

Scientific Activity

➤ Published papers

1. **C. Bendrea** , V. Munteanu – *Thermal Analysis of an Elastic-Viscoplastic Unilateral Contact Problem in the Continuous Casting of the Steel*, Metalurgia International, (ISI), Vol XIV (2009), No 5, p. 72, (http://www.metalurgia.ro/metalurgia_int.html)
2. **C. Bendrea** , V. Munteanu – *A Thermoelastic unilateral Contact Problem with damage and wear in Solidification Processes Modeling*, Metalurgia International , (ISI), Vol XIV (2009), No 5, p. 83, (http://www.metalurgia.ro/metalurgia_int.html)
3. **C. Bendrea** - *Thermal and Wear analysis of a Elasto-vascoplastic unilateral Contact Problem in the Continuous Casting of the Steels*, Contract CEEEX 05-D11-84/28.10.2005, Rap cerc. faza IV (2008), (CNCSIS)
4. **C. Bendrea** - *Tribological study of Thermo-elasto-vascoplastic Frictional Contact Problems in the secondary cooling zone of the Continuous Casting* Contract CEEEX 05-D11-84/28.10.2005, Rap cerc. faza III (2007), (CNCSIS)
5. **C. Bendrea** - *Thermomechanical and power aspects of the slab-rolls contact in the continuous Casting of the steels*, Contract CEEEX 05-D11-84/28.10.2005, Rap cerc. faza II (2006), (CNCSIS)
6. **C. Bendrea** - *Elaborarea unui tribomodel de studiu a proceselor de solidificare la turnarea continuă a oțelurilor*, Contract CEEEX 05-D11-84/28.10.2005, Rap cerc. faza I (2005), (CNCSIS)
7. **C. Bendrea**, I. Crudu - *On the Stability and Sensibility of Sliding Tribosystems*, Analele Univ.Tehnice “Gh. Asachi”- Iasi, fasc. 6, Tom L(IV), p.113, 2004, (CNCSIS)
8. **C. Bendrea**, I. Crudu, M. Râpă - *Contributions to study wear processes of the rolling tribosystems, using the model of the differential-functional equations with delay*, Proceed. 8th Int Conf on Tribology, 3rd-4th june, 2004 Veszprem (Hungary), pag.185-193, (BDI)
9. **C. Bendrea** - *An infinite-delay equation in a Hilbert space*, Sesiunea Nat Com St, 28-30 mai, 2004, Univ. “Dunărea de Jos”, (CNCSIS)
10. **C. Bendrea** - *Existence of solutions of the Darboux problem for partial differential-functional equations with infinite delay in a Banach space*, Analele Univ. “Dunărea de Jos”, fasc. II, Tom XXI, ISSN 1221-4531, p. 39, 2003, (CNCSIS)
11. **C. Bendrea** - *A generalized Hamilton-Jacobi-Bellman equation*, Analele Univ. “Dunărea de Jos”, fasc. II, Tom XVI, vol.I, ISSN 1221-4531, p. 67, 1998, (CNCSIS)
12. **C. Bendrea** - *Soluții aproape periodice in probabilitate pentru ecuații diferențiale cu parametri aleatori*, Analele Univ. “Dunărea de Jos”, fasc. I, Tom XI, ISSN 1221-4531, p.83, 1997, (CNCSIS)
13. **C. Bendrea** - *The Ito equation and a general stochastic model for dinamical systems*, Analele Univ. “Dunărea de Jos”, fasc. II, Tom XIV, p.37, ISSN 1221-4531, 1996, (CNCSIS)
14. **C. Bendrea** - *O problemă de evoluție. Aplicație in optimizarea sistemelor dinamice cu parametru distribuit*, Simpozion International “ Riscul in economia contemporană”, Univ. “Dunărea de Jos”, mai 1995, (CNCSIS)
15. **C. Bendrea** - *The Hadamard variational formula*, Analele Univ. “Dunărea de Jos”, fasc. IIIA, Tom VI, ISSN 1221-4531, p.17, 1994, (CNCSIS)
16. **C. Bendrea** - *Metodă elementară pentru definirea procesului Poisson*, Analele Univ. “Dunărea de Jos”, fasc. IIB, Tom VII, ISSN 1221-4531, p.53, 1993, (CNCSIS)

➤ **Published books**

1. **C. Bendrea** – *Differential and integral Equations*, ISBN 973-30-1685-3 (234 pag.), Editura Didactică și Pedagogică, București, **2004**
2. **C. Bendrea** – *Differential Equations*, ISBN 973-0-02478-2 (240 pag.), Editura ELCO, Galați, **2001**
3. **C. Bendrea** – *Probabilities Theory and Matematical Statistics* (vol. I+II), (manuscript, to appear)
4. **C. Bendrea** – *Applications in Probabilities Theory and Matematical Statistics* (manuscript, to appear)
5. **C. Bendrea** – *Formal Languages and Automata Theory* (manuscript, to appear)

➤ **Oral presentations**

1. V. Munteanu, **C. Bendrea** – *Thermal Analysis of an Elastic-Viscoplastic Unilateral Contact Problem in the Continuous Casting of the Steel*, ICASP-2, Seggau Castle Graz, Austria, 17-20 june **2008**, pp. 8,
(http://berkeleck.googlepages.com/ICASP-2_programme.pdf)
2. **C. Bendrea** -*Sistemul tranziției de fază pentru problema de contact termo-elasto-vascoplastic asociată procesului de solidificare*, Workshop CEEEX 05-D11-84, Univ. “Dunărea de Jos “- Galați, iunie **2007**
3. **C. Bendrea** - *Probleme de contact unilateral termo-elasto-vascoplastic specifice procesului de solidificare*, Workshop CEEEX 05-D11-84, Univ. “Dunărea de Jos “-Galați, iunie **2007**
4. **C. Bendrea** - *Probleme de contact specifice procesului de solidificare. Disiparea energiei de contact* , Workshop CEEEX 05-D11-84, Univ. “Al. I. Cuza “-Iași, septembrie **2006**
5. **C. Bendrea** -*Metode numerice pentru rezolvarea problemelor de contact elastic punctiform*, Univ. “Al. I. Cuza “-Iași, referat doctorat, **2006**
6. **C. Bendrea** - *Metode matematice specifice proceselor de uzură. Probleme de contact cu legi de frecare si uzură*, Univ. “Al. I. Cuza “-Iași, referat doctorat, **2006**
7. **C. Bendrea** - *Formularia variațională a problemelor de contact elastic hertzian punctiform*, Univ. “Dunărea de Jos“-Galați, referat doctorat, **2005**
8. **C. Bendrea** - *Sensibilitatea sistemelor dinamice*, Univ. “Al. I. Cuza “-Iași, referat doctorat, **1998**
9. **C. Bendrea** - *Metoda lui Fourier în studiul problemelor variaționale la limită*, Univ. “Al. I. Cuza “-Iași, referat doctorat, **1997**

➤ **Posters**

1. **C. Bendrea**, I. Crudu, V. Munteanu – *A Thermoelastic unilateral Contact Problem with damage and wear*, ICASP-2, Graz, Austria, 17-20 june **2008**, (pp. 56)
(http://berkeleck.googlepages.com/ICASP-2_programme.pdf)
2. I. Crudu, C. Teletin, **C. Bendrea**, C. Spânu, C. Gheorghies - *A tribological model for steel continuous casting equipment* – 6th European Conference on Continuous Casting, Riccione (Venice), Italy, 3-6 june **2008**
(<http://www.aimnet.it/allpdf/6ECCC.pdf>)