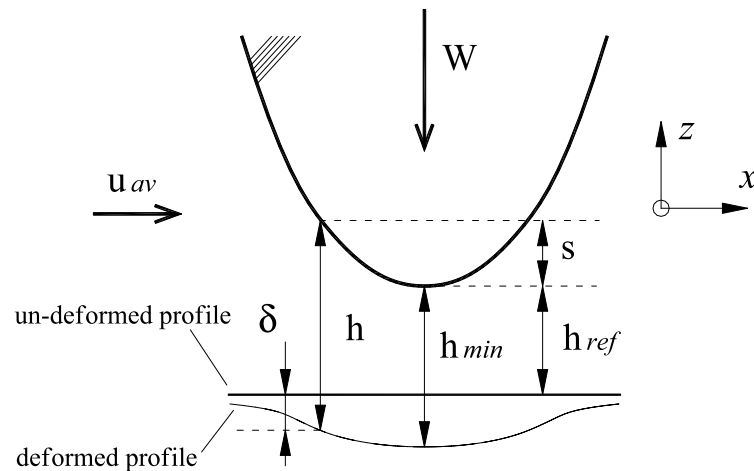


# Bounce of a roller on rough surfaces coated with a SAM (MEMS application)

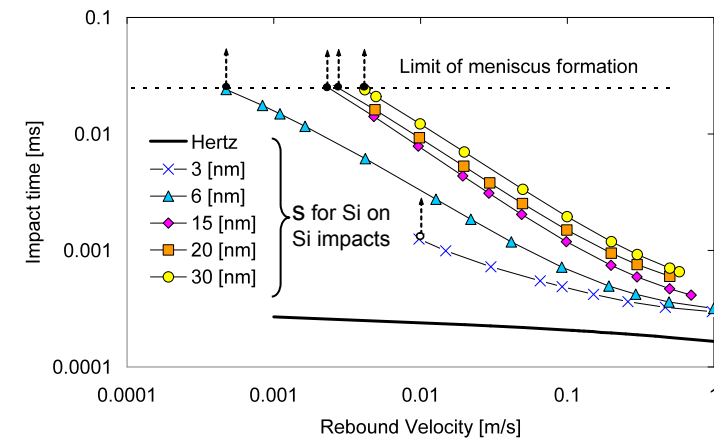
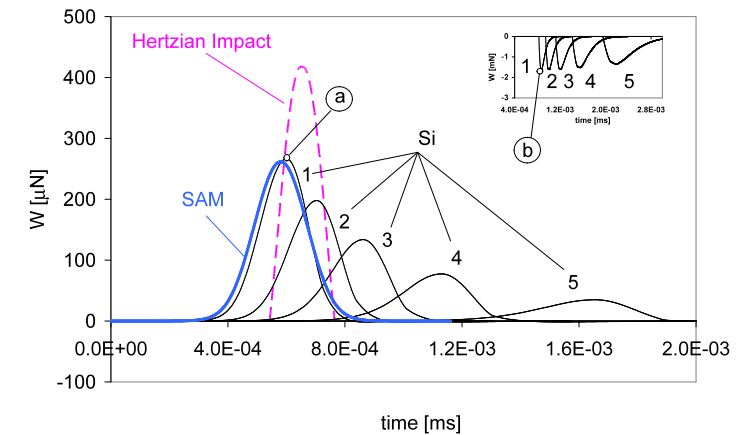
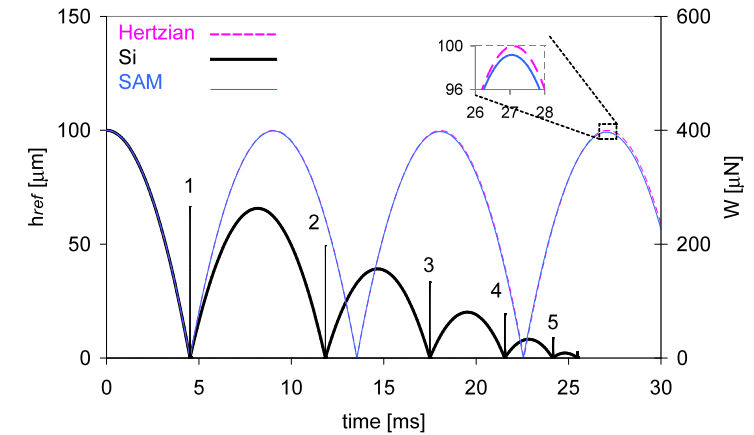
Coating: **Octyldecyltrichlorosilane** self-assembled monolayer (OTS-SAM)

Prevailing interactions:

- Adhesive forces
- micro-scale Elastic deformation



“Dry and wet nano-scale impact dynamics of rough surfaces with or without a self-assembled”, Proceedings of the Institution of Mechanical Engineers (IMechE), Journal of Nanoengineering and Nanosystems – Part N Vol. 221 (2), pp. 49-58 (2007)



Impulsive characteristics of rough elastic silica surface