GRANOMETRY - Dr. Jiri Brezina

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lab instrumentsMacroGranometer™, Sand Sedimentation Analyzer, Advanced Settling Tube — the best sedimentation analyzer of sand sized material. It measures mass frequency distribution of settling rate and converts them into those of shape specified grain size, grain density, etc. Schematic view of the Sedimentation System is on the right.Sand Sedimentation Separator™, 3S™ — the world-wide only settling tube which isolates at least 25 settling velocity fractions (can be extended by 5 additional fractions during sedimentation). The separations are quantitative, i.e. no grain is lost. The fractions are specified with the resolution of 0.01 PSI. From monosized fractions, it precisely isolates heavy minerals without using heavy liquids, and porous microfossils such as foraminifers etc.softwareSedVarDP™ — Distribution Processing software converts independent distribution variables such as PSI settling rate (Laboratory, Local, Standard), PHI grain size, LRs grain density, LRe Reynolds Number. SedVarDP™ is part of the MacroGranometer™ systemSedVarNC™ —   Number Conversion software – mutually converts the sedimentation variables PSI settling rate, PHI grain size, LRs grain

density, LSF shape factor, LRe Reynolds Number. SedVarNC™ is part of the MacroGranometer™ system Shape™ — defines the measured settling rate distribution (and manually entered sieve size distribution) by 1 to 5 Gaussian components. It can match them by their inverse function (percentiles); and, from the PHI-PSI couples, it calculates pertinent Shape Factor values, which may be used as variable SF in the SedVarDP's

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