

Script for Stent Coating Video – Side View

Before playing the video adjust the brightness and contrast so the fluid droplets can be better observed on the screen.

The sizes of the main elements in the video are: glass tip of the microdispenser $\sim 550\mu\text{m}$; drop size $\sim 50\mu\text{m}$.

The video shows a side view (camera perpendicular to the stent axis) of the stent coating process with the microdispenser glass tube being vertical on the center of the stage. The stent is positioned horizontally under the dispenser. The stent moves in a coordinated fashion (rotation and axial translation) so the strut is under the ejected fluid droplets. In the video, this motion is done along one strut in one direction and along another strut in the opposite direction. A still picture of the video is included in the proposal. When the stent moves towards the right the fluid deposited onto the struts can be barely seen as an appearing (deposition) and disappearing (evaporation) “bump” to the right of the ejected droplets. When the stent moves towards the left the “bump” appears to the left of the droplets.