

Sophie Messerklinger
Research Center Wels
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About me

Über 20 Jahre Erfahrung in der Planung von geotechnischen Bauwerken, insbesondere von Schüttdämmen. Sie ist gerichtl. zertifizierte und allg. beeidete Sachverständige für Bodenmechanik, Grundbau, Wasserkraftwerksbauten und Wasserschutzbauten sowie Materialentnahmen und Tiefbau.

Seit 2014 lehrt Frau Dr. Messerklinger an der FH Wels am Studiengang für Bauingenieurwesen für Hochbau und belegt seit 2019 die Professur für Geotechnik, Wasserbau und Bauverfahrenstechnik.

Employment

Research Center Wels

Wels, Austria

1 Aug 2012 → present

Mitglied der österreichischen Staubeckenkommission

Österreichische Staubeckenkommission

Austria

1 Jan 2020 → present

Research outputs

Applications of the ICOLD Bulletin on internal erosion in geotechnical engineering

Bridle, R. & Messerklinger, S., 2015, *Slopes and Geohazards*. Winter, M. G., Eldred, P. J. L., Eldred, P. J. L., Winter, M. G., Toll, D. G. & Smith, D. M. (eds.). p. 1971-1976 6 p. (Geotechnical Engineering for Infrastructure and Development - Proceedings of the XVI European Conference on Soil Mechanics and Geotechnical Engineering, ECSMGE 2015; vol. 4).

Formation mechanism of large subsidence sinkholes in the Lar valley in Iran

Messerklinger, S., 27 Aug 2014, In: *Quarterly Journal of Engineering Geology and Hydrogeology*. 47, 3, p. 237-250 14 p.

Failure of a geomembrane lined embankment dam - Case study

Messerklinger, S., Jun 2014, In: *Geotextiles and Geomembranes*. 42, 3, p. 256-266 11 p.

The Design of Filter Materials and their Importance in Geotechnical Engineering

Messerklinger, S., 2013, *Int. Conf. on Soil Mechanics and Geotechnical Engineering (ICSMGE)*. p. 3313-3316 4 p.

Filter design for the heightening of a high earth core rockfill dam

Messerklinger, S. & Straubhaar, R., 2011, *Dams and Reservoirs under Changing Challenges - Proceedings of the International Symposium on Dams and Reservoirs under Changing Challenges - 79 Annual Meeting of ICOLD, Swiss Committee on Dams*. p. 229-238 10 p. (Dams and Reservoirs under Changing Challenges - Proceedings of the International Symposium on Dams and Reservoirs under Changing Challenges - 79 Annual Meeting of ICOLD, Swiss Committee on Dams).

Safety and maintenance issues for a long embankment on a karstic foundation under artesian pressure

Messerklinger, S., Brenner, R. P. & Zegele, Z., 2011, *Dam Maintenance and Rehabilitation II - Proceedings of the 2nd International Congress on Dam Maintenance and Rehabilitation*. p. 325-334 10 p. (Dam Maintenance and Rehabilitation II - Proceedings of the 2nd International Congress on Dam Maintenance and Rehabilitation).

Economic sampling and extraction of undisturbed, high quality samples in normally consolidated lacustrine clays using a large diameter tube

Messerklinger, S. & Springman, S. M., 2009, In: *Geotechnical and Geological Engineering*. 27, 2, p. 207-215 9 p.

Pressurized vane shear test for soil conditioning

Zumsteg, R., Messerklinger, S., Puzrin, A. M., Egli, H. & Walliser, A., 2009, *Proceedings of the 17th International Conference on Soil Mechanics and Geotechnical Engineering: The Academia and Practice of Geotechnical Engineering*. p. 275-278 4 p. (Proceedings of the 17th International Conference on Soil Mechanics and Geotechnical Engineering: The Academia and Practice of Geotechnical Engineering; vol. 1).

Local radial displacement measurements of soil specimens in a triaxial test apparatus using laser transducers

Messerklinger, S. & Springman, S. M., Nov 2007, In: *Geotechnical Testing Journal*. 30, 6, p. 454-465 12 p.

Modelling the anisotropy of soft Swiss lacustrine clay

Messerklinger, S. & Springman, S. M., 2 Jun 2003, *Computational Fluid and Solid Mechanics 2003*. p. 447-450 4 p.

An advanced multilaminate model for clay

Wiltafsky, C., Messerklinger, S. & Schweiger, H. F., 2002, *Numerical Models in Geomechanics - 8th Proceedings of the International Symposium on Numerical Models in Geomechanics, NUMOG 2002*. Pande, G. N. & Pietruszczak, S. (eds.). CRC Press/Balkema, p. 67-74 8 p. (Numerical Models in Geomechanics - 8th Proceedings of the International Symposium on Numerical Models in Geomechanics, NUMOG 2002).

Activities

Floods - design and construction of measures

Sophie Messerklinger (Speaker)
26 Nov 2019

Österreichisches Nationalkomitee für Talsperren (External organisation)

Sophie Messerklinger (Member)
2018

Erosion in dam materials

Sophie Messerklinger (Speaker)
26 Apr 2017

Soil Mechanics and Foundation Engineering in Civil Engineering - or - No structural Engineering without Foundation Engineering

Sophie Messerklinger (Speaker)
28 May 2015

The Geological Society, London (Publisher)

Sophie Messerklinger (Reviewer)
2015 → 2019

Simulationen mit neu entwickelten Stoffgesetzen

Sophie Messerklinger (Speaker)
8 Mar 2006

Anisotropes und Nichtlineares Verformungsverhalten von Schweizer Seebodenlehm

Sophie Messerklinger (Speaker)
10 Jun 2005

Eigenschaften von Schweizer Seebodenlehm

Sophie Messerklinger (Speaker)
15 Mar 2005

Displacement Measurement with Laser Scanning in Triaxial Testing Apparatus

Sophie Messerklinger (Speaker)

8 Jul 2004

Mineralogical and Mechanical Behaviour of Soft Finnish and Swiss Clay

Sophie Messerklinger (Speaker)

18 Sep 2003

Modelling Soft Lacustrine Clay

Sophie Messerklinger (Speaker)

18 Jun 2003

Modelling Swiss Lacustrine Clay

Sophie Messerklinger (Speaker)

27 Aug 2002

Advanced Constitutive Modelling

Sophie Messerklinger (Speaker)

4 Mar 2002

Comparison of S-CLAY1 and Multilaminate Model.

Sophie Messerklinger (Speaker)

17 Sep 2001

Prizes

The Young Researcher Fellowship Award for Exemplary Research in Computational Mechanics

Messerklinger, Sophie (Recipient), 2003