

Dr. Rüdiger Kessel

Dr. Rüdiger Kessel is the the founder and managing director of Metrodata GmbH and the developer of the application packages GUM Workbench, GUMCAD and the Open Monte Carlo Engine (OMCE).

Dr. Kessel worked as a scientist at the Institute for Reference Materials and Measurements (IRMM), at the National Institute for Standards and Technology (NIST) and at the National Metrology Institute of Germany (PTB).

Dr. Kessel holds a degree as Doctor of Science from the University of Antwerps (UA), Belgium.



Teaching and Education Activities

- Technical Cooperation: Workshops on Measurement Uncertainty in Vietnam, Kyrgyzstan and India
- Nuclear Safeguards Laboratories: Workshops on Measurement Uncertainty at the International Atomic Energy Agency (IAEA), in USA, in Brasil and in Japan.
- Calibration Laboratories: Workshops on Measurement Uncertainty in Germany, Austria, Switzerland and USA.

Scientific Committees

- GMA VDI Technical Committee 1.11 Measurement Uncertainty
- IUPAC Commission on Isotopic Abundances and Atomic Weights

Selected Publications

- [01] Rüdiger Kessel, Michael Berglund, Philip Taylor and Roger Wellum: How to treat correlation in the uncertainty budget when combining results from different measurements, AMCTM V 2000, Page 232, Published on: P.Ciarlini, M.G.Cox, E.Filipe, F.PAVESE and D.Richter (eds.): "Advanced Mathematical Tools in Metrology, vol. 5", Series on Advances in Mathematics for Applied Sciences vol. 57, World Scientific, Singapore, 2001.
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- [08] Stefan Heidenblut, Rüdiger Kessel, Klaus-Dieter Sommer, Albert Weckenmann: Ein Modellbildungskonzept

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- [10] Rüdiger Kessel, Michael Berglund, Roger Wellum: Application of consistency checking to evaluation of uncertainty in multiple replicate measurements, *Accreditation and Quality Assurance*, DOI 10.1007/s00769-008-0382-x, 2008.
- [11] Roger Wellum, Andre Verbruggen, Rüdiger Kessel: A new evaluation of the half-life of Pu, *J. Anal. At. Spectrom.*, DOI:10.1039/B819584F, 2009.
- [12] Raghu Kacker, Rüdiger Kessel, Klaus-Dieter Sommer: Assessing differences between results determined according to the Guide to the Expression of Uncertainty in Measurement, *NIST Journal of Research*, 2010.
- [13] Rüdiger Kessel: Open Monte Carlo Engine User Manual, NIST Interagency/Internal Report (NISTIR) 7739, 2010.
- [14] Raghu Kacker, Rüdiger Kessel, Klaus-Dieter Sommer: Uncertainty Budgeting for Range Calibration, *Measurement Systems and Process Improvement (MSPI) 2010*.
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