

## Lista de lucrari stiintifice

Candidat \_\_Lucian Constantin Stefan\_\_, înscris la concursul pentru ocuparea postului de \_\_Sef de lucrari\_\_ la Facultatea \_\_Constructii\_\_ Departament \_\_Mecanica Constructiilor\_\_, poziția \_\_30\_\_

### Articole in reviste si conferinte

1. Stefan, L. and Léger, P. Elastic Sectional Stress Analysis of Variable Section Piers Subjected to Three-dimensional Loads, Computers and Structures, 90-91, 28-41, 2012
2. Stefan, L. and Léger, P. Three-dimensional Hydromechanical Sectional Analysis of Cracked non Prismatic Concrete Spillway Piers, Journal of Structural Engineering, 138(11), 1310-1320, 2012
3. Léger, P., Stefan, L., Leclerc, M. Numerical modeling strategies for safety assessment and rehabilitation of concrete dams , International Conference: Numerical Modeling. Strategies for Sustainable Concrete Structures (SSCS), Aix en Provence, France, 2012.
4. Stefan, L. et Léger, P. Stabilité structurale 3D des piliers d'évacuateur de crues : une approche basée sur l'analyse sectionnelle, CEISCE (Centre d'études interuniversitaires des structures sous charges extrêmes) Conférence Annuelle, Sherbrooke, Canada, 2011
5. Stefan, L. et Léger, P. Cracked Section Analysis of Spillway Piers Including Passive Reinforcement, American Concrete Institute Fall 2010 Convention, Technical Session, Pittsburgh, U.S.A., 2010
6. Stefan, L. et Léger, P. Cracked Section Analysis of Spillway Piers Including Passive Reinforcement - Integrated Approach, CEISCE (Centre d'études interuniversitaires des structures sous charges extrêmes) Conférence Annuelle, Sherbrooke, Canada, 2010
7. Stefan, L. and Léger, P. Multi-criteria Capacity Envelopes for Biaxial Bending of Concrete Hydraulic Structures, Journal of Structural Engineering, 136(9), 1035-1043, 2010
8. Stefan, L., and Léger, P. Cracked Section Analysis of Gravity Dams including Passive Reinforcement and Uplift Pressures, Canadian Dam Association Annual Conference, Niagara Falls, Ontario, Canada, 2010
9. Melo, C., Stefan, L., Léger, P., Pedroso, L., and Bouaanani, N. Seismic Safety Evaluation of Gated Spillways: Modeling Hydrodynamic Pressures on Gates, 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto, Ontario, Canada, 2010
10. Stefan, L., Limoges, A., and Léger, P. Three-dimensional Seismic Stability Evaluation of Spillway Structures considering Concrete Cracking, Canadian Dam Association Annual Conference, Winnipeg, Canada, 2008

11. Stefan, L. and Léger, P. An Extension of the Gravity Method for 3D Cracking Analysis of Spillway Piers including Uplift Pressures, *Journal of Structural Engineering*, 134(8), 1278-1287, 2008
12. Stefan, L., Limoges, A., et Léger, P. Stabilité structurale des évacuateurs de crues en béton, CEISCE (Centre d'études interuniversitaires des structures sous charges extrêmes) Conférence Annuelle, Sherbrooke, Canada, 2008
13. Catarig, A., Stefan, L. Fracture mechanics as design science. *Acta Technica Napocensis*, L'Université Technique de Cluj-Napoca, Roumanie, no. 42, pp. 1-8, 1999
14. Stefan, L., Petrina, T. Computers in civil engineering. *Proceedings of the International Conference "Constructions 2003"*, Cluj-Napoca, 16-17 May 2003, v. 2, pp. 275-280, 2003
15. Pantel, E., Stefan, I., Crisan, B.I., Stefan, L. Spaces for academic use obtained by structural reshaping of an existing cinema building - structural problems. *Proceedings of the International Conference "Constructions 2003"*, Cluj-Napoca, 16-17 May 2003, v. 1, pp. 175-182, 2003
16. Pacurar, V., Balc, R., Stefan, L. (2003) The effect of the frame joint stiffness on the steel frame structures. *Proceedings of the International Conference "Constructions 2003"*, Cluj-Napoca, 16-17 May 2003, v. 2, pp. 397-402, 2003
17. Alexa, P., Catarig, A., Pantel, E., Ioani, A., Kopenetz, L.G., Stefan, L. (2003) Continuity and perennality in structural engineering. *Proceedings of the International Conference "Constructions 2003"*, Cluj-Napoca, 16-17 May 2003, v. 3, pp. 1-18, 2003

#### **Proiecte, studii, teze si dizertatii**

1. Stefan, L. Constitutive hydromechanical three-dimensional model for stability analysis of spillway piers. Ph.D. thesis, École Polytechnique de Montréal, (in French), 2011
2. Léger, P. and Stefan, L. Structural Stability Evaluation of a Small Concrete Spillway Pier with Passive Anchors. Case study, technical report prepared for the Centre d'expertise hydrique du Québec, Canada, 2010
3. Stefan, L. A three-dimensional extension of the gravity method for cracking analysis of spillway piers including uplift pressures, M.Sc.A. thesis, École Polytechnique de Montréal (in French), Canada, 2007

#### **Carti sau capitole de carti**

1. Petrina, M., Catarig, A., Stefan, L., Petrina, B. Programare Fortran cu aplicatii in constructii – Elemente de baza. U.T. Pres, Cluj-Napoca, ISBN : 973-662-119-7, capitole de carte : 1, 2, 3, 6 (pp. 58/265), 2004

## Publicatii relevante

Candidat Lucian Constantin Stefan, înscris la concursul pentru ocuparea postului de Sef de lucrari la Facultatea Constructii Departament Mecanica Constructiilor, poziția 30

1. Stefan, L. and Léger, P. Multi-criteria Capacity Envelopes for Biaxial Bending of Concrete Hydraulic Structures, Journal of Structural Engineering, 136(9), 1035-1043, 2010
2. Stefan, L. and Léger, P. An Extension of the Gravity Method for 3D Cracking Analysis of Spillway Piers including Uplift Pressures, Journal of Structural Engineering, 134(8), 1278-1287, 2008
3. Stefan, L., and Léger, P. Cracked Section Analysis of Gravity Dams including Passive Reinforcement and Uplift Pressures, Canadian Dam Association Annual Conference, Niagara Falls, Ontario, Canada, 2010
4. Melo, C., Stefan, L., Léger, P., Pedroso, L., and Bouaanani, N. Seismic Safety Evaluation of Gated Spillways: Modeling Hydrodynamic Pressures on Gates, 9th US National and 10th Canadian Conference on Earthquake Engineering, Toronto, Ontario, Canada, 2010
5. Stefan, L., Limoges, A., and Léger, P. Three-dimensional Seismic Stability Evaluation of Spillway Structures considering Concrete Cracking, Canadian Dam Association Annual Conference, Winnipeg, Canada, 2008

