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Minutes of Previous ICAF Conferences ICAF General Secretary's Review – 2001 to 2003

National Reviews for the Period 2001 – 2003

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MINUTES OF PREVIOUS ICAF CONFERENCES

Conf. No.	Held at	Date	Establishment, Editor	ICAF Doc. No.
1	Amsterdam	1952	NLL, Plantema	14
2	Stockholm	1953	FAA, Noton	44
3	Cranfield	1955	RAE, Raithby	67
4	Zurich	1956	F+W, Keller	94
5	Brussels	1957	STAE(B), van Laer	115
6	Amsterdam	1959	NLL, Plantema and Schijve	126
7	Paris	1961	STAE(F), Barrois	220
8	Rome	1963	MDA, Villa	271
9	Munich	1965	LBF, Gassner	338
10	Melbourne	1967	ARL, Mann	412
11	Stockholm	1969	FFA, Wallgren	480
12	Miami	1971	NASA, Hardrath	561
13	London	1973	RAE, Pike	685
14	Lausanne	1975	F+W, Branger and Berger	800
15	Darmstadt	1977	LBF, Buxbaum and Franz	959
16	Brussels	1979	Admin. de l'Aeronautique, Maenhaut	1170
17	Noordwijkerhout	1981	NLR, de Jong and van der Linden	1215
18	Toulouse	1983	CEAT, Labourdette	1335
19	Pisa	1985	AIFE and U. of Pisa, Salvetti & Lazzeri	1489
20	Ottawa	1987	NAE, Simpson	1602
21	Jerusalem	1989	Technion, Berkovits	1681
22	Tokyo	1991	U. of Tokyo, Kobayashi	1816
23	Stockholm	1993	FFA, Blom	1950
24	Melbourne	1995	AMRL, Grandage and Jost	2054
25	Edinburgh	1997	DERA, Poole	2164
26	Seattle	1999	AFRL, Rudd	2265
27	Toulouse	2001	AAAF, Rouchon	2288
28	Lucerne	2003	RUAG Aerospace, Guillaume	2310

GENERAL SECRETARY'S REVIEW

on the activities of the

INTERNATIONAL COMMITTEE ON AERONAUTICAL FATIGUE (ICAF)

during the period June 2001 to May 2003

27TH ICAF MEETING IN TOULOUSE FRANCE

The 27th ICAF meeting was held in Toulouse, France and was organized by Mr. Jean Rouchon, the French National Delegate, and his team. The meeting initiated with the two day 27th ICAF Conference (June 25th, 26th) followed by the 21st ICAF Symposium (June 27th-29th). There were over 280 attendees from 23 countries.

The Conference began with the General Secretary's Review followed by a Keynote Address by Ingenieur General de l'Armement Jean-Pierre Cornand, Delegation Generale pour l'Armement, Service of Aeronautical Programs, Rafale Programme Manager. The Keynote Address was followed by the presentation of the 12 National Reviews. The Reviews were compiled in the Minutes of the Conference and published by the Toulouse Aeronautical Test Center as ICAF Document 2288. The ICAF Conference Proceedings were published in electronic format and distributed on compact disc to all attendees. A limited number of paper versions were also distributed to National Delegates.

Following tradition, the Symposium opened with an invited Lecture in honour of the late founder of ICAF, Dr. Frederick J. Plantema. The ICAF Swedish National Delegate, Prof. Dr. Anders Blom of the Swedish Defence Research Agency gave the 18th Plantema Memorial Lecture and his chosen topic was 'Fatigue Science and Engineering – Achievements and Challenges'. Dr. Blom provided a history of significant events followed by a review of recent progress. He finished with a highly interesting discussion of future developments and trends, not just technically, but also from societal and financial perspectives. At the conclusion of his Lecture, Dr. Blom was presented with the Plantema Memorial Lecture Medal.

The 21st ICAF Symposium consisted of 32 presented papers plus an additional 37 papers in poster format. All papers have been included in the Proceedings of the Symposium entitled, 'Design for Durability in the Digital Age' edited by Mr. J. Rouchon, the French National Delegate. The Proceedings were published in two volumes by the Cepadues-Editions.

The 27th ICAF Meeting was an outstanding success both from the quality of the papers and from the social aspects. The host country provided an excellent venue for the formal sessions and was also generous in arranging events, including a very special cake, that celebrated the 50th Anniversary of the founding of ICAF.

ICAF DOCUMENT DISTRIBUTION

The number of ICAF documents distributed between ICAF centers during the period May 2001 and April 2003 was 57, including reports, reprints, books and 7 proceedings consisting of more than 200 papers.

ICAF STATUS

The International Committee on Aeronautical Fatigue (ICAF) is an informal organization with aircraft fatigue problems as the common basis for its activities. The committee consists of one General Secretary and a number of National Delegates, each representing a member country.

The objectives of ICAF are:

- a) to stimulate personal contacts between people, actively engaged in aircraft fatigue problems, and
- b) to exchange information, experience, opinions and ideas concerning aircraft fatigue problems.

The objectives are pursued by regular meetings and by exchange of ICAF documents (reports, publications and other documents).

ICAF continues to be a vibrant organization that is meeting these objectives. The Seattle ICAF meeting in 1999 and the Toulouse meeting in 2001 were both outstanding successes. The program for the Lucerne 2003 meeting has maintained the ICAF reputation for a strong relevant technical program in an atmosphere that encourages discussion and exchange. The 2005 meeting preparations for Hamburg, Germany have been initiated. In addition, reports continue to be exchanged on a regular basis and there are numerous informal exchanges between delegates during the

interval between meetings. ICAF also facilitated a 3 month sabbatical for Dr. C. Dalle Donne, the German National Delegate, with the National Research Council of Canada during 2002. The Secretary General is in correspondence with three additional nations who are seeking ICAF membership.

There are also challenges that ICAF must address including membership, effective use of advanced communication methods and changes in business operations that affect information exchange. These issues are being addressed.

IN MEMORIUM



During the last two years, ICAF has lost two ardent supporters. **Mr. Andre Jordi**, ICAF National Delegate for Switzerland from 1979 to 1995 and vice-chairman of the ICAF Organizing Committee for this meeting, passed away in September of 2002. André was a very energetic person and committed to his work in the field of aeronautics. Over the years, he had broad responsibilities in Switzerland including Head of the Engineering Department, project lead of the MIRAGE fatigue tests, project leader of ARIANE, and project leader of the ADS 95 Ranger UAV project. His ICAF friends are grateful for André's valuable contributions to the ICAF organization and for his informative and enthusiastic delivery of the Swiss ICAF National Reviews.



In February of this year, ICAF lost one its most ardent participants, **Dr. John W. Lincoln** of the United States Air Force. On behalf of the National Delegates of the International Committee on Aeronautical Fatigue and myself, I wish to acknowledge the impact that Jack Lincoln had on the international stage. As I previously stated, ICAF is an informal organization with the stated objectives of stimulating personal contacts between people actively engaged in aircraft fatigue problems and exchanging information, experience, opinions and ideas concerning aircraft fatigue problems. By his actions, Jack demonstrated that these objectives were amongst his own. Jack Lincoln was delightful company and had a wonderful sense of humour. His timeless efforts to mentor individuals and to not only share his experiences, but to learn from the experiences of others, made him unique. Dr. Lincoln was also unique in his contributions to ICAF in that he presented a paper at every

ICAF Symposium since 1985, including the 1997 Plantema Memorial Lecture. In addition, he contributed numerous other papers that were circulated as ICAF documents. He was one of the small team that developed the concept of the durability and damage tolerance approach to designing and managing fatigue and for over 30 years, led the United States Air Force and in many ways, the world community in the implementation of this approach. Simply put, Jack Lincoln influenced the way things are done related to structural integrity.

David L. Simpson
General Secretary of ICAF

28TH ICAF CONFERENCE AGENDA

Monday, 5 May 2003

- 0800 – 1500** **Registration**
- 0900 – 0930** Welcome and Administrative Remarks
M. Guillaume, RUAG Aerospace
- Conference Opening and ICAF General Secretary's Review
Tribute to Mr. Jack Lincoln
D. L. Simpson, National Research Council of Canada
- SESSION A**
Chairman: A. Blom, Swedish Defence Research Agency (FFA) (Sweden)
- 0930 – 1000** The Netherlands
H. Ottens, National Aerospace Laboratory (NLR)
- 1000 – 1030** Switzerland
M. Guillaume, RUAG Aerospace
- 1030 – 1100** **Break**
- SESSION B**
Chairman: J. Rudd, Wright-Patterson Air Force Base (USA)
- 1100 – 1145** Germany
C. Dalle Donne, German Aerospace Center (DLR)
- 1145 – 1215** Italy
A. Salvetti, University of Pisa
- 1215 – 1345** **Lunch**
- SESSION C**
Chairman: A. Brot, Israel Aircraft Industries (Israel)
- 1345 – 1430** France
J. Rouchon, CEAT (Toulouse Aeronautical Test Center)
- 1430 – 1515** Australia
G. Clark, DSTO Platforms Sciences Laboratory
- 1515 – 1545** **Break**
- 1545 – 1615** Sweden
A. Blom, Swedish Defence Research Agency (FFA)
- 1630** **Close**

28TH ICAF CONFERENCE AGENDA

Tuesday, 6 May 2003

SESSION D

Chairman: H. Ottens, National Aerospace Laboratory (NLR) (The Netherlands)

0900 – 1000 The United States of America
J. Rudd, Wright-Patterson Air Force Base

1000 – 1030 Japan
A. Kobayashi, The University of Tokyo

1030 – 1100 **Break**

SESSION E

Chairman: J. Komorowski, National Research Council of Canada (Canada)

1100 – 1145 The United Kingdom
J. Moon, QinetiQ Farnborough

1145 – 1215 Israel
A. Brot, Israel Aircraft Industries

1215 – 1345 **Lunch**

SESSION F

Chairman: J. Rouchon, CEAT (Toulouse Aeronautical Test Center) (France)

1345 – 1430 Canada
J. Komorowski, National Research Council of Canada

1430 – 1500 Invited National Review
Announcements Related to Technical Tours
M. Guillaume, Conference Chairman

1500 – 1530 **Break**

1530 – 1900 **Buses Depart to Technical Tours**
– RUAG Aerospace, F/A-18 Swiss Full Scale Fatigue Test
– Pilatus Ltd., Military Trainer and PC-12 assembly lines
(Both sites will be visited)

22ND ICAF SYMPOSIUM AGENDA

Wednesday, 7 May 2003

- 0800 – 1500** **Registration**
- 0830 – 0940** Welcome and Administrative Remarks
M. Guillaume, RUAG Aerospace, Conference Chairman
Introduction of the Plantema Memorial Lecturer, *Prof. Jaap Schijve*
Plantema Memorial Lecture: Fibre Metal Laminates, the Development of a New Family of Hybrid Materials
Prof. Ir. L. Boud Vogelesang, Delft University of Technology, The Netherlands
Presentation of the Plantema Medal, *D. L. Simpson*, ICAF General Secretary
- 0940 – 1010** **Break**
- 1010 – 1030** Introduction of the Keynote Speaker *M. Guillaume*, Conference Chairman
Keynote Address *Toni J. Wicki*, CEO RUAG, Switzerland
- SESSION 1: Loads Development**
Chairman: J. Moon, QinetiQ Farnborough (United Kingdom)
- 1030 – 1100** A Dynamic Load Distribution Method for a Usage Spectrum Fatigue Test of a Fighter Aircraft Wing
J. Weiss, Engineering Consultant; *P. Kroese*, Bombardier Aerospace (Canada)
- 1100 – 1130** Development of a Parametric Aircraft Fatigue Monitoring System Using Artificial Neural Networks
S. Reed, D. Cole, QinetiQ Farnborough; *D. MacKay*, University of Cambridge (UK)
- 1130 – 1215** **POSTER SESSION**
- 1215 – 1345** **Lunch**
- SESSION 2: Fatigue Damage Assessment**
Chairman: G. Clark, DSTO Platforms Sciences Laboratory (Australia)
- 1345 – 1415** Pilatus PC-12 – Fatigue Assessment of Production Damages in Pressure Dome
D. R. Haenni, C. W. Innis, Pilatus Aircraft (Switzerland)
- SESSION 3: The Challenge of Full Scale Testing I**
Chairman: J. Komorowski, National Research Council of Canada (Canada)
- 1415 – 1445** Experiences with On-Line Data Trend Monitoring on a Full-Scale Aircraft Fatigue Test
R. L. Hewitt, R. J. Hiscocks, National Research Council Canada (Canada)
- 1445 – 1515** A Modern and Efficient Full Scale Fatigue Test for the Swiss F/A-18
F. Schwarberg, M. Hofstetter, IABG mbH (Germany);
Dr. M. Guillaume, I. Pfiffner, RUAG Aerospace (Switzerland)
- 1515 – 1545** **Break**
- 1545 – 1615** The Challenge of Conducting a Meaningful Full Scale Fatigue Test on a Transport Aircraft Empennage
P. Jackson, DSTO (Australia) *A. W. Cardrick*, Consultant (UK)
- SESSION 4: Fatigue Behaviour of Aircraft Structures**
Chairman: C. Dalle Donne, German Aerospace Center (DLR) (Germany)
- 1615 – 1645** Fatigue Behaviour of Fuselage Panels with Welded Stiffeners
L. Albugues, P. Rodrigo, Airbus France (France)
- 1645 – 1715** A Critical Review of Strategies Used to Deal with Metal Fatigue
R. G. Eastin, Federal Aviation Administration (USA)
- 1715 – 1745** On the Probabilistic Fracture Mechanics Simulation of Fatigue Life and Crack Statistic for the Purpose of Damage Tolerance Assessment
M. C. Escobedo Medina, H-J. Schmidt, Airbus Deutschland; *Prof. D. D. Cioclov*, Fraunhofer Institut (Germany)

22ND ICAF SYMPOSIUM AGENDA

Thursday, 8 May 2003

SESSION 5: Design of Composites

Chairman: J. Rudd, Wright-Patterson Air Force Base (USA)

0800 – 0830 Advanced Durability and Damage Tolerance Design and Analysis Methods for Composite Structure
Dr. Ch. E. Harris, Dr. J. H. Starnes Jr., Dr. M. J. Shuart, NASA (USA)

SESSION 6: Design Development of New Aircraft

Chairman: H. Ottens, National Aerospace Laboratory (The Netherlands)

0830 – 0900 EMBRAER New Family of Jets – Meeting the Current Fatigue and Damage Tolerance Requirements
W. Gonçalves, A. Pramono, C. E. Chaves, Embraer (Brasilien)

0900 – 0930 Fatigue Design Philosophy of the PC-21 Aircraft
M. Gottier, Engineering Consultant; J. Spichtig, Pilatus Aircraft Ltd. (CH)

0930 – 1000 **POSTER SESSION**

1000 – 1030 **Break**

SESSION 7: Fatigue Behaviour of Welded Structures

Chairman: A. Salvetti, University of Pisa (Italy)

1030 – 1100 Fatigue and Fracture Behaviour of Friction Stir Welded Aluminium Alloy AA6056-T6
W. V. Vaidya, K. Angamuthu, V. Ventzke, M. Kocak, GKSS Research Center; F. Palm, EADS Corporate Research Center (Germany)

1100 – 1130 Fatigue Properties of Friction Stir Welded Aluminium Butt Joints
C. Dalle Donne, G. Raimbeaux, German Aerospace Center (Germany)

SESSION 8: New Fatigue Design of Advanced Structures

Chairman: A. Kobayashi, The University of Tokyo (Japan)

1130 – 1200 Cancelled

1200 – 1330 **Lunch**

1330 – 1400 Fatigue Crack Growth in D357-T6 and 2024-T3 under Variable Amplitude Loading and Validation of Fatigue Crack Growth Models
C. D. Glancey, Dr. R. Stephens, University of Idaho (USA)

1400 – 1430 Advanced Materials and Manufacturing Techniques on Future Airbus Aircraft
Dr. R. A. Collins, D. Campassens, Dr. S. T. Kimmins, P. Rodrigo, Airbus (UK)

SESSION 9: Damage Tolerance of Structures

Chairman: A. Brot, Israel Aircraft Industries (Israel)

1430 – 1500 Characterization of Fatigue Behaviour of Aircraft Fuselage Structure
J. G. Bakuckas, C. A. Bigelow, P. W. Tan, FAA (USA)

1500 – 1530 **Break**

1530 – 1600 Damage Tolerance of Fuselage Welded Stiffened Panels
B. Journet, F. Congourdeau, EADS CCR; C. Meyer, Airbus France (France)

1600 – 1630 A Procedure for Damage Tolerance Analysis of Pressurized Fuselage Structure under Local Over-Pressure
Dr. G. K. Das, Dr. M. Miller, The Boeing Company (USA)

1630 – 1700 Crack Growth of Corner Cracks at Offset Holes: Experimental Validation of Predictions from Commercial Codes
M. B. Heinemann, Alcoa Technical Center; W. J. Baumeister, N. C. Ramachandran, Cessna Aircraft Company (USA)

22ND ICAF SYMPOSIUM AGENDA

Friday, 9 May 2003

SESSION 10: Fatigue and Corrosion Damage

Chairman: J. Rudd, Wright-Patterson Air Force Base (USA)

- 0830 – 0900** Sliding a Fretting Model into Holistic Structural Assessment Methods
C. L. Brooks, Dr. S. P. Domasky, APES, Inc., Dr. E. J. Tuegel, USAF AFRL (USA)
- 0900 – 0930** A Review of Corrosion Fatigue and Corrosion/Fatigue Considerations in Aircraft Structural Design
D. W. Hoepfner, University of Utah (USA)
- 0930 – 1000** Fatigue Crack Propagation in Aluminium Alloys in the Presence of Corrosion Prevention Compounds
K. Shankar, C. Purry, A. Fien, University of New South Wales (Australia)

1000 – 1030 **Break**

SESSION 11: Fatigue Models, Simulation and Correlation

Chairman: A. Blom, Swedish Defence Research Agency (FFA) (Sweden)

- 1030 – 1100** Stress Analysis of Mechanically Fastened Joints and Stress Intensity Factor Solutions for Countersunk Holes under General Loading
J.J.M. de Rijck, Delft University of Technology (NL); S.A. Fawaz, USAFA (USA)
- 1100 – 1130** Experimental Verification of Stress Intensity Factor Solutions for Corner Cracks at a Hole Subject to General Loading
Dr. S. Fawaz, US Air Force (USA); B. Andersson, FFA/FOI (Sweden); J. Newman, Mississippi State University (USA)
- 1130 – 1200** Load History Effects during Fatigue Crack Propagation in Glare
R. C. Alderliesten, H.J. M. Woerden, Delft University of Technology (NL)

1200 – 1330 **Lunch**

SESSION 12: The Challenge of Full Scale Testing II

Chairman: J. Rouchon, CEAT (Toulouse Aeronautical Test Center) (F)

- 1330 – 1400** Eurofighter Typhoon Production Major Airframe Fatigue Test
M. Greenhalgh, BAE Systems, Warton (UK)
- 1400 – 1430** Durability and Damage Tolerance Testing of the Joint Primary Aircraft Training System – Beech Model 3000 (T-6A Texan II)
P. Gould, Raytheon Aircraft Company, Wichita (USA)

SESSION 13: Repair Solutions

Chairman: G. Clark, DSTO Platforms Sciences Laboratory (Australia)

- 1430 – 1500** "Compres": EU funded Multi-National Research Effort for Bonded Composite Repairs of Aging Commercial Aircraft
A. Nathan, H. Leibovich, I. Kressel, Israel Aircraft Industries (Israel)
- 1500 – 1530** **Break**
- 1530 – 1600** Metallic Riveted Repair Calculation
B. Rosemberg, C. Meyer, Airbus France (France)
- 1600 – 1630** Design Substantiation and Application of Boron-Epoxy Patch Repair on an F-16 Upper Fuselage Skin
I. Kressel, G. Ghilai, S. Gali, N. Hackman, H. Leibovich, D. Peled, A. Brot, IAI Engineering Division; E. Grosu, I. Cohen, S. Jiny, Y. Meir, R. Halevi, L. Alon, A. Atzmoni, Israeli Air Force (Israel)
- 1630 – 1645** Symposium Closure and ICAF 2005 Overview
M. Guillaume, RUAG Aerospace, Conference Chairman

ICAF General Secretary

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