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Report on the correspondence and papers

of

JOHN FRANK ADAMS FRS

(1930-1989)

mathematician

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Catalogue of the papers and correspondence of

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Compiled by Timothy E. Powell and Peter Harper

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LIST OF CONTENTS		Items	Page
GENERAL INTRODUCTION			4
SECTION A	BIOGRAPHICAL	A.1 - A. 19	8
SECTION B	RESEARCH	B.1 - B.173	11
SECTION C	LECTURES	C.1 - C.708	24
SECTION D	PUBLICATIONS	D.1 - D. 15	70
SECTION E	CORRESPONDENCE	E.1 - E.299	72
INDEX OF CORRESPONDENTS			98

GENERAL INTRODUCTION

PROVENANCE

The papers were received in March 1990 from the Department of Pure Mathematics and Mathematical Statistics, Cambridge University, through the good offices of Dr C B Thomas. Additional material assembled during the preparation of the Royal Society memoir of Adams was received from Professor I M James FRS in December 1990.

OUTLINE OF THE CAREER OF J F ADAMS

John Frank Adams was born in Woolwich on 5 November 1930. He was educated at Bedford School and won an Open Scholarship to Trinity College Cambridge in 1949 where he studied mathematics.

Following his graduation he began research at Cambridge, initially under A S Besicovitch then under S Wylie, and received his PhD in 1955. Adams was appointed to a Junior University Lecturership in 1955 and was a Research Fellow at Trinity College Cambridge 1955-58. He spent 1957-58 studying at the University of Chicago and at Princeton as a Commonwealth Fellow.

On his return to Cambridge Adams was appointed Fellow, College Lecturer and Director of Studies in Mathematics at Trinity Hall, posts held until 1962 when he took up a Readership at Manchester University. In 1964 Adams succeeded M H A Newman as Fielden Professor of Pure Mathematics there.

In 1970 Adams returned to Trinity College Cambridge as a Fellow when he was appointed to the Lowndean Chair of Astronomy and Geometry in succession to Sir William Hodge, a position he held until his death in January 1989.

Adams's most important area of research was in homotopy theory. He developed the algebraic system known as the Adams Spectral Sequence and did pioneering work on cohomology operations in K-theory. In 1965 he introduced the Adams conjecture (now the Adams theorem) into the study of K-theory.

His outstanding achievements in mathematics were recognised by his election to the Fellowship of the Royal Society in 1964 (while still only 34) and the award of the Society's Sylvester Medal in 1982. Adams was also elected a Foreign Associate of the US National Academy of Sciences and an Honorary Member of the Royal Danish Academy; in 1986 he was awarded an honorary doctorate by the University of Heidelberg.

For a full account of the life and career of Adams see the memoir by I M James (Biographical Memoirs of Fellows of the Royal Society, 36, 1990).

DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the List of Contents. The collection is particularly noteworthy for its coverage of Adams's lectures, research and incoming correspondence.

Section A, Biographical, is not substantial. It includes a little material of Adams's relating to his own career including three Bedford School notebooks and his PhD thesis, and material assembled by I M James during the preparation of his Royal Society memoir.

Section B, Research, provides extensive documentation of Adams's research from the 1950s until his death. It is presented in an alphabetical sequence arranged by subject title.

Section C, Lectures, is the largest in the collection. Two subsections comprise Adams's lecture notes and other teaching material for courses given at Manchester and Cambridge, and material from conferences and seminars attended by Adams throughout the world including drafts of Adams's contributions and notes of contributions by others. A third subsection consists of Adams's ms notes found in filing cabinet drawers labelled 'Other people's lectures'. It includes notes taken by Adams as an undergraduate at Cambridge in 1949.

Section D, Publications, is very slight. It includes drafts of a few of Adams's scientific papers.

Section E, Correspondence, contains virtually no extended exchanges of correspondence as very few copies of Adams's own letters survive. There is, however, significant correspondence from colleagues such as M F (later Sir Michael) Atiyah, M G Barratt, P J Hilton, I M James and S MacLane, sometimes extending over a period of twenty or thirty years.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are very grateful to Dr C B Thomas and Professor I M James for making the material available, and to Professor J H Davenport, University of Bath, for comments on the draft catalogue.

Timothy E Powell

Peter Harper

1991

SECTION A

BIOGRAPHICAL

A.1 - A.19

- A.1 The Times obituary 30 January 1989.

 Independent obituary 14 January 1989.
- A.2 List of publications.
- A.3 List of Adams's Cambridge research students (includes
 only those working under Adams for more than one year).
- A.4 - A.6 Three hardback notebooks used for Bedford School sixth-form
 mathematics notes, numbered '1', '2' and '3' on front covers.
- A.4 '1'. Inscribed inside front cover 'D. Adams I. VI Calculus'
 with list of contents given beneath. Paginated. Also used
 from the back for mathematics notes.
- A.5 '2'. Inscribed inside front cover 'D. Adams VI Mathematics'.
 Also used from the back.
- A.6 '3'. Inscribed inside front cover 'J.F. Adams VI '. Also
 used from the back.
- A.7 'On spectral sequence and self-obstruction invariants'.
 Adams's Cambridge Ph.D. thesis 1955. Bound copy.
- A.8 Correspondence from S Wylie, 1958, re appointment to
 University Assistant Lectureship, possible College Fellowship, etc.
- A.9 Offers of appointment at University of Chicago 1959 and
 1960-61; offer of appointment at Rutgers University 1966;
 letter declining Adams's application for post at State
 University of New York, Stony Brook, 1970.

 Correspondence re award of Honorary Doctorate of the
 University of Heidelberg, May 1986.

Biographical

- A.10 Notice of Adams's death; letters to family after Adams's death.
- A.11 - A.19 Material assembled by I M James during the preparation of his Royal Society memoir of Adams. This principally consists of reminiscences of Adams and other material sent to James by friends and colleagues, arranged alphabetically by contributor.
- A.11 Bahn, T includes photograph of Adams.
- Best, G
- Bousfield, A K
- Clegg, A B
- A.12 Davis, D M
- Greenlees, J P C
- Gugenheim, V K A M
- A.13 Johnstone, P
- Kendall, D G
- May, J P. Address at Memorial Service for Adams, 29 April 1989, 12pp typescript.
- A.14 Moss, R M F
- Polkinghorne, J C

Biographical

- A.15 Ravenel, D C

 Ray, N

 Sjogren, J A

 Snaith, V
- A.16 Sutherland, W A

 Tangora, M C

 Thomas, C B
- A.17 Walker, G
- A.18,A.19 Other material.
- A.18 'Report on Tenure of a Commonwealth Fund Fellowship',
Adams's report on his research conducted in USA 1958.
7pp photocopied typescript.
- 'Conversation between a Topologist and Two Machines',
5pp photocopied ms, 10 January 1984.
- 'An Inquiry into some work of William M Singer'.
11pp photocopied ms, nd.
- A.19 Photocopied letter to research student, 11 November
1981.

SECTION B

RESEARCH

B.1 - B.173

The material is principally Adams's undated ms drafts, notes and calculations documenting his research from the 1950s until his death. It was found in Adams's own folders with titles inscribed thereon. These titles have been reproduced in the catalogue entries and form the basis for the arrangement of the material in an alphabetical sequence. At the end of this sequence is miscellaneous research material including 'work done' and 'work in progress'. The contents of bulky folders have been subdivided for ease of reference.

At B.173 is Adams's card-index of bibliographical references.

- B.1 'On Adem-Steenrod Operations'. Includes untitled 12pp ms draft beginning 'Let Λ be a principal ideal domain of coefficients'.
- B.2 'Algebraic Geometry'. 22pp duplicated ms draft (not in Adams's hand).
- B.3 'Amusements'. Miscellaneous puzzles, calculations etc.
- B.4 'Anderson's work'. Notes on work of Anderson. Includes 9pp ms note 'Definition in terms of $\mathfrak{b}dles$ ' on verso of 1963 example sheets.
- B.5 - B.7 'Atiyah's "Maps of degree k " idea'. Notes on work of M F Atiyah. 3 folders.

Research

- B. 8 'MGB [M G Barratt] stuff'.
- B. 9 - B.11 'WORK WITH MGB'.
- B. 9 Letter to Michael [Barratt] re 'the argument you left on my blackboard', written 'Manchester 12th Feb'; ms calculations (some on verso of 1963 example sheets). See also B.113.
- B.10, B.11 Miscellaneous ms notes etc. 2 folders.
- B.12, B.13 'Bass. Alge. K-theory'. Notes on work of H Bass.
- B.12 Ms notes on 'Topics in Algebraic K-theory'.
- B.13 Ms notes on 'Higher K-theory'.
- B.14-B.18 'N Blackburn. Lie algebras'. Notes on work of N Blackburn. 5 folders.
- B.19-B.32 Work by D P Carlisle and P H Kropholler.
- B.19,B.20 'David Carlisle and Peter Kropholler's work'.
- B.19 'On the "magic formula" of Carlisle & Kropholler', 14pp ms; 'Statement of the work of Carlisle and Kropholler', 5pp ms.
- B.20 Correspondence with Kropholler, August, September 1987; ms notes.
- B.21 'Results, n=2'.
- B.22 'Results, n=3'.

Research

- B.23 'Tabulated results'.
- B.24, B.25 'General theory'. 2 folders.
- B.26 - B.28 'Proofs of results asserted'. 3 folders.
- B.29- B.32 'INVARIANTS'
- B.29 'Final steps in the symplectic case' by Kropholler and Carlisle, 5pp ms, with Adams's comments of 4 September 1987; 'Notes on Galois Theory', 3pp ms; ms notes on 'Bilinear Algebra' and 'Quadratic Algebra'.
- B.30 - B.32 Miscellaneous ms notes and calculations. 3 folders.
- B.33 - B.35 'Work on chain complexes with extra structure, iterated cobar etc.' 3 folders.
- B.36 - B.38 'Ciphers etc.' Ms tables and notes. 3 folders.
- B.39 - B.44 'Conway'. Notes on work of J H Conway.
- B.39 'A simple construction for the Fischer-Griess Monster Group' by Conway, dedicated 'To one who will understand. July 8, 1984'. 25pp typescript + appendix.
- B.40 'The Steiner triple system $S(5,8,24)$ '. Ms notes.
- B.41 Ms notes on 'The Hexacode', 'Sylvester's combinatorics' and 'The Golay code'.
- B.42 - B.44 Miscellaneous ms notes on Conway's work. 3 folders.

Research

- B.45, B.46 'CONWAY ON MONSTER'.
- B.45 Ms notes on 'J H Conway. Monster'.
- B.46 'The Golay code \mathcal{G} and cocode \mathcal{G}^* '. 19pp typescript draft + appendices.
- B.47 'Cubes'.
- B.48 - B.50 'Fibre-Bundles and Characteristic Classes'. 3 folders.
- B.51 'Hirzebruch problem'.
- B.52 'Work with [P N] Hoffman'.
- B.53, B.54 'Hurwitz-Radon'.
- B.53 'Hurwitz-Radon Revisited', 10pp ms; ms note 'Hurwitz-Radon à la Wood'.
- B.54 Ms notes.
- B.55 - B.58 'Drafts on J & Work'. 4 folders.
- B.59 - B.66 'Work on K-theory spectral sequence'. Material re joint research with D W Anderson, c 1964.
- B.59 Correspondence, including Adams's 'attempt to explain my approach to our spectral sequence', 39pp ms.

Research

- B.60 Ms notes on 'Requisites for setting up a spec. seq.' etc.
- B.61 Correspondence from Anderson. Includes 7pp ms and 12pp typescript drafts of 'Vector fields on Spheres' by Anderson.
- B.62 Letter from M Boardman, 9 December 1964, re Adams's 'comments on the spectral sequences'; 'A generalization of the Adams spectral sequence' by Anderson 22pp ms; ms notes.
- B.63 Correspondence from Anderson. Includes 'The Adams spectral sequence for generalized cohomology', 10pp ms, 'Cohomology operations in p-adic K-theory', 4pp typescript and ms, 'Convergence of the K-theoretic Adams spectral sequence', 9pp ms.
- B.64 'A spectral sequence defined using K-theory' by Adams, 28pp photocopied ms.
- B.65, B.66 Ms notes, some on verso of 1963 and 1964 University of Manchester circulars. 2 folders.
- B.67 'K-theory spec. seq; Anderson & notes on him'.
- B.68-B.70 'K p^∞ '. Ms notes, calculations, tables etc., some on verso of 1965 circulars. 3 folders.
- B.71-B.74 'Work on K(U)'.
- B.71 'Two results on Chern characters', 9pp ms; 'Talk for Bonn', 4pp ms; 'Draft for Atiyah', 7pp ms.

Research

- B.72-B.74 Miscellaneous ms notes, tables etc. 3 folders.
- B.75-B.78 ' $\Omega(K)$ '.
- B.75 'On the cobar construction', 16pp ms; ms note on verso
of 1955 letter.
- B.76-B.78 Miscellaneous ms notes etc. 3 folders.
- B.79 'Knopfmacher's problem'. Includes notes on verso of
1962-63 example sheet.
- B.80 'Lang'. Notes on work of S Lang.
- B.81 'Ledgard course on K^1 '. Notes on work of R Ledgard.
- B.82-B.84 'Lie Groups notes'.
- B.82 'Notes on maximal tori, etc.' by R G Swan, 29pp typescript;
ms notes on it by Adams, 9pp.
- B.83 Ms notes on work of I M Singer and H Hopf.
- B.84 Miscellaneous notes, bibliographical references etc.
- B.85, B.86 'Landweber'. Notes on work of P Landweber and complex
bordism. 2 folders.
- B.87 'MacLane Categories, Sheaves and Logic'. Notes on work
of S MacLane.

Research

- B.88-B.93 'Maps inducing non-zero homomorphisms of \tilde{K}_p '.
- B.88,B.89 Ms note 'Alternative approach to the Essential Map'.
2 folders.
- B.90 'Calculations using method of "killing homotopy groups"...'.
- B.91 'Killing homotopy groups: unstable case'.
- B.92 'Killing homotopy groups: stable case'.
- B.93 'Some applications of K-theory to homotopy theory',
ms notes and tables.
- B.94-B.96 'May: Geometry of Iterated Loop Spaces'. Notes on
work of J P May. 3 folders.
- B.97,B.98 'Notes on Peter May, etc.' 2 folders.
- B.99-B.102 'Obstructions: Homotopy Groups'. Some material on back
of duplicated typescript sheets 1954. At B.100 is rough
draft of letter to G W Whitehead. 4 folders.
- B.103-B.107 'Calculations about Operations of Higher Kinds in RP^∞ ,
 CP^∞ '. Includes note on back of 1960 Trinity Hall
register of addresses. Some sets of calculations have
later annotations by Adams. 5 folders.
- B.108 'Operations on simplicial chains'.

Research

- B.109-B.112 'Proj[ective] Class Groups'. Ms notes, tables, calculations etc.
- B.109 Includes letter from D Rees, nd, and C Hooley, 17 March 1966.
- B.110 Ms notes on 'o) Jordan-Holder Theorem'.
- B.111,B.112 Miscellaneous notes. 2 folders.
- B.113-B.118 'Quadratic Constr[uctio]n & MGB[arratt] on h^2 '.
B.113 Duplicated ms notes on work of Barratt and M E Mahowald, 1968; 'MGB notes on my blackboard', 4pp ms (See also B.9); copy of letter from ?Mahowald to Barratt.
- B.114 'Princeton lecture' on recent work of Barratt and Mahowald, 13pp ms; ms notes.
- B.115 Ms notes on 'Quadratic Construction'.
- B.116-B.118 Ms notes 'On the quadratic construction', 'On the squaring approach', etc.
- B.119 'Ravenel'. Notes on work of D C Ravenel.
- B.120 'Reciprocity Laws'.
- B.121 'Samelson'. Includes notes on work of H Samelson.

Research

- B.122-B.129 'Work with Saunders [MacLane]' on PACTS. Chiefly correspondence 1963, 1966.
- B.122 Correspondence with MacLane, May-June 1963.
- B.123 Correspondence to MacLane, 21 and 25 April 1966, enclosing 'a draft on the "interpreted" PACT Ω ', paginated 1.1-8.2.
- B.124 Correspondence April-May 1966. Includes Adams's 'Draft 1 on the Bar Construction', 8pp ms.
- B.125 Correspondence June 1966. Includes MacLane's draft 'Comparison of Cobar and Loop Space Construction for the operations of a Steenrod PACT', 9pp ms.
- B.126 Correspondence July 1966, re MacLane's draft.
- B.127 Correspondence August 1966.
- B.128 'Draft on the Acyclic-Models Argument', 10 September 1966; untitled 9pp ms note beginning 'My first objective is a fairly good PACT $\Pi(\infty)$...'.
- B.129 Miscellaneous notes.
- B.130-B.133 'Splitting Cohomol. Theories'.
- B.130 'Splitting generalized cohomology theories with coefficients', 13pp duplicated ms; 'Seminar for B.M.C.' on splitting cohomology theories, 7pp ms.

Research

- B.131 Untitled note beginning 'It seems to me that Proposition 1.15 could be proved more lucidly by using a certain amount of general theory', 17pp photocopied ms; ms notes.
- B.132,B.133 Lecture notes 'On splitting cohomology theories with coefficients'. 2 folders.
- B.134,B.135 'Notes on [R G] Swan'. 2 folders.
- B.136-B.139 'Swan course'. Photocopied ms notes on lectures given by Swan March-April 1973, with Adams's ms notes found therewith. 4 folders.
- B.140,B.141 'New work on Systematic htpy theory with [?] 2 coeffts'.
2 folders.
- B.142 'Zariski'. Notes on work of O Zariski.

Miscellaneous

- B.143-B.146 'Manuscript Notes of Papers'.
- B.143 Correspondence 1954-55 from J H C Whitehead, J-P Serre and J C Moore.
- B.144 Correspondence June, October 1955 from Moore.

Research

- B.145,B.146 Ms notes on the literature etc., some in French. 2 folders.
- B.147-B.149 'Notes' on the work of others. 3 folders.
- B.150,B.151 'Work on Mark's problem'. 2 folders.
- B.152 'Problems etc.'
- B.153-B.156 'Work Done'. Ms notes and calculations, some with later annotations identifying the work.
- B.153 Includes 'On the topology of Cauchy's Theorem',
'On Operations' (described as 'work done in Trin. Summer 57'.)
- B.154 Includes 'Relative spaces'.
- B.155 Includes 'Chain algebras'; 'Combinatorial work';
'Cartan constructions'.
- B.156 Includes 'On isotropic Cartesian tensors', 3pp; 'On
null sets'; 'Existence of a non-Abelian group complex'.
- B.157-B.159 'Various sorts of Work Done'. Ms drafts and notes, some
with later annotations identifying the work.
- B.157 Ms drafts annotated 'This is a draft about the connections
between Homological Algebra & Algebraic Topology which I
started writing in connection with Saunders [MacLane]'s book',
and 'This is a draft for Irvin on the index of a manifold'.

Research

- B.158 'Contents. (1) Idea of Stallings for obtaining K^n, L^n by subdividing a simplex. (2) Draft on A_∞ -spaces. (3) Some sheets with diagrams making things explicit'.
- B.159 Includes 'Annular neighbourhoods in manifolds', 3pp; 'Homological algebra', 3pp.
- B.160 'WORK DONE'. Ms notes and calculations.
- B.161-B.169 'Work in progress'
- B.161-B.163 Ms tables, notes, calculations. 3 folders.
- B.164 Ms tables annotated 'Final answer'.
- B.165 'Generalities on change of rings' annotated 'Good proof'.
- B.166 'Good proof'.
- B.167 'Direct definition of P_r '.
- B.168, B.169 Ms notes, etc. 2 folders.
- B.170, B.171 'Work in (?) progress'.
- B.170 'Stable Homotopy Theory', 7pp ms; 'Remarks on stable operations of the n th kind, for Richard'; ms notes.

Research

- B.171 Index cards from Adams's 'Work-to-be-done file';
 'Research problems...'; etc.
- B.172 'Current Research'.
- B.173 Bibliographical references arranged alphabetically
 by author. In card index box.

Lectures

Algebra

- C.1 - C.11 'Algebra Year 1. Term 1.'
- C.1 'MT 111 Algebra, Michaelmas Term 1966' lecture notes.
- C.2 - C.7 'Algebra Notes'. 6 folders.
- C.8 'MT 111 Mich.Term 66 Examples 6'; '111 Algebra Examples 1';
ms draft 'Challenge Problem' and examination questions.
- C.9 'MT 111 Revision Notes Autumn 67'.
- C.10 'Course examinations January 1969 MT 111'; MT 111
vacation questions and model answers.
- C.11 Miscellaneous notes.
- C.12 - C.21 'ALGEBRA I'.
- C.12 Course summary, compiled summer 1981; example sheets;
examination questions.
- C.13 Questionnaires on contents and style of Adams's algebra
lectures completed by first year students 1980; requests
from students for topics to be covered.
- C.14 - C.17 'Algebra I' lecture notes. 4 folders.
- C.18, C.19 Students' questions, requests for guidance etc. These
are on slips of paper clipped to drafts of Adams's
replies. 2 folders.

Lectures

- C.20, C.21 Miscellaneous notes. 2 folders.
- C.22 - C.29 'Algebra IA'.
- C.22 - C.27 Lecture notes. 6 folders.
- C.28 Students' questions and requests for guidance on the
course.
- C.29 Notes arising from '3 requests for work on duality'.
- C.30, C.31 'ALGEBRA IA'.
- Students' questions and requests for guidance, with
Adams's answers. 2 folders.
- C.32 '111 algebra: solutions to examples'.
- C.33, C.34 'ALGEBRA II'.
- Lecture notes. 2 folders.
- C.35 - C.38 'MT 200 Algebra Course'.
- C.35 - C.37 Lecture notes. 3 folders.

Lectures

- C.38 Algebra II question sheets.
- C.39 - C.43 'Multilinear Algebra Prof Adams'.
- C.39 - C.42 'Multilinear Algebra' lecture notes annotated '117 pages. Lecture at rate of 10 pages a lecture'. 4 folders.
- C.43 'Exterior Powers' lecture notes; 'MT 211 - Examples - Summer I'.
- C.44, C.45 '211 Algebra'.
- C.44 '2nd year [summer-term] algebra course'.
- C.45 Miscellaneous notes.
- C.46 - C.53 'F[urther] II Algebra'.
- C.46 - C.48 'F II algebra' lecture notes. 3 folders.
- C.49 - C.51 'Chap.II Modules, Vector Spaces. Linear Algebra'. 3 folders.
- C.52, C.53 Notes on 'worked examples'. 2 folders.
- C.54 - C.59 'Third-year Normal Algebra Course'.
- C.54 'Proposed schedule for third-year normal algebra course'; list of students; note of questions on the course raised by students.

Lectures

- C.55 - C.58 'Algebra course' lecture notes. 4 folders.
- C.59 'Chap.III. Fields' lecture notes.
- C.60 - C.65 'Commutative Algebra'.
- C.60 Examples, examination questions on commutative algebra for Part III of the Mathematical Tripos 1972.
- C.61 - C.65 'Commutative Algebra' lecture notes. 5 folders.
- C.66 - C.69 'Commutative Algebra (2)'.
- C.66 Draft examination questions, examples etc.
- C.67 - C.69 Lecture notes. 3 folders.
- C.70 - C.74 'Commutative Algebra, Version 2'.
- Miscellaneous notes. 5 folders.
- C.75 - C.81 'Algebra for Applied Algebraists'.
- C.75 - C.80 'Algebra for Applied Algebraists' lecture notes. 6 folders.
- C.81 'Algebra for Applied Algebraists' lecture notes; 'Modules over a principal ideal domain', duplicated ms notes.

Lectures

- C.82 - C.86 'Further topics in algebra'.
C.82 Exercises for Further Topics in Algebra course, 1987.
C.83 Students' questions and requests for guidance on the course.
C.84 Ms and typescript course notes.
C.85, C.86 Lecture notes. 2 folders.
C.87 - C.89 'Further Topics in Algebra'.
C.87 Booklists circulated 27 April 1987; exercises for Lent Term 1987.
C.88 Duplicated ms course notes.
C.89 'Further Topics in Algebra' lecture notes.

Geometry

- C.90 - C.95 'Geometry IB course'.
C.90 'IB Geometry' example sheets; correspondence from D W Babbage re geometry examination questions 1974-75.

Lectures

- C.91 Questionnaires on content and style of Adams's IB geometry lectures completed by students 1974.
- C.92 - C.95 Lecture notes. 4 folders.
- C.96, C.97 'Geometry hand-outs'. 2 folders.
- C.98 - C.104 'Geometry'.
- C.98 Questionnaires on Adams's geometry lectures completed by students 1982; letter from student requesting 'a lecture on lie groups' 25 April 1985, with ms notes on lie groups.
- C.99 - C.104 Lecture notes for course of eight summer-term lectures. Some sheets marked 'OLD'. 6 folders.
- C.105-C.112 'Geometry. 3rd Yr'.
- C.105 'Draft 3rd-year Geometry course' by Adams and J Peters; 'Draft Geometry Syllabus'.
- C.106 'Examples - P1 Geometry', set of duplicated ms sheets for geometry classes 9 October - 11 December 1967.
- C.107-C.112 'Geometry lecture notes'. 6 folders.

Lectures

- C.113-C.120 'Diff[erenti]al Analysis & Geometry'.
- C.113 Questionnaires on Adams's differential analysis and geometry lectures completed by third-year students 1979; duplicated ms course notes compiled by C B Thomas for 1988-89.
- C.114 Ms and duplicated typescript example sheets.
- C.115-C.119 'Diff[erenti]al Analysis and Geometry' lecture notes. 5 folders.
- C.120 Differential Analysis course notes.
- C.121-C.129 'D.G'.
- C.121 Two sets of completed questionnaires on Adams's differential analysis and geometry lectures. First set completed by third-year students 1985.
- C.122 Example sheets; students questions, requests for guidance etc.
- C.123-C.128 'Differential Analysis and Geometry' lecture notes. 6 folders.
- C.129 Miscellaneous notes.

Lectures

Homology

- C.130-C.133 'Homology Theory III'.
- C.130 Attendance list for Adams's third-year homology course, summer term 1963; 4pp ms draft 'What is homology theory good for?'; miscellaneous notes.
- C.131-C.133 'Homology theory' lecture notes. 3 folders.
- C.134-C.143 'Diploma course on generalised homology'.
- C.134-C.138 'Extraordinary Cohomology Theories' lecture notes. 5 folders.
- C.139,C.140 Lectures on $K^*(X)$ '
- C.139 Typescript notes for lectures 1-4.
- C.140 Typescript notes for lectures 5,6; ms lecture notes on $K^*(X)$.
- C.141-C.143 Miscellaneous lecture notes. 3 folders.

Homotopy

- C.144-C.151 'Homotopy Theory'.
- Lecture notes, latest reference 1961. 8 folders.

Lectures

- C.152 'III Homotopy Theory'.
Ms note of basic definitions etc., attendance sheet,
Adams's note re supervision of homotopy theory course
4 May 1977, etc.
- C.153-C.159 'Homotopy-theory'.
C.153 Course outline; lists of students for 1980 and 1981;
correspondence from R Luckwith re draft examination
questions 1976 and 1981; etc.
- C.154-C.159 'Homotopy Theory' lecture notes. 6 folders.
- C.160-C.163 'HOMOTOPY'.
C.160 Homotopy theory exercises and examination questions 1982
and 1983; lists of students 1982; etc.
- C.161-C.163 Lecture notes. 3 folders.
- C.164-C.167 'HOMOTOPY THEORY. ('83 version)'.
C.164 'Homotopy-Theory Exercises'; lists of students.
- C.165-C.167 Lecture notes. 3 folders.
- C.168-C.171 'Homotopy'.
C.168 List of students 1985; examples sheets; draft examination
questions, etc.

Lectures

- C.169-C.171 'Notes on Homotopy'. 3 folders.
- C.172 'Homotopy theory'.
Lecture notes on 'Toda brackets'.
- C.173-C.176 'Advanced Homotopy Prof. J F Adams'.
Lecture notes. 4 folders.
- C.177-C.183 'Advanced Homotopy Theory'.
Lecture notes. 7 folders.
- C.184-C.189 'Adv. Htpy'.
Lecture notes on 'Obstruction theory', 'Postnikov systems'
etc. 6 folders.
- C.190 Lecture notes, annotated 'Add to other file of notes on
Advanced htpy theory'.
- C.191-C.195 'Further homotopy'.

cont'd...

Lectures

- C.191 Ms draft and typescript Part III examination paper on further homotopy theory 1976; questionnaire on Adams's further homotopy theory course completed by third-year students 1976.
- C.192-C.195 'Further homotopy' lecture notes. 4 folders.
- C.196-C.199 'Calculating Homotopy Groups'.

'Lecture notes on calculating homotopy groups'; miscellaneous notes. 4 folders.
- C.200-C.207 'Stable Homotopy and Generalised Cohomology'.
- C.200 'Topology Diploma Courses Michaelmas Term 1970'; draft examination paper for Stable Homotopy Theory and Generalised Cohomology Theories, 1971; ms calculation (not in Adams's hand).
- C.201 Ms ?course outline.
- C.202-C.207 'Stable Homotopy and Generalised Cohomology' lecture notes. 6 folders.
- C.208-C.215 'Systematic Phenomena in p-primary Homotopy Theory'.
- C.208 Draft letter to Arunas, 25 February 1986, re 'Young idempotents'.
- C.209-C.215 'Systematic phenomena in Mod p Homotopy Theory' lecture notes. 7 folders.

Lectures

C.216-C.218 Untitled lecture notes beginning 'Introduction to localisation.
In homotopy theory, we have known for a long time that it is
sufficient to attack our problems one prime at a time'.
3 folders.

K-theory

C.219,C.220 'K-theory'.

Lecture notes. 2 folders.

C.221-C.223 'K-theory'.

Lecture notes. 3 folders.

C.224-C.230 'Algebraic K-theory'.

C.224 Example sheets; algebraic K-theory examination paper 1974.

C.225-C.230 'Algebraic K-theory' lecture notes. 6 folders.

Lie Groups

C.231-C.241 'Lie Groups'.

C.231 ?Introductory lecture notes.

C.232-C.241 'Lie Groups' lecture notes. 10 folders.

Lectures

- C.242-C.248 'Lie Groups II'.
- C.242 Ms example sheets; lie groups examination paper 28 May 1974; bibliography.
- C.243 List of students for Pt III class; etc.
- C.244-C.246 Lecture notes. 3 folders.
- C.247,C.248 'LIE GROUPS Lectures given in the University of Manchester, 1965, by J.F.Adams Notes by M.B.Mather'. 2 folders.

Representation Theory

- C.249-C.255 'Reptn Theory'.
- C.249 Questionnaires on Adams's representation theory lectures completed by third-year students 1976, with Adams's 'Analysis of Replies...'; typescript 'Questions on representation theory'.
- C.250-C.252 'Representation Theory' lecture notes. 3 folders.
- C.253 'Worked Examples...'; ms notes beginning 'Dirac group of 32 matrices'; ms notes on 'The theory of group representation'.
- C.254,C.255 Miscellaneous notes. 2 folders.

Lectures

- C.256-C.261 'R[epresentation] Theory'.
C.256 Students questions and requests for guidance; example sheets, dated 'Mich[aelmas] 77'.
C.257-C.259 'Lecture notes on Representation Theory'. 3 folders.
C.260 Ms notes on Representation Theory'; ms notes 'For appendix'.
C.261 Miscellaneous notes.
C.262,C.263 'Rep Theory Examples, Hand-outs'.
Ms and duplicated ms example sheets and hand-outs. 2 folders.

Topology

- C.264-C.270 'Topology II & III'.
C.264-C.269 'Topology II' lecture notes, some on verso of 1963 Royal Society accounts. 6 folders.
C.270 Continuation of the preceding on 'The Husenicz Isomorphism Theorem'.
C.271,C.272 'Diploma Course on Alge[braic]. Topol'.
Lecture notes. 2 folders.

Lectures

- C.273 'Reading List'.

'Reading list for algebraic topology' October 1958;
'Syllabus (for Research Students) of Algebraic Topology';
bibliography.
- C.274-C.283 'Algebraic Topology'.
- C.274 Algebraic topology examination paper 1979; letter from
C R F Maunder 3 March 1980 re draft algebraic topology
examination paper; course outline; etc.
- C.275 Example sheets.
- C.276 Lists of students etc.
- C.277-C.282 Lecture notes. 6 folders.
- C.283 Miscellaneous notes.
- C.284-C.287 'Diploma Course'.

Lecture notes on algebraic topology. 4 folders.
- C.288-C.295 'Topics in Algebraic Topology'.
- C.288 Correspondence with D S Kahn re the Kahn-Priddy Theorem,
January-March 1972. Includes 'Applications of the transfer
to stable homotopy theory' by Kahn and S B Priddy, 8pp
typescript, and Adams's ms note 'Peter May on KAHN-PRIDDY THM'
- C.289 Two duplicated ms calculations by Adams; ms note beginning
'Frank: Here is a complete calculation of $H_*(C^\infty S^0)$ '.

Lectures

- C.290-C.295 Lecture notes. 6 folders.
- C.296-C.301 'Part III Further Topics in Alge. Topol'.
- C.296 Circular letter re 'Part III Mathematical Tripos 1988';
course outlines for 'Algebraic Topology' and 'Further
Topics in Algebraic Topology'; example sheet; draft
examination questions; etc.
- C.297-C.301 Lecture notes. 5 folders.
- C.302 'TOPOL'.
- List of students for Advanced Algebraic Topology 1985;
example sheet; 4pp ms draft 'Eilenberg-Maclane spaces
and "killing homotopy groups"'; 7pp ms draft 'Classes
of abelian groups and localisation'.
- C.303-C.306 'Analytic Topology'.
- C.303 'Analytic Topology Problems' May 1957; 8pp ms draft
'Connection in the Plane and Sphere'; ms list of 'Requests'
?from students.
- C.304-C.306 'Analytic Topology' lecture notes. 3 folders.
- C.307-C.311 'Bundles'.

cont'd...

Lectures

- C.307 Topology of Bundles and Classifying Spaces course outline
1974-75; examination paper 1975; 'Examples on Characteristic
Classes'; questionnaires on Adams's topology of bundles
course completed by students 1974.
- C.308-C.311 'Topology of Bundles & Classifying Spaces' lecture notes.
4 folders.
- C.312-C.315 'Topology of Manifolds'.
- C.312,C.313 'Manifolds' lecture notes. 2 folders.
- C.314,C.315 Miscellaneous lecture notes. 2 folders.

Miscellaneous

- C.316-C.319 'Cartan Theory'.

Lecture notes. 4 folders.
- C.320-C.324 Lecture notes on CW-complexes. 5 folders.
- C.325-C.327 'The Projective Class Group: Lecture Notes'.

Lecture notes. 3 folders.

Lectures

- C.328-C.337 'Representations of the Classical Groups'.
Lecture notes (some on verso of 1962 example sheets).
10 folders.
- C.338-C.344 'Riemann Surfaces and Algebraic Curves'.
C.338 Notes on times of tutorials and syllabus, ms note on
'Algebra needed for Atiyah stuff', etc. Some on verso
of 1962 example sheets.
- C.339-C.344 'Riemann surfaces and algebraic curves' lecture notes.
6 folders.

CONFERENCES AND SEMINARS

Material re conferences and seminars attended by Adams
in Britain and overseas: principally ms notes etc., on contributions
by others and notes and drafts of his own contributions. With the
exception of notebooks at C.345 and C.346 the material was found in
Adams's folders with titles inscribed thereon. These titles are
reproduced in the catalogue entries. Contents of bulky folders have
been subdivided for ease of reference.

The material is presented in a chronological sequence
with a little undated material at the end.

Lectures

Where applicable reference has been made to Adams's
List of Publications (A.2) in the form Bibliog. no. ...

- C.345 Hardback notebook inscribed inside front cover 'Seminar notes 1954/55, including Young Topologists' Conference at Oxford'. Used from both ends for notes and calculations. At back are loose notes.
- C.346 Hardback notebook inscribed inside front cover 'Seminar Notes 1955/56, including British Mathematical Colloquium.' Used from the front for notes and calculations. At the back are loose notes.
- C.347 'B M C [British Mathematical Colloquium] lecture'.

'The existence of division algebras, and related topological questions', 13pp ms, latest bibliographical reference 1955.
- C.348,C.349 'Seminar Notes etc'.

2 folders. A little correspondence at front is dated 1955 and 1956.
- C.350-C.353 'Bristol notes'.
- C.350 Untitled draft beginning 'I want to talk about the homology and cohomology theories for certain algebraic structures', 19pp ms.

Lectures

- C.351-C.353 Ms notes and calculations, some on verso of 1956 Cambridge college minutes. 3 folders.
- C.354 'Bundles'.

'Lecture on fibre-spaces for the Quintics', 7pp ms;
'Classification theorem', 9pp ms; ms notes, some on verso of information sheet for colloquium to be held in June 1956.
- C.355,C.356 'Seminar Notes - America'.

2 folders. Latest bibliographical reference 1957.
- C.357,C.358 'Seminars Given At Columbia. 1957/58'.

Ms notes. 2 folders.
- C.359-C.361 'Seminar Notes (1958/59/60)'.

3 folders. Includes notes on verso of programme for Mathematische Arbeitstagung, Bonn, July 1959.
- C.362 -C.367 'Seminar Notes - 1959/60'.

6 folders. Includes 'Theory of representation and characters' by Adams, 10pp ms.

Lectures

- C.368-C.370 'Seminar Notes 1960/61'.
- C.368 'Untitled draft beginning 'In this seminar I would like to give an account of some work which is to appear in the Proc. Camb. Phil. Soc. under the title "On Chern characters and the structure of the unitary group" ' (Bibliog. no.18) 8pp ms; 'S.P.Novikov on the cohomologies of the Steenrod algebra', 6pp typescript; typescript note on work of Sho-Kwan Chow.
- C.369,C.370 Ms notes. 2 folders.
- C.371-C.375 'Seminar notes (2nd trip to America, 1961)'.
5 folders.
- C.376,C.377 'Seminars on $K(x)$ '.
Rough ms drafts. 2 folders.
- C.378-C.384 'Seminar Notes M' [anches]ter '62'.
Ms notes and calculations, some on verso of duplicated typescript example sheets etc. 7 folders.
- C.385-C.390 'Aarhus & Stockholm'.
Material from Colloquium on Algebraic Topology, Aarhus, 1-10 August 1962. Adams spoke on 'Applications of the Grothendieck-Atiyah-Hirzebruch functor $K(x)$ ' (Bibliog. no.24).

Lectures

- C.385-C.388 Duplicated typescript texts of lectures. 4 folders.
- C.389 Ms notes on lectures.
- C.390 Miscellaneous duplicated typescript and ms material.
- C.391-C.393 'Seminar notes, Morse symposium & M [anchester] '63'.
- C.391 Abstracts of lectures, including Adams's 'On the groups $J(X)$ ', with ms notes on them.
- C.392,C.393 Ms notes. 2 folders.
- C.394-C.396 'Ideas for Seattle talks'.
- C.394 Invitation from N E Steenrod to deliver 'two expository lectures to the [Seattle Summer] Institute on the subject of cohomology operations', 6 May 1963.
- C.395,C.396 Ms notes and calculations. 2 folders.
- C.397 'Lecture Notes (Seattle)'.
Rough ms drafts of first, fourth and fifth lectures.
- C.398-C.404 'Seattle'.
Ms notes. 7 folders.

Lectures

- C.405-C.411 'Lecture Notes BMC [British Mathematical Colloquium] '63
& '63 - '64'.
7 folders.
- C.412 'Wood Seminar on Atiyah-Singer'.
Ms notes on 'Wood seminar' and 'Wood II'; miscellaneous
ms notes. Latest reference 1963/64.
- C.413-C.419 'Summer 64- '.
- C.413 'An exercise in Obstruction Theory November 1964'.
11pp duplicated typescript annotated 'JFA'.
- C.414-C.419 Ms notes. 6 folders.
- C.420,C.421 'Kuiper Seminar'.
- C.420 'The general linear group of Hilbert space is k - connected'
by N H Kuiper, June 1964.
- C.421 Rough draft of 'Seminar on Kuiper's work', etc.
- C.422-C.432 'Seminars'.
- C.422 Programme of Topology Conference, Oberwolfach, W Germany,
20-30 September 1965. Adams is not listed as a speaker.

Lectures

- C.423-C.432 Ms notes etc. The first page of notes is annotated 'Arbeitstagung '67'. 10 folders.
- C.433-C.439 'Seminar'.
Ms notes etc, latest bibliographical reference 1965.
7 folders.
- C.440,C.441 'Arbeitstagung '66'.
- C.440 'Arbeitstagung lectures of M. Atiyah - June 1965. The Euler Characteristic Theorem I', 4pp duplicated typescript; ms notes on Atiyah's lectures.
- C.441 Ms notes on other lectures.
- C.442,C.443 'Hattori-Stong Talk'.
- C.442 'The work of Stong and Hattori on Complex Cobordism', 2Opp ms. Latest bibliographical reference 1966.
- C.443 'Talk for Bonn', 3pp ms; ms notes.
- C.444-C.446 'International Geometry Symposium'.
Ms notes, latest reference 1966. 3 folders.

Lectures

- C.447 'Seminar on Quillen on Adams's Conjecture'.

'Quillen's work on approximating BU by BG', 5pp ms;
'Talk on Quillen', 20pp ms, latest bibliographical
reference 1967; 'Talk on Quillen III', 10pp ms.
- C.448 'Lectures given at Waterloo & Chicago. Easter 69'.

'Lecture for Waterloo', 14pp ms; 'Expository lect.
on Geom. & Homol', 11pp ms; 'General Notes'.
- C.449-C.452 'Notes, Chicago, Easter 69'.

Ms notes. 4 folders.
- C.453,C.454 'Bonn 1969'.

Ms notes. 2 folders.
- C.455-C.457 'AMS lecture Swinnerton-Dyer'.

Duplicated ms draft of 'Algebraic number theory by
H P F Swinnerton-Dyer', June 1969.
- C.455 Introduction; 'Part I - The Classical Theory'.
- C.456 'Part II - Valuations and their consequences';
'Part III - Abelian extensions of the rationals'.

Lectures

- C.457 'Part IV - Zeta functions and L-series'; 'Examples Sheet I'.
- C.458-C.466 'Seminars'.
- C.458 Pan American airline menus used on verso for Adams's ms calculations.
- C.459-C.464 Ms notes etc, latest reference March 1969. 6 folders.
- C.465,C.466 Ms notes on lectures by others 1968-69, not in Adams's hand. 2 folders.
- C.467,C.468 'Notes of lectures'.
2 folders. Latest reference 1969.
- C.469-C.473 'Seminars 1969/70'.
- C.469 'The j -homomorphism in bordism theory', 12pp duplicated ms not in Adams's hand.
- C.470-C.473 Ms notes. 4 folders.
- C.474,C.475 'Chicago, summer 1970'.
Ms notes. 2 folders.

Lectures

- C.476-C.479 'Seminars - Int'l Congress 1970'.
The material is re the Congres International des Mathematiciens, Nice, September 1970. Adams chaired a section on 'Topologie des varietes' and a seminar on algebraic topology.
- C.476 Correspondence re arrangements from E Michael and R H Bing 1968-69.
- C.477-C.479 Ms notes, some on verso of pages of Congress programme. 3 folders.
- C.480-C.486 'Seminars 1970/1971'.
C.480 'Some comultiplications' by M G Barratt 1970, 2pp duplicated ms; 'On Γ -structures' by Barratt, 5pp typescript; 'On a theorem of D.S.Kahn's' by Barratt and P J Eccles, 5pp typescript; untitled 10pp typescript (paginated 2-11, title page missing).
- C.481 'Chapter I The Magic Exact Sequence' and 'Chapter II The functors Γ^+ , Γ ' by Barratt, 8pp duplicated ms.
- C.482 Three sets of Adams's ms notes annotated 'From: Seminars '71'.
- C.483-C.486 Ms notes etc. 4 folders.

Lectures

C.487-C.498 'Chicago Course Summer '71.'

This course of lectures by Adams on 'Stable Homotopy and Generalised Homology' was published by Chicago University Press in 1974 (Bibliog. no.49). Adams's notes are divided into seventeen chapters. The last three chapters have addenda.

C.487 Chapters 1, 2

C.488 Chapter 3

C.489 Chapter 4

C.490 Chapters 5, 6

C.491 Chapters 7, 8

C.492 Chapter 9

C.493 Chapter 10

C.494 Chapters 11-13

C.495 Chapter 14

C.496 Chapter 15 + Addendum

C.497 Chapter 16 + Addendum

C.498 Chapter 17 + Addendum

Lectures

- C.499-C.501 'Atiyah-Singer seminar'.
Ms draft and notes etc., latest bibliographical reference
1971. 3 folders.
- C.502-C.510 'Seminars '71-'74'.
Ms notes etc. 9 folders.
- C.511 'Talks at Oxford, June '72'.

'Programme for the Topology Symposium' (Adams is listed
as a speaker); ms notes annotated 'Out of Talks at Oxford,
June '62'.
- C.512-C.516 'ICM 1974'.

Ms notes; photocopied ms notes (not in Adams's hand),
some dated July and August 1974. 5 folders.
- C.517 'JHCW lecture'.

Adams was invited to give the London Mathematical Society's
first J H C Whitehead Lecture.

14pp ms draft of Whitehead Lecture with incomplete rough ms
draft of ?later lecture to the London Mathematical Society,
on verso of 1974 questionnaires.

Lectures

- C.518-C.529 'Seminars'.
- C.518-C.526 Ms notes, including those taken at 'Oxford Conference 1975' (C.521), and at London Mathematical Society (C.524).
9 folders.
- C.527,C.528 Programme of and ms notes on 'Mathematische Arbeitstagung', Bonn, June 1978. Adams spoke on 'Finite H-spaces and algebras over the Steenrod Algebra' (Bibliog. no.63).
- C.529 Ms notes, the first page annotated 'Cartan Do Starts Here', final page annotated 'Cartan Do Ends Here'.
- C.530,C.531 'Zurich Notes'.
- Programme of and ms notes on International Colloquium on Topology and Algebra, Zürich, 12-16 April 1977. Adams spoke on 'Maps between classifying spaces' or 'Finite H-spaces'.
2 folders.
- C.532-C.534 'Aarhus file'.
- C.532,C.533 Ms and duplicated ms notes on Algebraic Topology symposium, Aarhus, 7-12 August 1978. 2 folders.
- C.534 Ms poem in Adams's hand beginning 'My tale of Chicago begins with MacLane. His papers with Sammy showed a vigorous brain'. Written on verso of pages of Aarhus programme.
- C.535,C.536 'Helsinki file 1978'.
- Ms notes. 2 folders.

Lectures

- C.537-C.539 'Seminars '78-'.
Ms and duplicated ms notes. 3 folders.
- C.540, C.541 'Arcata talks'.
Ms notes, latest bibliographical reference 1978.
2 folders.
- C.542-C.545 'Talks'.
C.542, C.543 Programme of and ms notes on 'Mathematische
Arbeitstagung', Bonn, 6-12 June 1979. Adams spoke
on 'G. Segal's Burnside ring conjecture' (Bibliog.
no. 65). 2 folders.
- C.544, C.545 Ms notes. 2 folders.
- C.546-C.565 'Seminars 1979 - '
C.546-C.551 Ms notes, latest bibliographical reference 1980.
6 folders.
- C.552 Conference handbook for 'Mathematische Arbeitstagung',
Bonn, 12 - 18 June 1981. Adams did not deliver a lecture.
- C.553 Programme for 4th Topology Symposium, Edinburgh, 30 June -
2 July 1981.
- C.554 Ms notes on 4th Topology Symposium.

Lectures

- C.555 List of student participants at 'Topology Gathering [Cambridge] 1981'; 'genealogia topologica' (a 'family tree' of eminent topologists).
- C.556-C.560 Ms notes, latest bibliographical reference 1981. 5 folders.
- C.561 Programme for Northwestern [University] Conference on Homotopy Theory, 22-26 March 1982; duplicated ms notes on lectures (not in Adams's hand).
- C.562-C.565 Ms notes, some (not in Adams's hand) dated 16 March 1982. 4 folders.
- C.566-C.569 'Notes from Durham'.
Ms notes, latest reference 1982. 4 folders.
- C.570-C.573 'Seminar Notes'.
Ms notes, latest bibliographical reference 1982. 4 folders.
- C.574-C.576 'Moore'.
Programme of and ms notes on Algebraic Topology and K-theory Conference in honour of John Moore's 60th birthday c 1983. 3 folders.

Lectures

C.577-C.579 'Bonn, NOTES'.

Programme of and ms notes on 'Mathematische Arbeitstagung',
Bonn, 15-22 June 1984. 3 folders.

C.580,C.581 'SEMINARS MINNEAPOLIS'

Programme of and ms notes on conference, Institute for
Mathematics and its Applications, University of Minnesota,
23-27 July 1984. Adams spoke on 'G-homology theories'.
2 folders.

C.582 'Oxford Talk'.

Rough ms draft of Adams's lecture on the recent work of
M J Hopkins and colleagues, latest bibliographical
reference 1984.

C.583-C.601 'Seminars 1985'.

C.583,C.584 Programme of and ms notes on Northwestern University
Conference on Group Cohomology and its Applications,
18-22 March 1985. Adams spoke on 'Maybe elementary
abelian p-groups are just as good as tori?'.
2 folders.

C.585

Programme of and ms notes on West Coast Topology
Symposium Stanford University, 25-26 March 1985.
Adams spoke on 'The Adams spectral sequence in equivariant
groups'.

Lectures

- C.586 Programme of and ms notes on conference on algebraic topology, Palaiseau, France, 13 - 15 June 1985.
- C.587,C.588 Ms notes annotated on first page 'Start Newfoundland' and on last page 'End Newfoundland'. 2 folders.
- C.589 Adams's ms notes for 'My Newfoundland talk'. The notes are on a sheet of cardboard from the back of a notepad.
- C.590,C.591 Ms notes annotated on first page 'Start Warsaw' and on last page 'End of Warsaw'. 2 folders.
- C.592-C.601 Ms and duplicated ms notes. 10 folders.
- C.602 'April 1st Seminar'.

Ms draft of ?spoof press release 'New N.S.F. grants', dated 1 April 1985; untitled draft of Adams's lecture.
- C.603-C.605 'Notes of Barcelona 1986'.

Programme of and ms notes on '1986 BCAT', Institut d'Estudis Catalans, Barcelona, 2 - 8 April. Adams spoke on 'New proofs of two theorems of Jean Lannes'. 3 folders.
- C.606,C.607 'Bonn 1986'.
- C.606 Conference handbook of 26th Mathematische Arbeitstagung, Bonn, 13 - 20 June.

Lectures

- C.607 Ms and duplicated ms notes.
- C.608,C.609 'New Seminars'.

Ms notes, including notes on 'Simon Donaldson at LMS,
21 Feb '86, 17.00-18.00 Homology and Moduli Spaces'.
2 folders.
- C.610-C.612 'Congress Talks'.

Ms notes, latest bibliographical reference 1986.
3 folders.
- C.613-C.621 'Seminars 1986 -'.

C.613 Photocopied ms notes, not in Adams's hand, October and
November 1986; photocopied ms notes of Talks on 'Group
characters and complex-oriented theories' by Nick K[?]
delivered at Warwick 17 January 1987; and on 'Brownian
motion and the Riemann ζ function' by D.Williams
delivered at Number Theory Seminar, Cambridge, 10 May
1988; etc.
- C.614-C.616 Programme of and ms notes on International Conference on
Homotopy Theory and Related Topics, Kinosaki, Japan,
19 - 24 August ?1988. Adams gave a 'Survey on homotopy
theory and Toda's works'. 3 folders.
- C.617-C.621 Ms notes. 5 folders.

Lectures

- C.622-C.625 'D Williams Seminar'.
Ms, photocopied ms and typescript material re Williams's proposed 'seminar/workshop called Connections on differential geometry and its relation to probability and other subjects', 1988. 4 folders.
- C.626-C.633 'Seminars Given'.
Miscellaneous ms drafts of lectures found in Adams's folder so inscribed. Mostly undated, retained in original order.
- C.626 'Topology of H-spaces', Cambridge 1959, 7pp; 'Talk on Fibre-Bundles for the Quintics', 7pp; 'On Loop Spaces', 11pp; 'Seminar for Manchester' on the analogy between topological spaces and chain complexes, 8pp.
- C.627 'Oxford Seminar' on cohomology operations of higher kinds, 6pp; 'Report on C.T.C.Wall's work on the Cobordism Algebra Ω ', 6pp (see Bibliog. no.13; 'No more division algebras?', 10pp; plan of 'Seminar for Bonn. Heidelberg. Strasbourg', 1p.
- C.628 'Hatfield Seminar' on applying topological methods to analysis, 11pp; 'Cohomology operations', 11pp; 'Fundamental notions of manifolds', 9pp.
- C.629 Comments on lectures at 'Bonn' [?Mathematische Arbeitstagung], 9pp; 'Mahowald's Result on the J-homomorphism', 7pp; 'E.H.Brown's work on Cohomology Theories', 14pp.
- C.630 'Talk for Warwick', 10pp; 'Atiyah's work on the Künneth theorem for K_2^* ', 6pp; 'Talk to student teachers' on pure mathematics, 14pp.

Lectures

- C.631 'Seminar: K-theory of infinite complexes', 16pp;
'Seminar on Atiyah-Singer', 8pp; 'More about the
e-invariant', 13pp.
- C.632 'Cobordism', 14pp; 'Paris Talk (Draft 1)' on the
K-theory of Grothendieck-Atiyah-Hirzebruch (in French),
15pp; 'A new method in Algebraic Topology', 10pp.
- C.633 'Work of Bronder Peterson & Liulevicius, 21pp;
'Seminar' on some of the lectures at the Morse symposium
(1963, see C.391-C.393), 9pp; 'Kerraire on higher-
dimensional knots', 4pp.
- C.634 'Ideas for Seminars'.

Miscellaneous sets of ms notes on possible subjects
and speakers for symposia, various dates.

Undated.
- C.635-C.637 'Clifford Modules Ms'.
- C.635 Rough ms draft 'Clifford Modules, Part II'.
- C.636,C.637 Ms drafts of seminars on A.B.S. (Atiyah-Bott-Shapiro),
continuing the preceding. 2 folders.
- C.638 'Coates-type lecture'.

Rough ms draft.

Lectures

- C.639 'Course on Mike Hopkins'.
Two rough ms drafts on work of M G Hopkins (the second is in French).
- C.640 'Lectures to Swedish course'.
Rough ms drafts of lectures on 'Lie groups' and 'A-S [Atiyah-Singer] index theorem'.
- C.641,C.642 'Lectures to Training College lecturers'.
Rough ms drafts of three lectures. 2 folders.
- C.643 'Vector fields on spheres'.
Rough ms draft.
- C.644-C.646 'Weil Seminar'.
C.644 Rough ms draft of 'Seminar' on perverted naturality.
C.645 Rough ms drafts of Atiyah-Hirzebruch's Philosophy of Riemann-Roch-Type Theorems.
- C.646 Miscellaneous drafts and notes.

Lectures

'OTHER PEOPLE'S LECTURES'

Material found in two filing cabinet drawers so labelled.

The material is chiefly ms notes on lectures found in Adams's folders with the name of the lecturer and usually the subject of the lecture/s inscribed thereon. These inscriptions are reproduced in the catalogue entries and form the basis for the arrangement of the material in an alphabetical sequence by lecturer. Contents of bulky folders have been subdivided for ease of reference. A little miscellaneous material is presented at the end of the sequence.

The bulk of the material is undated but a few of the sets of notes were taken by Adams as an undergraduate in 1949. It is probable much of the rest dates from the early 1950s.

C.647,C.648 'Atiyah. Algebraic F [unctio]ns & Riemann Surfaces'.

2 folders.

C.649 'Atiyah-Zeeman Seminar on stacks'.

Duplicated typescript text with Adams's ms annotation.

C.650 'Prof. Besicovitch. Non-Absolute Integration.'

Lectures

- C.651 'Besicovitch Point Sets'.
- C.652 'Besicovitch Research Problems'.
- C.653 'Bryan Birch Zeta f[unctio]ns'.
Photocopied ms notes (not in Adams's hand).
- C.654 'Burkill Real-Variable'.
- C.655 'Series & Complex V[aria]ble. Burkill'.
- C.656,C.657 'Burkill - Transfinite Nos.'
2 folders.
- C.658 'Miss Cartwright. Complex V[aria]ble'.
- C.659,C.660 'Cassels & Smithies Linear Spaces'.
- C.659 Notes on Cassels.

Lectures

- C.660 Notes on Smithies.
- C.661,C.662 'Miss Edmonds Fourier Series'.
2 folders.
- C.663,C.664 'Miss Grimshaw. Absolute Integration'.
2 folders.
- C.665-C.667 'P.Hall Abelian Groups'.
3 folders.
- C.668 'Mr Hall - Groups'.
- C.669 'P. Hall Topics In Group Theory'.
- C.670 'Hall Universal Algebra'.
- C.671 'Hilton Homotopy Theory'.

Lectures

- C.672 'Haselgrove Analytic Theory of Nos.'
- C.673 'Mr Ingham - Complex Variable'.
- C.674 'Ingham Divergent Series'.
- C.675 'Mr Ingham - Lebesgue Integration'.
- C.676,C.677 'Ingham Theory of Numbers'.
2 folders.
- C.678 'Little Seminar'.
- C.679 'Littlewood Theory of Functions'.
- C.680 'Littlewood's Research Problems'.
Duplicated ms problem sheets.
- C.681 'Mahowald Seminar'.

Lectures

- C.682,C.683 'Analysis I Dr Rankine'.
Notes taken from 10 October 1949. 2 folders.
- C.684 'Mr Rees Abstract Algebra'.
- C.685,C.686 'Smithies. Integral equations'
2 folders. Some notes are on verso of 'University of Natal
Maths IV, Astronomy Tutorial' papers dated 11 April 1949.
- C.687,C.688 'Linear algebra Dr Smithies'.
Notes taken from October 1949. 2 folders.
- C.689,C.690 'Steen Differential equations'.
2 folders.
- C.691 'Steen Distributions
- C.692-C.694 'Stein F[unctio]ns of Several Complex V[aria]bles'.
3 folders.

Lectures

- C.695 'Swinnerton-Dyer: The Riemann Hypothesis in Function Fields'.
Duplicated typescript text.
- C.696 'Taunt - Groups'.
- C.697-C.699 'Mr Ward Topology'.
3 folders.
- C.700 'Mr White. Diff[erentia]l Geom[etry]'.
- C.701 'JCHW [Whitehead] S-theory'.
- C.702 'Wylie Alge.Top. II'.
- C.703 'Wylie Combinatorial Topology'.
- C.704 'Geometry I Mr Wylie (& Todd)'.
Notes taken from 11 October 1949.

Lectures

Miscellaneous

- C.705 'Supervision, etc'.
Notes taken ?at tutorials from 12 October 1949.
- C.706 'Edsac'.
Notes on operation and programming of Edsac computer,
c. 1951.
- C.707 'Several complex variables Seminar'.
- C.708 Miscellaneous ms notes.

SECTION D

PUBLICATIONS

D.1 - D.15

Where applicable reference has been made to Adams's List of Publications (A.2) in the form Bibliog. no. ...

- D.1 'On the chain algebra of a loop space', with P J Hilton.
Bibliog. no.5 (1956).
44pp typescript.
- D.2,D.3 'The cobar construction'. Essay submitted for the Adams
Prize 31 December 1956.
53pp ms. 2 folders.
- D.4,D.5 'On the non-existence of elements of Hopf invariant one
mod p'. Bibliog. no.10 (1958).
D.4 21pp ms + references.
D.5 13pp typescript.
- D.6 'On the anticommutative law and the Jacobi identity for
stable Toda Brackets', with R M F Moss. Not published but
written c.1958-61.
8pp ms.
- D.7 'On the non-existence of elements of Hopf invariant one'.
Bibliog.no.14 (1960).
Letter from N E Steenrod, Editor of Annals of Mathematics
with suggestions for expanding Adams's draft.

Publications

- D.8-D.10 'Algebraic Topology, Homotopy Theory'.

In January 1967 Adams was invited to edit a reprint collection in a series for graduate students to be published by Worth Publishers, Inc. Adams accepted but the project was later abandoned.

Editorial correspondence 1967-68. 3 folders.
- D.11 'Lectures on Lie Groups'. Bibliog. no.38 (1969).

Letter from publishers, 22 November 1968.

'Algebraic Topology: a student's guide'. Bibliog. no.44 (1972).

Correspondence with publishers, July 1970.
- D.12 ' Λ -rings and Ψ -operations'. Nd.

4pp typescript.
- D.13 'Book'. Contents of Adams's folder so inscribed: ms notes outlining topics to be covered by projected book. Nd.
- D.14, D.15 'Offprints Dist. List'. Contents of Adams's folder so inscribed divided into two for ease of reference: lists of those receiving off-prints of Adams's publications.
- D.14 Index cards.
- D.15 Miscellaneous typescript and ms lists.

SECTION E

CORRESPONDENCE

E.1 - E.299

There are virtually no extended exchanges of correspondence, the great majority of the letters are incoming, with very few carbons of Adams's replies. The content is essentially mathematical; chiefly requests for Adams's advice or comments on specific problems, reflecting Adams's high standing in his field. Of special interest is the extensive correspondence from M F (later Sir Michael) Atiyah, M G Barratt, P J Hilton, I M James, A Liulevicius, S MacLane and C W Wilkerson.

Where applicable reference has been made to Adams's List of Publications (A.2) in the form Bibliog. no. ...

The material is arranged as follows:

- | | |
|--------------|---|
| E. 1 - E.272 | GENERAL SCIENTIFIC CORRESPONDENCE.
In alphabetical order. |
| E.273- E.299 | SHORTER SCIENTIFIC CORRESPONDENCE. In
chronological order. |

Correspondence

E.15-E.20	Barratt, M G	1960-76, nd
E.15	1960.	
E.16	1961-62. Chiefly <u>re</u> periodicity tables.	
E.17	1961, 1964.	
E.18	1963-64.	
E.19	1967-76, nd.	
E.20	1967,1970.	
E.21	Bass, H	1972,1983
	Visit to Cambridge 1972; invitation to visit Columbia University 1983.	
E.22	Berrick, A J	1980-87
	Chiefly <u>re</u> appointments.	
E.23	Boardman, J M	various dates 1964-76
	Includes 3pp ms notes on spectral sequence, 1964.	
E.24	Bott, R	1959-62,1968,1969
E.25	Browder, W	various dates 1967-79, nd
	Includes correspondence <u>re</u> refereeing for <u>Annals of Mathematics</u> .	
E.26,E.27	Brown, E H	various dates 1965-83
E.26	1965-76. Includes 5pp photocopied ms note on 'Properties of B(K)', 1976.	
E.27	1980-83.	

Correspondence

- | | | |
|-----------|---|-----------------------|
| E.43 | Clarke, F W | 1974-77 |
| | Includes correspondence <u>re</u> joint paper with Clarke 'Stable operations on complex K-theory' (<u>Bibliog.</u> no.59). | |
| E.44 | Cockcroft, W H | various dates 1962-70 |
| E.45 | Cohen, F R | various dates 1975-87 |
| E.46 | Cohen, J M | 1968,1972,1983 |
| E.47 | Cohen, R L | 1979-88 |
| | 1981-82 correspondence <u>re</u> 'the Immersion conjecture'. | |
| E.48 | Cohn, P M | 1966,1976,1979-82 |
| E.49 | Davis, D M | 1972-82 |
| E.50 | Deleanu, A | 1971-74,1980,1983 |
| | 1973 correspondence chiefly <u>re</u> 'the existence of the Adams completion'. | |
| E.51 | Delzell, C N | 1981-82 |
| | Drafts sent to Adams for comment. | |
| E.52-E.58 | Dibag, I | 1974-87 |
| E.52 | 1974. | |
| E.53 | 1975 Feb, May. | |
| E.54 | 1975 Nov, Dec. | |

Correspondence

E.55	1976 Feb.	33pp letter on 'the number-theoretical problem'.	
E.56	1976-79.		
E.57	1980.		
E.58	1981-87.		
E.59,E.60	Dold, A		1959-85
E.59	1959-65.	Chiefly <u>re</u> visits.	
E.60	1968-85.		
E.61	Dyer, E		1958-68,1975
		Later correspondence chiefly <u>re</u> visits.	
E.62	Eckmann, B		various dates 1956-78
E.63-E.65	Epstein, D B A		1960-81,1984
E.63	1960-66.		
E.64	1968-81, 1984.		
E.65	1980.		
E.66	Feshbach, M		1980-87
		Chiefly <u>re</u> papers sent to Adams for comment, visits.	

Correspondence

E.67-E.70	Friedlander, E M	1974-85
E.67	1974.	
E.68	1975.	
E.69	1976-78. Chiefly <u>re</u> Friedlander's work on the 'stable Adams's conjecture', visits.	
E.70	1980-86.	
E.71	Fröhlich, A	1969,1980,1984
E.72	Gandy, R O	1976,1978
E.73	Gray, B	1966-83, nd
E.74,E.75	Greenlees, J P C	1986-88
E.74	1986. Includes 8pp ms draft on 'a fully equiv-ariant version of Lin's theorem' by Greenlees sent to Adams for comment.	
E.75	1987,1988. Correspondence 1987 chiefly <u>re</u> b _* UCTs.	
E.76	Gugenheim, V K A M	various dates 1960-76, nd
E.77	Hazewinkel, M	1974-75
E.78	Heller, A	1969-74
E.79	Henn, H-W	1980-83,1986

Correspondence

- E.80-E.85 Hilton, P J 1955-84, nd
- E.80 1955-63. Includes 'Proposal for collaboration between members of the Department of Mathematics of Cornell University and European Mathematicians', 1963.
- E.81 1964,1967-71.
- E.82 1970.
- E.83 1972-76.
- E.84 1977-84. Includes correspondence re participation at International Congress of Mathematics, Warsaw, ?1982.
- E.85 1984. Includes 15pp typescript draft obituary of M H A Newman, Adams's predecessor as Fielden Professor of Mathematics at Manchester University.
- E.86 Hirsch, G C 1958,1964
- Includes 11pp ms draft beginning 'Consider a fibre space E , base B , the fibre F being a $K(M,n)$ ' by Hirsch sent to Adams for comment, 1958.
- E.87,E.88 Hirzebruch, F 1959-75,1984
- E.87 1959-69. Chiefly re conferences.
- E.88 1971-75, 1984.
- E.89,E.90 Hoffman, P N 1966-77,1982
- E.89 1966-73. Correspondence 1966-67 chiefly re Hoffman's PhD thesis.
- E.90 1974-77,1982. Chiefly re sabbatical year in UK, 1975-76.

Correspondence

- E.91-E.93 Hubbuck, J R 1966-78,1982-88,nd.
- E.91 1966-70. Includes 10pp typescript draft 'The type of an associative H-space' by Hubbuck sent to Adams for comment.
- E.92 1972-78.
- E.93 1982-88, nd.
-
- E.94 Hunton, J R 1986-88
- Hunton was a PhD student of Adams.
-
- E.95,E.96 Husemoller, D 1964-71,1979
- E.95 1964-68. Chiefly re visits.
- E.96 1969-71, 1979. Chiefly re visits.
-
- E.97,E.98 Jackowski, S 1983-87
- The correspondence chiefly relates to work towards two 1988 joint publications by Adams, Jackowski, J-P Haeberly and J P May 'A generalisation of the Segal conjecture' (Bibliog.no.78) and 'A generalisation of the Atiyah-Segal completion theorem' (Bibliog.no.79).
- E.97 1983-84.
- E.98 1984-87.
-
- E.99-E.104 James, I M 1956-86
- E.99 1956-60.

Correspondence

- E.100 1961-66. Visits, papers for Topology, examining etc.
- E.101 1967,1968. Correspondence chiefly re tape-recorded lectures by Adams. Also includes 7pp typescript draft 'On sphere-bundles' by James sent to Adams for comment.
- E.102 1969-75. Chiefly re visits, participation at conferences.
- E.103 1976-79.
- E.104 1980-86.
- E.105 Kaplansky, I 1973-75,1979
Correspondence 1973-74 re publication of Stable homotopy and generalised homology by Chicago University Press (Bibliog.no.49); 1975 Newsletters on GLA's (graded Lie algebras) by Kaplansky; 1979 poem in honour of S MacLane.
- E.106 Karoubi, M various dates 1966-75
Correspondence 1974-75 re Karoubi's draft book on K-theory.
- E.107 Kassir, R G 1976-79
- E.108,E.109 Kelly, G M various dates 1962-88
- E.108 1962-64. Includes correspondence re homology of function spaces.
- E.109 1971-88.

Correspondence

- E.110,E.111 Kendall, D G 1982,1984,1988
Chiefly correspondence and notes re Kendall's work on 'the homology etc of shape-spaces for use in statistics and probability'.
- E.110 1982.
- E.111 1984,1988
- E.112 Kervaire, M A various dates 1958-67
- E.113,E.114 Kochman, S O 1975-81
- E.113 1975-77.
- E.114 1979-81.
- E.115-E.117 Kono, A 1985-86
Kono worked on exceptional Lie groups in Cambridge April-June 1986.
- E.115 Correspondence re arrangements to work in Cambridge, etc 1985-86.
- E.116,E.117 Miscellaneous notes and calculations by Kono and Adams. 2 folders.
- E.118,E.119 Kreisel, G various dates 1976-85
- E.118 1976-78.
- E.119 1981, 1982, 1985.

Correspondence

- E.120-E.122 Kuhn, N J 1981,1985-88
- E.120 1981. Correspondence re Kuhn's work on 'a conjecture of G W Whitehead' and visit to Cambridge.
- E.121 1985. Includes 10pp photocopied ms draft on 'Morava K-theories of some classifying spaces' by Kuhn.
- E.122 1986-88. Includes correspondence re joint work (published as 'Atomic spaces and spectra', Bibliog. no.80).
- E.123 Lam, K Y various dates 1970-84
- E.124-E.126 Landweber, P various dates 1967-86
- E.124 1967,1970-73. Includes Landweber's May 1973 comments on Adams's 1971 Chicago Lecture Notes and correspondence re visit to Cambridge.
- E.125 1974. Re visit to Cambridge
- E.126 1984,1986. Includes 19pp photocopied ms seminar talk 'Dickson Invariants and Prime Ideas Invariant under Steenrod Operations' by Landweber, March 1984.
- E.127 Lang, S 1969-74
- E.128 Lannes, J 1984-86
- Includes 8pp photocopied ms draft 'Cohomology of groups and functions spaces' by Lannes, 1986.

Correspondence

- E.138-E.147 Liulevicius, A 1960-88
- E.138 1960-65. Correspondence 1960 re work on Browder's Theorem.
- E.139 1966-67. Correspondence 9-30 November 1967 covered Liulevicius's 'daily instalments of the translation of Novikov' sent to Adams.
- E.140 1968-69. Letter of 25 May 1969 encloses 11pp typescript 'write-up on the Novikov algebra' by Liulevicius sent to Adams for comment.
- E.141 1970-71. Correspondence 1970 re visit to Chicago and subsequent preparation of texts of Adams's lectures for circulation.
- E.142 1972-73.
- E.143 1974-75.
- E.144 1976. Includes 11pp photocopied ms notes on a conjecture on G-homotopy types of linear actions on CP^n sent to Adams for comment 11 February, and 7pp photocopied ms 'UC University of Chicago Topology Seminar. Representation rings of S_n - a Hopf algebra approach'. 20 October.
- E.145 1977-79.
- E.146 1980-83.
- E.147 1986, 1988.

Correspondence

- E.160 Margolis, H R 1968-73
Chiefly re joint paper 'Modules over the Steenrod algebra' (Bibliog. no.42).
- E.161 Mather, M 1968,1972,1975
- E.162 Mathias, A 1979,1988
- E.163 Maunder, C R F 1962-67,1981
- E.164,E.165 May, J P 1984-86
Material re joint papers with Adams, J-P Haerberley and S Jackowski (Bibliog. nos 78 and 79). 2 folders.
- E.166-E.172 Miller, H R 1980-86
Chiefly re work on the Segal conjecture etc.
- E.166 1980, 1981 Jan-Apr.
- E.167 1981 Aug, Oct. Includes 19pp photocopied ms draft beginning 'Our object in this section is the construction of another Tor-equivalence', sent to Adams for comment.
- E.168 1982 Jan-June. Includes ms 'memoranda' and 'essays' sent to Adams for comment.
- E.169 1982 July.
- E.170 1982 Sept, Dec. Includes 11pp photocopied ms draft beginning 'The first of my assignments is to produce a description of the "Singer Construction" $T(M)$ '.

Correspondence

E.171	1983.	
E.172	1984-86.	
E.173	Milnor, J W	various dates 1957-77
E.174	Mimura, M	1966,1973-76
E.175	Mislin, G	1973-74
	Visit; construction of 'exotic maps BG-BG'.	
E.176,E.177	Morava, J J	1979,1986-87,nd.
E.176	1979, 1986-87.	
E.177	Nd.	
E.178	Moss, R M F	various dates 1964-75, nd.
	Correspondence 1964-66 <u>re</u> Moss's PhD thesis.	
E.179-E.181	Neisendorfer, J A	1979-80,1986, nd
E.179	1979-80, 1986.	
E.180,E.181	Nd. 2 folders.	
E.182	Novikov, S P	1968-69
	Correspondence in Russian (three letters have ms translations into English).	

Correspondence

- E.194-E.196 Ravenel, D C 1973-83
- E.194 1973-77.
- E.195 1979. Re visit to Cambridge.
- E.196 1980-83.
- E.197 Ray, N various dates 1972-88, nd
Ray was a PhD student of Adams at Manchester University.
- E.198 Rector, D 1976,1981-82
Chiefly correspondence 1981 re abelian subgroups and tori.
- E.199 Rees, E 1974,1980-83
- E.200 Rose, W 1985-88
- E.201 Rourke, C P 1971-72,1977
Chiefly correspondence 1977 re Adams's criticisms of 'Lecture Notes' by Rourke and B J Sanderson.
See also E.203.
- E.202 Samelson, H 1961,1966,1978
Correspondence 1961 chiefly re visit to Stanford University.
- E.203 Sanderson, B J various dates 1972-77, nd

Correspondence

E.204-E.206	Segal, G	1969-84, nd
E.204	1969-73.	
E.205	1975-78.	
E.206	1980-84, nd. Includes exchange November 1981 <u>re</u> conjectures in stable homotopy theory.	
E.207	Serre, J	various dates 1958-87
E.208	Shaw, R	1986-88
E.209	Shih, W	1964-67, 1981
E.210	Siebenmann, L	various dates 1971-85
E.211, E.212	Singer, W M	1980-86
E.211	1980. Includes correspondence <u>re</u> possible joint paper.	
E.212	1981-86.	
E.213-E.216	Smith, L	1968-85
E.213	1968.	
E.214	1969.	
E.215	1970-71.	
E.216	1973-85.	

Correspondence

E.228	Stong, R E	various dates 1967-88
E.229	Sutherland, W A	various dates 1962-80, nd
E.230	Tangora, M C	1969,1974,1976 Chiefly <u>re</u> visit to Manchester 1969-70.
E.231-E.234	Thomas, C B	1969-71,1974-85
E.231		1969-71.
E.232		1974-76.
E.233		1977-79.
E.234		1980-85.
E.235	Thomas, P E	1962,1967,1975
E.236	Tits, J	1973,1985 Correspondence 1973 <u>re</u> lie groups
E.237	Toda, H	1961,1968-70, nd
E.238,E.239	tom Dieck, T	various dates 1967-86
E.238		1967-86. Includes 9pp ms 'results on power operations in cobordism theories' sent to Adams May 1967.
E.239		1981.

Correspondence

- E.240 Wall, C T C 1961-70,1985, nd
Chiefly re examining and visits.
- E.241 Whitehead, G W various dates 1957-79
- E.242 Whitehead, J H C 1956-59
Chiefly correspondence 1956 re homotopy types.
- E.243-E.251 Wilkerson, C W 1974-88, nd
- E.243 1974-76.
- E.244 1977. Re joint paper 'Finite H-spaces and algebras
over the Steenrod algebra' (Bibliog. no.63)
- E.245 1978 Feb-Aug. Re joint paper.
- E.246 1978 Sept-Dec. Re joint paper.
- E.247 1979 Jan-Mar. Re joint paper.
- E.248 1979 May-Nov. Re joint paper.
- E.249 1980. Re correction to joint paper.
- E.250 1981-84.
- E.251 1986-88, nd.
- E.252 Wilson, W S 1975-79
- E.253-E.261 Wojtkowiak, Z 1979-88
- E.253 1979-81. Chiefly re visit to Cambridge.

Correspondence

- E.254 1982-85. Includes report on work since visit to Cambridge 1982.
- E.255 1986 May, Sept. Includes 14pp photocopied ms draft 'On the mapping space map (BG,BH)...' sent to Adams for comment.
- E.256 1986 Dec. 28pp photocopied ms draft 'A remark on maps between classifying spaces of compact Lie groups' sent to Adams for comment.
- E.257 1987, 1988 Jan-Apr.
- E.258 1988 May, June. Re work towards joint paper 'Maps between p-completed classifying spaces' (Bibliog. no.81).
- E.259 1988 July-Sept. Re joint paper.
- E.260 1988 Oct. Re joint paper.
- E.261 1988 Dec. Includes draft paper by Wojtkowiak.
- E.262 Wood, R M W various dates 1984-88,nd
Chiefly re work on the Peterson conjecture.
- E.263 Yagita, N various dates 1980-86
- E.264-E.269 Zachariou, A 1966-77,1980
- E.264 1966-67. Chiefly re work on generalised Cartan formula.
- E.265 1968. Chiefly re Zachariou's PhD thesis.
- E.266 1969-70.

Correspondence

E.267	1971.	Chiefly <u>re</u> projects on cohomology.	
E.268	1972.		
E.269	1974-77, 1980.		
E.270	Zahler, R S		1969-74
E.271,E.272	Zeeman, E C		various dates 1958-88
E.271	1958-75.		
E.272	1981-88.		

Correspondence

SHORTER SCIENTIFIC CORRESPONDENCE

E.273	1954-59	E.287	1979-80
E.274	1960-62	E.288	1981
E.275	1963	E.289	1982
E.276	1964-66	E.290	1982 July
E.277	1967-68	E.291	1982-83
E.278	1969-70	E.292	1983
E.279	1969-75	E.293	1984
E.280	1971-72	E.294	1985
E.281	1973-74	E.295	1986
E.282	1975	E.296	1986-88
E.283	1976	E.297	1987-88, nd
E.284	1976-79	E.298	Nd (1)
E.285	1977	E.299	Nd (2)
E.286	1978		

INDEX OF CORRESPONDENTS

ADAMS (née RHODA), Grace	B.75
ADEM, Alejandro	E.295
ADEM, Jose	E.1
AGUADÉ, J	E.287,E.294,E.295
ALBERT, A A	A.9
ALEXANDER, James C	E.278
ANDERSON, Donald Werner	B.59,B.61,B.63,E.2,E.3
<u>ANNALS OF MATHEMATICS</u>	E.36,E.37,E.292
ARNOLD, Vladimir Igorevich	E.282,E.283,E.298
ARTHAN, Robert D	E.289
ASSOCIATION DES COLLABORATEURS DE NICOLAS BOURBAKI	E.293,E.294
ATIYAH, Sir Michael (Francis)	D.9,E.4-E.12
AUBRY, Marc	E.13
BAAS, Nils Andreas	E.14 See also E.33
BABBAGE, Dennis William	C.90
BAHN, Tony	A.11
BAKER, Andrew	E.295,E.297
BAKER, Lawrence J	E.286
BANCHOFF, Thomas F	E.287
BANULESCU, Martha	E.289,E.290

Index of correspondents

BARRATT, Michael George	B.9,B.113,E.15-E.20
BASS, Hyman	E.21
BAUES, Hans Joachim	E.289
BAUM, Paul Frank	E.275,E.277
BEAUVILLE, Arnaud	E.293
BECKER, James C	E.281
BERGMAN, George M	E.281
BERRICK, Alan Jonathan	E.22
BERSTEIN, Israel	E.276
BEST, Geoffrey	A.11
BING, R H	C.476
BIRCH, Bryan John	E.275,E.298
BOARDMAN, J Michael	B.62,E.23
BÖDIGHEIMER, Carl-Friedrich	E.287
BOMBIERI, Enrico	E.281
BOREL, Armand	D.10,E.273,E.274,E.277
BOTT, Raoul	E.24
BOUSFIELD, A K ('Peter')	A.11
BROUGHTON, J	E.279
BROWDER, William	E.25
BROWN, Edgar Henry, Jr	E.26,E.27
BROWN, Ronald	E.28-E.32

Index of correspondents

BRUMFIEL, Gregory	E.298
BUCHSBAUM, David	E.275
BULLETT, Shaun	E.288
BUNDGAARD, Svend	E.33
BURGHELEA, Dan	E.34,E.103
CAMBRIDGE PHILOSOPHICAL SOCIETY	E.281
CAMBRIDGE UNIVERSITY PRESS	D.11
CARLSSON, Gunnar	E.35-E.38
CARTAN, Henri Paul	E.39
CARUSO, Jeffrey L	E.40
CASSELS, John William Scott	E.282
CASTELLET, Manuel	E.286,E.287
CATHCART, Alan G	E.41
CHAN, Ping Hung	E.288
CHANG Su-Cheng	E.287,E.289,E.293
CHERN, Shiing-Shen	E.42,E.286
CHESS, Daniel	E.298
CHURCHILL & BENJAMIN LIMITED	D.11
CLARKE, Francis W	E.43
CLEGG, Arthur B	A.11
COATES, John Henry	E.296,E.298
COCKCROFT, Wilfred Halliday	E.44

Index of correspondents

COHEN, Arjeh M	E.295
COHEN, Frederick R	E.45
COHEN, Joel M	E.46
COHEN, Ralph L	E.47
COHN, Paul Moritz	E.48
COMENETZ, Michael	E.280
CONNER, Pierre E, Jr	E.280
COOKE, George E	E.277
COXETER, Harold Scott Macdonald	E.293
CRABB, Michael C	E.297
CROFT, Hallard Thomas	E.298
CURTIS, Edward B	E.277
CURTIS, Morton	E.273
DAVIS, Chandler	E.276
DAVIS, Donald Miller	A.12,E.49
DELEANU, Aristide	E.50
DELZELL, Charles N	E.51
de PRIETO, Mónica Clapp	E.287
DIBAG, Ibrahim	E.52-E.58
<u>DICTIONARY OF NATIONAL BIOGRAPHY</u>	A.10
DOLD, Albrecht	A.9,D.8,D.9,E.59,E.60

Index of correspondents

DONKIN, S	E.298
DROR, Emmanuel	E.287,E.288
DUNWOODY, Martin	E.298
DYER, Eldon	E.61
ECKMANN, Beno	E.62,E.279,E.289
EDWARDS, David A	E.282
EDWARDS, Robert D	E.284
EELLS, James	E.282
EINSTEIN-MATTHEWS, Stanley M	E.281,E.282
EISENBUD, David	E.298
ELMENDORF, Antony D	E.283,E.286
EPSTEIN, David B A	E.63-E.65
EVENS, Leonard	E.275
FESHBACH, Mark	E.66
FIEDORWICZ, Zbigniew	E.281,E.288
FLOYD, Edwin Earl	E.275,E.298
FRANCIS, Nigel L	E.281
FREYD, Peter	E.278
FRIEDLANDER, Eric M	A.9,E.67-E.70

Index of correspondents

FRÖHLICH, Albrecht	E.71,E.284
FUJII, Michikazu	E.288
GAETA, Giuseppe	E.298
GANDY, Robert Oliver	E.72
GANEA, Tudor	E.277
GARLING, David John Haldane	A.10
GIFFEN, Charles H	E.278,E.282,E.283
GITLER, Samuel	E.275,E.276,E.278
GLEASON, Andrew Mattei	E.294
GOLDBERG, Samuel I	E.286
GOLUBIATNIKOV, V	E.286
GOOD, Irving John ('Jack')	E.293
GOSSLING, William F	E.281,E.283
GOTTLIEB, Daniel Henry	E.292
GRAY, Brayton	E.73
GREENLEES, John P C	A.12,E.74,E.75
GRIFFITHS, Hubert Brian	E.275,E.298
GUGENHEIM, Victor K A M	A.12,E.76
GUTIERREZ, Mauricio A	E.298

Index of correspondents

HAEBERLY, J-P	E.164,E.165
HAEFLIGER, A	E.277,E.278
HALL, Philip	E.276,E.277,E.279
HALMOS, Paul R	E.286,E.287,E.292
HALPERIN, Steve	E.285
HANSEN, Idar	E.285
HARRIS, Bruno	E.277,E.298
HARRIS, John C	E.294
HASTINGS, Harold M	E.280,E.281
HATTORI, Akio	E.281,E.282
HAZEWINKEL, Michiel	E.77
HELD, René P	E.282
HELLER, Alex	E.78
HENN, Hans-Werner	E.79
HIKIDA, Mizuko	E.297
HILDITCH, A Stephen	E.293
HILTON, Peter John	E.80-E.85
HIRSCH, Guy C	E.86
HIRSCH, Morris William	E.293
HIRZEBRUCH, Friedrich	A.10,D.9,E.87,E.88 E.284

Index of correspondents

HOCHSCHILD, Gerhard Paul	E.282
HOCHSTER, M	E.286
HODGE, Sir William (Vallance Douglas)	E.275,E.279
HODGKIN, Luke	E.276,E.278,E.285,E.298
HODGSON, Jonathan Peter Edward	E.276
HOFFMAN, Peter Norman	E.89,E.90
HOGGAR, Stuart	E.288
HOLMES, Barbara	E.298
HOOLEY, Christopher	B.109
HOPF, Heinz	See E.296
HSIANG, Wu-chung	E.289,E.293,E.295
HU, Sze-Tsen	E.273
HUBBUCK, John R	E.91-E.93
HUEBSCHMANN, Johannes	E.286,E.291,E.292
HUGHES, Anthony C	E.276
HUNTON, John Robert	E.94
HUSEMOLLER, Dale H	E.95,E.96
HUXLEY, Sir Andrew (Fielding)	E.296
ISBELL, John	E.279
ISHIGURO, Kenshi	E.287

Index of correspondents

JACKOWSKI, Stefan	E.97,E.98
JAMES, Gordon D	E.282
JAMES, Ioan Mackenzie	A.3,A.11-A.19,E.27, E.99-E.104
JANKOWSKI, A	E.281
JARDINE, R	E.297
JEFFREYS, Sir Harold	E.273
JOHN, Fritz	A.9
JOHNSON, David Copeland	E.286,E.288,E.295
JOHNSON, Francis E A	E.283
JOHNSTONE, Peter Tennant	A.13,E.291
JONES, John D S	E.287,E.299
JONES, Leslie P	E.299
KAHN, Daniel Stephen	C.288,E.278,E.280,E.281
KAHN, Donald W	E.277
KAPLANSKY, Irving	E.105
KANE, Richard Michael	E.286,E.292
KAROUBI, Max	E.106
KASSAR, Raymond G	E.107
KEGEL, Otto H	E.281
KELLY, Gregory Maxwell	E.108,E.109

Index of correspondents

KENDALL, David George	A.13,E.110,E.111
KERVAIRE, Michel A	E.112
KEUNE, Frans J	E.280
KINGMAN, Sir John (Frank Charles)	E.287
KIRBY, Robion C	E.278,E.284
KNESER, Martin	E.292
KOCHMAN, Stanley Oscar	E.113,E.114
KONO, Akiri	E.115-E.117
KOSINSKI, A	A.9
KOSNIOWSKI, Czes	E.291
KOSTANT, Bertram	E.282
KOZMA, Ilan	E.299
KREISEL, Georg	E.118,E.119
KRISTENSEN, Leif	E.274,E.276,E.277,E.280
KROPHOLLER, Peter H	B.20,E.292,E.294,E.295, E.297
KUHN, Nicholas J	E.120-E.122
KUIPER, Nicolaas H	E.280,E.282
LADA, Thomas J	E.282
LAITINEN, Erbbi	E.287
LAM, Kee Y	E.123

Index of correspondents

LAM, Tsit-Yuen	E.288
LANDWEBER, Peter	E.124-E.126
LANG, Serge	E.127
LANNES, Jean	E.128
LASHOF, Richard K	E.274
LAWSON, D	E.294
LAX, Peter David	E.129
LEDGARD, R C	E.278
LEE, Chung Nim	E.278
LEHMANN, Daniel	E.286
LEMAIRE, Jean-Michel	E.288
LERUSTE, Christian	E.278
LESLIE, Joshua A	E.130
LEWIS, L Gaunce, Jr	E.131
LEYTEM, Charles	E.132,E.133
LICKORISH, W B R	E.102
LIN, T Y	E.281,E.299
LIN, Wen-Hsiung	E.134-E.137
LIULEVICIUS, Arunas	C.208,E.138-E.147
LOMONACO, S	E.285
LONDON MATHEMATICAL SOCIETY	E.278,E.287

Index of correspondents

LUCKWITH, Raymond	C.153,C.160
LUNDELL, Albert T	E.275,E.281
LUSZTIG, George	E.281,E.282
McCLEARY, John	E.148
MACDONALD, Ian Grant	E.277,E.287
McDUFF, Dusa	E.299
McGIBBON, Charles	E.285
MACLANE, Saunders	B.122-B.127,D.9,E.149- E.153
McLEOD, John	E.283
MADSEN, Ib	A.9,E.154
MAGAN, John W	E.282
MAHLER, Kurt	E.283
MAHMUD, Zafer	E.155-E.157
MAHONY, Louis M	E.299
MAHOWALD, Mark Edward	B.113,E.158,E.159
MAKINEN, Jukka	E.299
MARDEŠIĆ, Sibe	E.278,E.281
MARGOLIS, Harvey R	E.160
MASSEY, William S	E.273,E.276,E.278, E.288,E.299
MATHER, Michael	E.161

Index of correspondents

MATHIAS, Adrian	E.162
MAUNDER, Charles Richard Francis	C.274,E.163
MAY, J Peter	A.13,E.164,E.165,E.286
MAZUR, Barry	E.299
MEISTERS, Gary Hosler	E.293,E.297
MICHAEL, Ernest	C.476
MICHELSON, Marie Louise	E.285
MILGRAM, R James	E.288
MILLER, Haynes Robert	E.166-E.172
MILNOR, John Willard	E.173
MIMURA, Mamoru	E.100,E.174
MINAMI, Norihiko	E.292,E.293
MING, Ronald	E.282
MISLIN, Guido	E.175
MITCHELL, Stephen A	E.288,E.299
MITCHELL, W J R	E.287
MONTGOMERY, Deane	E.273,E.275-E.277
MOORE, John Coleman	B.143,B.144,E.273, E.281,E.286
MORAVA, Jack Johnson	E.176,E.177
MORIN, Bernard	E.274

Index of correspondents

MORRIS, Lawrence E	E.283
MOSS, Robert Michael Forester	A.14,E.178
MUDRINSKI, Vojislav	E.289
MÙI, Huỳnh	E.289,E.292
MUKAI, Juno	E.295
NAKAMURA, Tokushi	E.299
NANDA, Sribatsa	E.286
NEISENDORFER, Joseph A	E.179-E.181
NEUMANN, Bernhard Hermann	E.275,E.277
NEWMAN, Maxwell Herman Alexander	See E.85
NISHIDA, Goro	E.289,E.292,E.295
NOAKES, J Lyle	E.281,E.285
NOVIKOV, S P	E.182
NOWINSKI, Kryzstof S	E.292
ŌGUCHI, Kunio	E.183
OKA, Shichirô	E.287,E.289,E.292
OLUM, Paul	E.273,E.274
OSSA, Erich	E.289

Index of correspondents

PALERMO, F P	E.274
PALMQUIST, Paul H	E.283
PAPAKYRIAKOPOULOS, C D	E.274
PARKS, James M	E.285
PAVEL, Monique	E.283
PAZHITNOV, A V	E.297
PENGELLEY, David J	E.184
PETERSON, Franklin P	E.185
PETRIE, Ted	E.186,E.187
PHILIPSZ, Basil E	E.281
PHILLIPS, Ralph S	E.129
PICCAMINI, Renzo Angelo Antonio	E.292,E.293
PLYMEN, Roger J	E.289
POÉNARU, Valentin	E.275
POLKINGHORNE, The Reverend John Charlton	A.14
PORTEOUS, Ian Robertson	E.277
PORTER, Timothy	E.286
PRASAD, Gopal	E.295
PRIDDY, Stewart Beauregard	E.188-E.190
PRIETO, Carlos	E.287,E.292
PUPPE, Dieter	E.191
PUPPE, Volker	E.280

Index of correspondents

QUILLEN, Daniel Gray	E.278,E.280
QUINN, Frank S	E.192
RAGHUNATHAN, M S	E.297
RANICKI, Andrew A	E.193
RAVENEL, Douglas C	A.15,E.194-E.196
RAY, Nigel	A.15,E.197
RECTOR, David	E.198
REES, David	B.109
REES, Elmer	E.199
REIFENBERG, Peter	E.273,E.274,E.299
REYES, Arturo	E.292
RILEY, Robert F	E.283
ROBERTSON, Stewart A	E.278
ROBINSON, C Alan	E.282,E.283,E.287
ROITBERG, Joseph	E.283
ROSE, William	E.200
ROSEBLADE, James E	E.280,E.283,E.299
ROSEN, Sholom S	E.280
ROTHENBERG, Melvin	E.278
ROURKE, Colin P	E.201

Index of correspondents

ROUSH, Frederick W	E.280
RUBEL, Lee A	E.276
RUTTER, John Westhead	E.297
SAMELSON, Hans	E.202
SANDERSON, Brian Joseph	E.203
SASAO, Seiya	E.280
SCHOCHET, Claude	E.280,E.286,E.287
SCHWARZENBERGER, Ralph Ludwig Edward	E.275,E.280,E.281
SCHWEITZER, Paul A	E.291
SCOTT, Dana S	E.118
SEGAL, Graeme Bryce	E.204-E.206
SEITZ, Garry	E.295
SERRE, Jean-Pierre	B.143,E.207
SEYMOUR, Robert	E.285
SHARMA, B L	E.288
SHAW, Ronald	E.208
SHEN Xin-yao	E.289
SHEPHERDSON, John Cedric	E.284
SHICK, Paul L	E.295,E.297
SHIH Weishu	E.209
SHIMADA, Nobuo	E.274

Index of correspondents

SHIRAIWA, Kenichi	E.274
SHUTRICK, Hubert	B.84,E.276,E.297,E.299
SIEBENMANN, Larry	E.210
SIGRIST, François	E.280,E.299
SIMONS, James	A.9
SIMONS, Stephen	E.274
SINGER, William Merrill	E.211,E.212
SJOGREN, Jon A	A.15,E.287
SMALE, Stephen	D.8,D.10
SMITH, Frank D (Tony), Jr	E.295
SMITH, Larry	E.213-E.216
SMITHIES, Frank	E.279
SNAITH, Victor P	A.15,E.217-E.221
SOLECKI, Andrzej	E.282
SONDOW, Jonathan	E.278
SPANIER, Edwin Henry	E.222
SPENCER, Christopher	E.278
SPRINGER, T A	E.283
STALLINGS, John R	E.284,E.291
STASHEFF, James Dillon	E.223-E.225
STEENROD, Norman Earl	C.394,D.7,D.9,E.226

Index of correspondents

STEER, Brian	E.275,E.283,E.299
STEINER, Richard	E.227
STONE, Arthur H	E.278
STONG, Robert E	E.228
STRETCH, C	A.19
SUGAWARA, Tamio	E.281
SULLIVAN, Dennis	E.299
SUTHERLAND, Wilson A	A.16,E.229
SWINNERTON-DYER, Sir (Henry) Peter (Francis)	E.296
SWITZER, Robert M	E.276,E.278,E.280,E.282 E.299
SYMONDS, Peter A	E.289
TAMAKI, Bob	E.295
TANGORA, Martin Charles	A.16,E.230
TAUSSKY-TODD, Olga	E.294,E.297
TEMPLE, George Frederick James	E.274
TENNISON, Barry	E.280,E.282
TERRELL, George R	E.285
TEZUKA, Michishige	E.294
THOM, René	E.274,E.275
THOMAS, Charles Benedict	A.16,E.231-E.234
THOMAS, P Emery	E.235

Index of correspondents

THOMEIER, S	E.276
THOMPSON, John Griggs	E.289
TITS, Jacques	E.236
TIWARI, Sanjay	E.286,E.299
TODA, Hirosi	E.237,E.273
tom DIECK, Tammo	E.238,E.239
TOOMER, Graham Hilton	E.282
<u>TOPOLOGY</u>	E.101-E.103
TORNEHAVE, Jorgen	E.288
TUTTE, William Thomas	E.296
VACCARO, Michelangelo	E.296
VALDIVIA, Oscar	E.276
VAN BUSKIRK, J M	E.286
VARAPOULOS,	E.275
VASTERSAVENDTS, Marie-Louise	E.276
VRANCEANU, G	E.276
WALKER, Grant	A.17,E.278,E.280,E.283
WALL, Charles Terence Clegg	E.240
WHITEHEAD, George William	B.100,D.9,E.241
WHITEHEAD, John Henry Constantine	B.143,E.242

Index of correspondents

WHITGIFT, David	E.299
WILKERSON, Clarence W	E.243-E.251
WILLIAMS, David	C.622-C.625
WILLIAMSON, John H	E.287
WILSON, John S	E.299
WILSON, Pelham M H	E.293
WILSON, W Stephen	E.252
WOJTKOWIAK, Zdzisław	E.253-E.261
WOOD, Alastair	E.281
WOOD, Jay A	E.295
WOOD, R M W	E.262
WOODWARD, Lyndon M	E.283,E.285
WORTH PUBLISHERS, INC.	D.8-D.10
WU, Soon Yi	E.287
WYLIE, Shaun	A.8,E.274
YAGITA, Nobuaki	E.263
YATES, Charles Edmund Michael	E.284
ZABRODSKY, Alexander	E.287-E.289 E.295
ZACHARIOU, Andreas	E.264-E.269

Index of correspondents

ZAHLER, Raphael S	E.270
ZDRAVKOVSKA, S	E.280
ZEEMAN, Erik Christopher	E.271,E.272
ZVENGROWSKI, Peter	E.276

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Report on the further correspondence and papers
of

JOHN FRANK ADAMS

(1930-1989)

mathematician

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Supplementary catalogue of the papers and correspondence of

JOHN FRANK ADAMS FRS

(1930 - 1989)

Material additional to NCUACS 26/2/91

Compiled by Timothy E. Powell and Peter Harper

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LIST OF CONTENTS		Items	Page
INTRODUCTION			4
SECTION A	BIOGRAPHICAL	A.20	6
SECTION B	RESEARCH	B.174 - B.394	7
SECTION C	LECTURES	C.709 - C.742	21
SECTION D	PUBLICATIONS	D.16 - D.108	25
SECTION E	CORRESPONDENCE	E.300 - E.319	32
INDEX OF CORRESPONDENTS			35

INTRODUCTION

PROVENANCE

The supplementary material presented here and the original collection of papers (NCUACS 26/2/91) were made available for cataloguing and deposit by the family of Professor Adams.

PRESENTATION

The material has been arranged into sections and numbered to follow the sequence of the catalogue compiled in 1991 (NCUACS 26/2/91), which should be consulted in conjunction with this Supplementary Catalogue.

DESCRIPTION

The collection is presented in the order given in the List of Contents. Material supplementary to the 1991 catalogue has been found for all sections.

Section A, Biographical, consists of one new item; an intellectual 'family tree' compiled by Adams tracing pupils of J H C Whitehead.

Section B, Research, provides significant further documentation of Adams's research. It is presented in an alphabetical sequence arranged by subject title.

Section C, Lectures, comprises two subsections presenting further teaching material for courses at Cambridge and notes from conferences and seminars attended by Adams.

Section D, Publications, presents much new material relating to Adams's publications over the period 1971-89. Of particular note is the extensive documentation of two important joint papers 'The Segal conjecture for elementary abelian p -groups', with J H Gunwardena and H Miller, Topology 24 (1985) and 'A generalisation of the Segal conjecture', with J-P Haeberly, S Jackowski and J P May, Topology 27 (1988).

Section E, Correspondence, is a slight addition to the extensive correspondence in the catalogue compiled in 1991.

T E Powell
P Harper
Bath 1992

SECTION A

BIOGRAPHICAL

A.20

A.20

'Family tree'. Contents of Adams's folder so inscribed: correspondence and papers re 'J H C Whitehead supervision tree'.

On the occasion of the inaugural J H C Whitehead Lecture, 28 June 1974, Adams prepared 'a wall-chart showing the pupils of J.H.C.W., and his pupils' pupils, and so on'. Folder includes the wall-chart.

SECTION B

RESEARCH

B.174-B.394

The research material in this section complements that in the previous catalogue, which it exceeds in quantity. It was found in Adams's own folders with titles inscribed thereon. These titles have been reproduced in the catalogue entries and form the basis for the arrangement of the material in an alphabetical sequence. At the end of this sequence are the contents of Adams's folders containing mathematical problems for research students and colleagues, and miscellaneous research material.

The contents of bulky folders have been subdivided for ease of reference.

Many of Adams's notes are written on the back of earlier notes, pages of drafts (generally undated), reports and correspondence. Some of the reports and correspondence are concerned with Trinity College Cambridge or Royal Society business and are subject to restricted access.

- B.174 'Ideas on Adams Resolutions for Leytem'.
- B.175-B.177 'Current work on ASS [Adams Spectral Sequence]'. 3 folders.
- B.178-B.180 'Work on Adams Spectral Sequence'. 3 folders.
- B.181 'Work on ASS'. Includes 'BMC [British Mathematical Colloquium] talk', 5pp ms and 'Paris talk', 17pp ms (in French).
- B.182 'Convergence of ASS'.
- B.183 'Generalised ASS'.
- B.184 'Amusements'. Miscellaneous puzzles and problems.

Research

- B.185 'Baird work'. Includes 'The structure of $A=K_0(k) \otimes \mathbb{Z}_p$ ', 7pp ms.
- B.186,B.187 'Notes on talks on BP_* by Morava et al. 2 folders.
- B.188 'bu $_*$ (bu) for [D W]Anderson'.
- B.189 'Archives of [G]Carlsson work'.
- B.190,B.191 'G-spectra work on Carlsson'.
- B.190 Letter from Maurice [?] re equivariant stable homotopy theory, 9 August 1982; 'Aarhus lecture' on Carlsson's proof of G Segal's Burnside Ring Conjecture; 'Carlsson's Convergence Theorem', 4pp ms.
- B.191 Ms notes.
- B.192-B.196 'New work on Carlsson'.
- B.192 'Conversation between a Topologist and Two Machines', 5pp ms, 10 January 1984.
- B.193-B.196 Ms notes. 4 folders.
- B.197 'Cohen - Moore - Neisendorfer'.
- B.198 'Cohomol[ogy] of Groups'.
- B.199 'For work on completion conjecture'. Chiefly re J P May.

Research

- B.200-B.203 'Archives: Duflot - Landweber - Stong → work on cohomol. lie groups (May Cohen sources)'.
- B.200 Correspondence with R E Stong 1985. Includes letter from Stong, 18 January, enclosing 'A problem of Adams on $H^*(BG; \mathbb{Z}_p)$ ' by J Duflot, P S Landweber and Stong, and Adams's reply of 22 February commenting on the paper.
- B.201-B.203 Ms notes.
- B.204 'Work on E_6 for Kleidman'.
- B.205, B.206 ' E_8 '. 2 folders. Some notes on verso of abstracts submitted for Trinity College Fellowship competition 1982.
- B.207-B.209 ' E_8 at the prime 2'. 3 folders.
- B.210 ' E_8 at prime 5'.
- B.211 'EASS [Equivariant Analogues of the Adams Spectral Sequence] file'.
- B.212-B.214 'Exceptional Lie Groups'. (1).
- B.212 Index cards of bibliographical references.
- B.213 'Roots of E_6 for Weyl formula'; 'Roots of E_7 for Weyl formula'.
- B.214 Ms notes 'From Cornwall file'. Some notes on verso of 1982 Trinity College Fellowship reports.
- B.215-B.217 'Exceptional Lie Groups'. (2). 3 folders.

Research

- B.218-B.222 'Exceptional Lie Groups'. (3).
Five folders of Adams's so labelled as a group.
- B.218 'E₆'.
- B.219-B.221 'E₈ at prime 5'. 3 folders. Some notes on verso of 1976-77 correspondence re Royal Society elections.
- B.222 'Collection of verifications on E₇, E₆'.
- B.223 'Spare material on exceptional lie groups'.
- B.224 'Ext K_{*}(K)'. Includes 'Basic definitions', 27 May 1972, and 'case of p odd', 28 May.
- B.225 'Work on Ext'. Some notes on verso of ?Royal Society papers.
- B.226-B.232 'F₄'.
- B.226 Ms drafts on F₄, December 1978, January 1979.
- B.227 Letter from Adams, 26 June 1979; 'A bit about the exceptional lie group F₄', 16pp ms.
- B.228-B.232 Ms notes. 5 folders.
- B.233 'Small subgroups of G₂ (and F₄)'.

Research

- B.234 'Note on G-cohomology'.
Includes note from N Kuhn, April 1987.
- B.235,B.236 'New drafts via Gen Homol'. 2 folders.
- B.237, B.238 'Products in Generalised Cohomology Theories'. 2 folders.
- B.239,B.240 'Geometry'. 2 folders.
- B.241,B.242 'Yosé in Go'.
Ms notes and calculations re the game of Go. 2 folders.
- B.243 'Work for Goto'.
- B.244 'Thoughts on Greenlees problem'.
Includes 'summary of progress' from J P C Greenlees,
January 1983; and photocopies of work on 'False HP^∞ 's'
February 1977.
- B.245 'Greenlees work'.
- B.246 'H spaces & [?] lie groups'.
- B.247 'New Hattori-Stong'.
- B.248 'Scraps of work with Haynes, on Burnside Ring Conj,
June-July '82'.
- B.249-B.251 'Homol. Alge.'. 3 folders.

Research

- B.252-B.254 'Work on using homology in Novikov Spectral Sequence'.
- B.252 'Care and Feeding of Comodules', 14pp ms; 'Data: R ring: C comodule over R, flat over R.' 5pp ms.
- B.253,B.254 Ms notes. 2 folders.
- B.255 'Homotopy'. Some notes on back of draft letter to T M Sugden, Physical Secretary of the Royal Society, October 1978.
- B.256 'Homotopy Theory'. Some notes on back of copies of letters to C W Wilkerson, 1977-78.
- B.257-B.261 'Jackowski'.
- B.257 Adams's 'Remarks on the draft "Families and completions in equivariant cohomology" by S Jackowski'; letter from Jackowski enclosing revised draft, ?January 1984.
- B.258-B.261 Ms notes. 4 folders.
- B.262 'Jackowski - McClure on BG'. Comments on ms draft by S Jackowski and J E McClure 'An approximation theorem for classifying spaces of compact lie groups'.
- B.263 'Johnstone problem'. Work re P T Johnstone.
- B.264-B.267 'Kahn thing'.
- B.264 Correspondence with D S Kahn re 'line of attack on the conjecture of Mahowald and Whitehead'.
- B.265-B.267 Ms notes. 3 folders.

Research

- B.268-B.270 'Work for [A] Kono'. 3 folders.
- B.271 'LIE'.
- B.272-B.274 'New Lie Groups'. 3 folders.
- B.275-B.278 'LIN'.
Four folders of Adams's so labelled as a group.
- B.275 Ms notes for 'Chicago seminar'.
- B.276 'New work on Lin'.
- B.277,B.278 Ms notes. 2 folders.
- B.279 'Bits about localisation & completion'.
- B.280 'Work for Miss [C] Luz'.
- B.281 'Work for Chuck McGibbon'.
- B.282 'Mislin localisation thing'.
- B.283-B.286 'Mahowald'. (1)
- B.283 Correspondence with M E Mahowald, March-April 1972.
- B.284-B.286 Ms notes. 3 folders.

Research

- B.287,B.288 'Mahowald'. (2)
- B.287 Drafts by Mahowald: 'The order of the image of J',
'The order of the image of the J-homomorphism',
'Periodicity in the Adams Spectral Sequence'.
- B.288 Ms notes.
- B.289-B.292 'Mahowald'. (3)
- B.289 Ms draft 'On a result of Anderson' by Adams.
- B.290-B.292 Ms notes. 3 folders.
- B.293 'Exposé on Mark [Mahowald] on $h_1 h_n$ '.
- B.294,B.295 'Vanishing theorems: notes on Mark [Mahowald], letters'.
2 folders.
- B.296 'Modules'.
llpp ms draft.
- B.297 'File On MSp'. Some notes on back of corrected proof of
'On the groups $J(X)-1V$ ' by Adams (Bibliog.no.35, 1966).
- B.298 'MSp (new)'.
- B.299-B.301 'Work on Non-abelian Homol. Algebra'.
- B.299 Seminar notes.

Research

- B.300,B.301 Ms notes. 2 folders. Some on back of incomplete ms draft by Adams on wartime work of M H A Newman, probably for his Royal Society Memoir of Newman (Bibliog.no.75, 1985).
- B.302-B.304 Novikov: Liulevicius translation & work on him'.

See also E.139, E.140 of the previous catalogue (NCUACS 26/2/91).
- B.302 Letters to A Liulevicius, January 1968.
- B.303,B.304 Ms notes. 2 folders.
- B.305-B.308 'Novikov seminar: [?], calculations'. 4 folders.
- B.309-B.313 'Periodicity'. 5 folders.
- B.314 'PSU (3) etc'.
- B.315 'Quillen thing'. Notes on work of D G Quillen.
- B.316-B.321 '[D C]Ravenel, BP, p-homotopy'.

Six folders of Adams's so labelled as a group.
- B.316 'Notes on Ravenel & BP applied to p-homotopy'. Includes notes for 'Seminar talk on BP-theory'.
- B.317-B.319 'HTPY, CALCNS'. 3 folders.
- B.320 'Ravenel'.

Research

- B.321 'Ravenel's notes, re Shen thing'.
- B.322-B.326 'RECTOR-LAM'.
Five folders of Adams's so labelled as a group.
- B.322,B.323 'Work on Rector'.
- B.322 Correspondence with D Rector, October-November 1981.
- B.323 Ms notes.
- B.324-B.326 'LAM'.
S P Lam was a Research Student of Adams's.
- B.324 Letter to Lam, 31 December 1981; 'Algebras over the Steenrod Algebra', 19pp ms.
- B.325 'Work of Lam and Adams', 9pp ms by C Wilkerson, 11 April 1982;
'Work of Wilkerson on "Work of Lam and Adams" ' 3pp
photocopied ms by Adams, 19 April .
- B.326 Ms notes.
- B.327 'Segal-Jackowski Conj.'
- B.328 'Sources on Serre Conj.'
Photocopied papers and correspondence.
- B.329-B.332 'SHEN'.
- B.329 Correspondence with Shen and S Oka, 1981-82, re
calculating Ext groups.

Research

- B.330-B.332 Ms notes. 3 folders.
- B.333,B.334 'Larry Smith work'. 2 folders.
- B.335 'A child's guide to Larry Smith's construction'.
- B.336 'Thoughts on Steinberg [?symmetry] '.
- B.337 'Steinberg'.
- B.338-B.341 'Sullivan (Work on Sullivan's calcs) '.
- B.338 Correspondence with D Sullivan and Brian [?].
- B.339-B.341 Ms notes. 3 folders. Some on back of Manchester University Department of Mathematics minutes, November 1970.
- B.342-B.344 'Symmetry thing'. 3 folders. Some notes on back of Royal Society papers, 1976-78.
- B.345 'C B T [homas] problem'.
- B.346 'TRANSFER'. 'Transfer and Dyer-Lashof structure'.
9pp ms.
- B.347 'Triality'. 'Some precise details on the group Σ_3 of outer automorphisms', 10pp ms.
- B.348 'Work on Unstable Algebra'.
- B.349,B.350 'G Walker'. 2 folders.

Research

- B.351,B.352 'Study on Weyl groups'. 2 folders.
B.353-B.355 'Work on $(\mathbb{Z}_2)^n$ '. 3 folders.
B.356,B.357 'Work on [R S]Zahler'. 2 folders.

'Problems'

Contents of Adams's folders so inscribed containing
mathematical problems for research students and colleagues.

- B.358 1965, 1968.
B.359,B.360 1974, 1976. 2 folders.
B.361 1977. 'Problems from Chicago Easter 77'.
B.362,B.363 1978-79. 2 folders.
B.364 1982. 'Current problems in homotopy theory'.
B.365 '1983'.
B.366-B.368 1985. 3 folders.
B.369,B.370 1986. Problems from participants at International
Conference on Algebraic Topology, Arcata, California,
1986. 2 folders.

Research

- B.371 1986.
- B.372 Nd. 'Problems proposed at the Chicago Circle Algebraic
Topology Conference'; 'Problems for problem session';
etc.

Miscellaneous

- B.373 'Work done in Chicago'. Chiefly re work of J P May.
- B.374 'Draft for Jeremy[?Gunwardena]'. 15pp research problem,
September 1979.
- B.375,B.376 'Work for Nigel'. 2 folders.
- B.377 'Thoughts for Princeton'.
- B.378 'Notes on papers'.
- B.379 'Suggs. for Further Work etc'.
- B.380 'My own....'
- B.381 'Work in progress'. Includes 'False HP[∞]'s', 9pp ms,
20 February 1977.
- B.382,B.383 'Work'. 2 folders.

Research

B.384, B.385 'Scraps'.

B.384 Includes 'A problem in homological algebra' 9pp ms;
notes for P T Johnstone.

B.385 Ms notes.

B.386-B.394 Untitled. 9 folders.

SECTION C

LECTURES

C.709-C.742

C.709 - C.717

Teaching

C.718 - C.742

Conferences and seminars

TEACHING

C.709-C.714 'Equivariant topology'.

Lecture notes; examination questions. 6 folders.

C.715-C.717 'Course on Exceptional Groups (Materials, preliminary sessions etc)'. Contents of Adams's folder so inscribed divided into three for ease of reference.

Ms notes, examination questions.

Lectures

CONFERENCES AND SEMINARS

- C.718 'Algebraic Topology Seminar'.
Programmes of speakers and subjects for Departmental seminars, 1985-86.
- C.719-C.721 'Proceedings of Monday seminar'. Contents of Adams's folder so inscribed divided into three for ease of reference.
- C.719 Programme for Departmental seminars on 'Algebra over the Steenrod algebra', Lent Term 1986; Adams's notes on Seminar by J H Gunwardena; ms note by Gunwardena 'T commutes with suspension' arising from the seminar.
- C.720 Adams's notes on seminars by K Schuch, A Cathcart, J Greenlees, D Carlisle.
- C.721 Adams's notes on seminars by D Carlisle, D Barden; typescript note by Barden 'The geometric parts of Haynes Miller's proof of the Sullivan conjecture' arising from the seminar.
- C.722 'Bonn, Dynamics'. Contents of Adams's folder so inscribed.
Lecture notes.
- C.723,C.724 Namboodiri Lectures, University of Chicago, latest reference 1985.
- C.723 First lecture.

Lectures

- C.724 Second and third lectures.
- C.725 'Talk for Chicago'.
Lecture notes.
- C.726 'Generalisation of the Adams spectral sequence, I:
The category of fractions associated with a homology
theory'.
Lecture notes.
- C.727 'Talk for Hull', latest reference 1966.
Lecture notes.
- C.728,C.729 'Seminar on Lannes'. Contents of Adams's folder so
inscribed divided into two for ease of reference.
Notes for two lectures.
- C.730 'Lannes (Notes from Paris Meeting)'. Contents of
Adams's folder so inscribed.
Ms notes.
- C.731 'Talk for Notre Dame (Midwest Topology Seminar)'.
Lecture notes.
- C.732-C.734 Contents of Adams's folder divided into three for ease of
reference.
Lecture notes, beginning 'I have been instructed ... to
present proofs of what I said in the Midwest Topology
Seminar'.

Lectures

- C.735,C.736 'Talk for Oxford'. Contents of Adams's folder so inscribed divided into two for ease of reference.

Lecture notes on 'The theorem of Madsen, Snaith & Tornehave'.
- C.737 'Oxford Talk' .

Lecture notes.
- C.738 'Peaks, passes & pits Talk to Archimedean'. Contents of Adams's folder so inscribed.

Lecture notes.
- C.739-C.741 'Talk on theorems of R M W Wood, H R Margolis, D W Anderson and M E Mahowald'. Contents of Adams's folder so inscribed divided into three for ease of reference.

Lecture notes.
- C.742 Contents of Adams's folder.

Lecture notes.

SECTION D

PUBLICATIONS

D.16 - D.108

Where applicable reference has been made to Adams's
List of Publications (A.2) in the form Bibliog. no....

- D.16,D.17 'Modules over the Steenrod algebra', with H R Margolis.
Bibliog. no. 41 (1971).
- D.16 28pp typescript by Margolis; letter from Adams commenting
on the draft.
- D.17 15pp typescript by Adams.
- D.18-D.20 'Sub-Hopf-Algebras of the Steenrod algebra', with
H R Margolis. Bibliog.no.50 (1974).
- D.18 Correspondence from Margolis, 1972-73; ms and typescript
drafts of 'Subalgebras of the mod 2 Steenrod algebra',
probably earlier version of the paper.
- D.19 10pp photocopied ms by Margolis; 22pp ms by Adams.
- D.20 15pp typescript; 14pp ms 'Notes for the Author'
by Adams.
- D.21-D.26 'Geometric dimension of bundles over RP^n '. Bibliog.
no.51 (1974).
- D.21 23pp ms.
- D.22 17pp typescript.
- D.23-D.26 Material found with the preceding: correspondence,
1973-74, with C Luz, research student; ms notes.
4 folders.

Publications

- D.27-D.32 'Idempotent functors in homotopy theory'. Bibliog. no.52 (1975).
- D.27 12pp 'OLD' ms; 18pp ms.
- D.28 11pp typescript.
- D.29-D.32 Material found with the preceding: ms notes. 4 folders.
- D.33-D.35 'Calculation of Lin's Ext groups', with W H Lin, D M Davis and M E Mahowald. Bibliog. no. 64 (1980).
- D.33 Correspondence with co-authors and Editor, 1979.
- D.34 34pp ms 'Draft for Lin-Davis-Mahowald'.
- D.35 22pp ms; proof with ms corrections.
- D.36,D.37 'Graeme Segal's Burnside Ring Conjecture'. Bibliog. no.65 (1980). See also Bibliog. nos. 68 and 69 (1982).
- D.36 18pp typescript.
- D.37 Ms notes for talks on Segal's Burnside Ring Conjecture found with preceding.
- D.38 Book review of 'The classifying spaces for surgery and cobordism of manifolds' by I Madsen and R J Milgram for Bulletin of the London Mathematical Society c.1980.

Publications

- D.39-D.44 'Spin (8), triality, F_4 and all that'. Bibliog. no.67 (1981).
- D.39 21pp photocopied ms.
- D.40-D.44 Material found with preceding: ms notes. 5 folders.
- D.45 'The case of an odd prime', July 1982. Not listed in Bibliog.
40pp ms.
- D.46-D.48 'Maps between classifying spaces. III', with Z Mahmud. Bibliog. no.71 (1983)
- D.46 Correspondence with Mahmud, 1980-81.
- D.47 6pp ms; 6pp ms 'Amendments'.
- D.48 Material found with preceding: ms notes.
- D.49 'An exposition of Carlsson's proof'. Not listed in Bibliog., latest bibliographical reference 1983.
19pp typescript.
- D.50, D.51 'Prerequisites (on equivariant stable homotopy) for Carlsson's lecture'. Bibliog. no.72 (1984).
- D.50 28pp typescript.
- D.51 Later draft, 51pp typescript + ms corrections.

Publications

- D.52-D.59 'The Segal conjecture for elementary abelian p-groups',
with J H Gunwardena and H Miller. Bibliog. no.76 (1985).
- D.52 Letters to Miller re collaboration, 1981.
- D.53 29pp ms 'Draft for H Miller', July 1981.
- D.54 'Jerusalem manifesto April '82 Draft for Adams
Gunwardena & Miller'; 'Seminar from Jerusalem'.
- D.55 Correspondence, 1982.
- D.56,D.57 'Function-Object Draft July '82'. 2 folders.
- D.58 'Draft Part I', February 1983.
- D.59, D.60 'Draft Part II', March 1983. 2 folders.
- D.61 Letters to J P May, 20 May 1984, H Miller, 9 June.
- D.62-D.65 129pp typescript. 4 folders.
- D.66-D.69 Material found with preceding: ms notes and drafts.
4 folders.
- D.70-D.72 '2-tori in E_8 '. Bibliog. no.77 (1987).
- D.70 Correspondence with editors, 1984-86; 28pp ms.
- D.71 24pp typescript.
- D.72 Ms drafts: '2-Tori in Exceptional Groups Draft 5',
'2-tori in E_7 ', 'A start on the Invariant-Theory'.
'The 6 8-dimensional relation in $H^*(BA(T))$ '.

Publications

- D.73 'The work of M J Hopkins'. Not listed in Bibliog.
but submitted for publication in the 'Proceedings of the
Barcelona conference' (see C.603-C.605 of the previous
catalogue).
- Letter from editor with referee's report, 15 May 1987;
12pp typescript.
- D.74-D.93 'A generalisation of the Segal conjecture', with J-P Haeberly,
S Jackowski and J P May. Bibliog. no. 78 (1988).
- D.74 Ms draft, August 1984, with covering letters to co-authors.
- D.75,D.76 Ms draft, December 1984, with covering letters to co-authors.
2 folders.
- D.77 Correspondence, March 1985. Includes Jackowski's draft
introduction.
- D.78,D.79 Ms draft 'A', c. July 1985, with covering letter and Notes
to co-authors. 2 folders.
- D.80,D.81 Ms draft 'B', July 1985. 2 folders.
- D.82 Ms draft 'C', August 1985, with covering letters to co-authors.
- D.83,D.84 Ms draft 'D', September 1985, with covering letter to
co-authors. 2 folders.
- D.85 Comments on 'D' and other drafts from co-authors,
September-November 1985.

Publications

- D.86 Letters to co-authors, January 1986, re draft 'F' (not surviving).
- D.87 Comments on 'F' from co-authors, January-March; 'A further generalisation of the Segal conjecture' by J P May.
- D.88 39pp typescript; letter from Topology, 13 May 1986.
- D.89-D.93 Material found with preceding: ms notes and pages of drafts. 5 folders.
- D.94, D.95 'A generalisation of the Atiyah-Segal completion theorem', with Haerberly, Jackowski and May. Bibliog. no.79 (1988).
- D.94 Correspondence from May, March-April 1985; 16pp photocopied ms (by May), 'Revised March 27, 1985'.
- D.95 9pp typescript.
- D.96, D.97 'Atomic spaces and spectra', with N J Kuhn. Bibliog. no.80 (1989).
- D.96 Correspondence with Kuhn and Editor, 1987-88; 5pp ms 'Note on atomic spectra', 19 June 1987.
- D.97 13pp ms with corrections; 10pp typescript.
- D.98, D.99 'Maps between p-completed classifying spaces', with Z Wojtkowiak. Bibliog. no.81 (1989).
- D.98 Letter to Wojtkowiak, 14 April 1988; ms note.
- D.99 9pp ms; 6pp typescript.

Publications

- D.100 'An Inquiry into some work of William M Singer'. Nd.
Not listed in Bibliog.

15pp ms 'OLD'; 12pp ms 'NEW'.
- D.101 'On Wenten's surface'. Nd. Not listed in Bibliog.

10pp ms.
- D.102-D.104 'Draft 1'. Contents of Adams's folder so inscribed
divided into three for ease of reference. Ms notes.
Nd.
- D.105-D.108 'Draft 3'. Contents of Adams's folder so inscribed
divided into four for ease of reference. Ms notes.
Nd.

SECTION E	CORRESPONDENCE	E. 300-E. 319
E. 300	Bousfield, A K	1979,1984
E. 301	Carlsson, G Includes 6pp ms note by Adams 'On your paper about the Segal conjecture'.	1982, nd
E. 302	Drensky, V S Friedlander, E M	1984 1975
E. 303	Goddard, P Classification of G-bundles Hikida, M Resolution of $K_*(S)$.	1983 1981
E. 304	Jackowski, S	Nd
E. 305	Kropholler, P H 'Invariants of some classical finite groups over $GF(2)$ ' by Kropholler and D P Carlisle, December 1987, sent to Adams for comment, with Adams's comments thereon. See also B.19-B.32 of the previous catalogue.	1987-88
E. 306,E. 307	Lannes, J	1985-86
E. 306	1985 September.	
E. 307	1985 November-December,1986. Includes 22pp ms draft 'Two theorems of J Lannes' by Adams, sent to Lannes for comment.	

Correspondence

E.308	Lees,	Nd
	Includes 8pp ms draft 'On Lees' problem' by Adams.	
E.309	Leruste, C	1975
	Liulevicius, A	Nd
E.310	Lusztig, G	1974-75
E.311	Mahowald, M E	1976
	May, J P	?1973
	Representation theory	
E.312,E.313	Priddy, S B	1973
	<u>Re</u> visit to Cambridge, September 1973-August 1974. Priddy of Northwestern University, Illinois, was Senior Visiting Fellow in Adams's Department.	
E.312	January - July	
E.313	August - November	
E.314	Samelson, H	1978
	Convergence of spectral sequences	
	Smith, L	1969
	Snaith, V P	1976

Correspondence

E.315	Tangora, M C	1976
	Tits, J	1973
	Lie groups	
	<u>Topology</u>	1969
E.316, E.317	Zahler, R S	1972-73
	Papers sent to Adams for comment	
E.316	1972	
E.317	1973	
E.318	Zarati, S	1985
E.319	First names only	1968,1974,1976,1982

INDEX OF CORRESPONDENTS

AGUADÉ, J	D.73
ATYAH, Sir Michael (Francis)	B.219,B.344
BARTLETT, Maurice Stevenson	B.219
BATCHELOR, George Keith	B.343
BAUER, Heinz	D.70
BLACKWELL, David	B.219
BONDI, Sir Hermann	B.219
BOUSFIELD, A K 'Peter'	E.300
BURKILL, John Charles	B.219,B.386
CAMBRIDGE PHILOSOPHICAL SOCIETY	D.33
CARLSSON, Gunnar	E.301
CHADWICK, Peter	B.219,B.386
CHANDRASEKHAR, Subrahmanyam	B.219
DALITZ, Richard Henry	B.386
DAVIS, Donald Miller	D.33
DOMB, Cyril	B.386
DRENSKY, Vesselin S	E.302
DYSON, Freeman John	B.386

Index of correspondents

EDINBURGH MATHEMATICAL SOCIETY	D.96
ERDELYI, Arthur	B.386
FRIEDLANDER, Eric M	E.302
GODDARD, Peter	E.303
GOLD, Thomas	B.386
GRAUERT, H	D.70
GUNWARDENA, Jeremy H	D.58,D.59
HAEBERLY, Jean-Pierre	D.74,D.76,D.79,D.82 D.84-D.87
HIKIDA, Mizuko	E.303
HOWARTH, Leslie	B.386
HOWIE, John M	A.20
JACKOWSKI, Stefan	B.257,D.74,D.76,D.79 D.82,D.84-D.87,E.304
JAMES, Gordon D	E.302
KAHN, Daniel Stephen	B.264

Index of correspondents

KAPLANSKY, Irving	B.219
KARLIN, Samuel	B.219
KEMMER, Nicholas	B.219,B.344
KENDALL, David George	B.219
KUHN, Nicholas J	B.234,D.96
LAM, S P	B.324
LANNES, Jean	E.300,E.306,E.307
LEES,	E.308
LEHMANN, Erich	B.219
LERUSTE, Christian	E.309
LEYTEM, Charles	B.363
LIN Wen-Hsiung	D.33
LIULEVICIUS, Arunas	B.302,E.309
LUSZTIG, George	E.310
LUZ, Clothilde	B.280, D.23
LYTTLETON, Raymond Arthur	B.343
MAHLER, Kurt	B.219
MAHOWALD, Mark Edward	B.283,D.33,E.311

Index of correspondents

MANSFIELD, Eric	B. 344
MARGOLIS, Harvey Robert	D.18,E.315
MAUNDER, Charles Richard Francis	A.20
MAY, J Peter	B.360,D.61,D.74,D.76 D.79,D.82,D.84-D.87, E.311
MILLER, Haynes Robert	D.52,D.55,D.58,D.59 D.61
MORAN, Patrick Alfred Pierce	B.343
NEUMAN, Bernhard Hermann	B.344
NORTHCOTT, Douglas G	B.219,B.344
OFFORD, Cyril	B.344
OKA, Shichirô	B.329
PEARSON, Egon	B.219,B.344
PHILLIPS, Owen Martin	B.344
PRIDY, Stewart Beauregard	E.312,E.313
QUILLEN, Daniel Gray	B.328

Index of correspondents

RECTOR, David	B. 322
ROSENBROCK, Howard Harry	B. 343
ROTH, Klaus Friedrich	B. 219
RUBINSTEIN, Richard	B. 359
SCHUCH, Klaus	E. 307
SEGAL, Graeme Bryce	D. 74, D. 88
SERRE, Jean-Pierre	B. 219
SHEN Xin-yao	B. 329
SMITH, Larry	E. 314
SNAITH, Victor P	E. 314
STEWARTSON, Keith	B. 344
STONG, Robert E	B. 200
STUART, John Trevor	B. 219
SUGDEN, Sir (Theodore) Morris	B. 255
SULLIVAN, Dennis	B. 338
TANGORA, Martin Charles	E. 315
TAYLOR, John Bryan	B. 219

Index of correspondents

TITS, Jacques	E. 315
<u>TOPOLOGY</u>	D. 88, E. 315
URSELL, Fritz Joseph	B. 219, B. 344
WALL, Charles Terence Clegg	A. 20
WALLER, Derek A	A. 20
WHITEHEAD, John Henry Constantine	See A. 20
WILKERSON, Clarence W	B. 356
WILKES, Maurice Vincent	B. 219
WOOD, Reg M W	B. 366
WYLIE, Shaun	A. 20
YATES, Frank	B. 344
ZAHLER, Raphael S	E. 316, E. 317
ZARATI, S	E. 318