

Advanced Materials

CECAM

# Technology Bulletin

at the Center of  
Excellence for Composites  
and Advanced Materials

JOINT ADVANCED MATERIALS &  
STRUCTURES CENTER OF EXCELLENCECECAM ACADEMIC  
TEAM

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C07-05

Wichita State University

Northwestern University

Purdue University

Tuskegee University

University of Delaware

University of California  
at Los AngelesADVANCED MATERIALS IN  
TRANSPORT AIRCRAFT STRUCTURESFEDERAL AVIATION  
ADMINISTRATIONNATIONAL INSTITUTE FOR  
AVIATION RESEARCH

## FAA William J. Hughes Technical Center Website

The CECAM bulletin is designed to provide information on research projects, including overviews and outcomes of the projects done by CECAM member universities. While the bulletin itself acts as an archive of information on these projects, there is another place that is the official archive for the projects CECAM members have participated in over the years.

The FAA William J. Hughes Technical Center website is home to an extensive collection of technical reports focused on aviation, engineering and FAA materials. The website is not only home to all final reports published after CECAM projects are complete, but it also acts as an archive for reports from all FAA research done through the National Institute for Aviation Research, Wichita State University and other universities that have participated in FAA projects over the years.

Through an easy-to-use search engine, visitors can find technical reports based on subject matter, title and author. Click on "Search Library Catalog" to search the database.

**Additional Search Types Available:**

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### **Simple Search:**

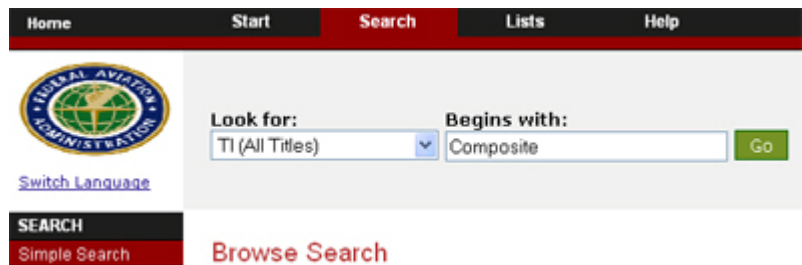
Simple search enables you to search using a 'keyword' or 'phrase'.



The screenshot shows the FAA website's search interface. At the top, there is a navigation bar with 'Home', 'Start', 'Search', 'Lists', and 'Help'. Below this is the FAA logo and a 'Switch Language' link. The main search area has a heading 'Type a keyword or phrase:' followed by a text input field containing 'composite' and a green 'Go' button. Below the input field is a checkbox labeled 'Show search options' which is checked. At the bottom left, there is a 'SEARCH' button with 'Simple Search' highlighted in red. At the bottom right, the text 'Simple Search' is displayed in red.

### **Browse Search:**

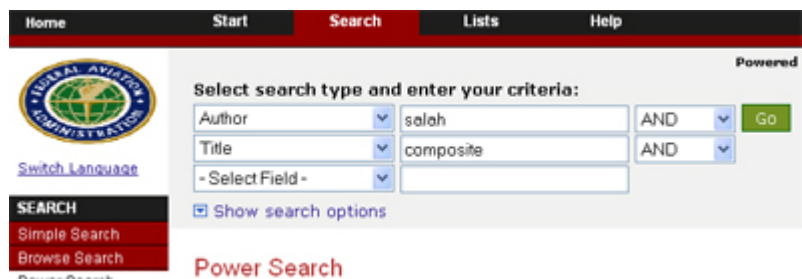
Browse search allows you to search by a specific category such as 'Author', 'Title', 'Subject', etc. Search results appear in alphabetical order beginning with the nearest field matching the information entered.



The screenshot shows the FAA website's browse search interface. It features the same navigation bar and logo as the simple search page. The main search area has a heading 'Look for:' followed by a dropdown menu set to 'TI (All Titles)' and a text input field containing 'Composite', with a green 'Go' button. To the right of the input field is a heading 'Begins with:' followed by a text input field containing 'Composite' and a green 'Go' button. Below the input fields is a checkbox labeled 'Show search options' which is checked. At the bottom left, there is a 'SEARCH' button with 'Browse Search' highlighted in red. At the bottom right, the text 'Browse Search' is displayed in red.

### **Power Search:**

Power Search gives you the advantage of combining different categories such as 'Author' AND 'Title' OR 'Subject' enabling you to search multiple terms simultaneously.



The screenshot shows the FAA website's power search interface. It features the same navigation bar and logo. The main search area has a heading 'Select search type and enter your criteria:' followed by three rows of search criteria. The first row has 'Author' in a dropdown, 'salah' in a text field, and 'AND' in a dropdown. The second row has 'Title' in a dropdown, 'composite' in a text field, and 'AND' in a dropdown. The third row has '- Select Field -' in a dropdown and an empty text field. To the right of the criteria is a green 'Go' button. Below the criteria is a checkbox labeled 'Show search options' which is checked. At the bottom left, there is a 'SEARCH' button with 'Power Search' highlighted in red. At the bottom right, the text 'Power Search' is displayed in red.

Generally, a large list will be provided and organized by title first, then the DOT/FAA document number and the size and type of file available for download. The list also includes an overview of the paper to help the user determine which file is needed. As part of the FAA's new branding initiative, the website will be revamped in the coming months, but the process of conducting searches will remain the same. The FAA William J. Hughes Technical Center reports may be obtained from <http://actlibrary.tc.faa.gov/>.

## NIAR Workshop Portal

Since 2002, the FAA Joint Advanced Materials & Structures (JAMS) Center of Excellence has supported Composite Safety & Certification Initiatives (CS&CI) through research on critical technical issues and the development of training standards. These workshops help direct future JAMS research and training developments.

NIAR has created an archive of workshop presentations and related materials. The website is designed to provide workshop information, including presentations and feedback forms, to workshop attendees and other interested parties. When a workshop is scheduled, the site acts as a registration page and contains logistical information such as hotel information and directions.

It also contains a link to the William J. Hughes Technical Center report archive mentioned above and links to additional NIAR/FAA reports.

To visit the website, please click here

<https://www.niar.wichita.edu/niarworkshops/>.

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**For more information about the Center for Advanced Materials Performance at Wichita State University's National Institute for Aviation Research visit the CECAM website.**

