



António Lopes Batista

Senior Research Officer, LNEC

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Professional summary

Civil Engineer, IST (University of Lisbon), 1983

PhD, IST (University of Lisbon), 1998

Researcher, Concrete Dams Department, LNEC

Head of Concrete Dams Department, which includes the coordination of the monitoring and safety control activities of 60 large concrete and masonry dams in Portugal

Guest Professor in the Civil Engineering Department of the Faculdade de Ciência e Tecnologia of the Universidade Nova de Lisboa

Member of the Portuguese Commission of Dams Regulation

Supervisor of two concluded Ph.D. thesis, two Ph.D. thesis in progress and ten concluded M.Sc. thesis

Member of the Portuguese National Engineering Association

Main areas of interest and activity

Monitoring, planning and safety control of concrete dams

Modelling and interpretation of the structural behaviour of concrete dams

Rheology of dam's concrete

Analysis of the structural effects of swelling processes in concrete dams

Selected publications

Batista, A. L. – Análise do comportamento ao longo do tempo de barragens abóbada . PhD Thesis, IST, University of Lisbon, 1998 (in Portuguese)

Batista, A.L.; Ramos, J.M.; Gomes, J.P. - Structural analysis of swelling processes in concrete dams. Degradação de estruturas por reacções expansivas de origem interna, LNEC-LCPC, Lisboa, 2001

Ramos, J.M.; Batista, A.L. – Fiabilidade de barragens sujeitas a processos expansivos do betão. Casos exemplares. Degradação de estruturas por reacções expansivas de origem interna, LNEC-LCPC, Lisboa, 2001 (in Portuguese)

Batista, A.L.; Ramos, J.M. - Structural analysis of swelling processes in arch dams. 6th International Conference on Creep, Shrinkage and Durability Mechanics of Concrete and other Quasi-Brittle Materials (ConCreep-6), Boston, 2001

Santos, T.O.; Fernandes, J.A.; Batista, A.L. – Influence of ambient conditions on concrete shrinkage. 7th International Conference on Creep, Shrinkage and Durability of Concrete and Concrete Structures (ConCreep-7), Nantes, 2005

Gomes, J.P.; Batista, A.L.; Oliveira, S.B. – Analysis of concrete dams under swelling processes. 12th International Conference on Alkali-aggregate Reaction in Concrete (ICAAR 2004), Pequim, 2004

Serra, C.; Batista, A.L.; Castro, A.T. – Creep of dam concrete evaluated from laboratory and in situ tests. Strain, 2011

Batista, A.L.; Gomes, J.P.; Carvalho, E.F.; Tembe, I.M.– Analysis and interpretation of the structural behavior of Cahora Bassa dam (Mozambique). 54th IBRACON, DAM WORLD Conference, Maceió, Brasil, 2012

Batista, A.L.; Gomes, J.P. – Practical assessment of the structural effects of swelling processes and updated inventory of the affected Portuguese concrete dams. 54th IBRACON, DAM WORLD Conference, Maceió, Brasil, 2012