

## TABLE OF CONTENTS

Introduction	ix
List of Participants	xi
<u>Papers Submitted</u>	
José Adem's contribution to Algebraic Topology SAMUEL GITLER	1
Graeme Segal's Burnside Ring conjecture J. F. ADAMS	9
Sections for bundles over projective spaces ENRIQUE ANTONIANO	19
An integrality theorem for K-theory Chern classes LUIS ASTEY	27
Index of tangent fields on compact manifolds JOSE L. ARRAUT AND DUANE RANDALL	31
On the antiautomorphism of the Steenrod algebra M. G. BARRATT AND W. R. MILLER	47
On the structure of supermanifolds CHARLES BOYER	53
Strong classification of Haefliger structures JAVIER BRACHO	61
Smooth $n$ -manifolds immerse in $\mathbb{R}^{2n-\alpha(n)}$ EDGAR H. BROWN	73
Unstable properties of $\Omega^n S^{n+k}$ F. R. COHEN AND M. E. MAHOWALD	81
On the cohomology of $MO\langle 8 \rangle$ DONALD M. DAVIS	91
Fixed point theory and homotopy theory ALBRECHT DOLD	105

On crossed modules MAURICIO GUTIERREZ	117
A proof that $B\mathbb{R}_1^C$ is 2-connected A. HAEFLIGER AND K. SITHANANTAN	129
Branched coverings as uniform completions of unbranched coverings J. H. V. HUNT	141
Zeros of equivariant $S^3$ -maps S. Y. HUSSEINI	157
Some theorems about the mod 2 cohomology of a finite H-space JAMES P. LIN	177
Finite G sets and Hopf algebras of representation rings ARUNAS LIULEVICUS	183
On $K_3$ of the dual numbers EMILIO LLUIS-PUEBLA	201
A generalization of the Alexander duality theorem W. S. MASSEY	207
Equivariant homotopy and cohomology theory J. P. MAY	209
A survey of the compact space form problem R. JAMES MILGRAM	219
$\beta$ -Homotopy equivalences LUIS MONTEJANO	257
Cohomology of some improper group actions JACK MORAVA	261
A generalization of Fox's spread completion S. DE NEYMET DE CHRIST AND F. GONZALEZ A.	271
Self maps of loop spaces of spheres F. P. PETERSON	287
Morava K. theories and finite groups D. RAVENEL	289
Invariant framings of quotients of $SL_2(\mathbb{R})$ by discrete subgroups JOSE A. SEADE	293

On $\mathbb{R}^S(B0)$ and the Arf invariant of Framed manifolds VICTOR SNAITH AND JORGEN TORNEHAVE	299
Cohomology Isomorphisms E. SPANIER	315
S-productos vectoriales: Teoria algebraia y topologica OSCAR VALDIVIA G.	331
Cobordism of three dimensional spheres ALBERTO VERJOVSKY,	339
Towards $BP_*X$ STEPHEN WILSON	345
Homotopy actions of nilpotent groups A. ZABRODSKY	353