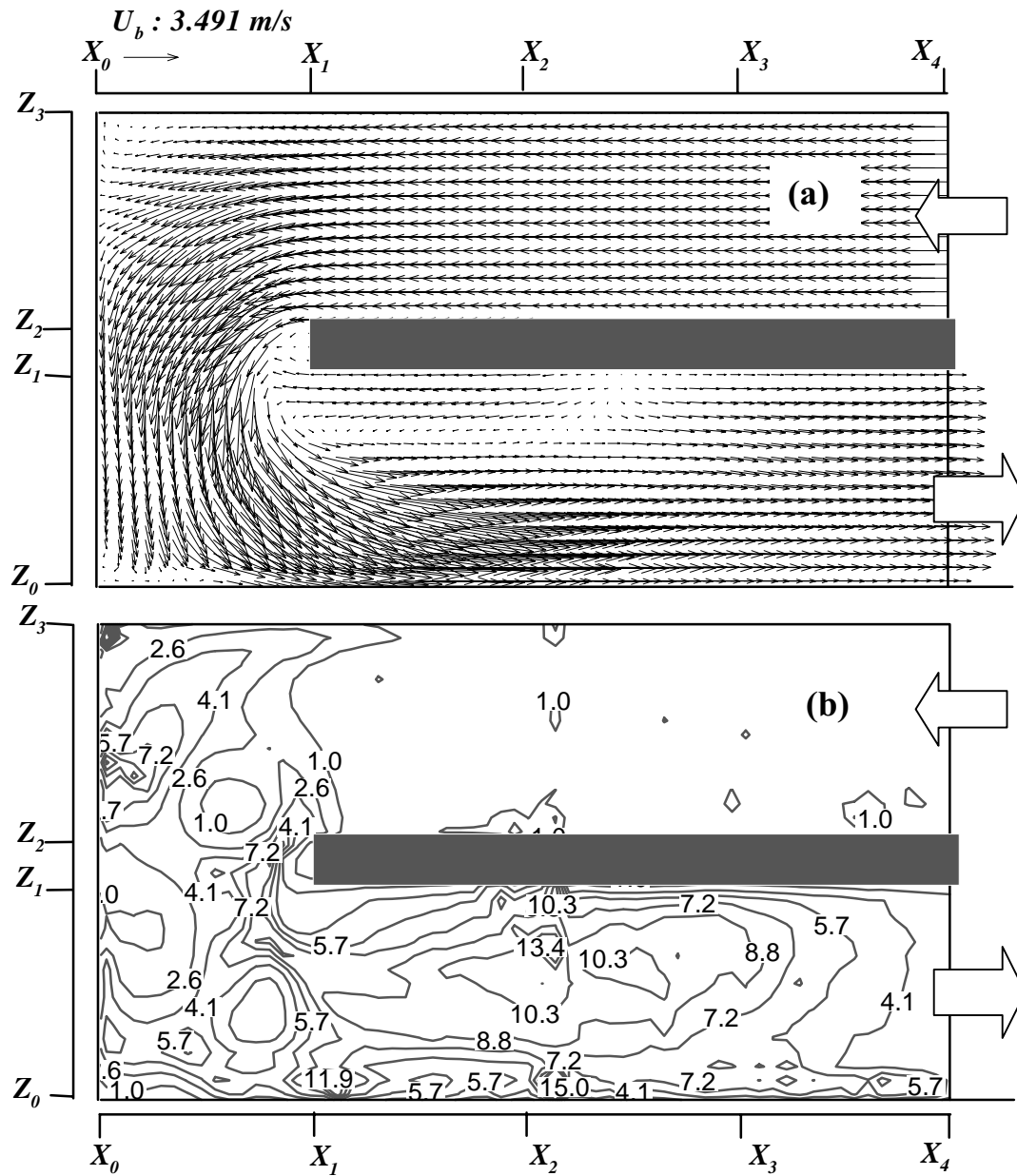


Micro-Scale Fluidics and Heat Transport Laboratory



Main flow development at $y = 0.5 Y_1$ with smooth wall at $Re = 12,000$;

(a) flow vector plot and (b) normalized turbulent kinetic energy $\frac{(\overline{u^2} + \overline{w^2})/2}{U_b^2} \times 100$ plot