques, susținută în anul 2013.

Teza de doctorat: Contributii privind imbunatatirea constructiv functionala a cuptoarelor utilizate la tratamentul termic al aliajelor de aluminiu, susținută în anul 2000, sub conducerea prof.univ.dr.ing. Simionescu Aurelian.

B. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în străinătate.

1. **A.A. Minea, Advances in Heat Transfer Fluids: from Numerical to Experimental Techniques** (532 pag) Ed. A. A. Minea, CRC press Taylor & Francis, ISBN 9781498751858 - CAT# K27275, 2017.
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3. **A.A. Minea, Introduction to industrial heat transfer (ch.1)**, in **Advances in industrial heat transfer**,(421 pag) Ed. A. A. Minea, CRC press Taylor & Francis, pp 1-46, ISBN: 9781439899076, 2012
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8. **A. A. Minea Techniques for studying heat and mass transfer enhancement**, 243 pag, (29rd/pag) Ed. VDM Publishing House, Germany, ISBN 978-3—639-17191-4, 2009

C. Cărți (manuale, monografii, tratate, îndrumare etc.) publicate în țară, la edituri recunoscute CNCSIS.

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2. **A. A. Minea, Transfer de căldură și masă- aplicații și probleme** -115 pag. (28rd/pag), Ed. Pim, Iasi, ISBN 978-606-13-2619-8, 2015
3. I. Varcolacu, V. Mirea, B. Florea, **A. A. Minea**, Instalatii, utilaje si echipamente metalurgice (cap. 6)), in **TRATAT DE STIINTA SI INGINERIA MATERIALELOR METALICE** , **Editori:** Rami SERBAN, Mihai COJOCARU, Editura AGIR, pp 632-939, ISBN: 978-973-720-391-5, 2012
4. **A.A. Minea**, Rolul tehnicii, tehnologiei si ingineriei in dezvoltarea ecosociala(cap. 7.2), in **TRATAT DE STIINTA SI INGINERIA MATERIALELOR METALICE** , **Editori:**

- Rami SERBAN, Mihai COJOCARU, Editura AGIR, pp. 963-972, ISBN: 978-973-720-391-5, 2012
5. A. Dima, S. Dimitriu **A. A. Minea**, C. Trante, Utilaje, instalatii si automatizari pentru tratamente termice (cap. 1.8), in **TRATAT DE STIINTA SI INGINERIA MATERIALELOR METALICE** , Editori: Rami SERBAN, Mihai COJOCARU, Editura AGIR, pp145-205, ISBN: 978-973-720-391-5, 2012
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2. **A. A. Minea**, TRANSFER DE CĂLDURĂ ȘI MASĂ – seminar;
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F. Lucrări științifice publicate în reviste cotate ISI sau indexate în baze de date internaționale.

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<p>2. Contract de finanțare pentru executie proiecte nr. 81 / 01.10.2007 <i>Programul PNCDI II</i> Categororia de proiect: IDEI Denumirea proiectului: <i>Tehnici experimentale si CFD pentru optimizarea energetica a cuptoarelor electrice, prin modificarea geometriei spatiului de lucru</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Minea Alina Adriana Valoarea proiectului: 931 050 lei (RON)</p>
<p>3. Contract de finanțare pentru executie proiecte nr. 113.1 /29.09.2007 <i>Programul INOVARE</i> Categororia de proiect: CDI- orientate Denumirea proiectului: <i>tehnologie pentru sudo-brazarea structurilor duplex din otel de constructii protejat cu straturi de zinc</i> Autoritatea Contractantă: <i>AMCSIT</i> Director de proiect: Baciou Constantin, membru: Minea Alina Adriana Valoarea proiectului: 1 822 963lei (RON)</p>
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<p>5. Contract de finanțare pentru executie proiecte nr. 5882 / 2006 <i>Programul MCT- EXCELENTA</i> Categorii de proiect: ET Denumirea proiectului: <i>Reducerea consumurilor energetice ale instalațiilor de încălzire la temperaturi medii prin intensificarea proceselor de transfer de căldură și masă</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Minea Alina Adriana Valoarea proiectului: 130 000 lei (RON)</p>
<p>6. Contract de finanțare pentru executie proiecte nr. 63GR tema 28 / 2006 <i>Programul CNCSIS</i> Categorii de proiect: AT Denumirea proiectului: <i>Optimizarea energetică a instalațiilor de tratament termic al aliajelor de aluminiu, prin eficientizarea proceselor de transfer termic. Implicații metalurgice</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Minea Alina Adriana Valoarea proiectului: 45 000 lei (RON)</p>
<p>7. Contract de finanțare pentru executie proiecte nr. 171/2006 <i>Programul MCT EXCELENTA</i> Categorii de proiect: MODUL1 Denumirea proiectului: <i>Sisteme expert pentru comanda sistemelor termice</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Vizureanu Petrica, membru: Minea Alina Adriana Valoarea proiectului: 930 000 lei (RON)</p>
<p>8. Contract de finanțare pentru executie proiecte nr. 293 / 13.09.2006 <i>Programul „Cercetare de excelență”</i> Categorii de proiect: Modul: 1; Tip de proiect: P-CD Denumirea proiectului: <i>Sistem tehnologic performant pentru tragerea țevilor din oțeluri inoxidabile cu vibrații ultrasonice</i> Autoritatea Contractantă: <i>Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic - POLITEHNICA</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Susan Mihai, membru: Minea Alina Adriana Valoarea proiectului: 1 236 500 lei (RON)</p>
<p>9. Contract de finanțare pentru executie proiecte nr. 193 / 20.07.2006 <i>Programul „Cercetare de excelență”</i> Categorii de proiect: Modul: 1; Tip de proiect: P-CD Denumirea proiectului: <i>Materiale multifuncționale cu granulație ultrafină/nanometrică obținută prin deformare plastică severă</i> Autoritatea Contractantă: <i>Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic - POLITEHNICA</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Comăneci Radu, membru: Minea Alina Adriana Valoarea proiectului: 910 000 lei (RON)</p>

<p>10. Contract de finanțare pentru executie proiecte nr. 191 / 20.07.2006 <i>Programul „Cercetare de excelenta”</i> Categoriza de proiect: Modul: 1; Tip de proiect: P-CD Denumirea proiectului: „Sistem automat pentru obținerea piulițelor olandeze din oțel prin extrudare indirectă la rece” Autoritatea Contractantă: Agenția Managerială de Cercetare Științifică, Inovare și Transfer Tehnologic - POLITEHNICA Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Bejinariu Costică, membru: Minea Alina Adriana Valoarea proiectului: 1 030 000 lei (RON)</p>
<p>11. Contract de finanțare pentru executie proiecte nr. 1123 / 12.01.2001 <i>Programul RELANSIN’</i> Categoriza de proiect: TM Denumirea proiectului: <i>Realizarea unei tehnologii complexe de tratament termic criogenic și/sau termomecanic a corpurilor de rulmenți în scopul creșterii fiabilității rulmenților</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Susan Mihai, membru: Minea Alina Adriana</p>
<p>12. Contract de finanțare pentru executie proiecte nr. 905 / 19.09.2000 <i>Programul RELANSIN’</i> Categoriza de proiect: TM Denumirea proiectului: <i>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</i> Contractor: Universitatea Tehnică „Gh. Asachi” din Iași Director de proiect: Dima Adrian, membru: Minea Alina Adriana Valoarea proiectului: 85 000 lei (RON)</p>
<p>13. Contract de finanțare pentru executie proiecte nr. 1274/1996, act aditional nr. 433 din 11.06.1999 <i>Programul: ORIZONT 2000 / 11.1.2 – Tehnici, tehnologii conventionale și neconventionale în procese industriale</i> Tema B1 : <i>Cercetari privind obținerea țevilor cu pereți subțiri prin tragere la rece, cu activarea ultraacustică a ței port-dop și posibilitatea implementării noii tehnologii în industria țevilor</i> Faza unica 1999 : Stadiul actual, fundamentare teoretică și elemente de proiectare tehnologică Finanțare: MCT / ANSTI – 1999 Contractor: Universitatea Tehnică "Gheorghe Asachi" din Iasi Director de proiect : Dima Adrian, membru: Minea Alina Adriana Valoare faza unica 1999 : 4000 lei (RON)</p>

Proiecte internaționale, ca Responsabil partener:

1. Coordonator partea română pentru programul Erasmus IP cu Portugalia, Spania și Polonia (nr 2013-1-PT1-ERA10-16665).
2. Energy Efficiency in Buildings in Russia and Armenia – MARUEEB: 2015, Eramsus KA2_ Horizon 2020
3. Overcoming Barriers to Nanofluids Market Uptake (NANO-UPTAKE), membru în Management Committee și Dissemination Manager: 2016, COST_ Horizon 2020

L. Premii, distincții.

-anul 1989:

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

- anul 2008:

- Diploma de excelență și Medalia de Aur la 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.

- Medalia de argint la Salonul Archimed 2008, Moscova, Rusia, 1.04-4.04.2008 pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment.

- Diploma de excelență și Medalia de bronz 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.

- Medalia de aur la Salonul Internațional de la Sevastopol 2008 25-27 aug 2008, pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment

- Diploma de excelență și Medalia de argint la Salonul Internațional de la Sevastopol 2008 24-28 sept 2008, pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment

- Diploma de excelență și Medalia TESLA la Festivalul Internațional de Inovare, cunoastere și creație de la Novi Sad, 2008 oct 2008, pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment:

- Diploma de excelență și Medalia de bronz INVENTIKA 2008 la Salonul Internațional jubiliar al cercetării, invențiilor și transferului tehnologic INVENTIKA 2008 7-11 oct 2008, București pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment:
<http://www.mct.ro/index.php?action=viewart&artid=1885&idcat=641>

- Diploma de excelență pentru contribuția la stimularea și promovarea creativității și Medalia de bronz la Salon des innovations, des recherche et des nouvelles 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:

- anul 2009:

- Diploma de excelență și medalie de bronz la Expoziția Internațională INFOINVENT 24-27 nov 2009, Chișinău, Rep. Moldova, pentru invenția: Procedure for Heat transfer efficiency in classical electrical furnaces used for medium temperature heat treatment:

- Medalie de aur la 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

- anul 2010:

- Medalie de aur la Salonul Internațional de inventică “International salon of Inventions and new technologies NEW TIME”, Sevastopol, Ucraina (23-25 sept. 2010) pentru invenția: “Procedure for heat transfer enhancement in oval electrical furnaces used for medium temperature heat treatment”.

- anul 2011:

- Medalie de bronz la Salonul Internațional de inventică EUROINVENT (14 mai 2011) pentru invenția: “Procedure for heat transfer enhancement in oval electrical furnaces used for medium temperature heat treatment”.

- 2013

- Medalie de argint la Salonul internațional de inventică PROINVENT, 2013, Cluj Napoca pentru invenția “Procedure for heat transfer enhancement in oval electrical furnaces used for medium temperature heat treatment”

- BEST REVIEWER for 2012, Journal Applied Energy, ELSEVIER

-premiu CNCSIS pe articole:

1. CORRELATION BETWEEN ALUMINIUM ALLOYS PLASTICITY AND HEAT TREATING TECHNOLOGY:

http://www.cnscis.ro/PNCIDI%20II/Resursa%20umana/Premiere/Feb08/REZULTATE_PREMIERE_FEBRUARIE%202008.pdf

2. CFD SIMULATION IN AN OVAL FURNACE WITH VARIABLE RADIATION PANELS:

http://www.cnscis.ro/PNCIDI%20II/Resursa%20umana/Premiere/August08/REZULTATE_PREMIERE_AUGUST%202008.pdf

3. ANALYTICAL APPROACH TO ESTIMATE THE AIR FLOW RATE IN THE BOUNDARY LAYER OF A HEATED FURNACE WALL

http://www.cnscis.ro/PNCIDI%20II/Resursa%20umana/Premiere/August08/REZULTATE_PREMIERE_AUGUST%202008.pdf

4. REDUCING OXIDE LAYER ON ALCU2,5MG TREATED PARTS THROUGH IMPROVING HEAT TRANSFER

http://www.cnscis.ro/PNCIDI%20II/Resursa%20umana/Premiere/August08/REZULTATE_PREMIERE_AUGUST%202008.pdf

5. SAVING ENERGY THROUGH IMPROVING CONVECTION IN A CLASSIC HEAT TREATMENT FURNACE

http://www.cnscis.ro/PNCIDI%20II/Resursa%20umana/Premiere/Oct08/REZULTATE_PREMIERE_OCTOMBRIE_2008.pdf

6. STUDIES ON HEAT TREATMENT OF AN ALCU4MG1 ALLOY

http://www.cnscis.ro/PNCIDI%20II/Resursa%20umana/Premiere/Oct08/REZULTATE_PREMIERE_OCTOMBRIE_2008.pdf

7. EXPERIMENTAL TECHNIQUE FOR SAVING ENERGY IN OVAL FURNACES

[http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE\(1\).pdf](http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE(1).pdf)

8. TECHNIQUES FOR INTENSIFYING HEAT TRANSFER: FROM BASICS TO NANOFUIDS

[http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE\(1\).pdf](http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE(1).pdf)

9. ACTIVE TECHNIQUES FOR IMPROVING HEAT TRANSFER

[http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE\(1\).pdf](http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE(1).pdf)

10. STUDIES ON A COST-EFFICIENT TECHNIQUE FOR INCREASING FURNACES ENERGY EFFICIENCY. ENVIRONMENTAL ASPECTS

[http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE\(1\).pdf](http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/REZULTATE_CUMULATE_ETAPA_II%20-8_IUNIE(1).pdf)

11. ANALYSIS AND FORECASTING OF NONRESIDENTIAL ELECTRICITY CONSUMPTION IN ROMANIA

[http://cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202010/ARTICOLE%202010_15%20OCTOMBRIE%20\(Autosaved\)4martie.pdf](http://cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202010/ARTICOLE%202010_15%20OCTOMBRIE%20(Autosaved)4martie.pdf)

12. INVESTIGATIONS ON ELECTRICAL CONDUCTIVITY OF STABILIZED WATER - AL₂O₃ NANOFUIDS

http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/articole%202012/rezultate%20noiembrie%202012.pdf

13. Electrical and Rheological Behavior Of Stabilized Al₂O₃ Nanofluids, http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202013/LISTA%202%20REACTUALIZATA%2018%20DECEMBRIE%20CAROLINA.pdf

14. Effect of microtube length on heat transfer enhancement of an water/Al₂O₃ nanofluid at high Reynolds numbers,

http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202013/LISTA%202%20REACTUALIZATA%2018%20DECEMBRIE%20CAROLINA.pdf

15. Uncertainties in modeling thermal conductivity of laminar forced convection heat transfer with water alumina nanofluids

[http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202014/Lista%201_REZULTATE%20-%20ACTUALIZATA\(1\).pdf](http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202014/Lista%201_REZULTATE%20-%20ACTUALIZATA(1).pdf)

16. Simulation of Nanofluids Turbulent Forced Convection at High Reynolds Number: A Comparison Study of Thermophysical Properties Influence on Heat Transfer Enhancement

http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate%20evaluare_lista%201_12_11_2015.pdf

17. Numerical studies on heat transfer enhancement in different closed enclosures heated symmetrically

http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate%20evaluare_lista%201_12_11_2015.pdf

18. A REVIEW ON ANALYTICAL TECHNIQUES FOR NATURAL CONVECTION INVESTIGATION IN A HEATED CLOSED ENCLOSURE Case Study

http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate%20evaluare_lista%201_12_11_2015.pdf

19. Numerical studies on heat transfer enhancement and synergy analysis on few metal oxide water based nanofluids

http://uefiscdi.gov.ro/userfiles/file/PREMIERE_ARTICOLE/ARTICOLE%202015/REZULTATE/Rezultate%20evaluare_lista%201_12_11_2015.pdf

20. Challenges in hybrid nanofluids behavior in turbulent flow: Recent research and numerical comparison <https://uefiscdi.ro/premierea-rezultatelor-cercetarii-articole>

21. Hybrid nanofluids based on Al₂O₃, TiO₂ and SiO₂: numerical evaluation of different approaches

<https://uefiscdi.ro/premierea-rezultatelor-cercetarii-articole>

22. A numerical study on ZnO based nanofluids behavior on natural convection

<https://uefiscdi.ro/premierea-rezultatelor-cercetarii-articole>

-premiu CNCSIS pe brevete:

1. PROCEDEU DE EFICIENTIZARE A PROCESELOR DE TRANSFER TERMIC IN CADRUL CUPTOARELOR ELECTRICE CLASICE

http://www.cnscis.ro/userfiles/file/PREMIERE_ARTICOLE/BREVETE%202009/REZULTATE_BREVETE_ETAPA%20III_2009.pdf

- 2016:

- Excellence prize for research and “Gh. Asachi” medal for research activities, offered by Technical University of Iasi, Romania

- 2017

- BEST REVIEWER for 2016, Journal Applied Energy, ELSEVIER

M. Alte realizări semnificative.

Membru în Editorial Board,

- membru in Editorial Board International Journal of Green Technology,

<https://ijgtech.com/editorial-board/>

- Membru în Editorial Board ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, Fascicle XII, WELDING EQUIPMENT AND TECHNOLOGY:

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

- Membru în Regional Editorial Board Journal of Thermal Sciences:

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

- Editor in chief IREHeat: <http://www.praiseworthyprize.com/ireheat.htm>

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

http://www.praiseworthyprize.com/special_issues.htm

- Editor-in-chief International Journal of Metallurgical Engineering from 2012:

<http://www.sapub.org/journal/editorialboard.aspx?JournalID=1063>

- Editorial Board MEHTA Press: Journal of Engineering, from 2010:

<http://www.mehtapress.com/joe-editorial.html>

- Editorial Board International Scientific Press: Journal of Computations and Modeling, from 2010:

http://www.scienpress.com/journals/jcm/jcm_editorial.html

- Editorial Board Journal of Metallurgical Engineering:

<http://www.me-journal.org/EditorialBoard.aspx>

- Editorial Board International Journal of Advanced Thermofluid Research (IJATR):

http://ijatr.org/index.php?option=com_content&view=article&id=19&Itemid=63

- Editorial Board British Journal of Engineering and Technology (BJET), from 2012:

<http://www.bjet.baar.org.uk/Editorial-Board.html>

- Editorial Board International Journal of Energy and Environment from 2012:

<http://www.naun.org/wseas/cms.action?id=3043>

- Editorial Board International Journal of Mechanics from 2012:

<http://www.naun.org/wseas/cms.action?id=2828>

- Editorial Board American Journal of Energy Engineering from 2013:

<http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=168>

- Editorial Board American Journal of Heat and Mass Transfer from 2013:

<http://ajhmt.uscip.us/EditorialBoard.aspx>

- Membru Editorial Board Hindawi: Advances in Mathematical Physics, Special issue
Micro/Nanoscale Fluid Flow and Heat transfer în 2014-2015:

<http://mts.hindawi.com/guest.editor/journals/amp/mina/>

Chairman la evenimentele internaționale:

- 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
- chairman session A3: Heat transport technology, Conference ISTP26, september 2015, Leoben, Austria: 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
- chairman Session E: Physical & Mechanical Metallurgy. Materials, Conference ICM 2016, Sofia, Bulgaria, <http://icm2016.com/conference/program/>
- chairman Conference of PHD School, Technical University “Gh. Asachi” Iasi

Organizator al evenimentelor internaționale:

2010: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO: <http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

2012: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO, 2-nd edition: <http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

2014: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO, 3-rd edition: <http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

2016: Summer School on ADVANCES IN HEAT TRANSFER ENHANCEMENT: FROM BASIC TO NANO, 4-th edition: <http://www12.tuiasi.ro/facultati/sim/index.php?page=413>

Membru în International Committee la diferite conferințe

- SOLARIS 2011: <http://www.fce.vutbr.cz/pst/solaris/committee.html>

- SUSTEM 2011:

http://research.ncl.ac.uk/pro-tem/components/pdfs/SusTEM_proceedings/SusTEM2011_proceedings.pdf

- 10th IASME/WSEAS International Conference on FLUID MECHANICS & AERODYNAMICS (FMA '12), Istanbul, Turkey: <http://www.wseas.org/cms.action?id=1362>
- 10th IASME/WSEAS International Conference on HEAT TRANSFER, THERMAL ENGINEERING and ENVIRONMENT (HTE '12), Istanbul, Turkey: <http://www.wseas.org/cms.action?id=901>
- 5th WSEAS International Conference on Manufacturing Engineering, Quality and Production Systems (MEQAPS '12), Vienna, Austria: <http://www.wseas.org/cms.action?id=1125>
- 8th WSEAS International Conference on Applied and Theoretical Mechanics (MECHANICS '12), Montreux, Switzerland: <http://www.wseas.org/cms.action?id=556>
- 10th WSEAS International Conference on Environment, Ecosystems and Development (EED '12), Montreux, Switzerland: <http://www.wseas.org/cms.action?id=627>
- 7th IASME/WSEAS International Conference on WATER RESOURCES, HYDRAULICS & HYDROLOGY (WHH '12), Kos, Greece: <http://www.wseas.org/cms.action?id=1759>
- 3rd European Conference of Mechanical Engineering Paris, France - ECME '12 : <http://www.naun.org/cms.action?id=980>
- 3rd European Conference of Control, Paris, France - ECC '12: <http://www.naun.org/cms.action?id=399>
- 5th WSEAS International Conference on FINITE DIFFERENCES - FINITE ELEMENTS - FINITE VOLUMES - BOUNDARY ELEMENTS (F-and-B '12) WSEAS Praga 2012: <http://www.wseas.us/conferences/2012/prague/f-and-b/#committee>
- 11th WSEAS International Conference on Fluid Mechanics & Aerodynamics, FMA 2013, Vouliagmeni, Athens, Greece, <http://www.wseas.org/cms.action?id=2498>
- 11th WSEAS International Conference on Environment, Ecosystems and Development, EED 2013, Brasov, Romania: <http://www.wseas.org/cms.action?id=3794>
- 1st International Conference on Computational and Experimental Mechanics, CEM 2013, Dubrovnik, Croatia: <http://naun.org/cms.action?id=4215>
- 6th WSEAS International Conference on Manufacturing Engineering, Quality and Production Systems, Brasov, Romania - MEQAPS '13: <http://www.wseas.org/cms.action?id=3694>
- 7th WSEAS International Conference on CIRCUITS, SYSTEMS, SIGNAL and TELECOMMUNICATIONS, CSST 2013, Milan, Italy: <http://www.wseas.org/cms.action?id=329>
- 13th WSEAS International Conference on Multimedia Systems & Signal Processing, Kuala Lumpur - MUSP '13: <http://www.wseas.org/cms.action?id=3356>
- 9th WSEAS International Conference on Energy, Environment, Ecosystems and Sustainable Development Lemesos - EEESD '13: <http://www.wseas.org/cms.action?id=3053>
- 1st WSEAS International Conference on Industrial and Manufacturing Technologies Vouliagmeni - INMAT '13: <http://www.wseas.org/cms.action?id=2611>
- 1st WSEAS International Conference on Aeronautical and Mechanical Engineering, Vouliagmeni - AEME '13: <http://www.wseas.org/cms.action?id=2645>

- 11th WSEAS International Conference on Heat Transfer, Thermal Engineering and Environment Vouliagmeni - HTE '13: <http://www.wseas.org/cms.action?id=2543>
- 2nd International Conference on Networks and Systems for Communications, Education and Data Processing, Iwate - NSCED '13: <http://naun.org/cms.action?id=2998>
- 2nd International Conference on Applied Manufacturing, Commerce, Tourism and Services, Baltimore - MCTS '13: <http://naun.org/cms.action?id=5244>
- 1st WSEAS International Conference on Mechanical and Robotics Engineering Vouliagmeni - MREN '13: <http://www.wseas.org/cms.action?id=2628>
- 1st International Conference on Computational Science and Engineering, Valencia - CSE '13: <http://naun.org/cms.action?id=5108>
- 4th International Conference on Fluid Mechanics and Heat & Mass Transfer, Dubrovnik - FLUIDSHEAT '13: <http://naun.org/cms.action?id=4261>
- 4th International Conference on Theoretical and Applied Mechanics, Cambridge, USA - TAM '13: <http://www.naun.org/cms.action?id=2199>
- 1st International Conference on Monitoring and Management of Air Pollution Rhodes - MMAP '13: <http://naun.org/cms.action?id=4556>
- 2013 Winter International Conference of Mining and Metallurgical Engineering (WICMME2013), December 2013, Sanya, China: <http://www.wicmme.org/Organizing.aspx>
- Conference IManE 2014, 27-30 May 2014, Chisineu, Moldavia: <http://www.imane.ro/conference-committees/>
- 5th International Conference on Fluid Mechanics and Heat & Mass Transfer, Lisbon, Fluidsheat 2014: <http://naun.org/cms.action?id=7823>
- 2nd International Conference on Computational and Experimental Mechanics, Florence, CEM 2014, <http://naun.org/cms.action?id=8043>
- 12th International Conference on Heat Transfer, Thermal Engineering and Environment, Geneva, THE 2014: <http://wseas.org/cms.action?id=8446>
- 12th International Conference on Fluid Mechanics & Aerodynamics, Geneva, FMA 2014: <http://www.wseas.org/cms.action?id=8427>
- International Conference on Computer and Systems Engineering Applications, CCSE 2014, 25-26 april Dubai: <http://conferences.standard.org/dubai/ccse/com.html>
- Conference IManE 2015, 21-22 May 2015, Iasi, Romania: <http://www.imane.ro/conference-committees/>
- International conference TEME 2015, Galati, Romania: <http://www.teme.ugal.ro/committee.html>
- ISTP 26, Leoben, Austria: <http://www.istp26.at/en/organizing-committee/>
- SUSTEM 2015, Newcastle, UK: <http://research.ncl.ac.uk/sustem/sustem2015conference/scientificcommittee/>
- 2015 International Conference on Systems Engineering and Computational Advances, 29-30 may 2015, China: <http://icseca.aconf.org/en-us/committee.html>

- HTE '15: 13th International Conference on Heat Transfer, Thermal Engineering and Environment, Salerno Italy, <http://www.wseas.org/cms.action?id=9759>
- FMA '15, 13th International Conference on Fluid Mechanics & Aerodynamics, Salerno, Italy, <http://wseas.org/cms.action?id=9604>
- Rome - CM '15, 9th International Conference on Continuum Mechanics, Italy, <http://www.wseas.org/cms.action?id=10141>
- Budapest - FLUIDS '15, 11th International Conference on Fluid Mechanics, <http://wseas.org/cms.action?id=10586>
- Budapest - HMT '15, 11th International Conference on Heat and Mass Transfer, <http://www.wseas.org/cms.action?id=10600>
- 2015 International Conference on Power, Energy Engineering and Management (PEEM2015) December 20-21, 2015, Phuket, Thailand: <http://www.peem2015.org/com.htm>
- Budapest - EE '15, 10th International Conference on Energy & Environment <http://www.wseas.org/cms.action?id=10628>
- 7th international conference on fluid mechanics and heat & mass transfer, Praga, 2016: <http://naun.org/cms.action?id=11302>
- IMANE 2016, September 23-25, 2016 Kallithea Chalkidiki, Greece: <http://www.imane.ro/conference-committees/>
- 14th International Conference on Fluid Mechanics & Aerodynamics (FMA '16), Indonesia 2016: <http://wseas.org/cms.action?id=11592>
- 14th International Conference on Heat Transfer, Thermal Engineering and Environment (HTE '16), Indonesia: <http://www.wseas.org/cms.action?id=11606>
- 7 th edition of INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE & ENGINEERING, UgalMat 2016, MAY 19 - 21, 2016, GALATI, ROMANIA: <http://www.ugalmat.ugal.ro/>
- IMEIA 2016 Phuket, Thailand, 24-25 aprilie 2016: <http://www.imeia2016.org/pub.htm>
- ECTE 2016, Thailand 28-29 august, 2016: <http://www.ecte2016.org/com.htm>
- The International Conference on Metallurgy & Materials (ICMM'16), Sofia, September 26 – 28, 2016: <http://icmm2016.com/organizers/conference-committee/>
- 11th European Conference on Industrial Furnaces and Boilers, Portugal, 18-21 April 2017: <http://infub.pt/geral/paginas.aspx?cod=105>
- The 7th International Symposium on Advances in Computational Heat Transfer, CHT-17, Napoli, Italy, during 28 May - 02 June 2017, <http://ichmt.org/site/4/cht-17>

- The 2017 International Conference on Advanced Technologies Enhancing Education (ICAT2E2017), which will be held on March 18-20, 2017 in Qingdao, China, <https://icat2e.jimdo.com/>
- The 21th edition of IManEE 2017 International Conference, May 25-26, 2017 Iasi, Romania: <http://www.imane.ro/committees/>
- TEME 2017: New trends in environmental and materials engineering, Galati, ROMANIA, 25-27 october: <http://www.teme.ugal.ro/committee.php>
- European Symposium on Nanofluids (ESNf) Lisbon, Portugal, 8-10 October 2017, <http://esnf2017.campus.ciencias.ulisboa.pt/committees/>
- ICPM 2017: 9TH International congress on precision machining, 6 - 9 september 2017, Athens, Greece: <http://www.icpm2017.gr/#committees>
- Venice - FLUIDSHEAT '17: 8th International Conference on Fluid Mechanics and Heat & Mass Transfer (FLUIDSHEAT '17), <http://wseas.org/cms.action?id=14174>
- TUIasi, First conference of Doctoral Schools, mai 2017, Iasi, Romania
- INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE, 5 - 7 OCTOBER, 2017 / ANKARA – TURKEY: <http://ancongress.com/main/c/20172/en>
- 2nd Renewable Energy Sources - Research and Business (RESRB) 2017 conference, June 19-21, Wrocław, Poland: https://works.bepress.com/wojciech_budzianowski/46/
- International Conference on Energy Management and Environmental Protection, Belek, Antalya, Turkey in February 1-4, 2018: <http://www.icemep.org/committees.html>
- First International Conference on Energy Systems Engineering, (ICESE'17) 2017, Turcia, november 2017, <http://icese17.com/22-2/>
- 13th International Conference on Heat and Mass Transfer (HMT '17), in Rome 2017, 15-17 decembrie: <http://wseas.org/cms.action?id=15615>

- ***reviewer pentru programe de cercetare:***
- reviewer CNCSIS din 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 for ARACIS (national agency for quality in academia)
- reviewer ARACIS, internal programme.
- expert EACI-IEE for Intelligent Energy Europe
- expert programme Fp7, HORIZON 2020

- expert HORIZON 2020, in aprilie-mai 2014, competition H2020-EE
- raporteur HORIZON 2020, in aprilie-mai 2014, competition H2020-EE
- expert HORIZON 2020, in octombrie 2014, competition H2020-LCE
- raporteur 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
- raporteur HORIZON 2020, in 2016, competition H2020
- expert NCRB Poland in martie 2017
- expert UEFISCDI, programe PD si TE, 2017
- expert EUROSTARS, programe CDI in 2017: 3 proiecte
- expert Kazakhstan Ministry of Research, 2017

- *reviewer pentru lucrări:*

- reviewer pentru reviste de prestigiu: 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 conferințe internaționale: de ex.: 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)

- *coordonator Erasmus și Erasmus+:*

- Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și Seconda Universita degli Studi di Napoli, Italia
- Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și MontainUniversitat Leoben, Austria
- Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Beira Interior, Portugalia

- Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și UCTM, Bulgaria
- Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Poitiers, Franta
- Responsabil acord interuniversitar ERASMUS/ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și Technical University of Athens, Grecia
- Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Lisbon, Portugalia
- Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și University of Parma, Italia
- Responsabil acord interuniversitar ERASMUS+ între Universitatea Tehnică Gheorghe Asachi din Iasi și Technologiko Ekpaideftiko Idryma (TEI) of Sterea Ellada, Grecia
- Coordonator partea română pentru programul Erasmus IP cu Portugalia, Spania și Polonia (nr 2013-1-PT1-ERA10-16665).

- *Invited Key speaker:*

- Invited speaker pentru HTE Conference, Moscow, 2009:
<http://www.wseas.org/conferences/2009/russia/hte/Plenary3.htm>
 - Invited speaker pentru TEHNOMUS 2013, Suceava, Romania:
http://www.fim.usv.ro/conf_1/TEHNOMUS/
 - Invited speaker pentru Conference IManE 2014, 27-30 May 2014, Chisnew, Moldavia:
<http://www.imane.ro/conference-program/>
 - Invited speaker pentru Summer school in Composite Materials in Portugalia in: 2012, 2013, 2014.
 - Invited speaker pentru Conference ISTP 26, Austria, 27.09 – 1.10 2015: <http://www.istp26.at/en/1/>
 - Invited speaker pentru INTERNATIONAL CONFERENCE ON MATERIAL SCIENCE & ENGINEERING, UgalMat 2016, MAY 19 - 21, 2016, GALATI, ROMANIA:
<http://www.ugalmat.ugal.ro/>
 - Invited speaker pentru 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
- *Altele:***
- membru comisie de doctorat: București 2007
 - membru concurs internațional pentru poziția de conferențiar la SDK, Danemarca, în 2014

- membru diferite comisii în învățământul preuniversitar și universitar (licența, master, concursuri posturi didactice, evaluări interne, consiliu facultate) din 2010
- membru comisii susținere referate și proiecte de cercetare științifică în cadrul programului de Studii Doctorale din 2010.
- membru registrul național de evaluatori ARACIS:
<http://pfe.aracis.ro/inscriere/registru/evaluator/233/>
- nominalizata printre cei 10 finaliști GALA PREMIILOR IN EDUCATIE 2010 si 2011, CATEGORIA INVATAMANT UNIVERSITAR, SECTIUNEA PROFESORUL ANULUI:
http://www.premiileineducatie.ro/resources/files/1286980566profesor_universitar.pdf
- Președinte al comisiei de doctorat pentru diferite sustineri de teze in cadrul Scolii Doctorale SD-SIM
- Membru Advisory Board TEST (www.thermofluids.net), web based courseware
- member as Committee for a PhD thesis in India, 2017.
- member as Committee for a PhD thesis in France, Lyon, 2018.

Data,
14.10.2017

* Conform H.G. 1175/ 2006