



# Data Warehousing and other stuff

27<sup>th</sup> HCAT Program Review  
New Orleans  
January 2007

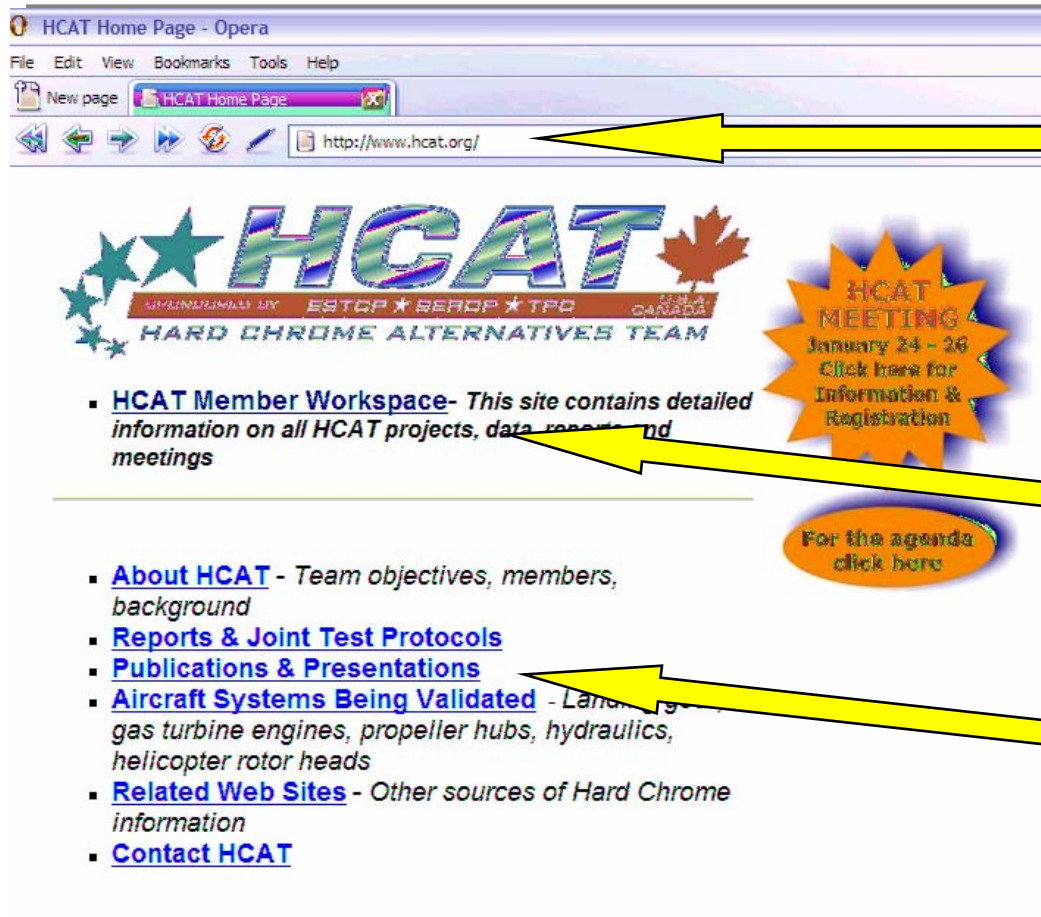
# Report Documentation Page

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# The HCAT home page – [www.hcat.org](http://www.hcat.org)



[www.hcat.org](http://www.hcat.org)

To reach the data warehouse you click **HERE** to go to [www.materialoptions.co](http://www.materialoptions.co)

**HCAT info**

# HCAT data site – [www.materialoptions.com](http://www.materialoptions.com)

Username: [hcat@hcat.org](mailto:hcat@hcat.org)

Password: [hello.hcat](#)

Or:

[hcatguest/hcat](#)

Some people have their own usernames with more extensive rights

If you are a member of a project your Project Workgroup will have a workgroup username and password

Type	Name	Size	Mod/Ret	Version
Folder	HCAT News, News Columns, Notifications	1.0 Kb	2004/11/08 17:40	
Folder	News and Next HCAT Meeting	4.0 Kb	2004/03/16 18:21	
Folder	Reports and Test Protocols	1.8 Kb	2004/08/02 18:48	
File	Temporary Data Sharing - anonymous users	1.0 Kb	2004/11/01 17:37	
File	Tell Me!	1.0 Kb	2004/04/08 09:41	
File	Assessing the HCAT website	22.8 Kb	2004/08/14 12:40	1
File	How to use this web site	29.88 Kb	2004/03/04 18:41	
File	Problems and error messages	4.82 Kb	2004/07/08 17:40	
File	ESTCP Metal Finishing Workshop	112.8 Kb	2004/03/08 10:23	
File	Periodic Table of the Elements - Los Alamos National Lab	374.8 Kb	2004/10/08 16:28	
File	Time Zone map	221.8 Kb	2004/08/04 14:32	

Search

# The HCAT Team Workspace –

## [www.materialoptions.com](http://www.materialoptions.com)

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- ❑ Dynamic – constantly increasing number of files
- ❑ Location for all the reports, data, briefings from meetings
- ❑ All briefings from HCAT meetings (in PDF)
  - This meeting briefings will be on site in about a week under Meetings-HCAT Program Review\27<sup>th</sup> Program Review
- ❑ ESOH background info
- ❑ Specs and standards
- ❑ Place to share info, upload and download files
- ❑ Separate workgroup for each project to warehouse and share data and work in progress
  - Open only to members of that project



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**[www.hazmat-alternatives.com](http://www.hazmat-alternatives.com)**

Portal for information on alternatives, regulations, etc., with links to other locations. Includes databases, on-line tools

Home Links >>> Home News/Events About Contact Links Features Site Map

**Hazmat Alternatives**

Welcome to **Hazmat-Alternatives.com.**  
*The international portal for identifying and implementing alternatives to hazardous materials and coatings in commercial and defense products*

Registered users login here:  
 Username:   
 Password:    
 If not registered, click here:

- ❑ Info on regulations, including EU rules
- ❑ Publicly released reports and briefings
- ❑ **Surface Engineering Database under construction**

- Will contain data as downloadable Excel files, reports, including rig test and service experience
- Include sources



- US, European and other international environmental regulations
- Alternatives to banned and restricted materials
- Alternatives to processes that cause emission of or exposure to hazardous materials

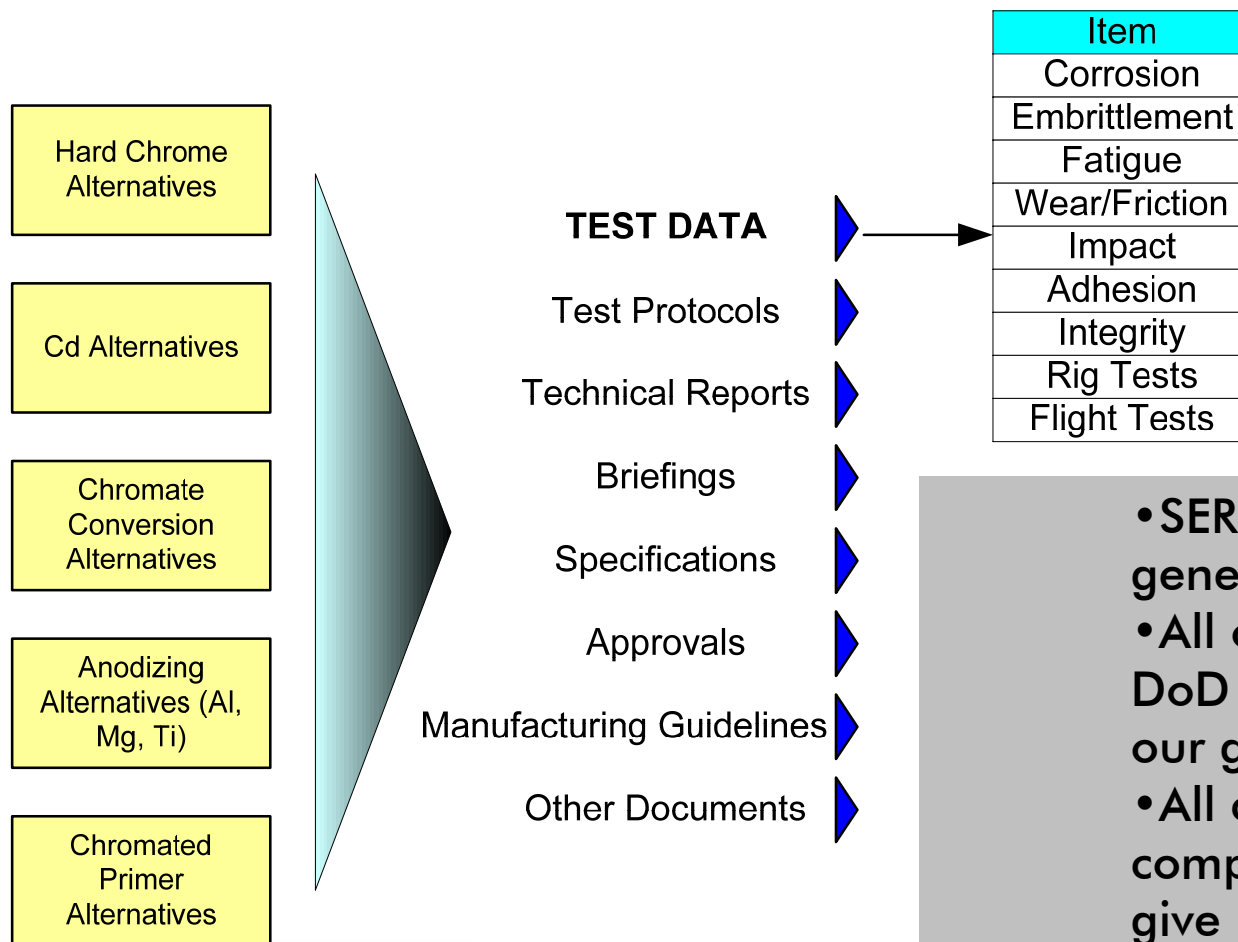
We provide comprehensive solutions for meeting ever stricter environmental regulations...

- Technology summaries, briefings, reports
- Tools for Roadmapping, Cost Benefit Analysis and Technology Evaluation

➤ Password protected



# Surface Engineering Database



- SERDP and ESTCP-generated data
- All other releasable DoD data we can get our grubby mitts on
- All commercial data companies are willing to give us

•Links to data held by others, e.g. NASF, [klegg@rowan-technology.com](mailto:klegg@rowan-technology.com)

# Example – Existing data for HVOF

Projects and partners

**HCAT** Hard Chrome Alternatives Team

HVOF Data

Data summary - Fatigue

Type	Name	Size	Modified	Version
<input type="checkbox"/> Folder	Fatigue Actuator Final Curves	3 Ob.	2005/05/25 14:24	
<input type="checkbox"/> Folder	Fatigue GTE Final Curves	41 Ob.	2006/01/05 14:24	
<input type="checkbox"/> File	Database of axial fatigue - APS - WC-17Co & T400 <i>Click on any X to bring up the graph for that substrate/coating combination</i>	261.26 Kb	2005/06/14 15:22	1
<input type="checkbox"/> File	Database of axial fatigue - Bare substrates <i>Click on any X to bring up the graph for that substrate/coating combination</i>	364.23 Kb	2005/06/14 15:23	1
<input type="checkbox"/> File	Database of axial fatigue - Electroplate - EHC <i>Click on any X to bring up the graph for that substrate/coating combination</i>	374.21 Kb	2005/06/14 15:23	1
<input type="checkbox"/> File	Database of axial fatigue - HVOF - T400 <i>Click on any X to bring up the graph for that substrate/coating combination</i>	312.47 Kb	2005/06/14 15:23	2
<input type="checkbox"/> File	Database of axial fatigue - HVOF - T800 <i>Click on any X to bring up the graph for that substrate/coating combination</i>	218.18 Kb	2005/06/14 15:23	1
<input type="checkbox"/> File	Database of axial fatigue - HVOF - WC-10Co-4Cr & Cr <sub>3</sub> C <sub>2</sub> -NiCr <i>Click on any X to bring up the graph for that substrate/coating combination</i>	271.85 Kb	2005/06/14 15:22	1
<input type="checkbox"/> File	Database of axial fatigue - HVOF - WC-17Co <i>Click on any X to bring up the graph for that substrate/coating combination</i>	348.11 Kb	2005/06/14 15:24	1
<input type="checkbox"/> File	Fatigue Actuator Final.xls	344.5 Kb	2005/05/25 14:31	1

# Improved Database

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- ❑ Data will be rearranged for easy search and download
- ❑ Excel files that can be downloaded for ease of analysis
- ❑ All reports and briefings containing data from rig and service testing will be downloadable
- ❑ Additional materials and coatings to be added as data become available
  - Including data on commercial coatings and treatments
- ❑ Push the production of proper engineering data suitable for decision-making
  - Minimize the amount of testing needed for validation at each site

# Where is HCAT going?

- ❑ We are in process of developing plans – nothing fully decided yet
- ❑ **Maintain successful teaming and workshop approach**
- ❑ Collate engineering data on coatings and finishes and make available on-line to the community
  - Have started modifying out [www.hazmat-alternatives](http://www.hazmat-alternatives) web site
- ❑ Set up more topical workshops and webinars to help identify and implement cleaner, better technologies
  - Suggestions?
- ❑ Collaborate closely with other groups and organizations (DoD and commercial) to further development and adoption of cleaner and better materials and coatings
- ❑ Bruce will replace Chuck Pellerin at Program Office
- ❑ Keith to concentrate on assisting Program Office

# We need a new name!

- ❑ Change name to protect the innocent and reflect broader mission
  - Surface finishing, including Cr, Cd, chromates, primers
  - Alloys and composites
  - Clean processes and materials
    - Can argue anything that works better and makes things last longer is PP
  - If additional funding can be obtained from other agencies, could include repair technologies in general, and all materials, whether or not they are specifically to eliminate hazmats
  - **Suggestions so far – better ideas?**
    - **Surface Finishing and Coating Team (SFACT)**
    - **Material and Process Alternatives Team (MPAT)**