Managing heat and disorder, calorimetric assays in life sciences

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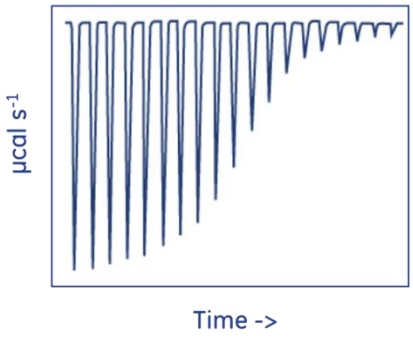
Abstract: This seminar will discuss the use and application of calorimetric assays in determining affinities and stability parameters in life science. It will highlight the added value given by thermodynamic profiling in order to differentiate interaction systems and monitor effects of modifications seen in enthalpy/entropy changes. We will also discuss high resolution thermal stability assay for domain de-convolution and how modifications and composition influences domain/global thermal stability. The seminar will cover instrumentation, application examples and sample preparation.



BIO:

Peter joined Malvern Instruments Ltd 2014 in connection to the acquisition of MicroCal from GE Healthcare. Prior that, Peter worked at GE healthcare, Life sciences as senior application specialist for microcalorimetry covering Europe, Middle East and Africa. The function allows him to interact with users on a daily basis regarding all aspects of instrumentation, assay developments and data analysis in Isothermal Titration Calorimetry and Differential Scanning Calorimetry. He is based in Uppsala, Sweden. The role includes working closely with MicroCal R&D, service and Instrument user groups in both academic and industrial environments. A large part of his work is conducting training sessions, support visits and data analysis consultancy on/off site. Peter holds a Ba in Chemistry, Umeå University, Sweden