

BUSINESS Profile

A publication of the Purdue Research Park

TPRL

About TPRL

Thermophysical Properties Research Laboratory, Inc., (TPRL) is an ISO 9001:2008 certified company that performs material property measurements for industries, universities and government agencies.

These material properties include thermal conductivity, thermal diffusivity, specific heat, thermal expansion, electrical resistivity, emissivity and others.

Services

Since 1972, TPRL has prepared more than 20 theses, 200 refereed publications and 4,500 technical reports. Some of the subject materials include space shuttle tile, jet engines, molten metals, refractory materials, ceramics, food processing, coatings and carbon composites. Research on the thermophysical properties of materials has been performed from -100 to +4000 F.

TPRL also provides consulting services on thermophysical properties - including theory, current

measurement practices and modern materials - for scientists and engineers involved in advanced heat transfer applications.

TPRL was incorporated in 1995 as it was being divested from Purdue University's School of Mechanical Engineering. At the time, Professor R. E. Taylor was retiring from the school's Heat and Mass Transfer Division and he, along with Tom Goerz, bought the laboratory assets and hired all of the Purdue TPRL laboratory personnel. In July 2011, Dr. Taylor passed away after a two-year-long illness.

TPRL occupies 3,300 square feet of laboratory space in Purdue Research Park that is especially designed for precision measurements. The laboratory has maintained ties with Purdue by writing joint proposals, and providing expertise and hardware for graduate student research.



"We provide consulting services on thermophysical properties for scientists and engineers involved in advanced heat transfer applications."

KEY LEADERSHIP



Thomas Goerz

FACTS & FIGURES

Established	1995 - Founded by R. E. Taylor, Purdue professor of mechanical engineering, and Thomas Goerz
Key Personnel	Thomas Goerz, President; David Taylor, V.P. & QA/ISO Manager; Katie Trombley, Senior Researcher; Robert Larson, Senior Researcher & Computer Programmer; and Steve Titolo, Master Machinist
Employees	6
Awards	The laboratory and Taylor have received two NASA Certificates of Recognition, Best Paper Award - American Foundry Society of ASME, two Thermal Conductivity Awards - International Thermal Conductivity Conferent, the Y.S. Touloukian Award from ASME and the European Conference Award on Thermophysical Properties (the only time a non-European has received this award)
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