



David F. Merrion

David F. Merrion is the retired Executive Vice-President-Engineering for Detroit Diesel Corporation and currently serves as a consultant to DDC. His primary duties include the role of Compliance Auditor for the Consent Decree signed with EPA/CARB/DOJ in 1998. He is the Chairman of David F. Merrion, LLC, President and CEO of Entec Engine Corporation, Chairman of Green Vision Technology and on the Board of Directors of Catalytica Energy Systems, Inc.

He started his career at Detroit Diesel Engine Division of General Motors in 1954 as a General Motors Institute cooperative student. He graduated from GMI with a bachelors in mechanical engineering following completion of a bachelors/master program at Massachusetts Institute of Technology where he was granted a masters degree in mechanical engineering in 1959.

Following graduation he had assignments in Product Engineering, Research & Advanced Development, and Application Engineering. During this period he developed the Detroit Diesel multi-fuel engine, discovered the cause of hydrocarbons and odor in diesel exhaust and was part of the team who designed the Detroit Diesel 8.2L medium-duty engine.

In 1980 he became Director, Product Engineering for Detroit Diesel when the Series 60 engine design was started. Subsequently he became Director, Diesel Engine Sales and became General Director – Engineering for Detroit Diesel Allison Division in 1983. In 1988 assumed his Vice President position with Detroit Diesel Corporation.

He is a SAE fellow, a member of ASME, and a past advisor to the University of California – Riverside. He is the past president of the Engine Manufacturers Association, past member of the U.S. Federal Fleet Conversion Task Force, the U.S. Alternative-Fuels Council, and the U.S. EPA Mobile Source Technical Advisory Council. He participated in the National Academy of Science review of the Partnership for a New Generation of Vehicles (PGNV) research program. He has been the SAE Buckendale Lecturer and in 2002 was honored as the ASME Sochiro Honda Lecturer.

David F. Merrion

Objective To provide consulting services regarding diesel engines, diesel combustion, alternative fuel engines, alternate fuels, hybrid powertrains, emissions from engines and government regulations on engines.

Experience 2000 - Present David F. Merrion LLC Brighton, MI
Consultant

- ✍ Consent Decree Compliance Auditor - DDC
- ✍ Consultant to AVL North America
- ✍ Consultant to United Technologies
- ✍ Expert Witness for Freightliner LLC
- ✍ Consultant to Taylor Industries, Regent Group
- ✍ Consultant to Beacon Power
- ✍ Expert Witness for Paul, Weiss, Rifkind, Whartom & Garrison
- ✍ Consultant to Penske Capital Partners
- ✍ Consultant to Eaton Corporation

1988 - 1999 Detroit Diesel Corporation Detroit, MI
Executive / Senior Vice President Engineering

- ✍ Chief Technical Officer to reporting CEO.
- ✍ Worked closely with Roger Penske on many projects.
- ✍ Member of the DDC Executive Committee.
- ✍ Introduced new diesel engine in 1988 resulting in market share increasing from 3% to 28%.
- ✍ Developed several alternate fuel engines, methanol, ethanol, and natural gas.
- ✍ Developed three new engine series in cooperation with Daimler Benz, Series 55, Series 2000, Series 4000.
- ✍ On team to purchase Italian engine manufacturer - VM Motori.
- ✍ On team to take DDC public in 1993.

1983 -1987 Detroit Diesel Allison Div. Of General Motors Detroit, MI
General Director of Engineering

- ✍ Responsible for diesel engines and automatic transmissions.
- ✍ Developed the 8.2L diesel engine and the Series 60 diesel engine.
- ✍ Developed electronic fuel injection system.
- ✍ Attempted joint venture with Deere & Co.

1983 Detroit Diesel Allison Division Detroit, MI
Director Diesel Engine Sales

1981 – 1983 Detroit Diesel Allison Division Detroit, MI
Director Diesel Engineering – DDA

1959 – 1981 Detroit Diesel Allison Division Detroit, MI
✍ **Chief Engineer 71/92 engines**
✍ **Chief Engineer Applications**
✍ **Staff Engineer Research & Development**
✍ **Staff Engineer Emissions & Combustions**
✍ **Supervisor Emissions**
✍ **Project Engineer in Combustion**

1954 - 1959 Detroit Diesel Engine Division GM Detroit, MI
Co-op Student

Education

1954 - 1959 General Motors Institute (Kettering University)
✍ BSME degree (honors)
1958 - 1959 Massachusetts Institute of Technology
✍ MSME degree
1980 University of Western Ontario
Management School for six weeks

Publications

“Effect of Design Revisions on Two-Stroke Cycle Diesel Engine Exhaust”
“Diesel and Turbine Driven Vehicles and Air Pollution”
“Reducing Hydrocarbons and Odor in Diesel Exhaust by Fuel Injector Design”
“Some Effects of Fuel Injection System Parameters on Diesel Exhaust Emissions”
“Diesel Engine Design for the 1990” SAE Buckendale Lecturer
“Diesel Engine Reference Book” chapter on trucks
“Heavy Duty Diesel Emission, Fifty Years, 1960-2010” ASME Sochiro Honda Lecturer
“Heavy Duty Diesel Emission Regulations, Past, Present Future – SAE 2003”

Activities

✍ Member Society of Automotive Engineers – elected SAE Fellow 1995
✍ Member American Society of Mechanical Engineers
✍ Advisory Board – Wayne State University – Dean of Engineering (former)
✍ Advisory Board – University of California – Riverside – CCERT (former)
✍ US EPA Mobile Sources Technical Advisory Committee (former)
✍ Engine Manufacturers Association Board of Directors (former) (former President)
✍ Coordinating Research Council (former)
✍ US Alternate Fuels Council (former)
✍ US Federal Fleet Conversion Task Force (former)
✍ Reviewer for National Academy of Science, NRC, of the PNGV program (80 mpg car)
✍ Chairman, Green Vision Technology, LLC
✍ President and CEO Entec Engine Corporation
✍ Board of Directors, Catalytica Energy Systems, Inc.
✍ President, Oak Pointe Homeowners Association