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David F. Merrion Sr. Consultant Diesel and Trucking Mechanical Engineering

With more than 60 years of experience, Mr. Merrion is an expert in internal combustion engines. He specializes in diesel engines with a focus in automobiles, trucks, and marine applications. As an executive and senior vice president of engineering at Detroit Diesel Corporation, he worked alongside Roger Penske on many projects, including introducing a new diesel engine that increased the company's market share from 3% to 28%. He also helped develop several alternate fuel engines. Mr. Merrion's expertise in design, development and validation testing is particularly helpful with product liability and patent infringement issues. Mr. Merrion is a member of many technical advisory boards and is a past member of six National Academy of Science committees. His consulting clients list includes General Motors, General Electric, Penske Corp. and many others. A Fellow for both the Society of Automotive Engineers and the American Society of Mechanical Engineers, Mr. Merrion holds a patent for a diesel electric hybrid engine and vehicle.

Areas of Focus

- Diesel Engines
- Product Liability
- Patent Infringement
- Exhaust Emissions
- Truck Transportation
- Gasoline Engines
- Exhaust After-Treatment Systems
- Alternate Fuels

Education

- Management School, University of Western Ontario, six weeks, 1980
- MSME, Massachusetts Institute of Technology, 1959
- BSME, General Motors Institute, Kettering University, 1959

Licensing & Certifications

- Holds U.S. Patent for Diesel Electric Hybrid Engine and Vehicle

Publications *(partial list)*

- Cost, Effectiveness and Deployment of Fuel Technologies for Light-Duty Vehicles, National Research Council, 2015
- Assessment of Fuel Economy Technologies for Light-Duty Vehicles, National Research Council, 2011
- Review of the 21st Century Truck Partnership – Phase 2, National Research Council, 2011
- Technologies and Approaches to Reducing Fuel Consumption of Medium and Heavy-Duty Vehicles, National Research Council, 2010
- Review of the 21st Century Truck Partnership, National Research Council, 2008
- Heavy Duty Diesel Emission Regulations, Past, Present Future, Society of Automotive Engineers, 2003
- Review of the Research Program of the Partnership for a New Generation of Vehicles, Seventh Report, National Research Council, 2001
- Diesel Engine Reference Book, Chapter 23 on trucks and buses, 1999
- Two-Stroke Cycle Diesel Engine Fuel Economy Improvement and Emission Reduction, Society of Automotive Engineers, 1977
- Reducing Hydrocarbons and Odor in Diesel Exhaust by Fuel Injector Design, Society of Automotive Engineers, 1970

Associations

- Society of Automotive Engineers, Fellow
- American Society of Mechanical Engineers, Fellow
- Engine Manufacturers Association, Former President
- Coordinating Research Council, Former Member
- U.S. Alternative Fuels Council, Former Member
- U.S. Federal Fleet Conversion Task Force, Former Member
- U.S. Environmental Protection Agency Mobile Sources Technical Advisory Committee, Former Member
- University of California, Riverside, Center for Environmental Research and Technology, Member
- Wayne State University, Dean of Engineering, Advisory Board, Former Member
- Catalytica Energy Systems, Inc., Former Board of Directors Member
- Clean Diesel Technologies Inc., Former Board of Directors Member
- Hy-Drive Technologies Ltd., Former Board of Directors Member
- Truck Emission Control Technologies, Inc., Board of Directors, Chairman
- National Academy of Science, National Research Council, 6 Committees
- SAE John Johnson Award Committee, Former Chairman

Honors & Award

- Soichiro Honda Medal, American Society of Mechanical Engineers
- Powertrain Innovation Award, Society of Automotive Engineers

Presentations (*partial list*)

- Heavy Duty Diesel Emission, Fifty Years, 1960 - 2010, ASME Soichiro Honda Lecturer, 2002
- Diesel Engine Design for the 1990s, SAE Buckendale Lecturer, 1994

Experience

- Humatec, Sr. Consultant – Diesel and Trucking Mechanical Engineering, 2017 - Present
- Merrion Expert Consulting, LLC, CEO, 2000 - Present
- Green Vision Technology, LLC, Chairman, 2000 - 2010
- Entec Engine Corporation, President, CEO, 2004 - 2007
- Detroit Diesel Corporation, Executive, Vice President – Engineering, Chief Technical Officer, 1988 - 1999
- General Motors, 1954 - 1987
 - Detroit Diesel Allison Division, 1959 - 1987
 - General Director of Engineering, 1983 - 1987
 - Director – Diesel Engine Sales, 1981 - 1983
 - Director – Diesel Engineering – DDA, 1959 - 1981
 - Detroit Diesel Engine Division, Co-op Student, 1954 - 1959