Conclusions

- > The applied numerical method was three-dimensional steady Eulerian-Eulerian approach with constandard k- ε turbulent model and a Schiller Haumann gas-liquid drag model. The simulation results showed agreement with the experimental data.
- > Liquid was uniformly distributed at the exit of the C pipe.
- The pressure in the Chipe was greatly altered by the GCP as well as the trajectories of the juid and secondary flow.
- This study was a preminary attempt to investigate the effect of a GCP on fluid redistribution downstream of a bend.
- Further work stould be done to determine the relation between the structure of a GCP and its effectiveness, including the contraction ratio, length and location of a GCP in the vertical segment.

