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Jiri Brezina Heidelberger Str. 68, Waldhilsba D-69 151 Neckargemünd Date of Birth: 6 April 1933 Place of Birth:Prague (CSR)	Ach Phone: email: Web 1: Web 2:		+49 +49 <u>j</u> http://teachi http://gran	0-6223-7014 0-6223-3421 b@grano.de ing.grano.de cometry.com
Marital Status: married, 2 childre	n			
Education				
Charles University (Prague, Septer Diploma in Geology and Geoche	nber 28, 1956): emistry	Bachelor's Scie	nce degree	equivalent
Charles University (Prague, March Aspirant Minimum (Dissertation	a 30, 1962): a) in Sedimentary Petrog	raphy Master of Scien	ce degree e	quivalent
Charles University (Prague, Decen Candidate of Geol. Sciences in N	nber 15, 1967): Mineralogy and Petrograp	phy PhD (Doctor of Philoso	phy) degree eq	uivalent
Employment				
Central Geological Survey of Czec	hoslovakia, Prague	Sept. 1	., 1955 – Ai	ug. 25, 1968
Geochronological Laboratory, Geo	l. Inst., Univ. of Heidelb	erg Mar.	1, 1971 – F	eb. 28, 1972
University of Maryland, European geology, physical science and as	Div., 32 years of continu tronomy	ious teaching	January 19	73 – present
development, construction & sug Sedimentation Analyzer and/or Sand Sedimenta institutions: Department of Sedimentology, U Department of Geology, Universe Department of Geology & Paleo Geol. Laboratory, AGIP Dept. of Hydromechanics (Franz Geological Survey of Germany (Dept. of Hydromechanics, Army Dept. of Geology, Techn. Univ. Department of Geology & GEOI	pply of computerized lab ation Separator has been Jniversity sity ntology, Univ. cius Institute), Univ. BGR) Univ. NeuBiberg MAR, Univ.	oratory equipment, suc contracted by the follo Heidelberg Marburg Tübingen Milano Hannover Hannover Munich Berlin Kiel	ch as Sand wing resear Germany Germany Italy Germany Germany Germany Germany Germany	rch 1971 1972 1973 1973, 1978 1975 1975 1978 1979 1979, 1988
Inst. of Mechanical Engineering, Inst. of Mechanical Engineering, Geol. Laboratory of SNEA(P), E Oceanographic Institution, CSIR Geological Institute of Petroleum Senckenberg Research Inst. of M Dept. of Geology, Alfred Wegene Department of Geology, Univers Department of Geology, Univers Marine Science Institute Marine Science Institute, Algary	, Technical Univ. , Technical Univ. Boussens n & Natural Gas farine Sciences er Inst. of Polar Research sity ersity sity	Karlsruhe Clausthal-Zellerfeld St. Martory, Pau Stellenbosch Fieri Wilhelmshaven Bremerhaven Trieste København Wien Gdansk Olhao/Faro	Germany Germany France S. Africa Albania Germany Germany Italy Denmark Austria Poland Portugal	1979 1980 1982 1984, 1986 1986 1986 1986 1992 1996 1998 1998 2000

Curriculum Vitae

Consulting in sand movement along the southern coast of the Bay of Venezuela & Bahia del Tablazo for Instituto Nacional de Canalizaciones, Caracas (Chacao), Venezuela May 19 for Instituto Nacional de Canalizaciones, Venezuela May 1972

Consulting in the theory of size distribution of Moon's dust, impact craters, & (micro)meteorites for Max Planck Inst. of Nuclear Physics, Dept. of Cosmochemistry, Heidelberg, Germany 1974

Professional Honors

Contributor to the two-volume (1527 pages) Geologic Encycl published by Czechoslovakian Academy of Sciences, Geol Geological Survey, Prague (CSSR), in the field of sedimen	opedia, main . – Geograph tary petrograj	editor Josef Svob y Section, Central phy & geochemist	oda, ry,1969 - 1961
National Editor for Czechoslovakia of <i>Sedimentology</i> (a publ of Sedimentologists),	ication of Inte Leyden,	ernational Associa The Netherlands	ntion 1962 – 1968
Editor of the Proceedings of the 24 th Internat. Geol. Congress	,Prague,	CSSR,	1967 – 1968
Alexander von Humboldt Postdoctoral Fellowship (Bonn – B of Mechanical Engineering, Univ. of Karlsruhe,	ad Godesberg Germany,	g, Germany) at the Jan. 1, 1969 – I	e Inst. Feb. 28, 1971
Chairman of the Conference on Sand Sedimentation Analyze Internat. Association of Sedimentologists,	rs, 8th Interna Heidelberg,	at. Sedimentol. Co Germany,	ongress, Sept. 1971
Patent 22 51 838 awarded for Foil-Spring Precision Balance,	Munich,	Germany,	24 July 1975
Co-Chairman of the 1 st Working Group Meeting on Modern I International Union of Geological Sciences, Committee on Bedford Institute of Oceanography (BIO).	Methods of G Sedimentolo Dartmouth.	rain Size Analysis gy, Canada.	s, Jan. 1986
Organizer & Co-Chairman of the 2 nd Working Group Meetin Grain Size Analysis, Internat. Union of Geological Science	g on Modern	Methods of	
Committee on Sedimentology, University of Heidelberg,	Heidelberg,	Germany,	Oct. 1987

Main Scientific Achievements

- Stratigraphy, Mineralogy, and Geochemistry of the Miocene Volcanism of Carpathian Mts. on the Territory of Moravia and Slovakia from Mostly New Occurrences of its Pyroclastic Admixtures within the Intra- and Extra-Carpathian Mollasse Deposits (J. Brezina, 1967). Based on fieldwork and laboratory analyses of more than 12,000 samples (most of them from boreholes up to 4 km), this study provides a valuable correlation tool for stratigraphy of the Miocene sediments, particularly in the search for petroleum and natural gas.
- Mathematical Formula for the Drag coefficient as a Function of the Reynolds' Number and Shape Factor of Irregular Sedimenting Particles (J. Brezina, 1979b). The formula makes it possible to explicitly compute any variable from the remaining variables involved, such as particle size, sedimentation velocity, SF particle shape, particle density, fluid viscosity, fluid density and gravity acceleration, within a wide range of the Reynolds' number. This equation generalizes and merges the Stokes' and Newton's sedimentation equations and provides an additional parameter (particle Shape Factor), in other words, in contrast to the popular formulas of Matthews (R. J. Gibbs et al., 1979), the relationship by Brezina features a full polynomial solution (free of the limitations known for the Gibbs' formulas), not only for spherical but also irregular natural particles. The author has processed more than 5,000 critically selected data for that equation and materialized its numerical solution by a computer program SedVar[™] (current version 7.0, written in C++ language). This program can mutually convert not only single values but also the distributions of the main sedimentation variables. The author is currently developing an algebraic solution of the main equation using the method of Lodovico Ferrari, 1540 (Gerolamo Cardano, *Ars magna de Regulis Algebraicis*, 1545).
- Mathematical expression for limiting terms of mutual hydrodynamic interference of sand-sized particles sedimenting in a stratified suspension (J. Brezina 1970). This relationship determines a suitable size of sand samples (used for sedimentation studies) at which the particles settle as individual grains without streaming phenomena.
- Mathematical solution for determination of particle shape (SF) from a settling rate distribution matched to a sieve particle size distribution by equaling their inverse distribution functions (J. Brezina 1980). The method is materialized within the program SHAPETM, originally written in FORTRAN language, and currently converted into C++. The resulting series of SF values can be used for automatic calibration of the author's Sand Sedimentation Analyzer and his program SedVarTM.
- **Development of Sand Sedimentation Separator (J. Brezina 1988).** This world-unique laboratory instrument is capable of isolating sediment samples into as many as 25 fractions based upon differences in arbitrarily chosen sedimentation velocity values. The separation, applied even on small

samples, uses all particles of each; and does not leave any not-separated remainders. Used on sieve fractions, this instrument makes possible the separation of particles according to their dynamic density and/or shape almost continuously. This is useful for isolation of heavy minerals (without a need to use poisonous heavy liquids) and porous microfossils (without tedious manual work under the microscope).

Invited Presentations

"Types of Statistical Distributions and the Homogeneity of a Statistical Population"; A Two-Day Seminar "Application of Mathematical Methods in Geology"; Czechoslovakiar Scientific – Technical Society and Central Geological Survey, Prague (Czechoslovakia),	ı Nov. 19	967
"Stratified Sedimentation above Stokes' Range and its Use for Particle Size Analysis"; Particle Size Analysis Conference, University of Bradford (England)	Sept. 19	970
"Settling Methods for Size Analysis of Sands"; 8 th International Sedimentological Congress of IAS, Univ. of Heidelberg (Germany)	Sept. 19	971
 Day 1 "Grain Size Analysis of Sands, Particularly by a Sedimentation Technique: Theory & Demonstration of a Computerized Precision Sedimentation Balance" (in English); Day 2 "Origin & Interpretation of Grain Size Distribution; Application Examples from Sedimentology"; 		
Day 3 "Discussion and Free Analyzing of the Samples of Visitors" (in English); Labor. of Mining Geology (Prof. M. G. Atjak), Delft Techn. Univ., Netherlands;	Apr. 19	975
"Drag coefficient as a Function of the Reynolds' Number and Shape Factor of Sedimenting Particles Applied to Sand Grain Size Analysis: Theory & Demonstration of a Computerized Settling Tube" (in English); Inst. of Hydraulic Research (Prof. Hunter Rouse & Prof. John F. Kennedy), University of Iowa, Iowa City, IA (USA);	May 19	977
"Particle size and settling rate distributions of sand-sized materials" (in English); 2nd European Symposium on Particle Characterisation (PARTEC), 24 – 26 September 1979, Nürnberg (Germany)	Sept. 19	979
"Sedimentological Interpretation of Errors in Size Analysis of Sands" (in English); 1 st European Meeting of IAS, University of Bochum (Germany)	Mar. 19	980
"Size Distribution of Sand – Sedimentological Interpretation" (in English); 26 th International Geological Congress, July 7 - 17, Paris (France),	July 19	980
"Grain-Size Analysis of Sand-Sized Materials" (in German); Seminar, Department of Crystallography, Univ. of Regensburg (Germany);	Dec. 19	980
"Modern Methods of Grain Size Determination of Sand-Sized Material" (in German); Thursday-Colloquium, Inst. of Mineralogy & Petrology, Univ. of Munich (Germany);	May 19	984
"Sedimentological Variables of Sands – Measuring & Interpretation" (in German); Nov. 14, 1985, Inst. of Sediment Research, Mineralogic-Petrographic Institute, University of Heidelberg (Germany)	Nov. 19	985
"Sedimentological Variables of Sands – Measuring & Interpretation" (in German); Dec. 9, 1985, Geological – Paleontological Institute and Museum, University of Kiel (Germany)	Dec. 19	985
"Grain Density Distribution and Separation of Sand-Sized Minerals by Sedimentation" (in German); 2 nd Heavy Mineral Meeting, Inst. of Geology and Paleontology (Prof. D. Henningsen), Univ. of Hannover (Germany)	Apr. 19	988
"Sedimentation Analysis of Sand-Sized Materials" (in Czech); 54 th Petrological Seminar, Dept. of Petrology, Charles's Univ., Prague (CSSR)	Apr. 19	990
"Sedimentation of Particles with Irregular Shape (Merging of the Stokes' & Newton's Laws and their Extension to Non-spherical Particles)" (in Czech); Extraordinary Petrol. Seminar, Dept. of Petrology, Charles's Univ., Prague (CS Rep.)	Nov. 19	992

Field Geological Experience

Miocene Mollasse in Moravia and Slovakia Permotriassic of Palatinate Forest

Professional Societies

International Association of Sedimentologists, Paris (France),	1962 - 1999
Society of Economic Paleontologists and Mineralogists, Tulsa, OK (USA)	1963 - 1998
American Geological Institute, Alexandria, VA (USA)	1968 - 1995
German Geological Society, Hannover (Germany)	1971 - present
German Mineralogical Society, Bonn (Germany)	1971 - 1990

Special Administrative Activity

Liaison Representative for UMUC to Charles University of Prague (Czech Republic):	
interchange of individual students and faculty;	
faculty and student participation on mutual cultural and science projects;	
negotiation to establish a UMUC Campus in Prague.	1991 - present

References

- 1. Brezina, Jiri, 1956a, Report on geological mapping of the SE part of the south Moravian Lowland in the year 1955; petrographic evaluation of some Neogene sediments in the north and north-east part of the Inner-Alpine Vienna basin (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 10 pages.
- 2. Brezina, Jiri, 1956b, Petrographic evaluation of some sediments of the Vah river valley Neogene (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 10 pages.
- 3. Brezina, Jiri, 1956c, Inner-Alpine Miocene in south-east Moravia and western Slovakia; study in sedimentary petrography (in Czech); Master Thesis, Faculty of Natural Sciences, Charles' University, Prague (CSSR); Geofond (Central State Geological Archive), Prague (CSSR), 75 pages.
- 4. Brezina, Jiri, Tibor Buday & Ivan Cicha, 1956d, Report on geologic investigations in the South Moravian Lowland in the year 1955 (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), pages.
- 5. Brezina, Jiri, 1957a, Report on sediment-petrographic investigations in the inner-Carpathian Miocene 1956, Turiec basin (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 29 pages.
- 6. Brezina, Jiri, 1957b, Report on the petrography of Neogene sediments of the Turiec basin (in Czech); *Reports on Geological Investigations in the year 1956*, Central Geological Survey, Prague (CSSR); p. 18 19.
- 7. Brezina, Jiri & Tibor Buday, 1957, Rhyolitic tuffites in the Upper Helvetian and Sarmatian of the Moravian Lowland (in Czech, German summary); *Vestnik of the Central Geological Survey*, Prague (CSSR), vol. 32, No. 3/March, p. 178 182.
- 8. Brezina, Jiri, 1958a, Partial report on petrographic investigations in the year 1957; sedimentarypetrographic investigation of the Inner-Carpathian Miocene, South-Moravian Lowland (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 21 pages.
- 9. Brezina, Jiri, 1958b, Partial report on petrographic investigations in the year 1957; planimetric estimations of microscopic objects (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 15 pages.
- 10. Brezina, Jiri, 1959a, Preliminary report on new findings of pyroclastic materials in Miocene sediments in Moravia and western Slovakia (in Czech); *Reports on Geological Investigations in the year 1957;* Central Geological Survey, Prague (CSSR), p. 14 15.

- 11. Brezina, Jiri, 1959b, Report on the petrography of Lower-Pannonian sediments of the Vah River valley so called "Piestany beds" (in Czech); *Reports on Geologic Investigations in the year 1957*, Central Geological Survey, Prague (CSSR), p. 15 16.
- 12. Brezina, Jiri, 1959c, A quick method of modal analysis (Czech, English summary); *Vestnik of the Central Geological Survey*, Prague (CSSR), vol. 34, No. 3/March, p. 161 169.
- 13. Brezina, Jiri, 1959d, Report on the petrography of Neogene sediments from the boreholes of the Central Geological Survey in the Vah River valley in the year 1957 (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 6 pages.
- 14. Brezina, Jiri, 1959e, Petrographic characteristics of the Lower Tortonian sediments of the Boskovice Graben (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 9 pages.
- 15. Brezina, Jiri, 1959f, Petrographic evaluation of the borehole GB-2, Vcelna (south from Ceske Budejovice, South Bohemia), layer-groups from Zliv-Gmünd and from Mydlovary-Borovany (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 5 pages.
- 16. Brezina, Jiri, 1960a, Methods of the determination of grain size distribution (in Czech); Geofond, Prague (CSSR), 3 pages.
- Brezina, Jiri, 1960b, Principles of comminution (grinding) and calculation of characteristics of a granulometric composition; review (in Czech) of the Russian book by S. E: Andreev, V. V. Tovarov and V. A. Perov, Moscow (Metallurgizdat), 1959, 437 pages; *Vestnik of the Central Geological Survey*, Prague (CSSR), vol. 35, No. 3/March, p. 179 180.
- 18. Brezina, Jiri, 1960c, Preliminary petrographic and geochemic investigation of the Neogene rocks from Eastern Slovakia (Explanations to the geological general map of Czechoslovakia, sheet Trebisov (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 23 pages.
- 19. Brezina, Jiri, 1960d, Petrographic investigation of the Miocene sedimentary rocks of the Carpathian Fore deep (from the area of the geological general map of Czechoslovakia, sheet Brno, M-XXIX, task XXX/16 (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 9 pages.
- 20. Brezina, Jiri, 1960e, Petrographic investigation of the Lower Tortonian sedimentary rocks from the boreholes near Lobodice (for the underground gas reservoir); sheet M-33-95-D (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 3 pages.
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- 22. Brezina, Jiri, 1961a, Overview of the current petrographic knowledge about the sedimentary rocks of the Miocene of the Moravian foredeep (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 32 pages.
- Brezina, Jiri, Ivan Cicha + Frantisek Picha, 1961b, Lithologic description of the boreholes "AVB-VB" drilled in the year 1960 on the general map of CSR, sheets M-33-106-D (Slavkov near Vyskov) and M-33-118-B (Velke Bilovice) (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), ... pages.
- 24. Brezina, Jiri, 1961c, Current knowledge about clay minerals of the Neogene of the Vienna basin in the area of CSSR (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 18 pages.
- 25. Brezina, Jiri + Bedrich Jellinek, 1961d, Report about the development state of an automatic apparatus for sedimentation analyses (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), 11 pages.
- 26. Brezina, Jiri + Bedrich Jellinek, 1962a, Development of an automatic apparatus for grain size analyses (in Czech); *Geol. pruzkum* (SNTL, Prague, CSSR), vol. 4, No. 4/April, p. 121 122.
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- 28. Brezina, Jiri, 1962c, Report about the sediment-petrographic investigations of the Miocene, map of CSSR in the scale 1:50,000, sheet M-33-106-B, Vyskov, in the year 1961 (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), p. 8 15.
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- 30. Brezina, Jiri + Ivan Cicha, T. Czudek, J. Dvorak, F. Holanek, R. Rezac, and V. Spicka, 1962e, Explanations to the geological special map 1:50,000, sheet M-33-106-B, Vyskov (Task 5/2) (in Czech); Geofond (Central State Geological Archive), Prague (CSSR), p. 19 - 28, and 58 - 87.
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- 33. Brezina, Jiri, 1963c, Kapteyn's transformation of grain size distribution; *Journal Sediment*. *Petrology*, v. 33, No. 4/December, p. 931 7.
- Brezina, Jiri, 1963d, Classification and measures of grain size distribution, a preliminary report (English, Czech summary); *Vestnik of the Central Geological Survey*, Prague (CSSR), vol. 38, No. 6, p. 409 - 13.
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- Brezina, Jiri + Ivan Cicha + Jano Dornic, 1966, Stratigraphy and lithology of the Neogene; in: Jano Dornic et al., Explanations to the geological special map of CSSR 1:50,000, sheet M-33-107-A, Ivanovice na Hane (in Czech); Geofond (Central State Geological Archive), Praha (CSSR), p. 44 91.
- Brezina, Jiri, 1967a, Miocene sedimentary rocks of the Carpathian foredeep in Middle Moravia: Ph.D. thesis, Faculty of Natural Sciences, Charles' University, Praha, Czechoslovakia, 251 pages (particularly p. 5 - 8).
- Brezina, Jiri, 1967b, Homogeneity of a statistical population, basic distribution types; examples from size distributions of sedimentary rocks (manuscript in Czech); Seminar on Application of Mathematical Methods and Modern Computing Technology in Geology; Czechoslovakian Scientific-Technical Society at Geologicky pruzkum, Central Geological Survey, Prague; 6 - 7 November 1967, pages II/1 - II/6.
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- 44. Brezina, Jiri, 1972a, Stratified sedimentation above the Stokes' range and its use for particle size analysis: in M. J. Groves & J. L. Wyatt-Sargent (editors), 2nd Particle Size Analysis Conference,

University of Bradford (England), September 1970, paper 22, The Society of Analytical Chemistry, London (England), p. 255 - 266

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- 46. Brezina, Jiri, 1972c, Report about the thorium-protactinium method of dating marine sediments (development of chemical separation and chemical and physical quantitative determination of both elements) (in German); Laboratory for Geochronology, University of Heidelberg, March 1, 1971 February 28, 1972;
- 47. Brezina, Jiri, 1973, Coastal Research, March, p. 2 6
- 48. Brezina, Jiri & Karl Schmetzer, 1975, Emeralds from Ghana (a short note in German); Zeitschrift der Deutschen Gemmologischen Gesellschaft (Idar Oberstein, Germany), vol. 24, No. 2/June, p. 94
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- 52. Brezina, Jiri, 1979a, MacroGranometer[™] 1979, parts; GranoMetry, D-6903 Neckargemünd-3, W. Germany (unpublished technical documentation), 18 pages.
- 53. Brezina, Jiri, 1979b, Particle size and settling rate distributions of sand-sized materials: 2nd European Symposium on Particle Characterisation (PARTEC), Nürnberg, West Germany, reprinted (+1 page of comments and corrections) by the author on 25 January 1998; 44 pages.
- 54. Brezina, Jiri, 1980a, GranoMetry: for grain size analyses (in German), *GIT Labortechnik* (Darmstadt), February 1980, p. 86
- 55. Brezina, Jiri, 1980b, Sedimentological interpretation of errors in size analysis of sands; 1st European Meeting of the International Association of Sedimentologists, Ruhr University at Bochum (Germany), March 1980, p. 9 - 11.
- 56. Brezina, Jiri, 1980c, Size distribution of sand sedimentological interpretation; 26th International Geological Congress, Paris (France), July 1980, Abstracts, vol. 2, p. 442.
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- 58. Brezina, Jiri, 1981, Contribution to Sand Texture Sedimentology; *Coastal Research* (Florida State Univ., Tallahassee), vol. 5, No. 10, March, p. 5 9.
- 59. Brezina, Jiri, 1986, MacroGranometer, Operation Manual (in Czech); unpublished manuscript issued by GranoMetry, Dr. J. Brezina, D-6903 Neckargemünd-3, Germany, 16 December 1986, 34 pages.
- 60. Brezina, Jiri, 1989, Sand sedimentation analysis and separation 25 years of research and development (in German); *Deutsche Geologische Gesellschaft Nachrichten*, vol. 41, No. 10/October, p. 149-153.
- 61. Brezina, Jiri, 1990, Grain size analyses of sand-sized solids upon contract (in German); *Kontrolle* (Stuttgart), No. 5/May 1990, p. 61.
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- 64. Brezina, Jiri, 1996, SedVar[™], version 6.2C, computer program for GRM data processing, enabling conversion of PSI-laboratory distributions into those of any other sedimentational variable, such as

PHI grain size specified by a grain shape, PSI-standard, PSI-local (to any physical terms, such as sea water salinity, temperature and local gravity acceleration), logarithmic Reynolds' number, logarithmic grain density, and logarithmic grain shape; unpublished manuscript issued by GranoMetry, Dr. J. Brezina, D-69151 Neckargemünd-3 (Germany).

65. Brezina, Jiri, 2001 (November): Grain Size Distribution (in German: *Korngrößenverteilung*), in: Wolfgang R. DACHROTH, 2002, Manual of Engineering Geology and Geotechnics (in German: *Handbuch der Baugeologie und Geotechnik*), chapter 1.7.1; Springer Verlag, Heidelberg, Germany, 3rd edition (640 pp.); <u>http://www.springer.de/cgi-bin/search_book.pl?isbn=3-540-41353-7</u>