

- Pohl, M., H. Konietzky, M. Herbst and K. Walter. “Numerische Simulation von Deckwerken,” in *Proceedings, 3rd Symposium Sicherung von Dämmen, Deichen und Stauanlagen (Siegen)*, in press.
- Bacas, B. M., H. Konietzky and J. C. Berini. “Model and Numerical Analysis of the Direct Shear Test of Geomembrane/Geotextile Interfaces,” *Geotext. Geomembranes*, **29**, 137-148 (2011).
- Groh, U., H. Konietzky, K. Walter and M. Herbst. “Damage Simulation of Brittle Heterogeneous Materials at the Grain Size Level“, *Theor. Appl. Fract. Mech*, **55**, 31-38 (2011).
- Günther, A., J. Wienhöfer and H. Konietzky. “Automated Mapping of Rock Slope Geometry, Kinematics and Stability with RSS-GIS, *Natural Hazards*, **56**, 1-21 (March 23, 2011).
- Sharma, R. H., and H. Konietzky. “Instrumented Failure of Hillslope Models with Soil-Pipes,” *Geomorphology*, **130**(3-4), 272-279, doi:10.1016/j.geomorph.2011.04.007 (2011).
- Stahl, M. and H. Konietzky. “Discrete Element Simulation of Ballast and Gravel under Special Consideration of Grain-Shape, Grain Size and Relative Density,” *Granul. Matter*, **4**, 417-428 (2011).
- Wang, G., K. Guo, M. C. Christianson and H. Konietzky. “Deformation Characteristics of Rock Salt with Mudstone Interbeds Surrounding Gas and Oil Storage Cavern,” *Int. J. Rock Mech. Min. Sci.*, **48**, 871-877 (2011).
- Al-Khasawneh, Y., and H. Konietzky. “Interpretation and Optimization of Vertical Shaft Crushers with DEEM,” in *Proceedings, European Conference on Fracture (ECF-18)*, C.06.2-4, 1-8, Bundesanstalt für Materialprüfung und –forschung (BAM), Berlin, 2010.
- Bacas, B. M., J. Canizal and H. Konietzky. “Shear Strength Behaviour of Geosynthetics,” in *Proceedings, 6ICEG 2010 (Sixth International Congress on Environmental Geotechnics (New Delhi, November 2010))*, Vol. II, pp. 948-953. New Delhi: TATA McGraw Hill, 2010.
- Baumgarten, L., and H. Konietzky. “Investigations on the Fracture Behaviour of Rocks in a Triaxial Compression Test,” in *Proceedings, European Conference on Fracture (ECF-18)*, C.06.2-5, 1-9. Berlin: Bundesanstalt für Materialprüfung und –forschung (BAM), 2010.
- Felix, M., A. Förster, H.-J. Förster, H. Konietzky and S. Wagner. “Exploration Strategy for a Deep EGS Development in Low-Permeable Crystalline Rocks (Germany),” *GRC Trans*, **34**: 335-338 (2010).
- Felix, M., and H. Konietzky, et al. “Zur Erkundung tiefer ”petrothermaler” Systeme in Sachsen, “ in *Proceedings, Geothermie-Kongress 2010, Karlsruhe*, 2010.
- Felix, M., H. Konietzky and K. Walter. “Geologische und Geomechanische Modelle für die Nutzung der Tiefen Erdwärme in Sachsen,” in *Veröffentl. Institut für Geotechnik*, Vol. 2010-1, pp. 25-42. 2010.
- Groh, U., and H. Konietzky. “Heterogene Strukturen aus Bindemittel und Zuschlag – Diskrete-Elemente-Modellierung von MgO-Beton,” in *Veröffentl. Institut für Geotechnik*, Vol. 2010-1, pp. 125-148. 2010.
- Groh, U., H. Konietzky and K. Walter et al. “Heterogene Strukturen aus Bindemittel und Zuschlag – Untersuchungen & Modellierungen von MgO-Beton und Asphalt,” Statusgespräch des PTKA-WTE zur Entsorgung gefährlicher Abfälle in tiefen geologischen Formationen, KIT, in *Veröffentl. Institut für Geotechnik*, Vol. 9. 2010.

Herbst, M., M. Pohl and H. Konietzky. “Numerische Simulation der Interaktion Wasser – Deckwerk im Tidegebiet,” *Dresdner Wasserbauliche Mitteilungen*, **40**, 85-94 (2010).

Konietzky, H., and L. V. Cong. “Quantitative Anchor Design for Underground Mining and Tunnelling,” *Mitteilungen für Ingenieurgeologie und Geomechanik, TU Wien*, **9**, 135-145 (2010).

Konietzky, H., and K. Walter et al. “Erkundung tiefer ‘petrothermaler’ Systeme in Sachsen: Spannungsfeldmodellierung auf Basis geologischer 3D-Modelle,” in *Proceedings, Geothermie-Kongress 2010 Karlsruhe*, 2010.

Luge, H., H. Konietzky and L. Köhler. “New Dynamic Rockmechanical Direct Shear Box System GS-1000,” in *Veröffentl. Institut für Geotechnik*, Vol., 2010-1, pp. 77-86. 2010.

Lunow, Ch., and H. Konietzky. “Numerical Simulation of Cutting Processes, Scientific Reports on Resource Issues,” *Int. University of Resources*, **2**, 223-233 (2010).

Pohl, M., M. Herbst and H. Konietzky. “Numerische Simulation von Deckwerk in Tidegebieten,” in *Proceedings, BAW-Kolloquium Forschung und Entwicklung im Küstenwasserbau (Hamburg, Bundesanstalt für Wasserbau, April 2010)*, pp. 39-42.

Schmidt, F., C. Sagaseta and H. Konietzky. “3D Analysis of a Micropile for Stabilizing the Tunnel Face of a NATM Tunnel,” in *Numerical Methods in Geotechnical Engineering (NUMGE 2010)*, pp. 749-753. T. Benz and S. Nordal, Eds. London: Taylor & Francis, 2010.

Sharma, R. H., and H. Konietzky. “Experiments on Failure of Hillslope Models Due to Soil Pipes,” in *Veröffentl. Institut für Geotechnik*, Vol. 2010-1, pp. 175-191. 2010.

Zettler, A., R. Poisel, A. Preh and H. Konietzky. “Tunneling in Swelling Rock — A Solved Problem?,” *Geomech. Tunn.*, **5**, 557-566 (2010).

Hausdorf, A., H. Konietzky, T. Fliß and A. Dengel. “Druckluftspeicherung in stillgelegten Salzbergwerken – Bewertung wesentlicher Einflussgrößen auf die Dichtheit mit Hilfe numerischer Untersuchungen,” *Erdöl und Erdgas*, **4**(125), 144-151 (2009).

Heinicke, J., T. Fischer, R. Gaupp, J. Götze, U. Koch, H. Konietzky and K. P. Stanek. “Hydrothermal Alteration as a Trigger Mechanism for Earthquake Swarms: The Vogtland/NW Bohemia Region As a Case Study,” *Geophys. J. Int.*, **178**(1), 1-13 (July 2009).

Herbst, M., H. Konietzky, Ch. Starke and R. H. Sharma. “3D-Modellierung eines sächsischen Kreidesandsteinmassivs,” in *Proceedings, 17th Tagung Ingenieurgeologie, Hochschule Zittau (2009)*, pp. 229-232.

Konietzky, H., L. Baumgarten and L. te Kamp. “Numerische Simulationen in der Geomechanik – Ausgewählte Einblicke zum aktuellen Stand,” in *Geomonitoring, FE-Modellierung, Sturzprozesse und Massenbewegungen*, pp. 49-57. R. Marschallinger and W. Wanker, Eds. Heidelberg: Wickmann-Verlag, 2009.

Konietzky, H., A. Heftenberger and M. Feige. “Life-Time Prediction for Rocks Under Static Compressive and Tensile Loads: A New Simulation Approach,” *Acta Geotechnica*, **4**, 73-78 (2009).

Lunow, Ch., and H. Konietzky. “Two Dimensional Simulation of the Pressing and the Cutting Rock Destruction,” in *Proceedings, 2nd Int. Conf. on Computational Methods in Tunneling*, Vol. 1, pp. 223-230. Bochum, Aedificatio Publishers, 2009.

- Sharma, R. H., and H. Konietzky. "Effects on Hillslope Soil-Pipes on Pore-Water Pressure Dynamics," in *Proceedings, 17. Tagung Ingenieurgeologie, Hochschule Zittau*, 2009, pp. 97-100.
- Sharma, R.-H., H. Konietzky, K. Kosugi. "Numerical Analysis of Soil Pipe Effects on Hillslope Water Dynamics," *Acta Geotechnica*, **5**, 33-42 (2009).
- Walter, K., H. Konietzky and M. Herbst. "Three Dimensional Discrete Element Modelling to Investigate Damage and Fracture Development at the Grain Size Level," in *Proceedings, 2nd Int. Conf. on Computational Methods in Tunneling*, Vol. 1, pp. 215-222. Bochum: Aedificatio Publishers, 2009.
- Wang, Z. L., and Konietzky. "Modelling of Blast-Induced Fractures in Jointed Rock Masses," *Engr. Frac. Mech.*, **76**, 1945-1955 (2009).
- Wang, Z. L., H. Konietzky and R. Y. Huang. "Elastic-Plastic-Hydrodynamic Analysis of Crater Blasting in Steel Fiber Reinforced Concrete," *Theor. Appl. Fract. Mech.*, **52**, 111-116 (2009).
- Wang, Z. L., H. Konietzky and R. F. Shen. "Analytical and Numerical Study of P-Wave Attenuation in Rock Shelter Layer," *Soil Dyn. Earthq. Eng.*, **30**(1-2): 1-7 (2009).
- Wang, Z. L., H. Konietzky and R. F. Shen. "Coupled Finite Element and Discrete Element Method for Underground Blast in Faulted Rock Masses," *Soil Dyn. Earthquake Eng.*, **29**, 939-945 (2009).
- Cong, L. V., and H. Konietzky. "Analysis of Rock Bolt Reinforcement by Numerical Simulations," in *Proceedings of the International Conference on Advances in Mining and Tunneling 2008, Hanoi, Vietnam (August 2008)*, pp. 315-323. Hanoi: Publishing House for Science and Technology, 2008.
- Frühwirt, T., A. Hausdorf, H. Konietzky, F. Heinrich, N. Mocka and J.-P. Schleinig. "Selected Aspects of Roof Anchorage in Potash Mining," *Sci. Bull. National Mining University Dnepropetrovsk*, No. 6, 83-38 (2008).
- Herbst, M., H. Konietzky and K. Walter. "3D Microstructural Modeling," in *Continuum and Distinct Element Numerical Modeling in Geo-Engineering (Proceedings, 1st International FLAC/DEM Symposium, Minneapolis, August 2008)*, Paper No. 08-05. R. Hart et al., Eds. Minneapolis: Itasca Consulting Group, Inc., 2008.
- Konietzky, H. "Numerical Simulation of Damage and Fracture Mechanical Processes in Rocks," *Sci. Bull. National Mining University Dnepropetrovsk*, **6**, 29-33 (2008).
- Konietzky, H., and R. Schlegel. "Using Sensitivity Analysis and Optimization for Civil Engineering and Geotechnical Applications," in *Proceedings, 4. Weimarer Optimierungs- und Stochastiktage (November 2007)*, pp. 1-14. Weimar: Dynardo-GmbH, 2008.
- Kwon, J., E. Tutumluer and H. Konietzky. "Aggregate Base Residual Stresses Affecting Geogrid Reinforced Flexible Pavement Response," *Int. J. Pavmnt. Eng.*, **9**(4), 275-285 (2008).
- Mucke, D., H. Konietzky and T. Frühwirt. "Sulfatkarst und seine Folgen für Bergbau und Baugrund an Beispielen aus dem Südhaz und aus Schleswig-Holstein," in *Veröffent. Geotechnik der TU Bergakademie Freiberg*, Vol. 2008-3, pp. 111-129. 2008..
- Walter, K., and H. Konietzky. "Room Pillar Dimensioning for Gypsum and Anhydrite Mines in Germany," in *Proceedings of the International Conference on Advances in Mining and Tunneling 2008, Hanoi, Vietnam, August 2008*, pp. 349-362. Hanoi: Publishing House for Science and Technology, 2008.

Drebenstedt, C., W. Kudla, H. Konietzky and B. Jung (Eds.) *Modellierung, Simulation und Visualisierung von Prozessen in Bergbau und Bauwesen*, Freiburger Forschungsheft C515, Freiberg: TU Bergakademie Freiberg, 2007.

Hagedorn, H., and H. Konietzky. "Numerical Modeling of Rock Bursts in the Multifunction Station Faido of the Gotthard Base Tunnel," in *Proceedings, 2nd International Seminar ECOMINING - Europe in the 21st Century (Sovata & Praid Salt Mine, Romania, October 2007)*, pp. 127-138. Petrosani, Romania: Editura Universitat, 2007.

Hausdorf, A., F. Heinrich, H. Konietzky and N. Mocka. "Numerische Untersuchungen zur Stabilität geschichteter und geankerter Kammerfirsten im Kalibergbau / Numerical Studies on the Stability of Bedded and Anchored Roofs of the Rooms in Potash Mining," *Kali und Steinsalz*, **1**, 20-25 (2007).

Hausdorf, A., C. Le and H. Konietzky. "The Elasto Plastic Solidifying Material Behavior of Anchor Steel in the Salt Mining and Its Numeric Modelling," *Proceedings, 35th Colloquium on Geomechanics, Veröffent. Institute Geotechnics der TU Bergakademie Freiberg*, pp. 101-114. 2007.

Konietzky, H. and Th. Frühwirt. "Zur Rolle der Rotation bei der Simulation geomechanischer Prozesse," *Wissenschaftliche Mitteilungen Institutes für Geologie der TU Bergakademie Freiberg*, **35**, 261-270 (2007).

Poisel, R., A. Preh, H. Konietzky and A. Zettler. "Die Standsicherheit von Tunneln in quell- und schwellfähigem Gebirge," in *Proceedings, 6. Österreichische Geotechniktagung (Wien, January 2007)*.

Schegel, R., J. Will and H. Konietzky. "Optimization and Sensitivity Analysis in Mining and Geotechnical Engineering Using Numerical Approaches," *Buletin Resurse Minerale*, **2**, 47-54 (2007).

te Kamp, L., H. Konietzky and T. Vietor. "Hydro-Mechanical Behaviour of the Rock Mass During the Shaft Sinking Process: Predictions and Measurements for the Meuse/Haute-Marne Underground Research Laboratory," in *Proceedings, 35th Colloquium on Geomechanics, Veröffent. Institute Geotechnics der TU Bergakademie Freiberg*, pp. 47-58. 2007.

Bock, H., P. Blümling and H. Konietzky. "Study of the Micromechanical Behaviour of the Opalinus Clay: An Example of Co-Operation across the Ground Engineering Disciplines," *Bull. Eng. Geol. Env.* **65**, 195-207 (2006).

Günther, A.; H. Konietzky and J. Wienhöfer. "Incorporating GIS and Numerical Simulations for Rock Slope Stability Modelling," *Geophys. Res. Abst.*, **8**, EGU06-A-01823 (2006); in *Mass Movement Hazard in Various Environments, Abstracts and Field Trip Guide-Book*, p. 23. M. Graniczny (Ed.). Warszawa: Polish Geolog. Inst., 2006.

Konietzky, H. "Hydro-Mechanical Coupling: Selected Aspects," in *Mitteilungen für Ingenieurgeologie und Geomechanik (3rd Colloquium on Rock Mechanics — Theory & Practice (Vienna, March 2006))*, Vol. 7, pp. 55-68.

Konietzky, H. "Kontinuum versus Diskontinuum - Numerische Modellierungen in der Geotechnik," presented at Workshop Numerik in der Geotechnik - Tunnel und untertägiger Hohlraumbau, 20, Weimar, June 2006.

Konietzky, H. "Neue Erkenntnisse zur Wirkungsweise von Geogittern," in *Proceedings, Symposium Bauen in Boden und Fels (TAE Esslingen, January 2006)*, pp. 559-566 (2006).

Konietzky, H. "Slopes — How to Determine Safety, Stability and Deformations," in *Proceedings, Int. Conference ECOMINING-Europe in the 21st Century (October 2005)*, pp. 111-118. Sovata & Praid Salt Mine, Romania: Editura Press, 2006.

Konietzky, H. and L. te Kamp. “Waste Repositories in Overconsolidated Clay Formations,” in *Proceedings, Int. Conference ECOMINING-Europe in the 21st Century (October 2005)*, pp. 311-318. Sovata & Praid Salt Mine, Romania: Editura Press, 2006.

Konietzky, H., M. Board and R. Brummer. “Use of Numerical Modeling for Safe and Cost-Effective Mine Design, Stability Assessment and Support Dimensioning,” in *Proceedings, Int. Conference ECOMINING-Europe in the 21st Century (October 2005)*, pp. 163-172. Sovata & Praid Salt Mine, Romania: Editura Press, 2006.

Konietzky, H., L. Nie and Y. Sun. “Numerical Modelling to Investigate Slopes and Mass Flow Phenomena,” *Global Geology*, 2/2006, 180-188 (2006).

Konietzky, H., L. te Kamp, and M. A. Keip. “Neue Erkenntnisse zur Wirkungsweise von Geogittern,” in *Proceedings of the Symposium ‘Bauen in Boden und Fels,’* TAE Esslingen, January 2006, pp. 559-566.

Kwon, J., E. Tutumluer, H. Konietzky and M.-A. Keip. “Investigation of Geogrid Base Reinforcement Mechanisms Considering Residual Stress and Confinement Effects,” in *Proceedings, 8th International Conference on Geosynthetics (Yokohama, Japan, September 2006)*, pp. 993-996. J. Kuwano and J. Kosedi, Eds. Rotterdam: Millpress, 2006.

McDowell, G. R., O. Harireche, K. Konietzky, S. F. Brown and N. H. Thom. “Discrete Element Modeling of Geogrid-Reinforced Aggregates,” *Geotech. Eng.*, 159(GEI) 35-48 (2006).

Billiaux, D., and H. Konietzky. “Key Issues in Discontinuum Modelling of Flow in Fractured Media,” in *Proceedings, 11th International Conference of the International Association of Computer Methods and Advances in Geomechanics (IACMAG, Turin, June 2005)*, pp. 361-371. G. Barla and M. Barla, Eds. Turin: Patron Editore, 2005.

Konietzky, H. “Numerical Stress Field Modelling for Underground Structures,” in *Rock Mechanics with Emphasis on Stress*, pp. 55-80. F. Rummel, Ed. New Delhi: Oxford & IBH Publishing Co. Pvt. Ltd, New Delhi, 2005.

Konietzky, H., M. Moser, H. Taubmann and L. te Kamp. “Numerische Simulation von Hangbewegungen am Beispiel der Großhangbewegung Gabel,” in *Talsperre Schönbrunn/Thüringen (Proc. 15, Tagung Ingenieurgeologie, Friedrich-Alexander-Universität Erlangen-Nürnberg, 2005)*, pp. 121-126.

Konietzky, H., and L. te Kamp. “Hydro-mechanische Kopplung für Partikelmethode,” in *Proceedings, Workshop Grenzsicht Wasser und Boden (TU Hamburg-Harburg, March 2005)*, *Veröffent. der TU Hamburg-Harburg Arbeitsbereich Geotechnik und Baubetrieb*, Vol. 9, pp. 121-129.

Schlegel, R., H. Konietzky and K. Rautenstrauch. “Mathematische Beschreibung von Mauerwerk unter statischer und dynamischer Beanspruchung im Rahmen der Diskontinuumsmechanik mit Hilfe der Distinkt Element Methode,” *Das Mauerwerk*, 9(4), 143-150 (2005).

Blümling, P., and H. Konietzky. “Calibration and Verification of a Constitutive Law for Opalinus Lay — Results from Laboratory and in-Situ Tests,” in *2nd Colloquium of Rock Mechanics — Theory and Practice (Mitteilungen Für Ingenieurgeologie und Geomechanik der TU Wien, 2004)*, Vol. 6, pp. 88-95.

Hausdorf, A., F. Heinrich and H. Konietzky. “The Elasto-Plastic Material Behavior of Rock Anchors with Hardening and Its Application in Mining,” in *Numerical Modeling of Discrete Materials in Geotechnical Engineering, Civil Engineering & Earth Sciences (1st International UDEC/3DEC Symposium, Bochum, Germany, September 2004)*, pp. 199-207, H. Konietzky, Ed. Leiden: Balkema, 2004.

Heinrich, F., H. Konietzky and A. Hausdorf. "Numerische Untersuchungen ausgewählter Einflussfaktoren auf die Stabilität geankerter Firsten beim Abbau flach einfallender Kaliflöze," in *Proceedings, 33rd Colloquium on Geomechanics, Veröffentlicht. Institute Geotechnics der TU Bergakademie Freiberg*, Vol. 2004-4, pp. 127-160. 2004.

Konietzky, H., Ed. *Numerical Modeling of Discrete Materials in Geotechnical Engineering, Civil Engineering & Earth Sciences (Proceedings of the 1st International UDEC/3DEC Symposium, Bochum, Germany, September 2004)*. Leiden: Balkema, 2004.

Konietzky, H., and T. Gröger. "Simulations of Particle Systems in Engineering and Science via PFC," in *CD Proceedings, PARTEC-2004 (International Congress for Particle Technology, Nürmeberg, May 2004)*, Paper P801.

Konietzky, H., T. Gröger and L. te Kamp. "Simulation of Time-Dependent Damage and Microfracturing via Particle Methods," in *Proceedings ICLODC 2004 (Bochum)*, Ruhr-University Bochum, SFB398, S. 131-140. F. Stangenberg et al., Eds.

Konietzky, H., K. Lorenz and U. Stötzner. "Die Standsicherheit von Stauraumhängen unter extremen Niederschlagsszenarien: Rückrechnungen und Prognosen," in *Proceedings, 33rd Colloquium on Geomechanics, Veröffentlicht. Institute Geotechnics der TU Bergakademie Freiberg*, Vol. 2004-4, pp. 201-214. 2004.

Konietzky, H., K. Lorenz and W. Witter. "Complex 3D Landslide Simulation," in *Landslides: Evaluation and Stabilization (Proceedings, 9th International Symposium on Landslides, Rio de Janeiro, 2004)*, Vol. 2, pp. 1053-1059. A. Lacerda et al., Eds. Rotterdam: Balkema, 2004.

Konietzky, H., K. Lorenz and W. Witter. "Simulation of Landslide Movements Based on a Multidisciplinary Approach," *Felsbau*, 22(2), 23-32 (2004).

Konietzky, H., and F. Rummel. "In Situ Stress Field Measurements and Stress Field Modelling," in *Proceedings, 2nd Colloquium Rock Mechanics — Theory and Practice (Mitteilungen für Ingenieurgeologie und Geomechanik der TU Wien, 2004)*, Vol. 6, pp. 46-54.

Konietzky, H., and L. te Kamp. "Numerical Stress Field Modeling for Underground Structures," in *Numerical Modeling of Discrete Materials in Geotechnical Engineering, Civil Engineering & Earth Sciences (Proceedings of the 1st International UDEC/3DEC Symposium, Bochum, Germany, September 2004)*, pp. 155-164. H. Konietzky, Ed. Leiden: Balkema, 2004.

Konietzky, H., L. te Kamp, T. Groeger and C. Jenner. "Use of DEM to Model the Interlocking Effect of Geogrids Under Static and Cyclic Loading," in *Numerical Modeling in Micromechanics Via Particle Methods — 2004 (Proceedings of the 2nd International PFC Symposium, Kyoto, Japan, October 2004)*, pp. 3-11, Y. Shimizu et al., Eds. Leiden: Balkema, 2004.

Konietzky, H., L. te Kamp and H. Hagedorn. "The Gotthard-Base-Tunnel: Conceptual Modeling for Tunneling Extremely Weak Zones," in *Numerical Modeling of Discrete Materials in Geotechnical Engineering, Civil Engineering & Earth Sciences (1st International UDEC/3DEC Symposium, Bochum, Germany, September 2004)* pp. 21-27, H. Konietzky, Ed. Leiden: Balkema, 2004.

Wang, G., F. Heinrich and H. Konietzky. "DEM Research on the Mechanical Behavior of Jointed Rock Mass and the Support Structure of Shallow Tunnels," in *Numerical Modeling of Discrete Materials in Geotechnical Engineering, Civil Engineering & Earth Sciences (1st International UDEC/3DEC Symposium, Bochum, Germany, September 2004)*, pp. 73-82, H. Konietzky, Ed. Leiden: Balkema, 2004.

Witter, W., and H. Konietzky. "Hangrutschungsrisiko an der Talsperre Schönbrunn", *Wasserbauliche Mitteilungen Instituts für Wasserbau und THM der TU Dresden*, 27, 1-19 (2004).

Blümling, P. and H. Konietzky. "Development of an Excavation Disturbed Zone in Claystone (Opalinus Clay)" in *Geotechnical Measurements and Modelling (Proceedings of the 8th International Symposium, Karlsruhe, Germany, September 2003)*. O. Nataf et al., Eds. Lisse: Balkema, 2003.

Hainbüchner, E., S. Potthoff, H. Konietzky and L. te Kamp. "Particle Based Modeling of Shear Box Tests and Stability Problems for Shallow Foundations in Sand," in *Numerical Modeling in Micromechanics via Particle Methods (Proceedings of the 1st International PFC Symposium, Gelsenkirchen, Germany, November 2002)*, pp. 151-156. H. Konietzky, Ed. Lisse: Balkema, 2003.

Konietzky, H. "New Numerical Simulation Techniques for Eco-Efficient and Intelligent Mineral Processing and Mining Excavations," in *Proceedings, EU-Conference on Research and Technical Development for a Sustainable Extractive Industry (Prague, November 2003)*, Paper WP5 1-12.

Konietzky, H., Ed. *Numerical Modeling in Micromechanics via Particle Methods (Proceedings of the 1st International PFC Symposium, Gelsenkirchen, Germany, November 2002)*. Lisse: Balkema, 2003.

Konietzky, H. "Partikelmodelle revolutionieren die numerischen Simulationstechniken," *Simulation*, 1, 63-65 (2003).

Konietzky, H. "Simulation der Bodenverdichtung: Kontinuumsmechanik versus Partikelmethode," in *Proceedings, Workshop Bodenverdichtung (TU Hamburg-Harburg, September 2003)*, *Veröffentlichung der TU Hamburg-Harburg Arbeitsbereich Geotechnik und Baubetrieb*, Vol. 5, pp. 109-132. 2003.

Konietzky, H. "Tonsteine als Endlagerwirtsgestein," in *Proceedings, Geotechnik-Kolloquium TU Bergakademie Freiberg (May 2003)*, *Veröffentl. Instituts für Geotechnik der TU Bergakademie Freiberg*, Vol. 2003-2, pp. 211-221. 2003.

Konietzky, H., L. te Kamp and G. Bertrand. "Modeling of Cyclic Fatigue Under Tension with PFC," in *Numerical Modeling in Micromechanics via Particle Methods (Proceedings of the 1st International PFC Symposium, Gelsenkirchen, Germany, November 2002)*, pp. 101-105. H. Konietzky, Ed. Lisse: Balkema, 2003.

te Kamp, L., H. Konietzky and P. Blümling. "Conceptual Modeling of Opalinus Clay with FLAC and PFC," in *Numerical Modeling in Micromechanics via Particle Methods (Proceedings of the 1st International PFC Symposium, Gelsenkirchen, Germany, November 2002)*, pp. 315-320. H. Konietzky, Ed. Lisse: Balkema, 2003.

Wileveau, Y., B. Come, H. Konietzky and P. Lebon. "In Situ Measurements and EDZ Analysis in Vertical Shaft of the Meuse/Haute-Marne Underground Research Laboratory: Application to the Kimmerigian Marls," in *Proceedings, European Commission Cluster Conference on Impact of EDZ on the Performance of Radioactive Waste Geological Repositories (Luxembourg, November 2003)*, EUR series EURATOM, pp. 237-241.

Konietzky, H. "Numerische Simulation von werkstoff- und verfahrenstechnischen Prozessen mittels Partikelmethode," in *Tagungsband zum 5. Werkstofftechnischen Kolloquium Chemnitz, Band II*, pp. 121-126. Eigenverlag TU Chemnitz, ISSN1439-1597, 2002.

te Kamp, L., and H. Konietzky. "Conceptual Micromechanical Simulation of Stiff Clay Using Particle Methods," in *Proceedings, 5th European Conference on Numerical Methods in Geotechnical Engineering*, pp. 315-320. Paris: LCPC-Press, 2002.

te Kamp, L., H. Konietzky and P. Blümling. “Micromechanical Modelling of Stiff Clay via Particle Methods,” presented at the International Workshop in Geomechanics — THM Modelling in Deep Argillaceous Rocks (Nancy, France, 2002).

te Kamp, L., H. Konietzky and T. Groeger. “Particle Methods — A New Numerical Approach in Engineering and Science,” in *Proceedings, 20th CADEFM User's Meeting (Friedrichshafen, 2002)*, Vol. 2, Lecture 2.9.5.

Konietzky, H. “Numerische Simulationen in der Geomechanik mittels expliziter Verfahren,” in *Publications of the Institute of Geotechnics, TU Bergakademie Freiberg*, Vol. 2001-2. 2001.

Konietzky, H., L. te Kamp, P. Blümling and J. C. Mayor. “Micro-Mechanical Analysis of Excavation Disturbed Zones Around Tunnels,” in *Computer Methods and Advances in Geomechanics (Proceedings of the 10th IACMAG, Tucson, January 2001)*, pp. 543-546. C. S. Desai et al. Rotterdam: Balkema, 2001.

Konietzky, H., L. te Kamp, H. Hammer and S. Niedermeyer. “Numerical Modelling of In Situ Stress Conditions as an Aid in Route Selection for Rail Tunnels in Complex Geological Formations in South Germany,” *Computers & Geotechnics*, **28**, 495-516 (2001).

Konietzky, H., L. te Kamp, M. Kreienmeyer and N. Müller-Höppe. “A Thermo-Mechanical Constitutive Law for Modeling the Hydration of Concrete and Backfill and Its Practical Application Using the Parallel Version of FLAC3D,” in *FLAC and Numerical Modeling in Geomechanics — 2001 (Proceedings of the 2nd International FLAC Conference, Lyon, France, October 2001)*, pp. 15-20. Billiaux et al, Eds. Lisse: Balkema, 2001.

Konietzky, H., J. Will and J. Heinrich. “Coupled Three-Dimensional Analysis of the Slab Foundation for the Magnetic Levitation Transportation System (TRANSRAPID) in Germany,” in *Foundations and Ground Improvement (Proceedings of a Special Conference (Virginia Polytechnic University, June 2001)*, Geotechnical Special Publication No. 113, pp. 500-513. Thomas L. Brandon, Ed. Reston, Virginia: ASCE, 2001.

Konietzky, H., J. Will and J. Heinrich. “3-Dimensional Dynamic Hydro-Mechanical Coupled Analysis of the Structure-Soil Interaction for the TRANSRAPID System,” in *Proceedings of the 15th International Conference on Soil Mechanics and Geotechnical Engineering (Istanbul, 2001)*, Vol. 3, pp. 2117-2121. Lisse: Balkema, 2001.

Kreienmeyer, I. N. Müller-Höppe, L. te Kamp and H. Konietzky. “Development of a Parallel Version of FLAC3D and Its Application for the Modelling of Large Thermo-Mechanical Coupled Systems,” in *Proceedings, EUROCK '2000 (Aachen, 2001)*, pp. 675-680. Essen: Verlag Glückauf Essen, 2001.

Minkley, W., W. Menzel, H. Konietzky and L. te Kamp. “A Visco-Elasto-Plastic Softening Model and Its Application for Solving Static and Dynamic Stability Problems in Potash Mining,” in *FLAC and Numerical Modeling in Geomechanics — 2001 (Proceedings of the 2nd International FLAC Conference, Lyon, France, October 2001)*, pp. 21-27. D. Billiaux et al., Eds. Lisse: Balkema, 2001.

te Kamp, L., and H. Konietzky. “Simulation of Damage Mechanical Processes using Particle Methods,” in *Proceedings 19, CADEFM User's Meeting 2001 (Potsdam, 2001)*, Vol. 1, No. 1.1.13.

Konietzky, H. *Numerische Simulationen in der Geomechanik mittels expliziter Verfahren*. Dr.-Ing. habil. thesis, TU Bergakademie Freiberg, September 2000.

te Kamp, L., H. Konietzky, N. Müller-Höppe and M. Kreienmeyer. “Modeling Huge Coupled Systems with Parallel FLAC3D,” in *EUROCK '2000 (Proceedings of the 14th Symposium for Rock Mechanics and Tunnelling, Aachen, Germany, March 2000)*, pp. 675-679. Essen: Verlag Glückauf GmbH, 2000.

Ando, K., H. Kawamura, T. Tanaka, P. Blümling, M. Thury, H. Konietzky and L. te Kamp. “Long-Term Stability of Disposal Tunnel of Sedimentary Schist Rock — Evaluation for Deformation Mechanism Using Opalinus Clay in Mt. Terri,” in *Proceedings, 7th International Conference on Radioactive Waste Management and Waste Remediation (99ICEM, Nagoya, Japan, September 1999)*.

Kleier, A. J., L. Schumacher, H. d. Kleinschrodt, H. Konietzky, L. te Kamp and G. Aichinger. “Diskontinuumsmechanische Modellierung verfahrenstechnischer Prozesse mittels PFC - dargestellt am Beispiel der Feststoffströmung in einem COREX-Reduktionsschacht,” in *Proceedings, 17th CADFEM User Meeting (Sonthofen, October 1999)*, pp. 1-9.

Konietzky, H. “Mechanisch-hydraulisch gekoppelte Modellierungen mit expliziten Berechnungsstrategien,” in *2nd Workshop, Kluft-Aquifere*, pp. 73-87. Aachen, Germany: Shaker-Verlag, 1999.

Konietzky, H. “Simulation von Injektions- und Fracprozesses,” in *Fachtagung Injecta'99 (Proceedings, 1st International Congress for Grouting Technique in Mining and Civil Engineering)*, pp. 151-159. Essen: Verlag Glückauf, 1999.

Konietzky, H., L. te Kamp and P. Kamlot. “A Simple Procedure to Model Flow Through Fractures and Double Porosity and Its Practical Application,” in *FLAC and Numerical Modeling in Geomechanics (Proceedings of the Conference, Minneapolis, September 1999)*, pp. 141-145. C. Detournay and R. Hart, Eds. Rotterdam: Balkema, 1999.

Konietzky, H., L. te Kamp, Z. Rakowski and R. Snuparek. “Thermo-Mechanical Coupled Scoping Calculations for Tunnels,” in *FLAC and Numerical Modeling in Geomechanics (Proceedings of the Conference, Minneapolis, September 1999)*, pp. 325-329. C. Detournay and R. Hart, Eds. Rotterdam: Balkema, 1999.

te Kamp, L., H. Konietzky and K. Blümling. “Three-Dimensional Calibrated Stress Field Modelling for the Planned Wellenberg Repository in Switzerland,” in *Numerical Models in Geomechanics (Proceedings of the VII International NUMOG Symposium, Graz, March 1999)*, pp. 385-390. Rotterdam: Balkema, 1999.

te Kamp, L., H. Konietzky, P. Blümling, K. Ando and J. C. Mayor. “Micromechanical Backanalysis of Lab Tests on Rocks,” in *Numerical Models in Geomechanics (Proceedings of the VII International NUMOG Symposium, Graz, March 1999)*, pp. 411-416. Rotterdam: Balkema, 1999.

Konietzky, H., and G. Müller. “Auf das Einfache reduziert — Simulation von Misch, Abfüll- und Transport-sowie Zerkleinerungsprozessen,” *Pharma-Process*, 48-50 (1998).

Müller, G., and H. Konietzky. “Modellierung mechanischer Verfahrensprozesse: Prozeßoptimierung durch Simulation,” *die Ernährungsindustrie*, 7+8(98), 12-14 (1998).

Salzer, K., H. Konietzky and R.-M. Günther. “A New Creep Law to Describe the Transient and Secondary Creep Phase,” in *Proceedings of the 4th European Conference on Numerical Methods in Geotechnical Engineering (Udine, Italy, October 1998)*, pp. 377-387. Vienna: Springer, 1998.

te Kamp, L., and H. Konietzky. “PFC — Eine neue Strategie zur numerischen Modellierung,” in *Proceedings 16, CADFEM User Meeting (Bad Neuenahr-Ahrweiler, Germany, October 1998)*, pp. 1/1-1/11. Grafing: CADFEM, 1998.

te Kamp, L., H. Konietzky, and F. Guérin. “Modeling of an Nuclear Underground Explosion,” *FRAGBLAST*, 2, 295-312 (1998).

Will, J., and H. Konietzky. "Neue Techniken der Numerik zur Berechnung von Felsböschungen," *Felsbau*, **16**(3), 155-167 (1998).

Konietzky, H., P. Blümling and L. te Kamp. "Site Characterization: The Tectonic Stress Field for the Planned 'Wellenberg Repository Site' in Switzerland," in *Geo-Engineering of Hazardous and Radioactive Waste Disposal Preprints (Proceedings of the 3rd European Geology Conference, University of Newcastle upon Tyne, September 1997)*, pp. 275-285.

te Kamp, L., H. Konietzky and F. Guérin. "Modeling of the Chagan Underground Nuclear Test with the Distinct Element Method," *FRAGBLAST*, **1**, 1-21 (1997).

Cundall, P. A., H. Konietzky and D. O. Potyondy. "PFC — Ein neues Werkzeug für numerische Modellierungen," *Bautechnik*, **73**(8), 492-498 (1996).

Konietzky, H., and P. Marschall. "Excavations Disturbed Zone Around Tunnels in Fractured Rock — Example from the Grimsel Test Site," *Geomechanics '96*, pp. 235-240. Z. Rakowski, Ed. Rotterdam: Balkema, 1996.

Konietzky, H., and P. Blüling. "In Situ Stress Field in the Wellenberg Area," *Nagra Bull.*, **26**, 38-47 (1995).

Konietzky, H. "Numerical Modelling of the Behaviour of Soft Ground for a Near-Surface Tunnelling Project in the Rhine/Ruhr District," *Interfels News*, **9**, 1-10 (January 1994).

Konietzky, H., R. Hart and D. Billaux. "Mathematische Modellierung von geklüftetem Fels," *Felsbau*, **12**(6), 395-400 (1994).

Konietzky, H., D. Billaux, P. Meny and R. Kastner. "Non-Linearities in Soil Mechanics — Case Histories," in *Geomechanics 1993*, pp. 193-198. Z. Rakowski, Ed. Rotterdam: Balkema, 1994.

Konietzky, von H., and F. Rummel. "Kalibrierte numerische Spannungsfeldmodellierungen," *Geotechnik*, **16**, 6-11 (1993).

Brox, D., H. Konietzky and F. Rummel. "In-Situ Stress Measurements Using Hydraulic Fracturing in Jointed Rock in Hong Kong," in *Proceedings of 6th Australia - New Zealand Conference on Geomechanics (Christchurch, New Zealand, February 1992)*.

Konietzky, H., and R. Stoll. "Locating of Seismic Sources in Rock Masses and the Determination of Source Parameters," in *Induced Seismicity*, pp. 131-140. Peter Knoll, Ed. Rotterdam: Balkema, 1992.

Konietzky, H., F. Rummel and A. Williams. "Stress Field Estimation in Hong Kong Using the Method of Hydraulic Fracturing," in *Rock Characterization (Proceedings of the ISRM Symposium EUROCK '92, Chester, U.K., September 1992)*, pp. 141-146. J. A. Hudson, Ed. London: British Geotechnical Society, 1992.

Konietzky, H. "Classification of Seismic Events in a Mining Area in the Erzgebirge Mountains of the GDR," *Gerlands Beitrage Geophysik, Leipzig*, **99**(2), 169-174 (1990).

Konietzky, H. "Locating of Seismic Sources in Rock Masses and the Determination of Source Parameters," *Gerlands Beitrage Geophysik, Leipzig*, **99**(1), 44-53 (1990).

Konietzky, H. "Results Concerning Source Parameters and Hazard Evaluation of Mining Tremors in a Deep-Level Mines by Means of an Automatic Seismic Monitoring System," in *Proceedings of the 4th International Symposium on Analysis of Seismicity and Seismic Risk (Bechyne, Czechoslovakia, September 1989)*, pp. 557-563. Czechoslovakia: Czechoslovak Academy of Science, 1990.

Konietzky, H. “Zur Konstanz des Seismisch Ermittelten Stress Drops — ein Diskussionbeitrag,” *Neue Bergbautechnik*, **20**(4), 152-153 (1990).

Konietzky, H., and R. Stoll. “Classification of Seismic Events in a Mining Area in the Erzgebirge Mountain of the GDR,” *Gerlands Beitr. Geophysik, Leipzig*, **99**(2), 169-174 (1990).

Stoll, R., and H. Konietzky. “Einige Praktische Resultate und Hinweise zur Spannungsakustik,” *Gerlands Beitrage Geophysik, Leipzig*, **99**(2), 175-178 (1990).

Stoll, R., H. Konietzky and G. Dunger. “Seismoakustik im Erzbergbau,” *Central Institute of Physics of the Earth of the Academy of Science of the GDR*, **108**, 1-120 (1989).

Konietzky, H. “Seismische Überwachung eines Bergwerkes,” KDT-Meeting, Geomechanische Probleme im Bergbau (Chemnitz, March 1988).