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Material Science meets Family Business

SMA has been well known in the context of actuator technology for many decades. Nevertheless, this technology tends to lead an outsider existence in practical applications. The main reason for this is that, firstly, it requires in-depth, usually application-specific, material know-how, secondly, potential customers must be convinced of the fundamental suitability of the technology and, thirdly, professional (large-scale) series development and production with all processes and certificates must be available in order to successfully launch a robust actuator system with SMA components on the market. All of this must also be done in such a way that no excessive explanation and training effort is required during the process, which would result in a significant loss of know-how.

A solution to this problem will be presented in the lecture and initial successes will be presented.