1106-D5-1896 **Anders K H Bengtsson*** (anders.bengtsson@hb.se), Allégatan 1, 50190 Borås, Sweden, and **Dragu Atanasiu** (dragu.atanasiu@hb.se), Allégatan 1, 50190 Borås, Sweden. *New Teaching Metaphors in Calculus.* Preliminary report.

We present teaching ideas in calculus ranging from global examples on how to approach the subject as such to local of how to approach its parts. A global example is to pivot a course in calculus on polynomials: start the course and do as much as possible with polynomials and then introduce transcendental functions through Taylor series. Avoid limits to begin with and work algebraically as much as possible. In this context we present how the mean value theorem can be made plausible for polynomials using Mathematica experimentation. Working with polynomials grounds the subject in concrete manipulations that are useful by themselves and the step to power series is natural and easy to illustrate with mathematical software. It allows for easy access to the subject's historical roots. A local example is to turn the usual sequence of concepts and proofs leading up to the derivative on its head, and state the definition without prior preparation and then subject it to text analysis much as a poem is first read and then subjected to analysis as done in literary criticism. The idea is that the logical structure of the subject is not necessarily the same as the didactical structure. The aim of the project is to collect new teaching ideas in order to infuse an old subject with new life. (Received September 15, 2014)