Proceedings of the 37th Annual International Seminar
‘Incidents to Accidents—Breaking the Chain’
Sept. 11–14, 2006
Cancun, Mexico
# Table of Contents

**LATIN AMERICA DAY—Tuesday, September 12**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ISASI Information</td>
</tr>
</tbody>
</table>
| 4    | Preface: Welcome to ISASI and Cancun  
By Frank Del Gandio, President |
| 6    | Keynote Address: Safety Cannot Be Seen; It Must Be Felt  
By Capt. Gilberto Lopez Meyer, DGCA Mexico |
| 8    | 'Dick' Wood Reaps Lederer Honors  
By Esperison Martinez, Editor |
| 10   | Remarks to ISASI 2006  
By Stuart Matthews, president and CEO, FSF |
| 13   | Accident and Incident Investigation in Argentina  
—One View about a Maintenance-Related Case  
By Horacio Larrosa, JIAAC, Argentina |
| 18   | A CFIT Accident: Lessons Learnt  
By Capt. Carlos Limón, Deputy President, IFALPA |
| 19   | The Advanced Qualification Program (AQP) as a Tool to Break the Chain of Accidents  
By Claudia Pandolfi, DGAC-Chile |
| 24   | Risk Analysis Methodology Application and Results for Product Safety Monitoring at Embraer  
By Fabio Catani, Sergio Rodrigues Pereira, and Umberto Irgang, Embraer Empresa Brasileira de Aeronáutica, Air Safety Department |
| 32   | Defining and Investigating Incidents  
By Richard H. Wood, USA |

**INTERNATIONAL DAY—Wednesday, September 13**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
</table>
| 35   | Industry Working Group for Enhancing the Investigation of Human Performance Issues  
By Randall J. Mumaus, Boeing, USA |
| 38   | Failure Analysis of Composite Materials in Aircraft Structures  
By Dr. Joseph Rakow and Dr. Alfred M. Pettinger, Exponent Failure Analysis Associates, USA |
| 46   | Solving FDR Readout Problems: A Proactive Approach  
By Guillaume Aigoin and Guillaume Nicolas, BEA, France |
| 50   | Using the Threat and Error Management (TEM) Framework as an Analytical Tool in ATC  
By Bert Ruijtenberg, Tower & Approach Unit, Schiphol Airport, Amsterdam |
| 53   | The ATSB Approach to Improving the Quality of Investigation Analysis  
By Michael Walker, ATSB, Australia |
| 58   | An Investigation as to How Aviation Safety Will Be Maintained in the Light of the Major Change Processes Taking Place in the Norwegian Civil Aviation Sector  
By Dr. Kaare Halvorsen and Dr. Grete Myhre, AIB, Norway |
| 66   | Incident Investigation: A Diversion of a Boeing B-747 Resulting in a Serious Low-Fuel Situation  
By Johann Reuss, BFU, Germany |
| 70   | Breaking the Chain: An Empirical Analysis of Accident Casual Factors by Human Factors Analysis and Classification System (HFACS)  
By Wen-Chin Li and Don Harris, Cranfield University, UK |

**INVESTIGATOR’S DAY—Thursday, September 14**

<table>
<thead>
<tr>
<th>Page</th>
<th>Title</th>
</tr>
</thead>
</table>
| 77   | Major Investigation Management  
By Nick Stoss, Transportation Safety Board of Canada |
| 84   | A Safety Issue Investigation into Small Aircraft Accidents Resulting in Post-Impact Fire: The Experience, Techniques, and Lessons Learned  
By William R. Kemp, TSB, Canada |
| 93   | Investigation into Turbulence-Related Accidents  
By Gary R. Morphetu, SCSI, USA |
| 96   | Polishing the Apple and the Investigator—Examining the Importance of Investigator Education Prior to an Investigation  
By Dana Siewert, UND, USA, and Corey Stephens, ALPA USA |
| 99   | Investigating a ‘Minor’ Incident Using Lessons Learned from a Major Accident  
By Stéphane Cormos and Alain Agnesetti, BEA, France |
| 104  | Listening to the Specialists: How Pilot Self-Reporting Can Help Break the Accident Chain  
By Sue Burdekin, University of New South Wales, Australian Defense Force Academy |
| 108  | ISASI 2006 Photo Review  
By Esperison Martinez |