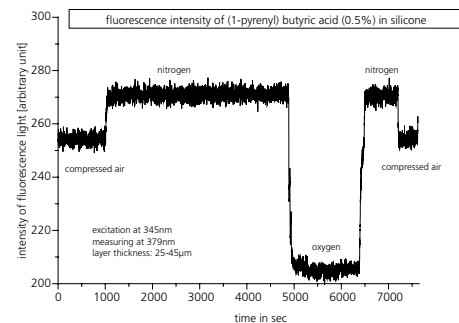


Detecting fluorescence quenching in a silicone layer with 0.5% pyrenyl butyric acid, time dependent measurement

The measurement shows the fluorescence intensities of a dye-containing silicone layer at changing gas composition in the sample chamber. The energy can pass radiationless from an excited dye molecule to oxygen. Thereby singlet oxygen develops. The measured decrease of fluorescence intensity is thus a possibility to detect the formation of singlet oxygen.



**Figure 1**