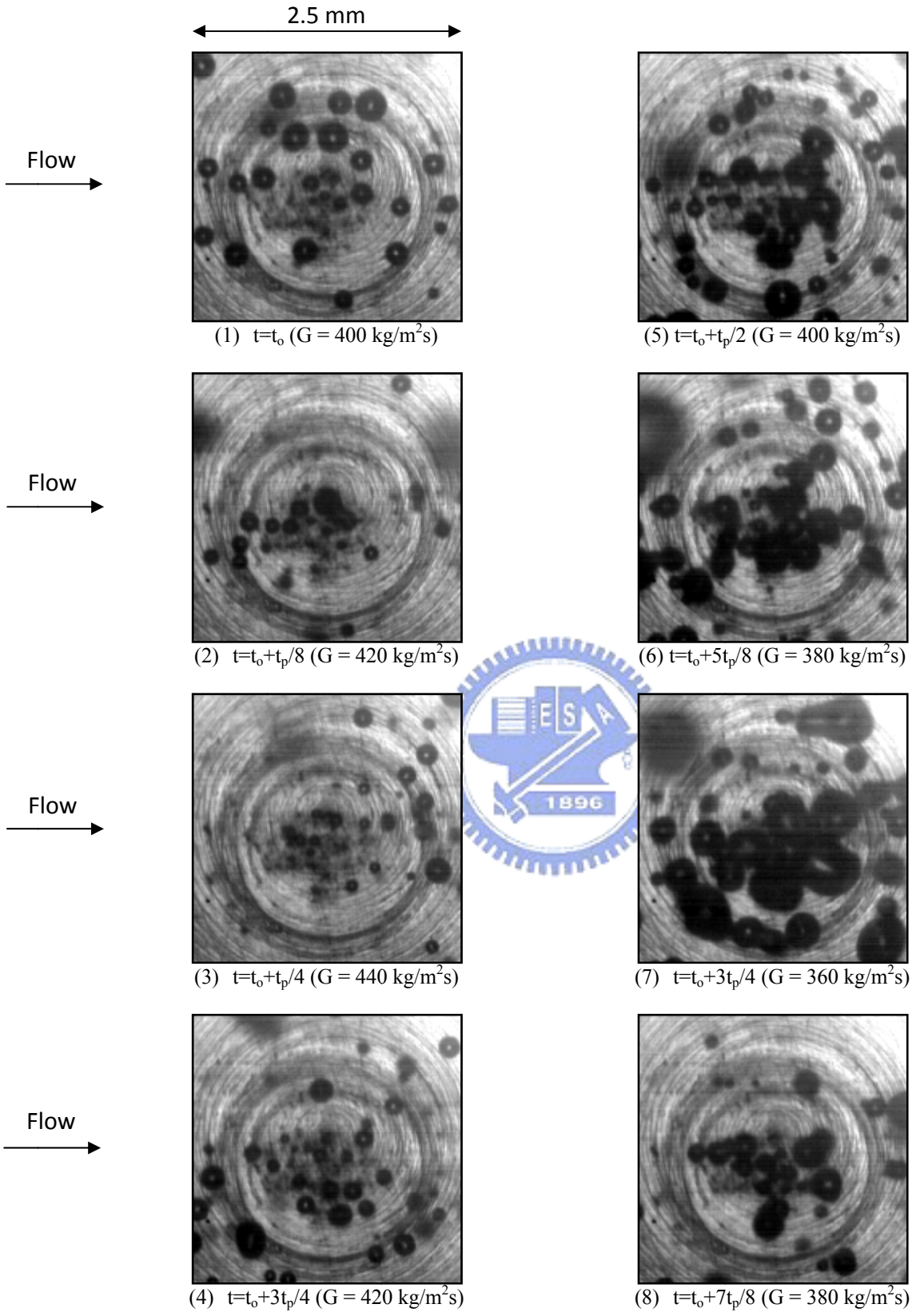


Fig.5.113 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=8.8 W/cm^2 and ΔT_{sub}= 5^{o}C at G=400±10% kg/m^{2}s with oscillation t_p=10s.

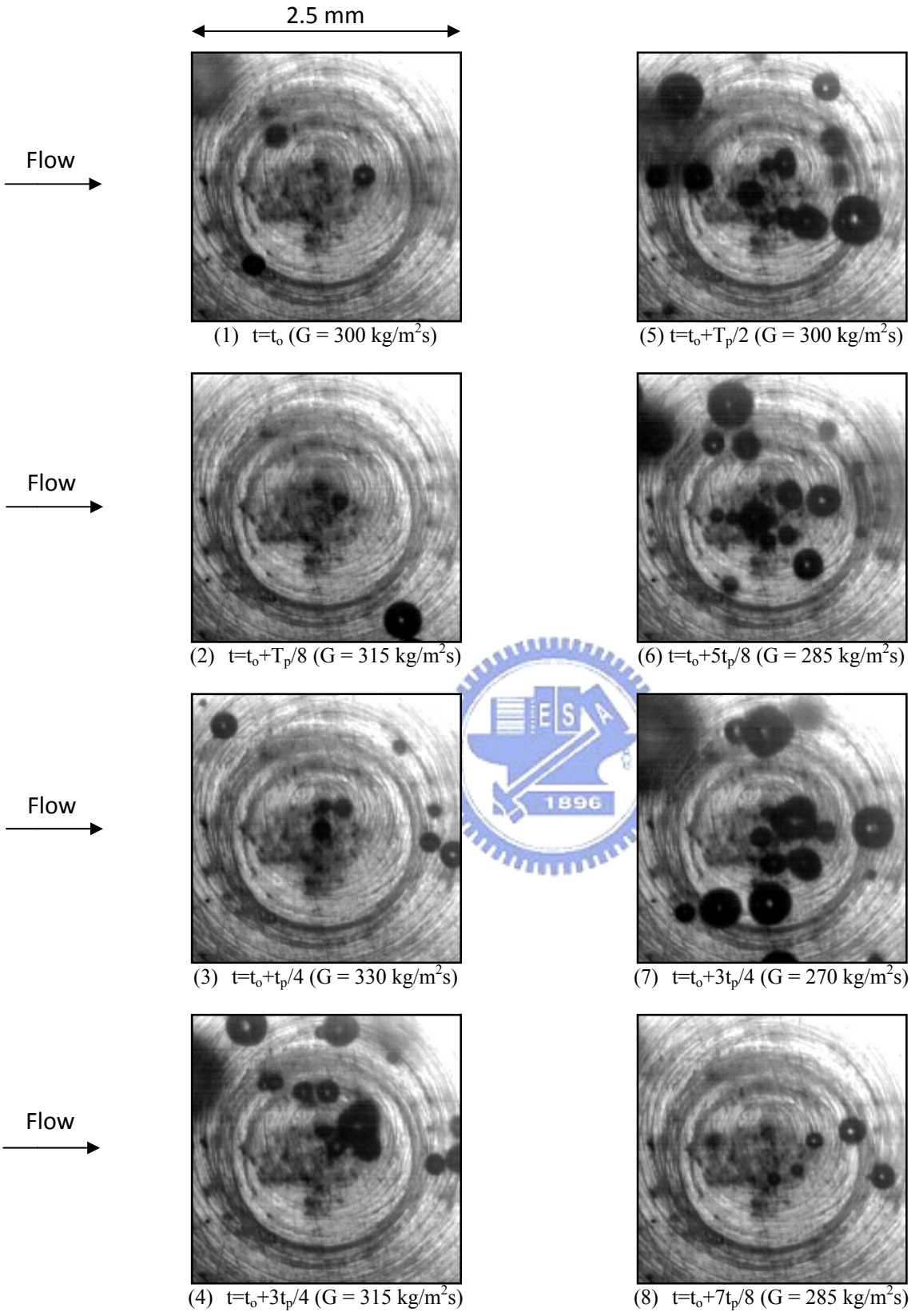


Fig.5.114 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=6.0 W/cm^2 and ΔT_{sub}= 5^{o}C at G=300±10% kg/m^{2}s with oscillation t_p=20s.

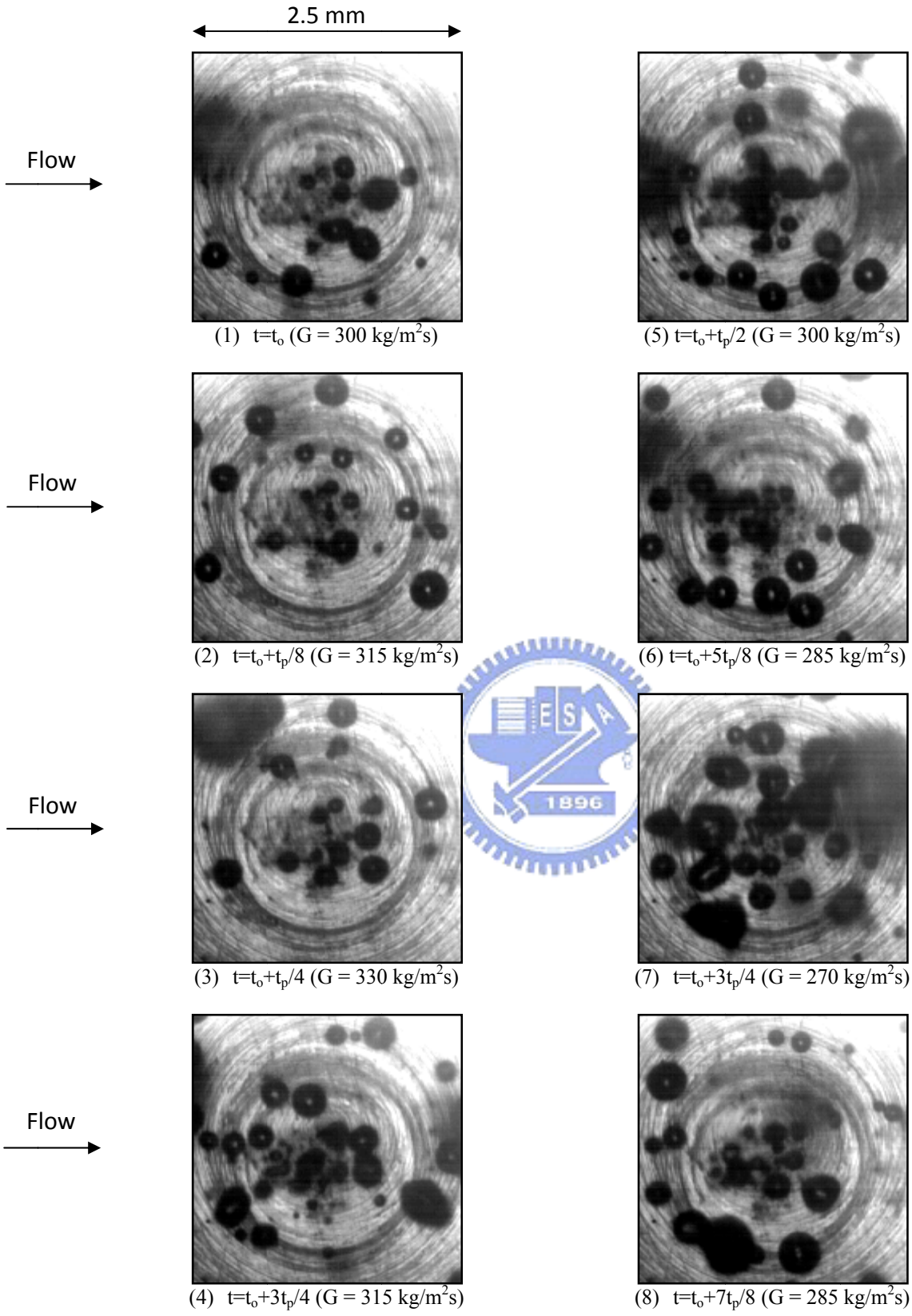


Fig.5.115 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=7.4 W/cm^2 and ΔT_{sub}= 5^{o}C at G=300±10% kg/m^{2}s with oscillation t_p=20s.

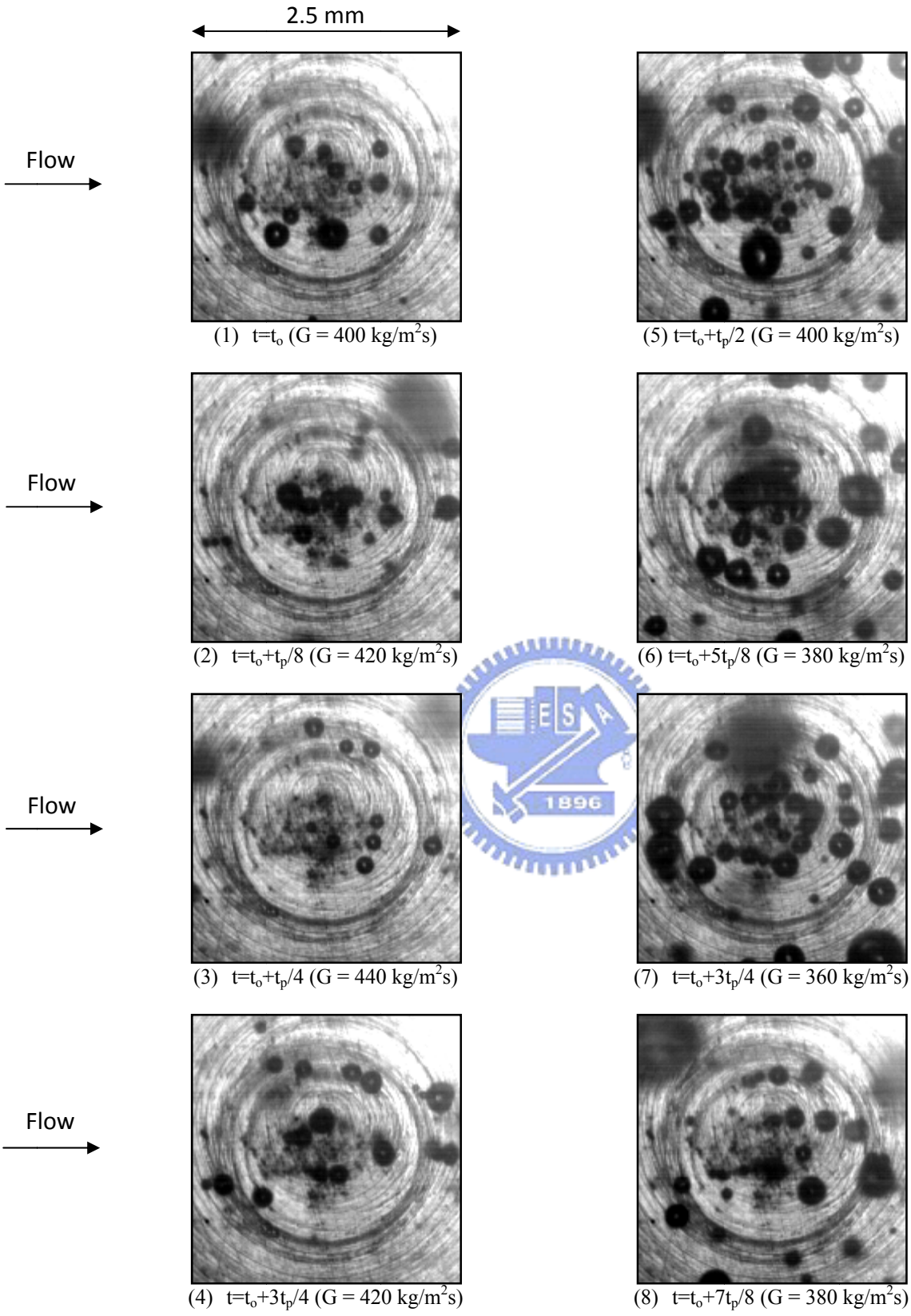


Fig.5.116 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=7.5 W/cm^2 and ΔT_{sub}= 5^{o}C at G=400±10% kg/m^{2}s with oscillation t_p=20s.

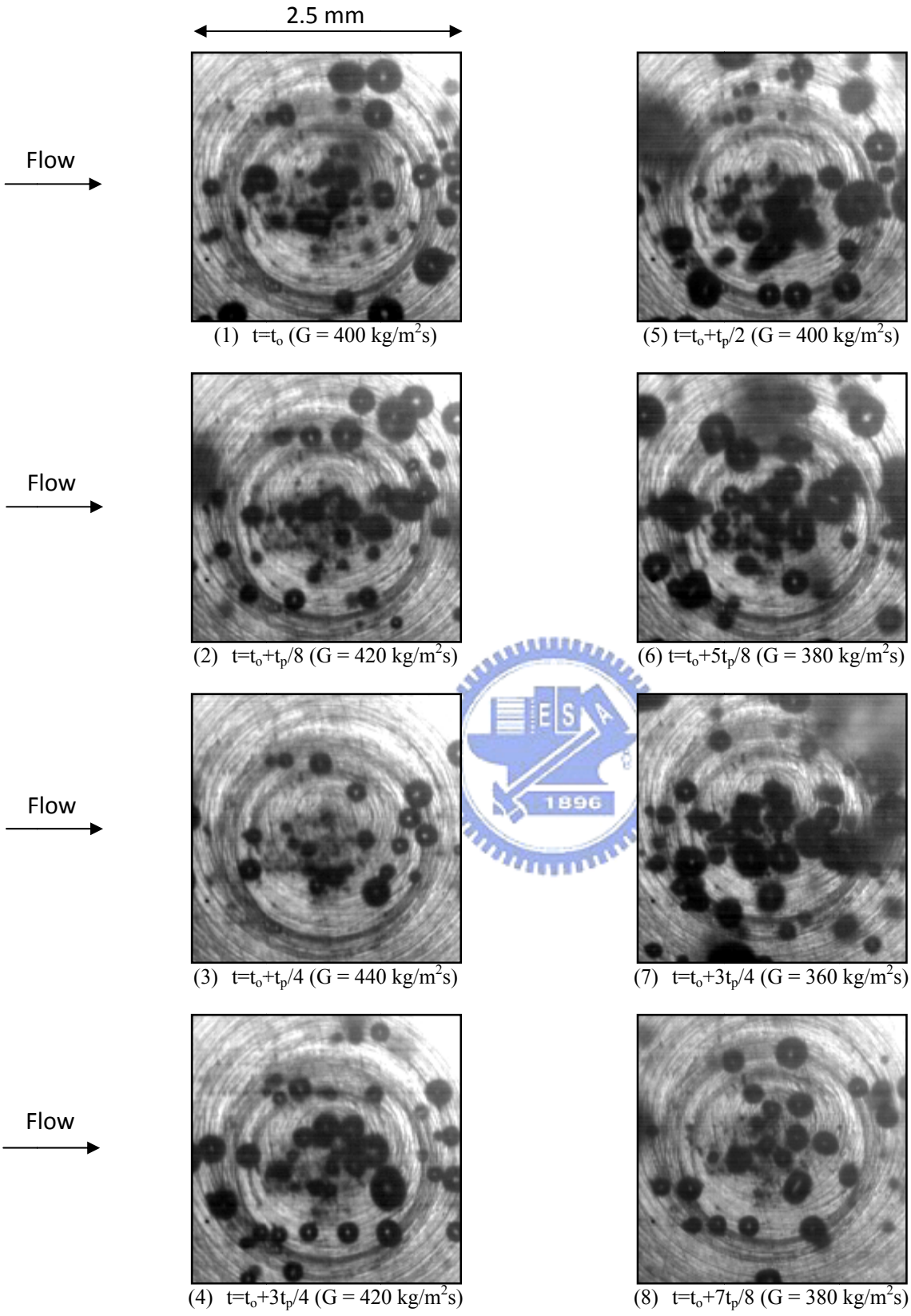


Fig.5.117 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=8.9 W/cm^2 and ΔT_{sub}= 5^{o}C at G=400±10% kg/m^{2}s with oscillation t_p=20s.

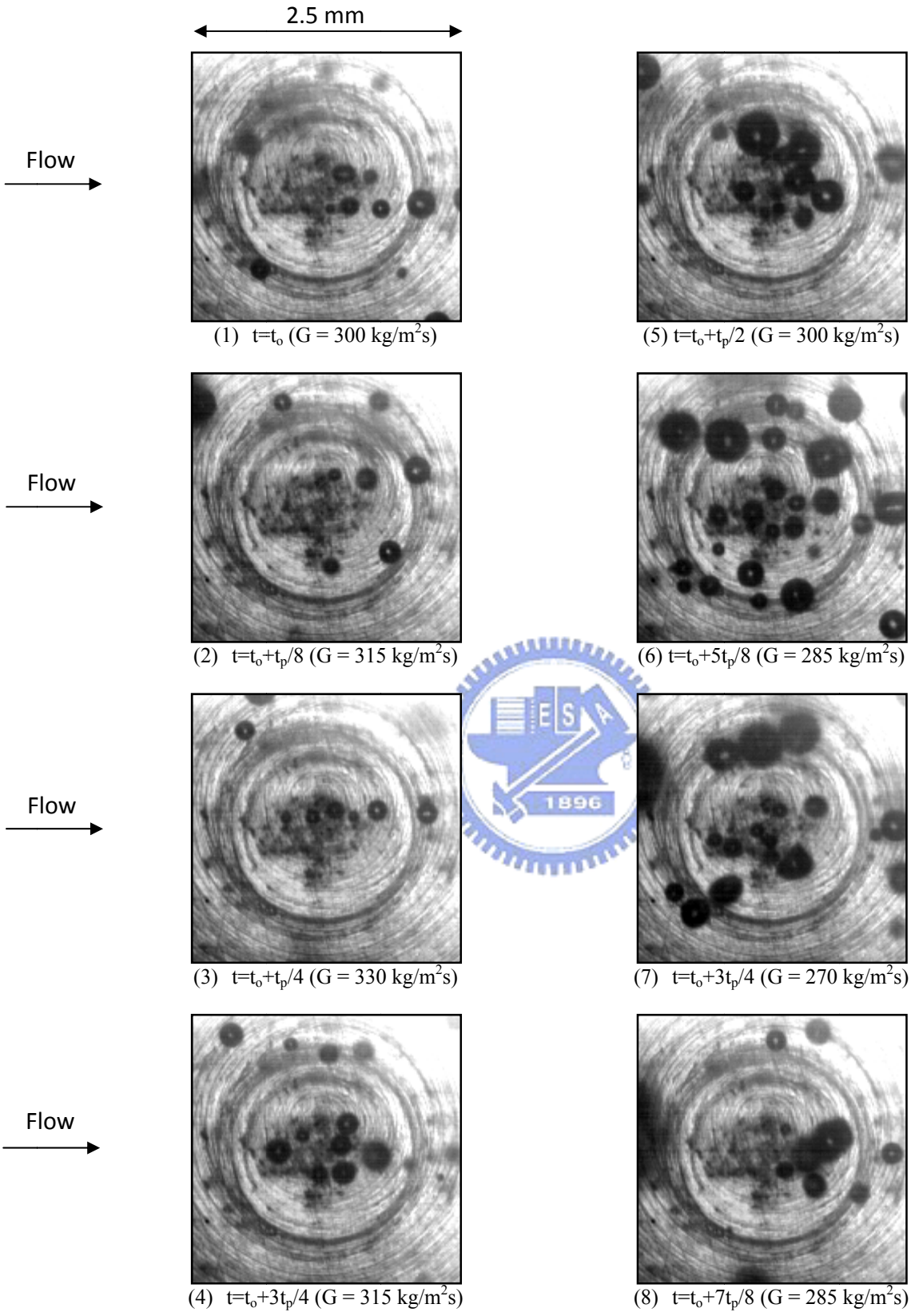


Fig.5.118 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=6.1 W/cm^2 and ΔT_{sub}= 5^{o}C at G=300±10% kg/m^{2}s with oscillation t_p=30s.

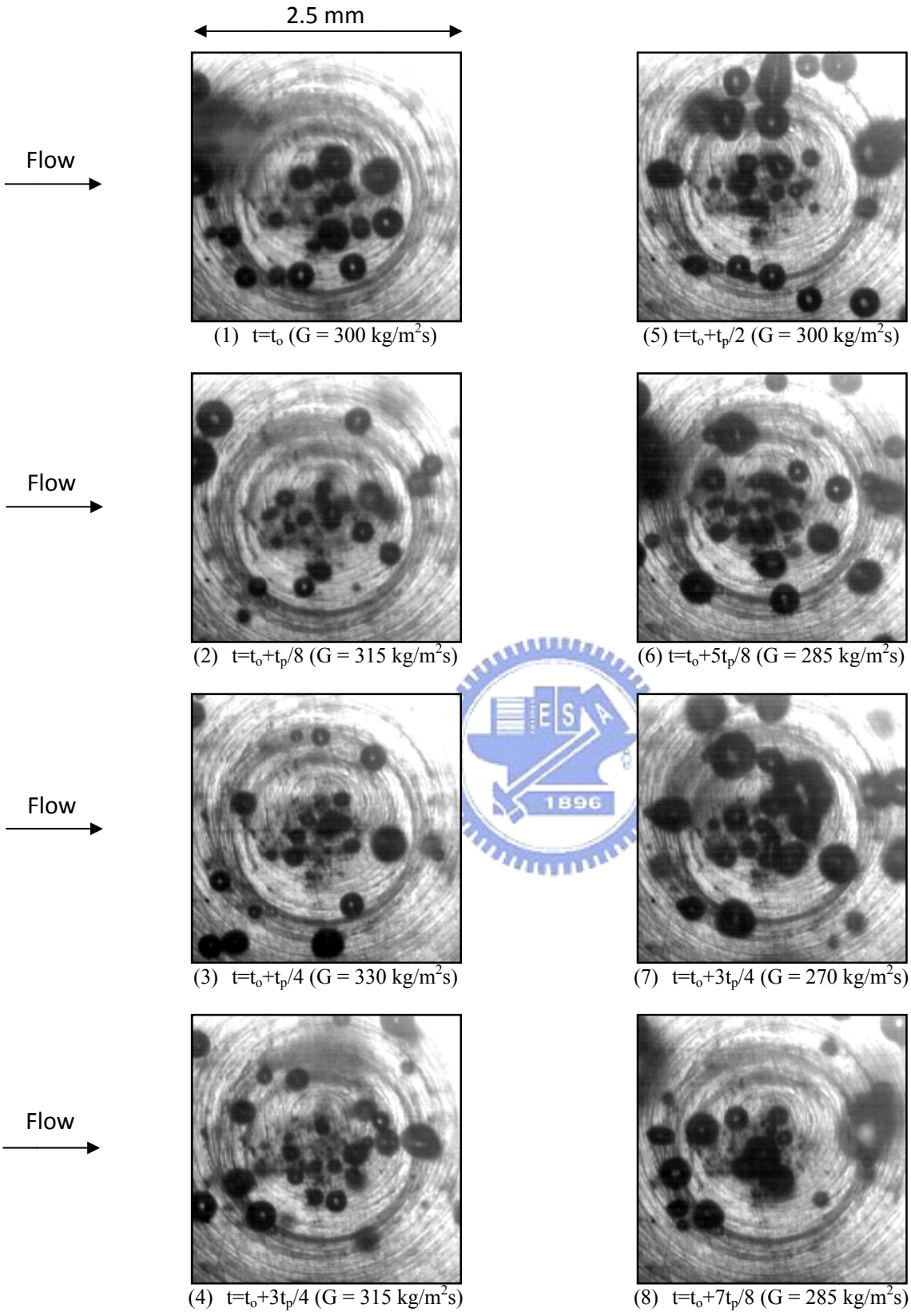


Fig.5.119 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=7.4 W/cm^2 and ΔT_{sub}= 5^{o}C at G=300±10% kg/m^{2}s with oscillation t_p=30s.

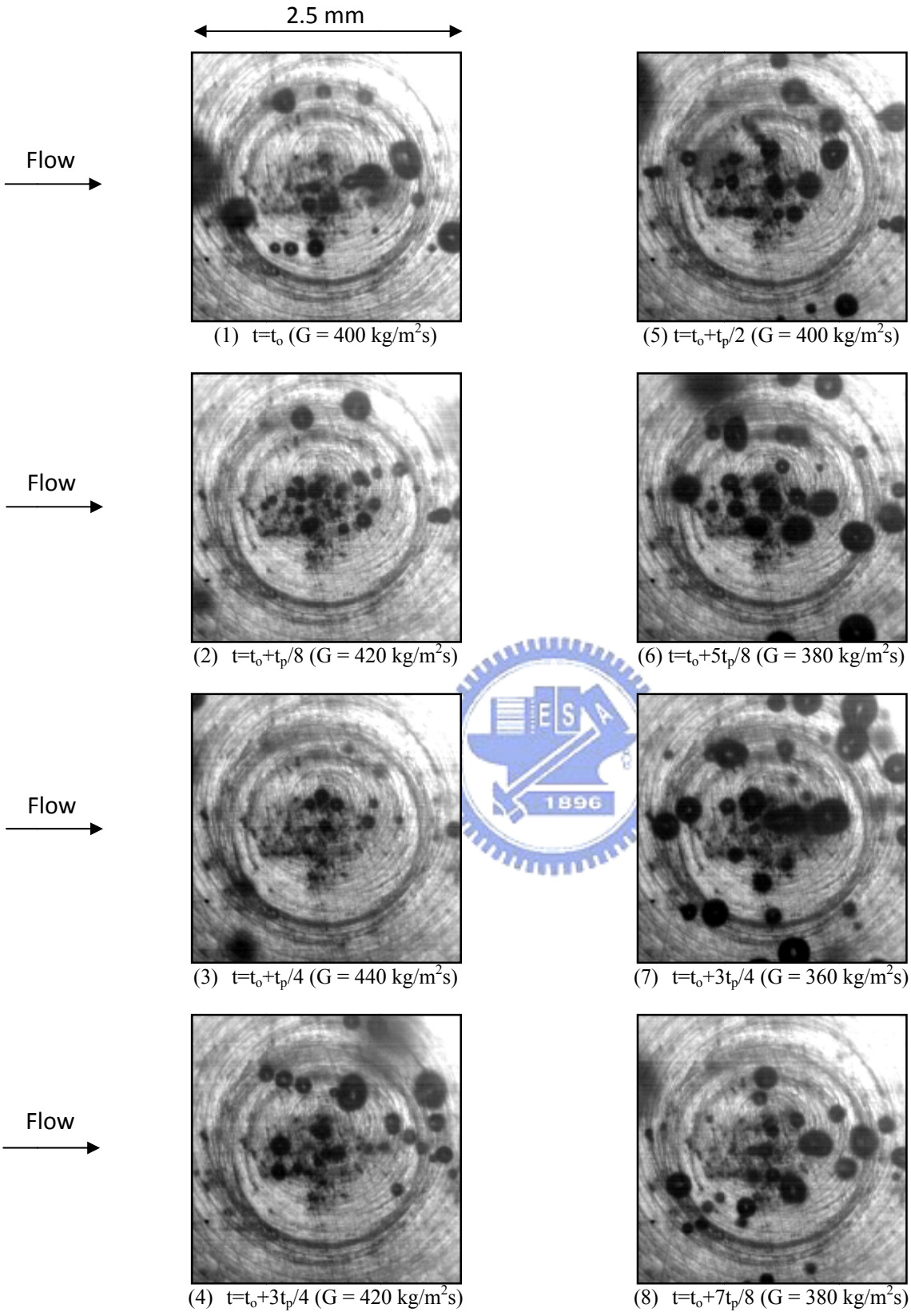


Fig.5.120 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=7.4 W/cm^2 and ΔT_{sub}= 5^{o}C at G=400±10% kg/m^{2}s with oscillation t_p=30s.

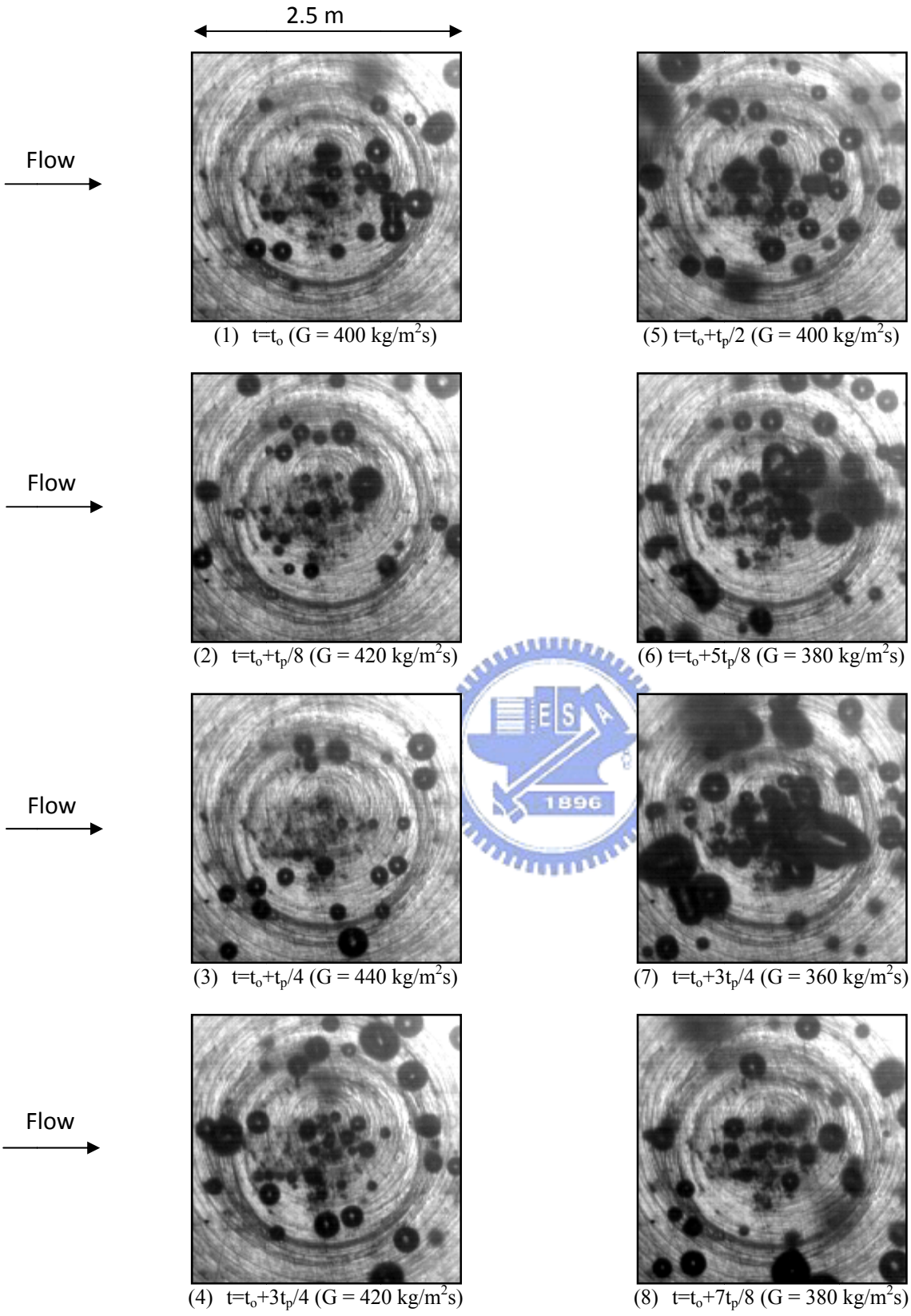
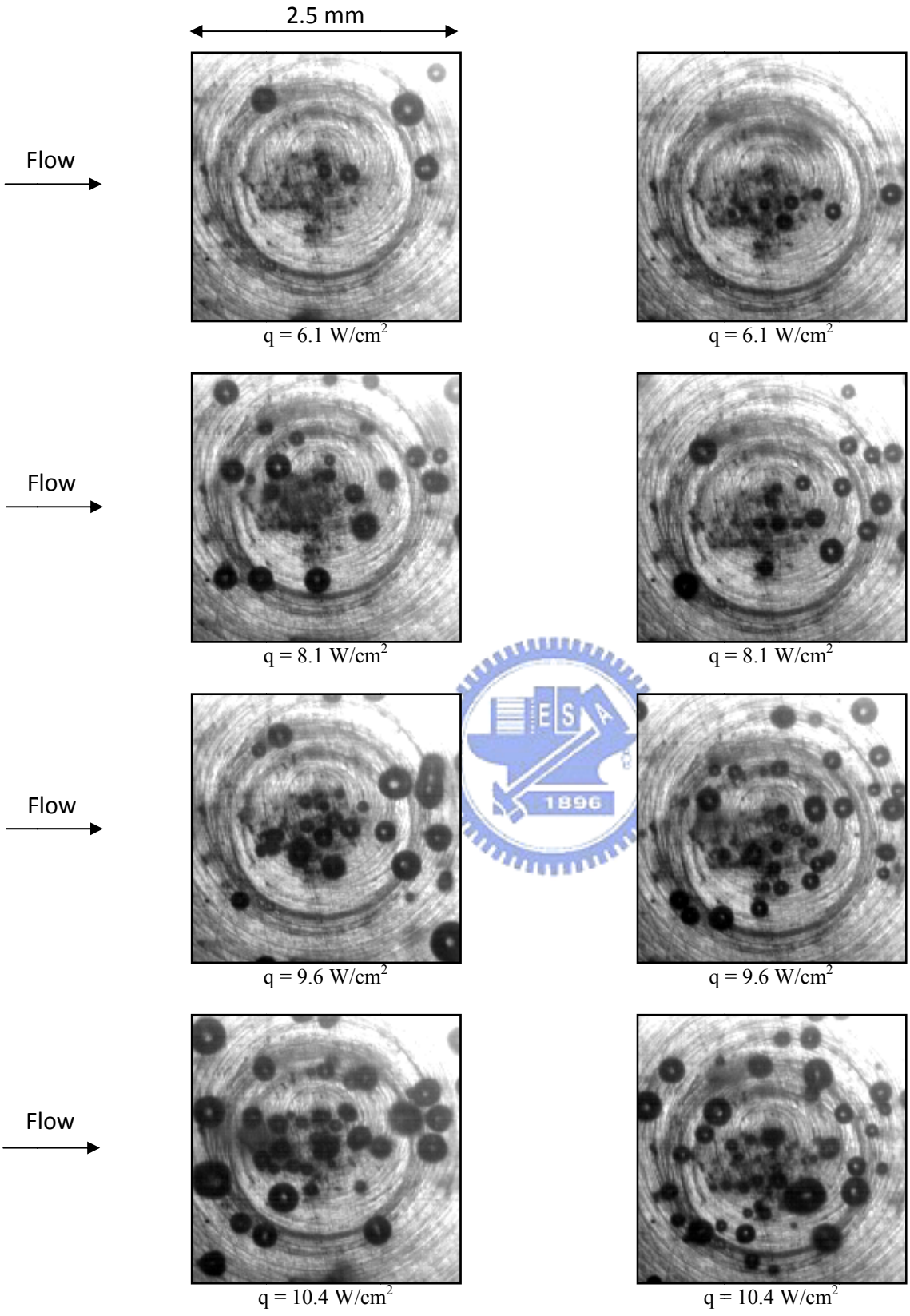


Fig.5.121 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=8.9 W/cm^2 and ΔT_{sub}= 5^{o}C at G=400±10% kg/m^{2}s with oscillation t_p=30s.



(a) G = 300 kg/m^{2}s (b) G = 400 kg/m^{2}s

Fig.5.122 Photos of stable subcooled boiling flow at certain time instants for various imposed heat fluxes at ΔT_{sub}= 10^{o}C for (a) G =300 kg/m^{2}s and (b) G =400 kg/m^{2}s.

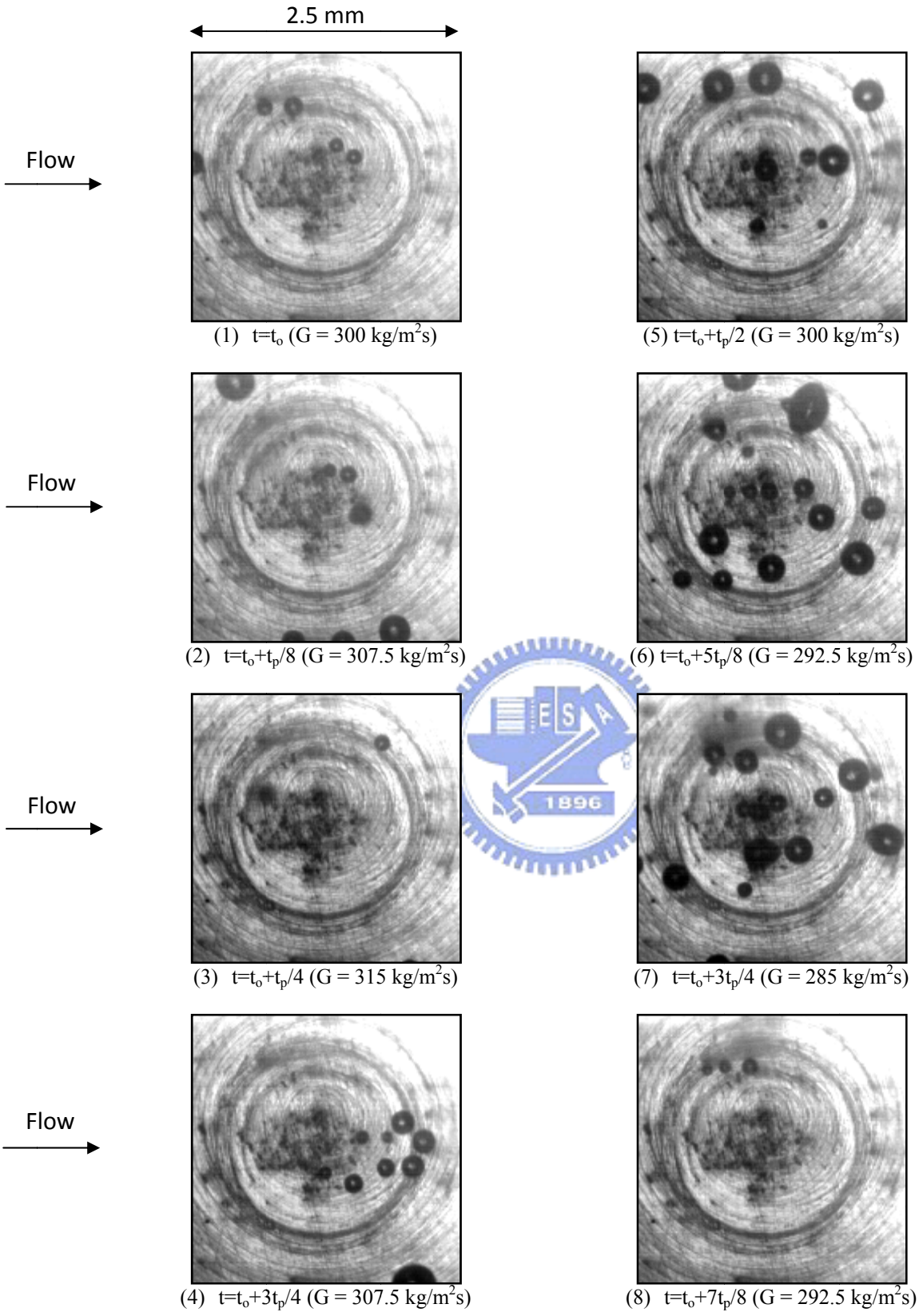


Fig.5.123 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=6.7 W/cm^2 and ΔT_{sub}= 10^{o}C at G=300±5% kg/m^{2}s with oscillation t_p=10s.

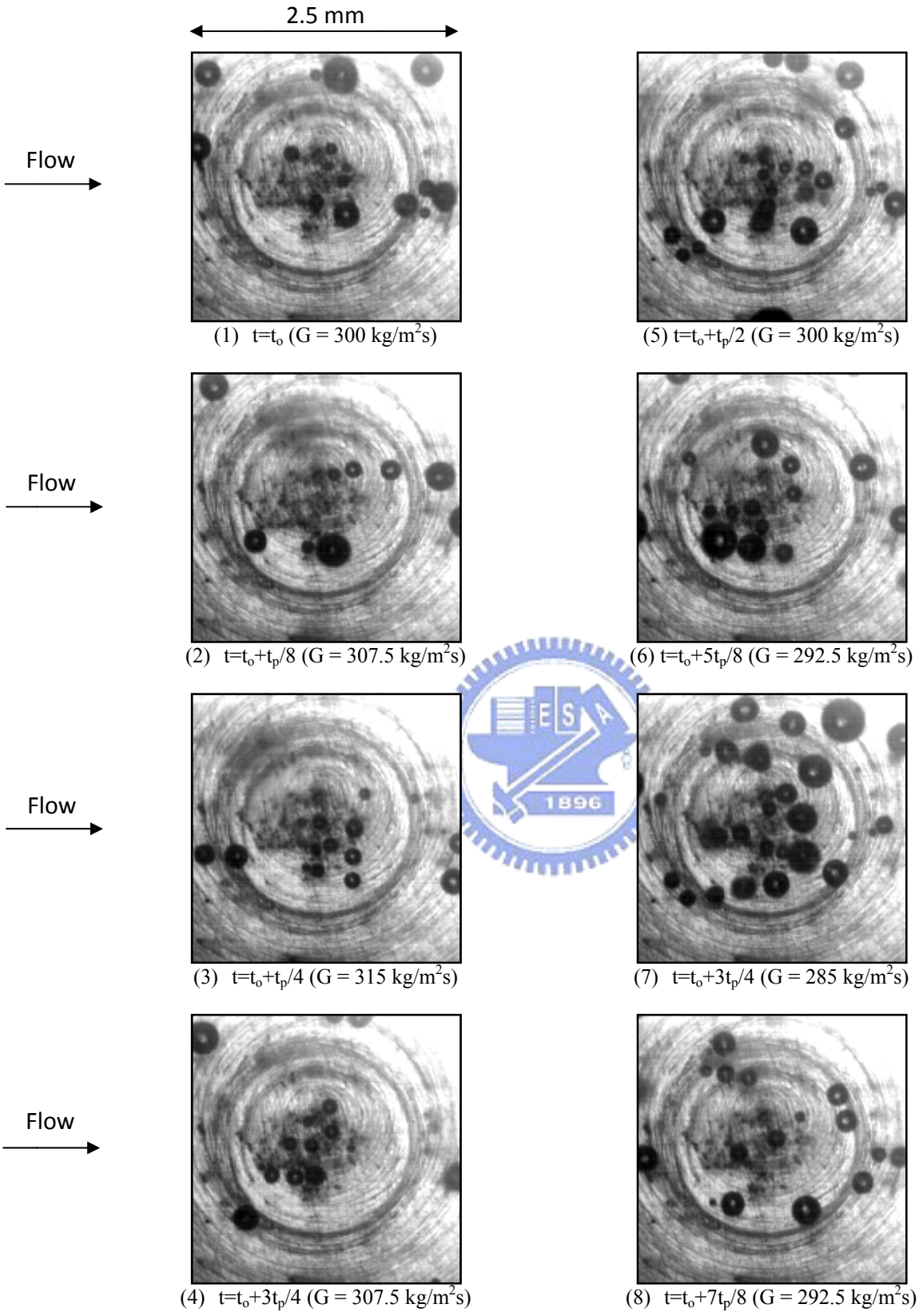


Fig.5.124 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=8.1 W/cm^2 and ΔT_{sub}= 10^{o}C at G=300±5% kg/m^{2}s with oscillation t_p=10s.

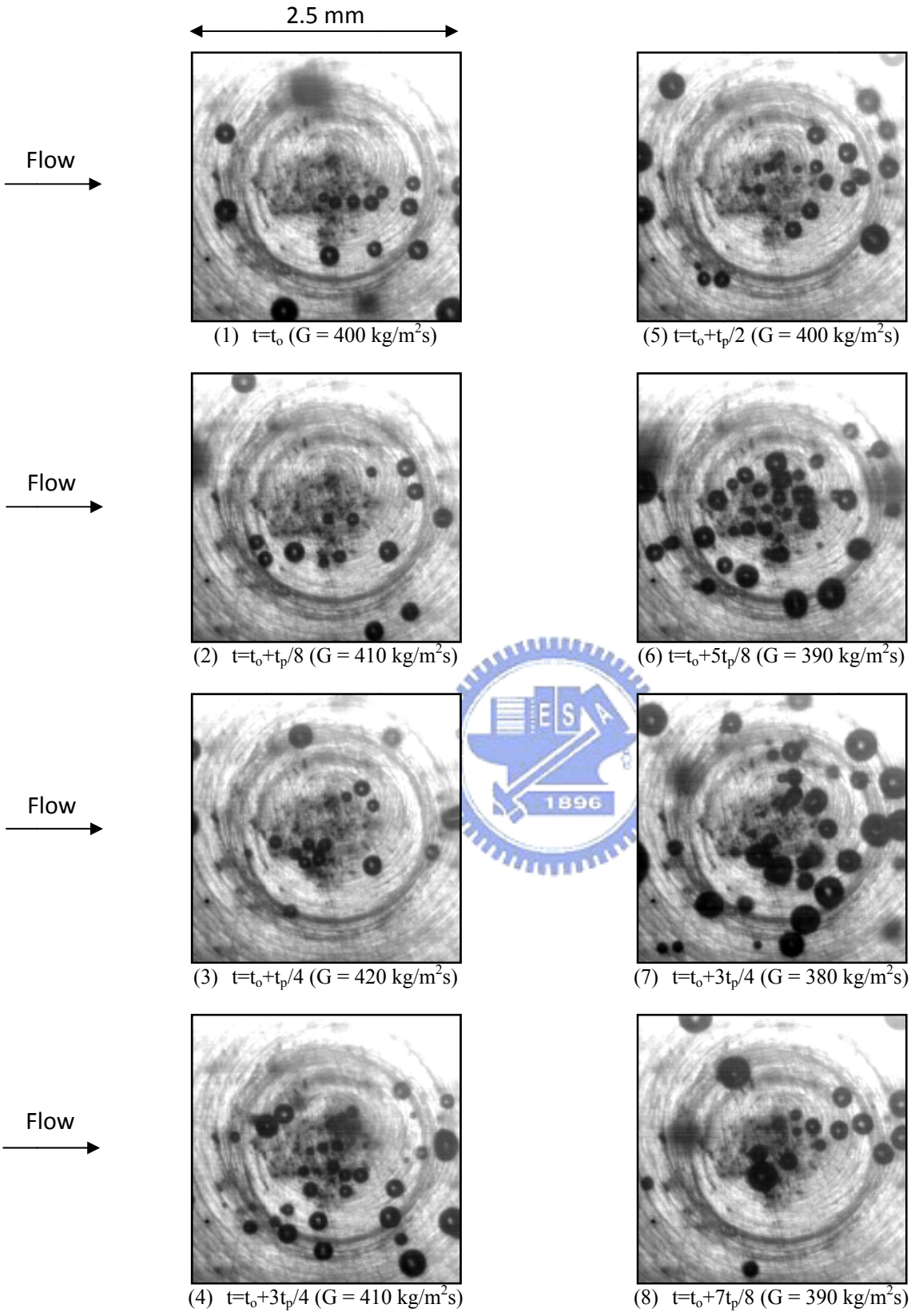


Fig.5.125 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=8.1 W/cm^2 and ΔT_{sub}= 10^{o}C at G=400±5% kg/m^{2}s with oscillation t_p=10s.

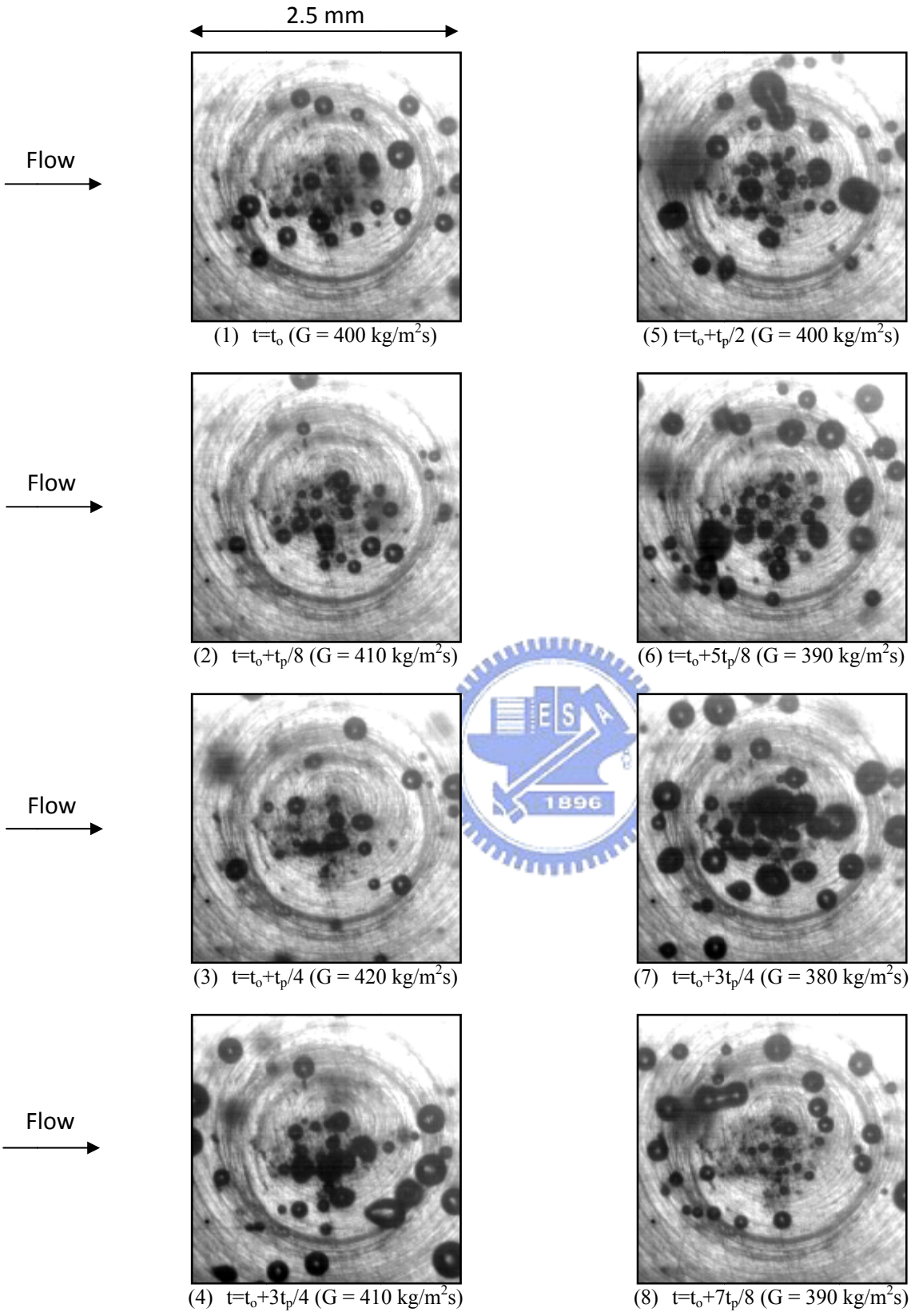


Fig.5.126 Photos of transient oscillatory subcooled flow boiling flow at certain time instants for various imposed mass fluxes for q=9.6 W/cm^2 and ΔT_{sub}= 10^{o}C at G=400±5% kg/m^{2}s with oscillation t$_p$=10s.