Activitati si rezultate in etapa I-a, 2009.

a) **Participari la conferinte internationale, cu prezentari.**

1) S. Cleja-Tigoiu, Int. Symp. On Defect and Materials Mechanics, Trento Italia, 6-9 July 2009
2) S. Cleja-Tigoiu, Int. Conference on Computational Plasticity, Barcelona, Spain, 2-5 Sept. 2009,
3) S. Cleja-Tigoiu, V. Tigoiu, EUROMECH Solid Mechanics Conference, Lisbon, Portugal, 7-11 Sept. 2009
4) L. Marin, EUROMECH Solid Mechanics Conference, Lisbon, Portugal, 7-11 Sept. 2009
5) L. Marin, Int. Conference on Boundary Element Techniques, Athens, Greece, 21-24 July, 2009
6) V.Tigoiu, C.Cipu, New Trends in Complex Fluids Modeling Int. Conference, Bran, Romania, 18-21 Juin, 2009
7) S. Cleja-Tigoiu, V. Tigoiu, New Trends in Comlex Fluids Modeling Int. Conference, Bran, Romania, 18-21 Juin, 2009

b) **Documentare tineri cercetatori**
Lidia Iancu, Raisa Tichisan, stagiu de cercetare doctorala, la CNRS - Laboratoire de Mecanique et Acoustique, Marsilia, Franta, in perioda 29 iunie-12 iulie 2009.

c) **Articole ISI (aparute sau cu acordul de aparitie)**

1. L. Marin, Boundary reconstruction in two dimentional functional graded materials using a regularized MFS, Computer Mode-ling in Engeneering & Sciences 46(3), 2009, 221-253.
2. 2. S. Cleja-Tigoiu, V. Tigoiu, Strain gradient effect in finite elasto-plastic damaged materials, Int. J. of Damage Mechanics (la invitatia editorilor numarului)
3. 3. L. Marin, A meshless method for the stable solution of singular invers problem for two-dimensional Helmholtz-type equations, En-gineering Analysis with Boundary Elements, doi:10.1016/j.enganabound.2009.03.009
4. 4. L. Marin,Treatment of singularities in the method of fundamental solutions for two-dimentional Helmholtz equations, Applied Mathematical Modelling, doi:10.1016/j.apm.2009.09.009

d) **Articole aparute in reviste/proceedings-uri de conferinte internationale recunoscute in baze de date internationale.**

1. S. Cleja-Tigoiu, V. Tigoiu, Strain gradient effect on elasto-plastic damaged materials at large deformations, Proceedings of 7-th EUROMECH Solid Mechanics Conference (eds. J.Ambrosio and M. da Silva), APM!AC 2009, 153-154, ISBN: 978-989-96264-2-3.

2. S. Cleja-Tigoiu, Non-local approach to finite elasto-plastic materials with damaged struc-ture, Comput. Plasticity X, Funda-mental and Applications (eds. E.Onate and D.R.J.Owen), 2009, Deposito legal: B-35149-2009, pp. 1-4, ISBN: 978-84-96736-69-6

3. S.Cleja-Tigoiu, V.Tigoiu, An elasto-visco-plastic model for complex fluids, New Trends in Complex Fluids Modeling, Proceed. of CFM 2009 Int. Conference (eds. C.Balan, D.Broboana, R.K.Kadar, C.M.Balan), Ed.Politechnica Press ,42-44, ISBN:2066-5790.

4. L.Marin, Minimal error-boundary element solution to invers boundary value problems in two-dimentional linear elasticity, Advances in Boundary Element Techniques X: Int Conf. on BET X (eds.E.J.Sapountzakis and M.H.Aliabadi), ECLtd UK, 2009, 353-358

5. V.Tigoiu, C.Cipu, Flow in a Falling Cylinder Viscometer and Determination of Shear Viscosity, New Trends in Complex Fluids Modeling Proc. of CFM 2009 Int. Conference (eds. C.Balan, D.Broboana, R.K.Kadar), Ed.PolitechnicaPress, 2009, 45-47.