



forum

The International Society of Air Safety Investigators

Volume 20, #4
February 1988

*Proceedings
of the
Eighteenth International
Seminar
of the
International Society of
Air Safety Investigators*

Atlanta, Georgia, USA

October 6-9, 1987

forum

Published Quarterly by the
International Society of Air Safety Investigators

Volume 20, #4

February 1988

Editor — Edwin L. Shaw
Technical Editor — Vacant
Associate Editor — Vacant

The Editorial objective is to report developments and advanced techniques of particular interest to the professional aircraft accident investigator. Opinions and conclusions expressed herein are those of the writers and are not official positions of The Society. The Editorial Staff reserves the right to reject any article that, in its opinion, is not in keeping with the ideas and/or objectives of the Society. It further reserves the right to delete, summarize or edit portions of any article when such action is indicated by printing space limitations.

isasi

Technology Trading Park
Five Export Drive
Sterling, VA 22170-4421
Telephone: 703-430-9668
Telex: 901 907 ECI USA
FAX: 703-450-7262

The International Society of
Air Safety Investigators

OFFICERS

President Charles R. Mercer
Vice President Captain Thomas J. Kreamer
Secretary Rudolf Kapustin
Treasurer Robert Rudich

COUNCILLORS

International S. Olof Fritsch
United States Captain Richard B. Stone
Australian Ken Lewis
Canadian Don Burton
European Roy Lomas

UNITED STATES CHAPTERS

Los Angeles Regional Chapter Richard H. Wood, President
San Francisco Regional Chapter George C. Knies, President
Pacific Northwest Regional Chapter John W. Sweet, Contact
Rocky Mountain Regional Chapter L. B. Ullstrom, President
Great Lakes Regional Chapter Weldon Garrelts, President
Southeastern Regional Chapter Captain Joe Fagundes, President
Mid Atlantic Regional Chapter Ira J. Rimson, President
Northeast Regional Chapter Major Edwin C. MacNeil, President
Dallas-Ft. Worth Regional Chapter Warren V. Wandel, President

NATIONAL AND REGIONAL SOCIETIES

Australian Society of
Air Safety Investigators Ken Lewis, President
Canadian Society of
Air Safety Investigators Don Burton, President
European Regional Society of
Air Safety Investigators Roy Lomas, Acting President

The Jerome F. Lederer Award

Nominations for the 1988 Award will close
on June 30, 1988

The award is given for outstanding contributions to technical excellence in accident investigation. Not more than one award will be made annually and presentation is at the ISASI Seminar. The recipient is selected by the ISASI Awards Committee.

Any ISASI member may submit a nomination for this award. It must be sent to the Chairman of the Awards Committee, and must include a statement describing why the nominee should be considered. This statement should be sufficiently descriptive to justify the selection but no more than one typewritten page in length.

This award is one of the most significant honors an accident investigator can receive, and so considerable care is given in determining the recipient. Each ISASI member should thoughtfully review his or her association with professional investigators, and submit a nomination when they can identify someone who has really been outstanding in increasing the technical quality of investigation.

Mail to: **Dr. Charles I. Barron**
19303 Itasca Street
Northridge, CA 91324-2130
818-349-2388 R 818-712-2558 B

MEMBERSHIP

Individual membership is available to persons who are, or have been actively engaged in the investigation of aircraft accidents, civilian or military, or in the promotion of air safety. The initiation fee is \$35.00 and the first year's annual dues are \$50.00 for a total of \$85.00 U.S.

Corporate membership is available to firms engaged in air transportation, in the manufacture of aviation products or providing services that are aeronautical in nature. Submit a letter to the President of ISASI and forward the sum of \$400.00 U.S. to provide an initiation fee of \$100.00 and the first year's dues of \$300.00.

Further information on membership may be obtained by writing:

John G. Young, Chairman
Membership Committee, isasi
Technology Trading Park
Five Export Drive
Sterling, Virginia 22170-4421

Subscription to the *forum* magazine is available to Libraries/Schools. The annual subscription rate is US \$35.00. The subscription is limited solely to the *forum* magazine.

Subscription to the *forum* magazine is available to the public. The annual subscription rate is US \$50.00. The subscription is limited solely to the *forum* magazine.

"ISASI NEWS" is published by the
International Society of Air Safety Investigators,
Technology Trading Park
Five Export Drive
Sterling, Virginia 22170-4421
Telephone 703-430-9668
Telex 901 907 ECI USA
FAX 703-450-7262

ISASI is "Safety Through Investigation"

CORPORATE MEMBERS

AID Consulting Engineers, Inc.
Accident Investigation & Research Inc.
Accidents Investigation Branch, UK
Aerospace Management Services International, Inc.
Air Canada
Airbus Industrie
Air Line Pilots Association
Allied Pilots Association
All Nippon Airways Co., Ltd.
Associated Aviation Underwriters
Beech Aircraft Corporation
British Airways
British Caledonian Airways, Ltd.
Canadair Ltd.
Canadian Air Line Pilots Association
Canadian Airlines International
Canadian Aviation Safety Board
Civil Air Operation Officer's Association of Australia
Civil Aviation Authority, Saf. Data Unit (UK)
Directorate of Flight Safety (Canada)
Douglas Aircraft Company
Fairchild Aviation Recorders
Federal Express Corporation
Flight Engineers International Association
General Electric Company
Grumman Aerospace Corporation
Hong Kong Civil Aviation Department
Iberia Airlines of Spain
Inspectorate of Flight Safety — RAF (UK)
International Association of Machinists and Aerospace Workers
District 100, I.A.M.A.W.
District 141, I.A.M.A.W.
International Fed. of Air Line Pilots Association
Japan Airlines Co., Ltd.
Lockheed Corporation
Lufthansa-German Airlines
MBB Helicopter Canada Limited
MBB Helicopter Corporation (USA)
National Business Aircraft Association
Registro Aeronautico Italiano
Sundstrand Data Control
The Boeing Company
The DeHavilland Aircraft of Canada, Ltd.
The Japanese Aviation Insurance Pool
Transport Canada, Aviation Safety Branch
United Airlines
United States Aviation Underwriters
University of Southern California

isasi
Technology Trading Park
Five Export Drive
Sterling, VA 22170-4421
USA

Bulk Rate
U.S. Postage PAID
Sterling, VA 22170-9998
Permit No. 55

