



SYM-IP/1

**SYMPOSIUM ON FUTURE GLOBAL COMMUNICATIONS,
NAVIGATION AND SURVEILLANCE (CNS) SYSTEMS**

MONTREAL, 4-5 SEPTEMBER 1991

COMPILATION OF PRESENTATIONS

Compiled by the ICAO Secretariat and published by authority of the Secretary General.

The views contained in this document are those of international experts and their publication does not imply an endorsement by ICAO.

**INTERNATIONAL CIVIL
AVIATION ORGANIZATION
MONTREAL • CANADA**

TABLE OF CONTENTS

Opening Remarks Dr. A. Kotaite, President of ICAO Council

Session 1		Theme: Introduction and shortcomings	
No.	Title	Speaker	Page
1.1	Introduction	J. Smit	1.1-1
1.2	Shortcomings, high-density regions	W. Leopold	1.2-1
1.3	Shortcomings, oceanic area	L. Costa	1.3-1
1.4	Shortcomings, continental	M. Comber	1.4-1

Session 2		Theme: Global concept	
No.	Title	Speaker	Page
2.1	Overview, CNS evolution	O. Carel	2.1-1
2.2	GNSS	T. Anodina	2.2-1
2.3	AMSS	D. Diez	2.3-1
2.4	ATN	P. Platt	2.4-1

Session 3		Theme: Global concept	
No.	Title	Speaker	Page
3.1	ADS	K. Okada	3.1-1
3.2	ATM	S. Andresen	3.2-1
3.3	Standardization	E. Godberson	3.3-1
3.4	Trials and demonstrations	G. Paulson	3.4-1
3.5	Industrial developments and plans for the future	K.E. Lewis	3.5-1

Session 4		Theme: Institutional considerations	
No.	Title	Speaker	Page
4.1	The institutional aspects of FANS	R. North	4.1-1
4.2	Legal	W. Guldemann	4.2-1
4.3	Economic	C. Belaustegui Goitia	4.3-1
4.4	Airports	P. Wilkins	4.4-1

Session 5		Theme: User and provider views	
No.	Title	Speaker	Page
5.1	Provider States' views	G. Matthiasson	5.1-1
5.2	Provider States' views	S. Mooney	5.2-1
5.3	Operator's views	C.H. Simpson	5.3-1
5.4	Operator's views	H. Lichius	5.4-1
5.5	Operator's views	S. Brown	5.5-1
5.6	Pilot's views	D. Leonard	5.6-1
5.7	Controller's views	D.C.B. Stuart	5.7-1

Session 6		Theme: Global Planning	
No.	Title	Speaker	Page
6.1	Global planning	N. Solat	6.1-1
6.2	Regional planning	V. Veres	6.2-1
6.3	WARC-92	F. Shilling	6.3-1
6.4	Conclusion	H.B. O'Keeffe	6.4-1