



Tri-service/NASA Rely on AMMTIAC's High Temple Information System

AMMTIAC disseminates data collected from 27 Tri-service/NASA High Temperature Polymer Laminate Evaluation (High Temple) workshops. As part of the National Materials Information System (NAMIS), AMMTIAC provides access to this unique information with a variety of secure search tools. These tools include a taxonomy that categorizes data and enables users to identify both technology gaps and trends from the past high temperature polymer composite development efforts. The database provides industrial users with a reference source for proposals on new government programs. The High Temple community also uses NAMIS to teach new personnel the governing issues with these materials.

High Temple is a series of workshops that cover the design, development and application of high temperature reinforced polymeric composites. Started in 1982, these workshops capture a wealth of data on high temperature polymers. Structural applications of interest typically see time-temperature relations measured from hours at 500°F-700°F to seconds at 1,400°F. As such, the use of high temperature polymer composites is nearly always limited to DoD and NASA applications. As such, the High Temple workshops encapsulate nearly all the work performed within this technical area.



In addition to Air Force, Army, Navy, and NASA participation, both large and small businesses report on their advances. Similarly, university researchers describe their efforts to advance high temperature polymer composites and air craft engine and airframe primes discuss application of these materials. Consequently, all efforts from basic research to transition are presented at these workshops.

In 1998, the retirement of three of the founding members of the workshops prompted the Air Force Research Laboratory's Materials and Manufacturing Directorate (AFRL/ML) and NASA Glenn Research Center (NASA GRC) to sponsor AMMTIAC to preserve the heritage of the high temperature polymer community, develop a web-based information system, and house the past proceedings. Since the system went live in 1999, AMMTIAC has maintained and periodically upgraded this information system. Authorized users may access the system at: <http://namis.alionscience.com>

Today this database contains over 700 papers and the website has helped the government double attendance since its initiation. More importantly, the site has become a reference for attendees. Workshop attendees use the site to help write proposals. NASA-GRC asks their contractors to examine the past proceedings prior to performing new work. Additionally, new attendees are encouraged to consult the information system as necessary background information.

Please visit our Web site at <http://ammtiac.alionscience.com>

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