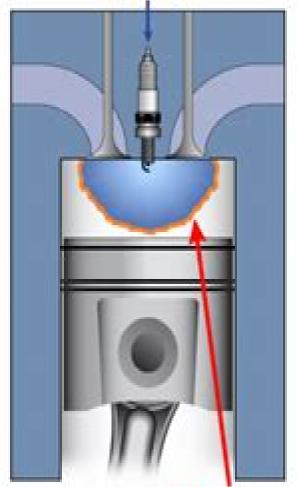
# Current and future internal combustion engine concepts

# Gasoline Engine

(Spark Ignition)

spark plug

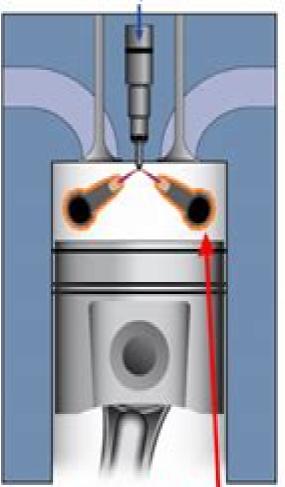


Hot-Flame Region: NOx

# **Diesel Engine**

(Compression Ignition)

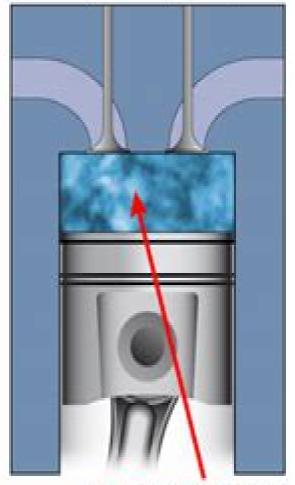
fuel injector



Hot-Flame Region: NOx & Soot

# **HCCI Engine**

(Homogeneous Charge Compression Ignition)



Low-Temperature Combustion: Ultra-Low Emissions (<1900K)

# **Manual Engine Braking**

J Ma

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