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ADVANCED INTERNAL COMBUSTION ENGINE RESEARCH. 1. ADVANCED INTERNAL COMBUSTION ENGINE RESEARCH. Peter Van Blarigan Sandia National Laboratories Livermore, CA 94550. Abstract. In this manuscript, research on hydrogen internal combustion engines is discussed. The objective of this project is to provide a means of renewable hydrogen based fuel utilization.

**ADVANCED INTERNAL COMBUSTION ENGINE RESEARCH**

ADVANCED INTERNAL COMBUSTION ENGINE RESEARCH. In this
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temperature combustion (LTC) engine concepts such as homogeneous charge compression ignition (HCCI) offer the potential of improved efficiency and reduced emissions of NOx and particulates.

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Advanced Engine Research Lab is operated by Dr. Tim Jacobs in the Mechanical Engineering Department of Texas A&M University. Team members are doing the following fundamental experimental and theoretical research to investigate advanced methods for internal combustion engine energy conversion and emission reduction:

**AERL @ Texas A&M**
The Vehicle Technologies Office (VTO) funds research focused on developing a greater understanding of engine combustion and how emissions form within engine cylinders as well as how combustion and emissions depend on factors such as fuel spray characteristics, in-cylinder air motion, and type of fuel. This greater understanding will help researchers develop higher efficiency advanced combustion engines strategies such as low temperature combustion, dilute (lean burn) gasoline combustion, and...

**Advanced Combustion Strategies | Department of Energy**
The CRF has been working closely with U.S. engine manufacturers for more than 30 years to increase scientific understanding of internal combustion engine processes affecting efficiency and emissions. Today, most of our
engine research is directed toward building the science base on advanced combustion strategies that is required by industry to develop a new generation of high-efficiency, clean engines.

**Engine Combustion | Combustion Research Facility**
The Future of the Internal Combustion Engine. 37 globally prominent scientists representing the International Journal of Engine Research, have published an editorial, which addresses the future of the Internal Combustion Engine. The article provides an impartial assessment of the state of power generation in the world today, and provides analyses of productive directions for the future.

**International Journal of Engine Research: SAGE Journals**
The government sought to address these needs when it founded the Combustion Research Facility (CRF) in 1981 and the Advanced Combustion Engine R&D (ACE R&D) program in 1986. These two initiatives brought together researchers at national labs, universities, engine companies, and automakers.

**advanced diesel internal Combustion e ngines**
Advanced Internal Combustion Engine/Powertrain System Design a spark-ignited engine for range extender medium-duty trucks and develop a high-efficiency engine for heavy-duty trucks using low-carbon fuels CERC-TRUCK’s engine and powertrain research focuses on medium-duty (MD) and heavy-duty (HD) applications.

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Abstract The current brake thermal efficiency of advanced internal combustion engines is limited to 50%, and how to further improve the efficiency is a challenge. In this study, a theoretical investigation on engine thermal efficiency was carried out using one-dimension simulations based on the [...]

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Low-temperature combustion (LTC) is an advanced combustion concept for internal combustion (IC) engines, which has attracted global attention in recent years. LTC is radically different from conventional spark ignition (SI) combustion and compression ignition (CI) diffusion combustion concepts.