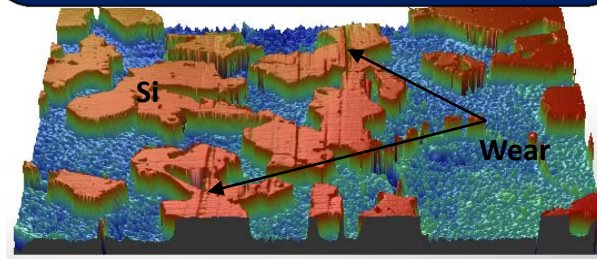


Lightweight Engines

Aluminum engine blocks weigh
40% less than Cast Iron blocks
... But high wear

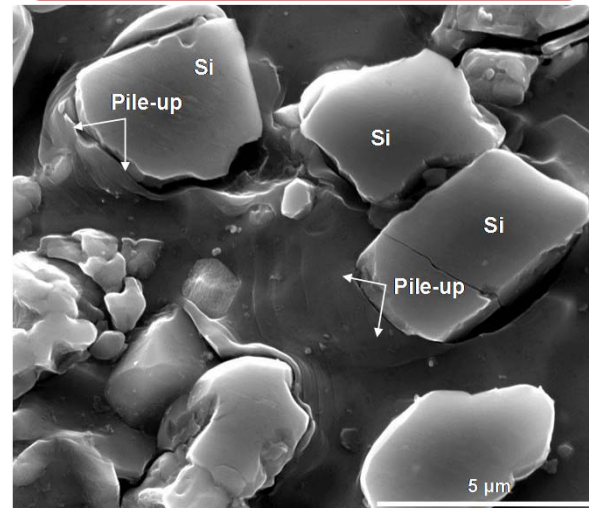
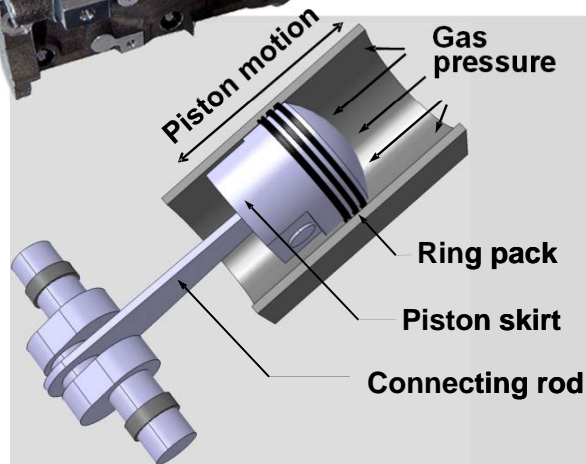
Research Achievements:
New alloy design

New generation of
combustion
engines



Low wear rates

Prevention of scuffing
during cold start



cost effective,

provides exceptional
durability

improves fuel
economy

provides lower
environmental impact