

Szymański Alojzy

Professor



Contact

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Education

- Professor, 2004
- Habilitation (DSc), Gdańsk University of Technology, 1992
- Ph.D., Warsaw Agricultural University, 1982
- M.Sc., Warsaw Agricultural University, 1974

Work experience:

- Since 1.09.2008 to present – WULS – SGGW Rector
- 1.09.2002 – 31.08.2008 Vice-rector for Development
- Since 1999 to 2002 Dean of The Faculty of Engineering and Environmental Science
- Since 1996 to 1999 Head of The Doctoral Study
- Since 1990 to 1996 Deputy Dean of the Faculty of Land Reclamation and Environmental Engineering
- Since 1976 to present employed in Engineering and Environmental of Science Faculty WAU (since 1978 in Department of Geotechnical Engineering)
- Since 1974 to 1976 employed in Supervision Company of Land Reclamation in Białystok District

Membership in professional societies:

- Geotechnical Committee of Polish Academy of Sciences
- Hydraulic Structures Committee of Polish Academy of Sciences
- Polish Environmental Engineering Society
- International Society of Soil Mechanics and Foundation Engineering
- TC-29 Laboratory Testing

Present position:

- Professor, Rector of the Warsaw University of Life Sciences - SGGW

Research interest:

- Deformation analysis of soft soils: stress-strain analysis, consolidation prediction, parameter selection.
- Laboratory and field investigations of soils: evaluation of permeability and deformation characteristics, selection of parameters based on back analysis, evaluation of soil contamination.

- Numerical calculation: application of large-strain analysis to prediction of soft subsoils deformation, application of constitutive models to prediction of consolidation performance, identification of soil parameters for linear and nonlinear models.
- Other geotechnical problems: environmental geotechnics, improvement of soft soils, field, investigations.

Didactics

- [Soil Mechanics](#)
- [Rocks Mechanics](#)
- [Earth Structures](#)

Publications

Author and co-author of 6 books and more than 100 publications in national and international journals and conference proceedings.

List of Recent Publications

1. MALINOWSKA E., **SZYMAŃSKI A.**, SAS W. 2010: Estimation of flow characteristics in peat. Geotechnical Testing Journal, Vol. 33, No 4 July Issue 2010, http://www.astm.org/DIGITAL_LIBRARY/JOURNALS/GEOTECH/PAGES/GTJ102783.htm
2. SAS W., **SZYMAŃSKI A.**, MALINOWSKA E., NIESIOŁOWSKA A. 2010: Analysis of deformation course of soft soils in earth structures construction. Proceedings of the International Geotechnical Conference, Moscow 7-10 June 2010, Vol. 2, pp.525-530.
3. SAS W., **SZYMAŃSKI A.**, MALINOWSKA E., NIESIOŁOWSKA A. 2010: Physical and mechanical properties of problematic soils in Poland. Proceedings of the XIVth Danube-European Conference on Geotechnical Engineering. Published by Slovak University of Technology, Faculty of Civil Engineering, Bratislava, Session 1: Ground characterization and new development in soil mechanics.
4. MALINOWSKA E., **SZYMAŃSKI A.** 2009: Analiza zmian gradientu hydraulicznego w charakterystykach przepływu słabonośnego podłoża. (In Polish) „The analysis of hydraulic gradient changes in the flow characteristics of the soft soil”. Warsaw University of Life Sciences Press. Scientific Review Engineering and Environmental Sciences 2009, Vol. 4 (46), pp. 35-47.
5. **SZYMAŃSKI A.**, SAS W., NIESIOŁOWSKA A. 2009: Field and laboratory experience with the soft subsoil deformation. 17th International Conference on Soil Mechanics & Geotechnical Engineering, Egypt 2009.
6. **SZYMAŃSKI A.**, SAS W., NIESIOŁOWSKA A., MALINOWSKA E. 2009: Deformation behavior of organic subsoil on the basis of field and laboratory tests. Electronic Journal of Polish Agricultural Universities, Civil Engineering 2009 Vol.12/1.
7. **SZYMAŃSKI A.**, SAS W., NIESIOŁOWSKA A., MALINOWSKA E. 2008: The factors which determine the soft subsoil deformations. Development of Urban Areas and Geotechnical Engineering. Proceedings of the International geotechnical conference. Saint Petersburg, 16-19 June 2008. Vol. 2 pp. 473-478 /ed. by prof. V. M. Ulitsky. Saint Petersburg: [NPO "Georeconstruction-Fundamentproject"].
8. SAS W., MALINOWSKA E., **SZYMAŃSKI A.** 2008: Reliability estimation of flow characteristics obtained in laboratory tests. The 12th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG): 1-6 October, 2008. Goa, 2008. pp. 1486-1492.
9. MALINOWSKA E., SAS W., **SZYMAŃSKI A.** 2008: The uncertainty of the water flow velocity data obtained in the laboratory test. Warsaw University of Life Sciences Press. Annals of Warsaw University of Life Sciences. Land Reclamation 2008, N. 40, pp. 77-86.

10. MARKOWSKA-LECH K., LECH M., **SZYMAŃSKI A.**, 2007: Estimation of shear modulus from seismic tests on Pliocene clays. Proceedings of the 10th International Symposium on Numerical Models in Geomechanics (NUMOG X), Rhodes, Greece, pp. 153-158.
11. SAS W., NIESIOŁOWSKA A., **SZYMAŃSKI A.**, MALINOWSKA E. 2007: Charakterystyki odkształceń podłoża słabonośnego uzyskane w badaniach terenowych. (In Polish) "In Situ deformation characteristics of soft subsoil". Inżynieria i Budownictwo 2007, nr 7-8, pp. 416-419.
12. MALINOWSKA E., SAS W., **SZYMAŃSKI A.** 2007: Nonlinear water flow characteristics describing soil consolidation. Electronic Journal of Polish Agricultural Universities, Civil Engineering Vol. 10, nr 4 # 41.
13. **SZYMAŃSKI A.**, BAJDA M. 2006: Assessment of stress history in overconsolidated clays on the basis of cone penetration tests. SGGW Press– Monografia „Geotechnika w hydrotechnice i budownictwie lądowym” wydana z okazji 50-lecia pracy naukowej Prof. W. Wolskiego, pp. 221-232.
14. **SZYMAŃSKI A.**, SAS W., DROŻDŹ A., MALINOWSKA E. 2006: Field and laboratory experience with the soft subsoil improvement, Proceeding of the First Euro Mediterranean Symposium on Advances in Geomaterials and Structure – Hammamet Tunisia. pp. 209-214.
15. **SZYMAŃSKI A.**, SAS W., DROŻDŹ A., MALINOWSKA E. 2006: The factors determining consolidation performance in prediction of soft subsoil improvement. XIII Danube-European Conference on Geotechnical Engineering, Ljubljana, Proc. of the 13th Danube-European Conference on Geotechnical Engineering, pp.131-136.
16. SAS W., **SZYMAŃSKI A.**, DROŻDŹ A., 2006: Modelowanie wtórnych odkształceń gruntów organicznych. (In Polish) "Modeling secondary strain in organic soils". XIV Konferencja Mechaniki Gruntów i Fundamentowania. Białystok-Augustów, V. 28, pp. 223-232.
17. **SZYMAŃSKI A.**, DROŻDŹ A., BAJDA M., 2006: Assessment of stress history in glacial soils on the basis of cone penetration tests. The 10th IAEG Congress, Nottingham.
18. **SZYMAŃSKI A.**, SAS W., DROŻDŹ A., MALINOWSKA E. 2005: Field and laboratory experience with the construction of embankments on organic soils. Proceedings of 2nd International Conference on Problematic Soils. Eastern Mediterranean University Press, Famagusta, N. Cyprus, Vol. 2, pp. 747-755
19. SAS W., MALINOWSKA E., **SZYMAŃSKI A.** 2005: Ograniczenie wtórnych odkształceń gruntów organicznych metodą przeciążenia podłoża. (In Polish) „Reduction of secondary stain in organic soils by surcharging method”. Inżynieria i Budownictwo, nr 4, s. 141-144.
20. MALINOWSKA E., **SZYMAŃSKI A.**, SAS W. 2005: Wyznaczanie charakterystyk przepływu wody w gruntach organicznych metodą flow-pump. (In Polish) „Determination of water flow characteristics in organic soils by the flow-pump technique”. Warsaw University of Life Sciences Press. Scientific Review Engineering and Environmental Sciences 2005, Vol. 31, N. 1, pp.114-121.
21. **A. SZYMANSKI**, A. DROZDZ, W. SAS, 2005: Non-linear consolidation characteristics of soft soils. Proc. of the 11th International Conference of IACMAG, Torino, vol. 2, s. 229-236.
22. **SZYMAŃSKI A.**, SAS W., DROŻDŹ A., MALINOWSKA E. 2004: Secondary compression in organic soils. Warsaw University of Life Sciences Press. Annals of Warsaw Agricultural University. Land Reclamation No 35a, pp: 221-228.
23. **SZYMAŃSKI A.**, LECHOWICZ Z., GARBULEWSKI K., 2004: Geoenvironmental impact assessment of a landfill for solid chemical wastes, EU GeoEnvNet Seminar on Geoenvironmental Engineering – Transfer of Knowledge and EU's Directives to Newly Associated States. Warszawa, pp. 133-140.