



































![](_page_9_Figure_0.jpeg)

![](_page_9_Figure_1.jpeg)

![](_page_10_Figure_0.jpeg)

![](_page_10_Figure_1.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Figure_1.jpeg)

![](_page_12_Figure_0.jpeg)

![](_page_12_Figure_1.jpeg)

![](_page_13_Figure_0.jpeg)

![](_page_13_Figure_1.jpeg)

![](_page_14_Figure_0.jpeg)

![](_page_14_Figure_1.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_15_Figure_1.jpeg)

![](_page_16_Figure_0.jpeg)

![](_page_16_Picture_1.jpeg)

## conclusions

- lag time: small drops, hardly sediment but coalesce
- polydisperse swarm: drops sediment only ≈ 25 % individually
- densely packed zone
- close-packed zone: drops don't press on interface
- Iow holdup close to interface
- modeling, simulation: ReDrop (representative drops)
  drop sedimentation: polydisperse swarm up to high holdup
  coalescence: Henschke polyhedron model

![](_page_17_Picture_7.jpeg)

![](_page_17_Picture_8.jpeg)