

Dryden Research Library Newsletter

February 2004

Dryden Research Library is located in Bldg. 4800 Room 2412.

Check out our home page:

<http://www.dfrc.nasa.gov/Organizations/TechPubs/Library/index.html>

For any of your library needs please contact via email or call:

Barbara Rogers, the Librarian at ext. 3702,
email: barbara.rogers@dfrc.nasa.gov

Renee Richardson, the Library Technician at ext. 3127,
email: renee.richardson@dfrc.nasa.gov

The Dryden Research Library staff are part of the ITI/SCSC Team and their Technical Monitor is Ron Ray, at ext.3687, email: <mailto:ron.ray@dfrc.nasa.gov>

Please, in the future see the NASA Dryden History website for the Flight Research Milestones. See below for web address:

<http://www/Dryden/mistone.html>

Just a little reminder - 2003 TAX FORMS ARE NOW AVAILABLE IN THE LIBRARY.

The Research Library is in need of 2003 issues of old magazines - For those of you who subscribes to the following magazines, the library would like your old 2003 magazines. The library has not received a few issues in 2003 and would like to have our superseded magazines complete. Thank you in advance for your donations. The magazines are as follows:

1. Aeronautical Journal
2. Aerospace Science & Technology
3. Automatica
4. Discover
5. Electronic News
6. Flight International
7. Info World
8. Jane's Defense Weekly

9. Light Plane Maintenance
10. Machine Design
11. Monthly Weather Review
12. PC World
13. RC Modeler
14. Science
15. Scientific American
16. Success

New Books received in January, 2004 at the Dryden Research Library:

Circulating Books-

TA 347 .F5 G87 2003	Finite Element Multidisciplinary Analysis – 2 nd ed. by K. K. Gupta and J. L. Meek
TL 501 .S6373 2002	Society of Experimental Test Pilots Symposium: 46th Symposium Proceedings
TL 565. T46 2000	Flight Research: Problems Encountered and What They Should Teach Us by Milton O. Thompson
TL 712.5 .W35 2000	Black Magic and Gremlins: Analog Flight Simulations at NASA's Flight Research Center by Gene L. Waltman
TL 790.S732 1999	Space Mission Analysis and Design – 3 rd ed.

Library Tours and Orientation

The NASA Dryden Research Library gives Library Tours and Orientation. They will be twice a month on Friday afternoons and take 30 minutes to an hour. This is available for Dryden employees or staff that would like more information on the Research Library services. A tour of the library facilities will be given, with handouts about library services. There will be demonstrations on searching several databases accessible from the Research Library website, including AIAA, Science Direct, ASAP, DTRS, etc. You can bring information on topics you would like to search. Please call Barbara Rogers at ext. 3702 to schedule and appointment.

**DRYDEN FLIGHT RESEARCH CENTER
TECHNICAL REPORTS OFFICE
FY-2004 PUBLICATIONS LIST**

NASA SERIES REPORTS

The following NASA series reports were completed during FY-2004. Distribution has been completed for the paper copies, and these reports are available on the Dryden Technical Report Server.

1. Hageman, Jacob J., Mark S. Smith, and Susan Stachowiak, *Integration of Online Parameter Identification and Neural Network for In-Flight Adaptive Control*, NASA/TM-2003-212028, October 2003.
2. Jones, Thomas P. and Ethan Baumann, *Evaluation of the X-43A Scramjet Engine Controller Performance by Monte Carlo Technique*, NASA/TM-2003-212036, October 2003.
3. Curry, Robert E. and Lewis R. Owens, *Ground-Effect Characteristics of the Tu-144 Supersonic Transport Airplane*, NASA/TM-2003-212035, October 2003.
4. McCarthy, Marianne C., Barbara L. Grabowski, and Tiffany Koszalka, *Web-Enhanced Instruction and Learning: Findings of a Short- and Long-Term Impact Study and Teacher Use of NASA Web Resources*, NASA/TP-2003-212038, October 2003.
5. Moes, Timothy R., Mark S. Smith, and Eugene A. Morelli, *Flight Investigation of Prescribed Simultaneous Independent Surface Excitations for Real-Time Parameter Identification*, NASA/TM-2003-212029, October 2003.
6. Shubov, Marianna A. and Cheryl A. Peterson, *Asymptotic Distribution of Eigenfrequencies for a Coupled Euler-Bernoulli and Timoshenko Beam Model*, NASA-CR-2003-212022, November 2003.
7. Ko, William L., *Aging Theories for Establishing the Safe Life Spans of Airborne Critical Structural Components*, NASA/TP-2003-212034, December 2003.
8. Mayer, Jann and Timothy H. Cox, *Evaluation of Two Unique Side Stick Controllers in a Fixed-Base Flight Simulator*, NASA/TM-2003-212042, December 2003.
9. McCarthy, Marianne, Barbara Grabowski, Tiffany Koszalka, and Christa Peck, *Web-Based Instruction and Learning: Responding to K-14 Customer Needs*, NASA-CP-2003-210722. Proceedings of the September Learning Technologies Conference, Lewis Research Center, Cleveland, Ohio, September 23–25, 1997. December 2003.
10. Burcham, Frank W., Jr., C. Gordon Fullerton, and Trindel A. Maine, *Manual Manipulation of Engine Throttles for Emergency Flight Control*, NASA/TM-2004-212045, January 2004.
11. Ko, William L., *Thermal Buckling Analysis of Rectangular Panels Subjected to Humped Temperature Profile Heating*, NASA/TP-2004-212041, January 2004.

12. Petersen, Shane, Steven Krasiewski, Jay Fantini, Ken Norlin, and John Theisen, *Development and Testing of the Phase 0 Autonomous Formation Flight Research System*, NASA/TM-2004-212040, January 2004.
13. Crawford, J. Larry and Everlyn Cruciani, 2000–2001 *Research Engineering Annual Report*, NASA/TM-2004-212025, January 2004.

MEETING PAPERS

The following meeting papers were completed during FY-2004. If you need a copy of any of these reports, please contact the author(s) listed.

1. Vachon, Michael Jacob, Ronald J. Ray, and Carl Calianno, “Calculated Drag of an Aerial Refueling Assembly Through Airplane Performance Analysis,” AIAA-2004-0381. Presented at the 42nd AIAA Aerospace Sciences Meeting and Exhibit, January 5–8, 2004, Reno, Nevada.
2. Whitmore, Stephen A., Brent R. Cobleigh, Steven R. Jacobson, Steven C. Jensen, and Elsa J. Hennings, “Development and Testing of a Drogue Parachute System for X-37 ALTV / B-52H Separation.” Presented at the 42nd AIAA Aerospace Sciences Meeting & Exhibit, January 5–8, 2004, Reno, Nevada.

RESTRICTED REPORTS

The following reports were completed during FY-2004; however, these reports are only available from the NASA Center for Aerospace Information (www.sti.nasa.gov) or phone (301) 621-0390.

1. Noffz, Gregory K., Arild Bertelrud, and Leslie Gong, *Surface Heat Flux Estimation for the Physx Wing Glove Boundary Layer Transition Experiment*, NASA/CDTM-2001-210394, November 2003. **ITAR**
2. William L. Ko, *Heat-Transfer, Thermal Stress, and Thermal Buckling Analyses of a Carbon-Carbon Elevon During an Ascent Profile of a Generic Spacecraft*, NASA/TM-2003-210740, July 2003. (published etc. in Nov 2003) **ITAR**