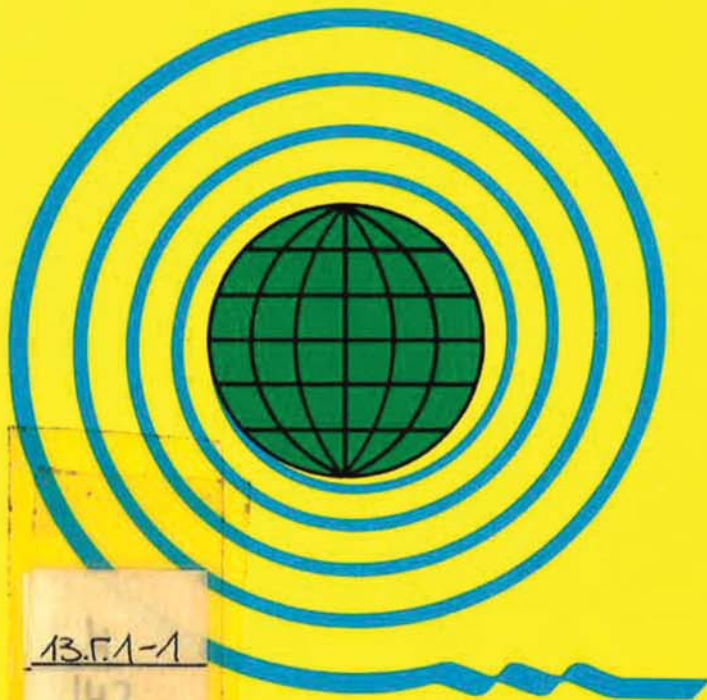


Second International Conference on Geotextiles

Deuxième Congrès International des Géotextiles

AUGUST 1-6, 1982
1-6 AOUT, 1982
LAS VEGAS, NEVADA
U.S.A.



**PROCEEDINGS
COMPTES-RENDUS**

Volumes I, II, III, IV
Permission to download the
papers in these proceedings
has been generously granted
by the Industrial Fabrics
Association International

13.F.1-1

147
2
VOLUME 4

VOL. 4

**Second International Conference
on Geotextiles**

**Deuxième Congrès International
des Géotextiles**

**AUGUST 1-6, 1982
1-6 AOUT, 1982
LAS VEGAS, NEVADA
U.S.A.**



**PROCEEDINGS
COMPTES-RENDUS**

These papers are published by:
Industrial Fabrics Association International
345 Cedar Building, Suite 450
St. Paul, Minnesota 55101
(612) 222-2508
TWX: 910-563-3622

©1983 Industrial Fabrics Association International

SECOND INTERNATIONAL CONFERENCE ON GEOTEXTILES DEUXIEME CONGRES INTERNATIONAL DES GEOTEXTILES

Sponsored by

INDUSTRIAL FABRICS ASSOCIATION
INTERNATIONAL

Sous patronage de

INDUSTRIAL FABRICS ASSOCIATION
INTERNATIONAL

Cooperating Sponsors

American Society of Civil Engineers (ASCE)
American Society for Testing and Materials (ASTM)
Canadian General Standards Board (CGSB)
Ecole Nationale des Ponts et Chaussées (ENPC)
International Union of Testing and Research Laboratories for Material and Structures (RILEM)
Transportation Research Board (TRB)

Avec la coopération de

American Society of Civil Engineers (ASCE)
American Society for Testing and Materials (ASTM)
Canadian General Standards Board (CGSB)
Ecole Nationale des Ponts et Chaussées (ENPC)
International Union of Testing and Research Laboratories for Material and Structures (RILEM)
Transportation Research Board (TRB)

Organizing Committee

J. P. Giroud, Chairman
S. M. Warner, Secretary General

Comité d'organisation

J. P. Giroud, Président
S. M. Warner, Secrétaire Général

Executive Committee

J. P. Giroud, Chairman
J. R. Bell, Chairman, Technical Program Committee
L. E. Murch, Vice-Chairman, Technical Program Committee
J. E. Fluet, Jr., Chairman, Exhibition Committee
S. M. Warner, Secretary General
A. Arman, Member, Chairman of ASCE Soil Placement and Improvement Committee
A. I. Johnson, Member, Past Chairman of ASTM Committee on Soil and Rock
G. Raumann, Member, Past Chairman of ASTM Subcommittee on Geotextiles
E. Leflaive, Corresponding Member, Representative of RILEM

Comité exécutif

J. P. Giroud, Président
J. R. Bell, Président, Technical Program Committee
L. E. Murch, Vice-Président, Technical Program Committee
J. E. Fluet, Jr., Président, Exhibition Committee
S. M. Warner, Secrétaire Général
A. Arman, Membre, Président, ASCE Soil Placement and Improvement Committee
A. I. Johnson, Membre, ASTM Committee on Soil and Rock
G. Raumann, Membre, ASTM Subcommittee on Geotextiles
E. Leflaive, Membre Correspondant, Representative of RILEM

Technical Program Committee

J. R. Bell, Chairman
L. E. Murch, Vice-Chairman
T. A. Haliburton
R. D. Holtz
A. I. Johnson
R. M. Koerner
E. Leflaive
G. Raumann

Comité du programme technique

J. R. Bell, Président
L. E. Murch, Vice-Président
T. A. Haliburton
R. D. Holtz
A. I. Johnson
R. M. Koerner
E. Leflaive
G. Raumann

Exhibition Committee

J. E. Fluet, Chairman
R. H. Smith, Exhibition Manager
S. M. Warner
H. M. Behery
S. K. Batra

Comité de l'exposition

J. E. Fluet, Président
R. H. Smith, Directeur de l'exposition
S. M. Warner
H. M. Behery
S. K. Batra

Table of Contents

Volume IV

IN MEMORIUM, T. ALLAN HALIBURTON	1	MEMORIAL, T. ALLAN HALIBURTON ...	1
CONFERENCE INVITED PAPERS.....	2	SESSION D'OUVERTURE	2
CONFERENCE PRESENTED PAPERS: QUESTIONS AND RESPONSES	17	LES COMMUNICATIONS DU CONGRES: LES QUESTIONS ET RESPONSES.....	17
CLOSING REPORTS	133	RAPPORTS DE CLOTURE.....	133
ERRATUM	154	LES ERRATA	154
AUTHOR INDEX	164	INDEX DES ANTEURS	164