

Fall 2003

Front Matter

Follow this and additional works at: <https://commons.erau.edu/jaer>

Scholarly Commons Citation

(2003). Front Matter. *Journal of Aviation/Aerospace Education & Research*, 13(1). Retrieved from <https://commons.erau.edu/jaer/vol13/iss1/5>

This Front Matter/Back Matter is brought to you for free and open access by the Journals at Scholarly Commons. It has been accepted for inclusion in *Journal of Aviation/Aerospace Education & Research* by an authorized administrator of Scholarly Commons. For more information, please contact commons@erau.edu, wolfe309@erau.edu.

JAAER

FORUM

The Editor's Forum.

Desirable Faculty Qualifications as Assessed by Students in the Aeronautical Science Program at Embry-Riddle Aeronautical University.. .9

A Safer Sky: An Examination of Factors Affecting Flight Safety in Taiwan..... .15

PAPERS

Assessing the Evolution of the Airborne Generation of Thermal Lift in Aerostats 1783 to 1883....

VFR Flight Into IMC: Reducing the Hazard..

The Effects of an Induced Negative Mood State on Student Pilot Learning.43



**THE JOURNAL OF
AVIATION/AEROSPACE
EDUCATION & RESEARCH**

JOURNAL
OF
AVIATION/AEROSPACE
EDUCATION AND RESEARCH

Fall 2003

Volume 13 Number 1

The Journal of Aviation/Aerospace Education and Research (JAAER)

Fall 2003, Volume 13, Number 1

Copyright © 2003 Embry-Riddle Aeronautical University 1st

Printing SEPTEMBER 2003

Indexed in:

Library of Congress, *ISSN 1065-1136*

Aviation Tradescan

All correspondence and inquiries should be directed to:

The Journal of Aviation/Aerospace Education and Research

Embry-Riddle Aeronautical University

Aviation Building, Room 102A

600 S. Clyde Morris Blvd.

Daytona Beach, FL 32114-3900

USA

Telephone 386/226-6855

FAX 386/226-6895

Fall 2003

Volume 13 Number 1

**Editorial Staff of the *Journal of
Aviation/Aerospace Education and Research***

William A. Kohlruss, Editor

Deborah L. Burke, Assistant Editor

Tim Brady, Embry-Riddle Aeronautical University

Thomas Connolly, Embry-Riddle Aeronautical University

James Schultz, Embry-Riddle Aeronautical University

Editorial Board

Brent D. Bowen	University of Nebraska
Thomas Q. Carney	Purdue University
Gerald N. Cook	Spirit Airlines
Gerald Fairbairn	Daniel Webster College
Jackie Luedtke	Daniel Webster College
Chuck Moren	Embry-Riddle Aeronautical University
David A. NewMyer	Southern Illinois University
Marvin Smith Ross	Embry-Riddle Aeronautical University
Telfer Alexander	Instructional Research and Development Pty, LTD.
T. Weils Phillip S.	Embry-Riddle Aeronautical University
Woodruff	Federal Aviation Administration Headquarters

Additional Reviewers

Greg Aaron Dee	United Parcel Service
Andrews Shawn	Air Force Research Laboratory
Arena Joe Clark	Embry-Riddle Aeronautical University
Ronald Clark	Embry-Riddle Aeronautical University
Robert Finkelstein	Embry-Riddle Aeronautical University
Atef Ghobrial	North Shore Community College
Thomas Hagovsky	Georgia State University
Mark Hewitt	Purdue University
Kenneth J. Kovack	Embry-Riddle Aeronautical University
Roger D. Lee	Embry-Riddle Aeronautical University/ University of Maryland
Gary Northam	Salt Lake City Community College
Sherry Parshley	Parks College of Engineering and Aviation- St. Louis University
William Rantz	Embry-Riddle Aeronautical University
Bruce A. Rothwell	Western Michigan University
Michaela Schaaf	Embry-Riddle Aeronautical University
Mark Sherman	University of Nebraska
Marian Schultz	Ohio University
Guy M. Smith	University of West Florida
Alan Stolzer	Embry-Riddle Aeronautical University
Michael E. Thorn	Parks College of Engineering & Aviation, St. Louis University
Brison Torbert	Globalink Consulting
Dale R. Wilson	Embry-Riddle Aeronautical University
	Central Washington University

Graphics Design: Browning Press,

DeBary, FL

Published three times annually (Fall, Winter, Spring) at Embry-Riddle Aeronautical University,
600 S. Clyde Morris Blvd., Daytona Beach, FL 32114-3900

**THE JOURNAL OF AVIATION/AEROSPACE
EDVCA TIONAND RESEARCH**

Fall 2003 Volume
13, Number 1

TABLE OF CONTENTS

The Editor's Forum

William A. Kohlruess

Forum:

*Desirable Faculty Qualifications as Assessed by
Students Enrolled in the Aeronautical Science
Program at Embry-Riddle Aeronautical University*
James E. Lewis and Donald E. Smith

Forum:

*A Safer Sky: An Examination of Factors Affecting
Flight Safety in Taiwan* Ping I. Lee

15

*Assessing the Evolution of the Airborne Generation of
Thermal Lift in Aerostats 1783 to 1883* Thomas
Forenz

21

VFR Flight into IMC. Reducing the Hazard
Dale R. Wilson and Teresa A. Sloan

29

*The Effects of an Induced Negative Mood State on
Student Pilot Learning*

Angela Wendell, Christina Fredenck-Recascino, Jodi Deluca & Thomas Kirton

43

EDITORIAL FOCUS

The Journal of Aviation/Aerospace Education and Research (JAAER) is a quarterly publication for educators and researchers as well as for professionals in the aviation and aerospace industry. The focus is how the educational process is influenced by various segments of the aviation and aerospace community and how education affects the industry. Although the basic focus is toward colleges and universities, manuscripts concerning secondary and elementary education are encouraged.

The Journal is interested in a wide range of scholarly submissions concerning aviation/aerospace curriculum development and/or innovative methods of instruction (for any/all levels of education), significant research relating to aviation/aerospace education, to industry research, and to industry and education partnerships. The Journal welcomes submissions reflecting the latest industry and academic thought concerning current issues of interest to JAAER readers, and is interested in well-researched and documented stories concerning aviation history, both in the past and in the making.

A refereed publication, manuscripts are blind-reviewed by members of the editorial board as well as by a limited number of professionals in that field. From time to time a non-refereed article may be included in a Forum section.

AUTHOR'S GUIDELINES

Preparation of Manuscripts The most current edition of the *Publications Manual of the American Psychological Association* (APA) is used as the style guide for submissions. However, authors are instructed to include all tables in the body of the manuscript.

- D JAAER does not accept multiple submissions.** (If pending acceptance elsewhere do not submit to us.)
- D Submit five copies of the manuscript using standard, white, bond paper.
- D Double space the text. Use wide margins (1.5"-2") on both sides and top and bottom.
- D Do number the pages

Title The title of the manuscript should be clearly indicative of its subject and of the author's intention, and should not be unnecessarily long or convoluted.

Documentation Manuscripts are to conform to APA reference documentation. *Text reference citations and reference list entries must be identical.*

Autobiography On a separate sheet of paper, include a brief autobiography stating your qualifications for writing this article. If multiple authors, give a brief autobiography for each author.

Publication Policy With your initial manuscript submission JAAER requires a full statement that this manuscript has not been previously published elsewhere, is not submitted and pending acceptance elsewhere, and will not be submitted for publication elsewhere in its present form.

If you have questions about submitting an article or subscribing to the Journal, please call (386) 226-6855 or visit our website at: http://www.erau.edu/resarch/jaaer/home_page.html