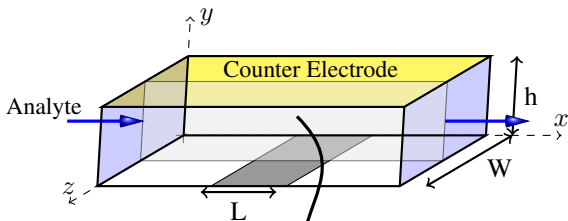


# Flow Chamber



## Advection-Diffusion Equation

Analyte  
 $c_o$   
 $Q$

$$\frac{\partial c}{\partial t} = \nabla \cdot [D \nabla c - v \nabla c]$$

$$\uparrow n \cdot D \nabla c = \frac{ds}{dt}$$

$$\frac{ds}{dt} = R_s = M r(s, c)$$

Surface Reaction Dynamics