

IAN W. D. DALZIEL, B.Sc., Ph.D., D.Sc. (Hon.), FGS (Hon.) FRSE

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EDUCATION

B.Sc. (First Class Honours) University of Edinburgh, 1959: Geology with physics.
Ph.D. University of Edinburgh, 1963: Geology.

HONORARY DEGREE

D.Sc. University of Edinburgh, 2000.

ACADEMIC POSITIONS

10/1959-08/1963 Assistant Lecturer in Geology, University of Edinburgh.
09/1963-08/1966 Assistant Professor of Geology, University of Wisconsin, Madison.
09/1967-06/1973 Associate Professor of Geology, Columbia University (†1970).
07/1973-05/1985 Professor of Geological Sciences, Columbia University.
09/1970-05/1985 Senior Research Scientist, Lamont-Doherty Geological Observatory, Columbia University.
05/1985-08/2004 Senior Research Scientist, Institute for Geophysics, The University of Texas at Austin.
09/2005-08/2007 John A. and Katherine G. Jackson School of Geosciences Research Fellow, The University of Texas at Austin.
09/2004-Present Research Professor, Institute for Geophysics, The University of Texas at Austin.
09/1985-Present Professor of Geological Sciences, The University of Texas at Austin (†1985). (†with tenure)

HONORARY ACADEMIC POSITION

Chair of Geology, University of St Andrews, 1997-2008

ADMINISTRATIVE POSITIONS

7/1973-6/1976 Chairman, Department of Geological Sciences, Columbia University.
7/1973-5/1985 Member, Executive Committee and Administrative Board, Lamont-Doherty Geological Observatory of Columbia University.
9/1994-8/2007 Associate Director, Institute for Geophysics, the University of Texas at Austin.
5/1985-Present Member of the Budget Councils, Institute for Geophysics and Department of Geological Sciences, The University of Texas at Austin.

MAIN FIELD OF RESEARCH INTEREST

Tectonics, Earth evolution and Earth system processes

Sub-fields: Structure and evolution of the Antarctic continent and plate and of the Antarctic ice sheet; orogenesis; the supercontinental cycle

AWARDS

1992 Murchison Medal, Geological Society of London.
2003-2004 Clough Medal, Geological Society of Edinburgh.
1997 Bownocker Medal, The Ohio State University.
1976-77 John Simon Guggenheim Memorial Fellowship (Swiss Federal Institute (ETH), Zurich, Switzerland).
2008 University Cooperative Society Career Research Excellence Award, Austin, Texas
2008 Joseph C. Walter Jr. Excellence Award, John A. & Katherine G. Jackson School of Geosciences, University of Texas at Austin.
1998-99 Permian Basin Section of Society for Sedimentary Geology—Best Paper Award.

AWARDS (CONTINUED)

1997-98 The University of Texas at Austin, Cooperative Society Best Research Paper Award.

ELECTIONS TO FELLOWSHIP

1980 Corresponding Member, Asociación Geológica Argentina.
 1996 Fellow of the Royal Society of Edinburgh, Scotland's National Academy.
 1996 Corresponding Fellow, Edinburgh Geological Society.
 2008 Honorary Fellow, The Geological Society, London, UK.

EDITORIAL RESPONSIBILITIES

1985-Present Editorial Board, *Gondwana Research*.
 1990-2002 Editorial Board, Royal Society of Edinburgh.
 1994-2000 Editorial Board, *Geology* magazine.
 2002-Present Associate Editor, Editorial Board, *Episodes*, Journal of the International Union of Geological Sciences.
 2003-Present Consulting Editor, *Transactions of the Royal Society of Edinburgh: Earth Sciences*.

LEADERSHIP OF MAJOR INTERNATIONAL RESEARCH PROJECTS

1968-1990 Leader: Scotia Arc Tectonics Project, South America and Antarctica (US-Chile-Argentina-UK).
 1984 Co-Chief Scientist (with P.F. Barker of UK): Leg 36 of Deep Sea Drilling Project, Scotia Sea and South Atlantic Ocean, Ushuaia, Argentina to Rio de Janeiro, Brazil (12 scientists from six nations).
 1984-1994 Convener: Group of Specialists on Structure and Evolution of the Antarctic Lithosphere (International Council of Scientific Unions, Scientific Committee on Antarctic Research).
 1986-1992 US Leader: Tectonics of West Antarctica (US-UK).
 1988-1990 Chairman: International Ocean Drilling Project, Tectonics Panel (US-UK-France-Germany-Japan-Australia-Canada-European Science Foundation).
 1993-1996 US Leader: South Pacific Rim International Tectonics Project (US-UK-New Zealand).
 2000-Present Leader: West Antarctic GPS Network (Universities of Texas, Ohio State, and Memphis).

CONVENER, INTERNATIONAL WORKSHOPS AND CONFERENCES

1982 Co-Convener of Geological Society of America Penrose Conference on "The Antarctic Plate: A Global Perspective", Shenandoah National Park, Virginia, (with D.H. Elliot).
 1989 Convener, Workshop on Antarctic International Lithosphere Project and US Geophysical Initiative, National Academy of Sciences, Washington, D.C.
 1989 Convener, Symposium on Antarctic Geology, 28th International Geological Congress, Washington, D.C.
 1992 Co-Convener, Geological Society of America Penrose Conference on "Late Precambrian Plate Tectonics and the Dawn of the Phanerozoic," Death Valley, California, (with A. Knoll and E. Moores).
 1995 Co-Convener, Geological Society of America Penrose Conference on "The Argentine Precordillera—A Laurentian Terrane?" San Juan, Argentina, (with L. Dalla Salda, C. Cingolani, and A. Palmer).
 2000 Co-Convener, Geological Society of America Penrose Conference on "The Iapetus Ocean," Edinburgh, Scotland, (with A.L Harris, R. Astini, and D.J. Fettes).

CONVENER, INTERNATIONAL WORKSHOPS AND CONFERENCES (CONTINUED)

2001 Co-Chair, Technical Program, Joint Geological Society of America-Geological Society of London meeting on “Earth System Processes,” Edinburgh, Scotland, with Ian Fairchild).

PROFESSORSHIPS, LECTURESHIPS, AND FELLOWSHIPS

1976-1977 Visiting Professor, Geologisches Institut, Eidgenossische Technische Hochschule (Swiss Federal Institute), Zurich, Switzerland.
1978 Swiney Lecturer, University of Edinburgh.
1979-1980 Visiting Professor, Scripps Institution of Oceanography, University of California, San Diego, California.
1993 Erskine Senior Fellow, University of Canterbury, New Zealand.
1995 Gladden Senior Fellow, University of Western Australia.
1995 Goldschmidt Lecturer, Geological Survey of Norway.
1997 Bownocker Lecturer, The Ohio State University.
1997 Swiney Lecturer, University of Edinburgh.
2009 Cecil and Ida Green Distinguished Visiting Chair, Texas Christian University

GEOLOGIC FIELD EXPERIENCE AND EXPEDITION LEADERSHIP

Forty years in: South American Andes (Chile, Argentina, Peru)[‡], Antarctica[‡], Scottish Highlands[‡], Laurentian Shield (High Arctic, Ontario, Quebec, Labrador, Wisconsin); Texas, European Alps, Norway, Brazilian Shield, southern Africa, Australia, New Zealand, Mexico, Madagascar, oceanic islands.

Leader of ~40 field expeditions in Antarctica, Patagonia, and Tierra del Fuego (see Appendix).

([‡] denotes region of special expertise)

FIELD TRIP LEADER AT PROFESSIONAL MEETINGS

1970 Geological Society of America Annual Meeting, Milwaukee, Wisconsin. Geology of the Baraboo District, Wisconsin (with R.H. Dott, Jr.).
1989 International Union of Geological Sciences, International Geological Congress, Washington, D.C. Field Trip, T180 Tectonics of the Scotia Arc.
2007 Geological Society, London and 10th International Symposium on Antarctic Earth Sciences, “In the Footsteps of Darwin; the Geology and Tectonics of Tierra del Fuego.” Nov.-Dec.

SHIPBOARD EXPERIENCE

Over twenty science cruises, many as Senior/Chief Scientist, including Leg 36 of Deep Sea Drilling Project (Co-Chief Scientist with P.F. Barker) (see Appendix).

TEACHING EXPERIENCE

Structural and field geology, tectonics and Earth history (Edinburgh, Wisconsin, Columbia, and Texas).

‘OUTREACH’ EXPERIENCE

May 2009—Interviewed for *Recurso Natural* (Natural Resource) produced by Promofilm Argentina and which airs on Argentina’s public television network. Discussed Earth’s evolution.
Numerous lectures and talks at universities, schools, societies, civic clubs etc., nationally and overseas; invited articles for encyclopedias, *Scientific American* etc.
1990—Present Talks at local schools (Eanes District, North Oaks, and Del Valle).

'OUTREACH' EXPERIENCE (CONTINUED)

UTIG Outreach program lectures

Consultant on Paleotectonics to Dynamic Earth, Texas Memorial Museum, Museum of Scotland, Scottish Heritage

Guest lecturer, 'Science Place,' Dallas, Texas.

2006—Led Boerne, Texas High School teachers and students on Tierra del Fuego project and field excursion

2008—"Live from Antarctica," interactive video conference with students at Glen Cove High School, New York.

LANGUAGES

Spanish (read—well; lecture and converse—adequately)

French (read—well; lecture and converse—rusty!)

PROFESSIONAL SOCIETIES

Geological Society of America – Fellow

American Geophysical Union – Member

Geological Association of Chile – Fellow

Royal Society of Edinburgh – Elected Fellow)

Geological Society of Argentina – Elected
Corresponding Fellow

Geological Society of Edinburgh – Elected
Corresponding Fellow

Geological Society of London – Honorary Fellow

MEMBERSHIP OF NATIONAL COMMITTEES

1969-1971 Panel on Geology and Solid Earth Geophysics, Committee on Polar Research, National Academy of Sciences.

1983-1986 Ad Hoc Committee on Antarctic Geoscience, Polar Research Board, National Research Council.

1988-1992 Polar Research Board, National Research Council and U.S. National Committee on Antarctic Research (Member of the Board).

1983-1986 Advisory Panel, Division of Polar Programs, National Science Foundation.

1984-1988 Advisory Committee, Office of Polar Programs, National Science Foundation.

1987-2000 Polar Research Board, National Research Council, ex-officio as Delegate to Scientific Committee on Antarctic Science of International Council of Scientific Unions.

1999-2006 US National Committee for Geological Sciences, The National Academies.

MEMBERSHIP OF INTERNATIONAL COMMITTEES

1986-1998 Convener, Group of Specialists on the Structure and Evolution of the Antarctic Lithosphere, Scientific Committee on Antarctic Research, International Council of Scientific Unions.

1986-1987 Member of Tectonics Panel, Ocean Drilling Program.

1988-1990 Chairman, Tectonics Panel, Ocean Drilling Program.

1970's Deep Sea Drilling Project Advisory Panel on the Antarctic Ocean

1987-88 Convener, Workshop on Antarctic Lithosphere (Supported by Division of Polar Programs, National Science Foundation).

Executive secretary and corresponding secretary for the United States, Scotia Arc Study Group of Working Group No. 2, International Geodynamics Project.

August 1977 Member of Steering Committee, SCAR-IUGS-IGC Symposium on Antarctic Geology and Geophysics, Madison, Wisconsin.

1987-1995 Member of Coordinating Committees 3 and 7 of International Commission on the Lithosphere, International Council of Scientific Unions.

MEMBERSHIP OF INTERNATIONAL COMMITTEES (CONTINUED)

1999-2001	Member of the Scientific Board, International Geological Correlation Project (IGCP), United Nations Educational, Scientific, and Cultural Organization and International Union of Geosciences.
2002-2004	Chairman of the Scientific Board, International Geosciences Project (formerly International Geological Correlation Project, IGCP), United Nations Educational, Scientific, and Cultural Organization and International Union of Geosciences.
2001-2006	Member of the Board, Canadian Lithoprobe Project.
2004-2007	International Coordinator and Member of US Organizing Committee, X th International Symposium on Antarctica Earth Science, Santa Barbara, California
2008	Member of International Screening Committee, XIII Gondwana Symposium, Yunnan Province, China.
2009	Member of organizing committee, Geological Society of London Fernor Symposium on Supercontinents

MEMBERSHIP OF UNIVERSITY OF TEXAS COMMITTEES

Vice-President for Research's Committee on Research Excellence.
 UTIG Public Relations Committee (Chair).
 UTIG Administrative Associates Oversight Committee.
 UTIG Development Committee (Chair).
 UTIG Public Relations Document Review Committee (Chair).
 UT Department of Geological Sciences, Post-Tenure Review Committee.
 2006-2007 Appointments Committee, Jackson School of Geosciences.
 2008 – Vice President for Research's Committee on Faculty Book Awards.

DOCTORAL STUDENTS

J.M. Brown	Wisconsin	1967	A.M. Grunow	Columbia	1988
S.J. Brocoum	Columbia	1971	K. Schmitt	Columbia	1991
I. Alterman	Columbia	1973	W.D. Cunningham	Texas	1993
R.L. Bruhn	Columbia	1976	K.A. Klepeis‡	Texas	1993
S. Dutch	Columbia	1976	P. Rowell‡	Texas	1993
R. Kligfield	Columbia	1978	F. Hutson‡	Texas	
M.A. Winslow	Columbia	1980	D.H.N. Barker‡	Texas	1997
R.D. Forsythe	Columbia	1981	F. Kong‡	Texas	1998
E.P. Nelson	Columbia	1981	S. Loewy‡	Texas	2002
R.B. Allen	Columbia	1983	T. Diehl‡	Texas	2008
T.J. Wilson	Columbia	1983			

MASTERS STUDENTS

J. Warren	Wisconsin	1966
S. Rothwell	Texas	1988
D. Carpenter‡	Texas	1997
C. Massell‡	Texas	1997
C. Schurr‡	Texas	1997
L. Konnecke‡	Texas	1997
M. Davis	Texas	2002

‡*co-supervised*

BIBLIOGRAPHY

(Miscellaneous non-reviewed contributions, abstracts, etc., in Appendix)

1. Volume edited as co-Chief Scientist

1977 Barker, P.F., Dalziel, I.W.D., *et al.*, *Initial Reports of Deep Sea Drilling Project*, v. 36. U.S. Government Printing Office, Washington D.C.

2. Geological Society of America Special Paper

1984 Dalziel, I.W.D., The tectonic evolution of a fore-arc terrane, southern Scotia Ridge, Antarctica, *Geological Society of America Special Paper* No. 200, 32 p.

3. Geological and Geophysical Maps

1985 Tectonic Map of the Scotia Arc. (50°-75°S; 1:3,000,000). British Antarctic Survey, Cambridge (Tectonic interpretation developed by Dalziel, I.W.D., Thomson, J.A., Thomson, M.R.A., and Storey, B.S.; South American Compilation by Dalziel, I.W.D.).

1992 Sandwell, D.T., Lawver, L.A., Dalziel, I.W.D., Smith, W.H.F., and Wiederspahn, M., A Composite AVHRR-GEOSAT Image of the Antarctic Plate. Institute for Geophysics, University of Texas at Austin.

4. Guidebooks

1970 Dalziel, I.W.D. and R.H. Dott, Jr., The geology of the Baraboo district, Wisconsin. A Monograph and Guidebook (for 83rd Annual Meeting of the Geological Society of America, Milwaukee, 1970). *Wisconsin Geology and Natural History Survey*, Information Circular No. 14, 194 p., 7 fold-out maps.

1989 Tectonics of the Scotia Arc. *Guidebook to Field Trip T180 of 28th International Geological Congress*, Washington, D.C., 1989, American Geophysical Union, Washington, D.C., 206 pp.

2007 Dalziel, I.W.D., *Guide to the Geology of Southern Patagonia and Tierra del Fuego* (with contributions by Dott, R.H., Jr., and Olivero, E). Bicentennial Guide Book of the Geological Society, London.

5. Published Conveners' Reports

1983 Dalziel, I.W.D. and D.H. Elliot, The Antarctic Plate: A global perspective. *Geology*, v. 11, p. 118-120 (Penrose Conference Report).

1994 Dalziel, I.W.D., A. Knoll, and E. Moores, Late Precambrian Tectonics and the Dawn of the Phanerozoic. *GSA Today*, v. 4, p. 8-9 (Penrose Conference Report).

1996 Dalziel, I.W.D., L. Dalla Salda, C. Cingolani, and A.R. Palmer, The Argentine Precordillera: A Laurentian Terrane? *GSA Today*, v. 6, p. 16-18 (Penrose Conference Report).

2001 Dalziel, I.W.D., Astini, R., Fettes, D.J., and Harris, A.L., The Iapetus Ocean: *GSA Today*, v. 11, p. 32-35 (Penrose Conference Report).

6. Reviewed Articles in Professional Journals and Symposium and Other Volumes.

1963 Dalziel, I.W.D. and M.R.W. Johnson, Evidence for the geological dating of the granitic gneiss of western Ardgour. *Geological Magazine*, v. 100, p. 244-254.

1963 Dalziel, I.W.D., Zircons from the granitic gneiss of western Ardgour, Argyll; their bearing on its origin. *Trans. Edinburgh Geol. Soc.*, v. 19, p. 349-362.

1965 Dalziel, I.W.D. and R.L. Brown, The structural dating of the sillimanite-grade metamorphism of the Moines in Ardgour (Argyll) and Moidart (Inverness-shire). *Scottish Journal of Geology*, v. 1, p. 304-311.

1966 Johnson, M.R.W. and I.W.D. Dalziel, Metamorphosed lamprophyres and the late thermal history of the Moines. *Geological Magazine*, v. 103, p. 240-249.

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- 1966 Dalziel, I.W.D., A structural study of the granitic gneiss of western Ardgour, Argyll and Inverness-shire. *Scottish Journal of Geology*, v. 2, p. 125-152.
- 1968 Dalziel, I.W.D. and S. W. Bailey, Deformed garnets in a mylonitic rock from the Grenville front and their tectonic significance. *American Journal of Science*, v. 266, p. 542-562.
- 1969 Dalziel, I.W.D., Brown, J. M., and T. E. Warren, The structural and metamorphic history of the rocks adjacent to the Grenville front near Sudbury, Ontario, and Mount Wright, Quebec, in Wynne-Edwards (Ed.), Age relations in high-grade metamorphic terrains. *Geological Association of Canada, Special Paper No. 5*, p. 207-224.
- 1969 Brown, R.L., Dalziel, I.W.D., and B.R. Rust, The structure metamorphism and development of the Boothia Arch, Arctic Canada. *Canadian Journal of Earth Sciences*, v. 6, p. 525-543.
- 1969 Dalziel, I.W.D., Pre-Permian history of the British Isles: A summary, in Kay (Ed.), *North Atlantic: Geology and continental drift*. American Association of Petroleum Geologists Memoir 12, p. 5-31.
- 1970 Brown, R.L., Dalziel, I.W.D., and M.R.W. Johnson, A review of the structure and stratigraphy of the Moinian of Ardgour, Moidart and Sunart, Argyll and Inverness-shire. *Scottish Journal of Geology*, v. 6, p. 309-335.
- 1971 Dalziel, I.W.D. and D.H. Elliot, Evolution of the Scotia Arc. *Nature*, v. 233, p. 246-252.
- 1971 Dalziel, I.W.D., Large-scale folding in the Scotia Arc, in R.J. Adie (Ed.), *Antarctic Geology and Geophysics*, Oslo, Universitetsforlaget, p. 47-55.
- 1972 Dalziel, I.W.D., K-Ar dating of rocks from Elephant Island, South Scotia Ridge. *Geological Society of America Bulletin*, v. 83, p. 1887-1894.
- 1972 Dalziel, I.W.D. and R. Cortés, Tectonic style of the southernmost Andes and the Antarctandes. Proceedings of the 24th International Geological Congress, Montreal, Canada, 1972, Section 3, p. 316-327.
- 1972 Dott, R.H., Jr., and I.W.D. Dalziel, Age and correlation of the Precambrian Baraboo quartzite of Wisconsin. *Journal of Geology*, v. 80, p. 552-568.
- 1973 Dalziel, I.W.D., Kligfield, R., Lowrie, W. and N.D. Opdyke, Paleomagnetic data from the southernmost Andes and the Antarctandes, in D.H. Tarling and S.K. Runcorn (Eds.), *Implications of Continental Drift to the Earth Sciences*, v. 1, Academic Press, London, p 87-101.
- 1973 Dalziel, I.W.D. and D.H. Elliot, The Scotia Arc and Antarctic Margin, in A.E.M. Nairn and F.G. Stehli (Eds.), *The Ocean Basins and Margins: 1. The South Atlantic*, Plenum Press, New York, p. 171-245.
- 1974 Dalziel, I.W.D., de Wit, M.J. and K.F. Palmer, Fossil marginal basin in the Southern Andes. *Nature*, v. 250, p. 291-294.
- 1974 Dalziel, I.W.D., Margins of the Scotia Sea, in C.A. Burk and C.L. Drake (Eds.), *The Geology of Continental Margins*, Springer-Verlag, New York, p. 567-579.
- 1974 Brocoum, S.F. and I.W.D. Dalziel, The Sudbury basin, the Southern Province, the Grenville Front, and the Penokean orogeny. *Geol. Soc. Amer. Bull.*, v. 85, p. 1571-1580.
- 1974 Dalziel, I.W.D., Caminos, P., Palmer, K.F., Nullo, F. and R. Casanova, South extremity of Andes: Geology of the Isla de los Estados, Argentina Tierra del Fuego. *Amer. Assoc. Petrol. Geol. Bull.*, v. 58, p. 2502-2512.
- 1975 Dalziel, I.W.D., Dott, R.H., Jr., Winn, R.D., Jr., and R.L. Bruhn, Tectonic relations of South Georgia Island to the southernmost Andes. *Geol. Soc. Amer. Bull.*, v. 86, p. 1034-1040.
- 1975 Dalziel, I.W.D., The sub-Antarctic islands, in R.W. Fairbridge (Ed.), *The Encyclopedia of World Regional Geology, Part 1: Western Hemisphere (including Antarctica and Australia)*, Dowden, Hutchinson and Ross, Inc., Stroudsburg, Pennsylvania, p. 465-480.
- 1975 Dalziel, I.W.D. and G. Stirewalt, The stress history of folding and cleavage development: Baraboo syncline, Wisconsin. *Geol. Soc. Amer. Bull.*, v. 86, p. 1671-1690.

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- 1976 Tarney, J., Dalziel, I.W.D., and M.J. de Wit, Marginal basin 'Rocas Verdes' complex from S. Chile: A model for Archaean greenstone belt formation, *in*: B.F. Windley (Ed.), *Early History of the Earth*, Wiley, London, p. 131-146.
- 1977 Bruhn, R.L. and I.W.D. Dalziel, Destruction of the Early Cretaceous marginal basin in the Andes of Tierra del Fuego, *in* M. Talwani and W.C. Pitman, III (Eds.), *Maurice Ewing Series, Vol. I: Island Arcs, Deep Sea Trenches, and Back-Arc Basins*, Am. Geophys. Union, Washington, p. 395-405.
- 1977 Kligfield, R., Lowrie, W. and I.W.D. Dalziel, Magnetic susceptibility anisotropy as a strain indicator in the Sudbury basin, Ontario. *Tectonophysics*, v. 40, p. 287-308.
- 1977 Barker, P.F., Dalziel, I.W.D., *et al.*, Introduction and Reports on Sites 326, 327, 328, 329, 330 and 331 (Chapters 1 to 7), *in*: P.F. Barker, I.W.D. Dalziel *et al.*, *Initial Reports of the Deep Sea Drilling Project*, v. 36, U.S. Government Printing Office, Washington, D.C.
- 1977 Barker, P.F., Dalziel, I.W.D., *et al.*, The evolution of the southwestern Atlantic Ocean Basin: Leg 36 data, *in*: P.F. Barker, I.W.D. Dalziel, *et al.*, v. 36, U.S. Government Printing Office, Washington D.C.
- 1979 Dalziel, I.W.D. and K.F. Palmer, Progressive deformation and orogenic uplift at the southernmost extremity of the Andes. *Geol. Soc. Amer. Bull.*, v. 90, p. 259-280.
- 1979 Saunders, A.D., Tarney, J., Stern, C.R., and I.W.D. Dalziel, Geochemistry of Mesozoic marginal basin floor igneous rocks from southern Chile. *Geol. Soc. Amer. Bull.*, v. 90, p. 237-258.
- 1980 Nelson, E.P., Dalziel, I.W.D. and A.G. Milnes, Structural Geology of the Cordillera Darwin—Collisional-style orogenesis in the southernmost Chilean Andes. *Eclogae Geologicae Helveticae*, v. 73, p. 727-751.
- 1981 Dalziel, I.W.D., Elliot, D.H., Jones, D.L., Thomson, J.W., Thomson, M.R.A., Wells, N.A. and W.J. Zinsmeister, Triassic fossils from the South Orkney Islands, Scotia Ridge, and their geological significance. *Geological Magazine*, v. 118, p. 15-25.
- 1981 Dalziel, I.W.D., Back-arc extension in the southern Andes: A review and critical reappraisal. *Phil. Trans. R. Soc. Lond.*, v. A300, p. 319-335.
- 1982 Dalziel, I.W.D. and D.H. Elliot, West Antarctica: Problem child of Gondwanaland. *Tectonics*, v. 1, p. 3-19.
- 1982 Dalziel, I.W.D., Pre-Jurassic history of the Scotia Arc region, *in*: C. Craddock (Ed.), *Antarctic Geoscience*, University of Wisconsin Press, Madison, Wisconsin, p. 111-126.
- 1983 Barker, P.F. and I.W.D. Dalziel, Progress in Geodynamics in the Scotia Arc region, *in* R. Cabre, S.J. (Ed.), *Geodynamics of the Eastern Pacific Region, Caribbean and Scotia Arcs*, Geodynamic Series, Amer. Geophys. Union, v. 9, 137-170.
- 1983 Dalziel, I.W.D., Evolution of the Scotia Arc: A review, *in* R.L. Oliver, P.R. James and J. B. Jago, (Eds.), *Antarctic Earth Science*, Australian Academy of Science, Canberra, p. 283-288.
- 1983 Doake, C.S.M., Crabtree, R.D. and I.W.D. Dalziel, Sub-glacial morphology between Ellsworth Land and Antarctic Peninsula, *in* R.L. Oliver, P.R. James and J. B. Jago (Eds.), *Antarctic Earth Science*, Australian Academy of Science, Canberra, p. 270-273.
- 1985 Dalziel, I.W.D. and R.F. Forsythe, Andean evolution and the terrane concept, *in* D.G. Howell (Ed.), *Tectonostratigraphic Terranes of the Circum-Pacific Region*, Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, Proceedings of the Circum-Pacific Terranes Conference, American Association of Petroleum Geologists, v. 1, p. 565-581.

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- 1985 Dalziel, I.W.D. and A.M. Grunow, The Pacific margin of Antarctica: Terranes within terranes, in D.G. Howell (Ed.), *Tectonostratigraphic Terranes of the Circum-Pacific Region*, Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, Proceedings of the Circum-Pacific Terranes Conference, American Association of Petroleum Geologists, v. 1, p. 555-564.
- 1986 Dalziel, I.W.D., Collision and Cordilleran orogenesis: An Andean Perspective, in Coward, M.P. and A.C. Ries (Eds.), *Collision Tectonics*, Geological Society of London Special Publication No. 19, p. 389-404.
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- 1987 Storey, B.C. and I.W.D. Dalziel, Outline of the Structural and Tectonic History of the Ellsworth Mountains-Thiel Mountains Ridge, West Antarctica, in Gary D. McKenzie (Ed.), *Gondwana Six: Structure, Tectonics, and Geophysics*, American Geophysical Union, Geophysical Monograph Number 40, p. 117-128.
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IAN W. D. DALZIEL
APPENDIX TO CURRICULUM VITAE

TEACHING EXPERIENCE

- Structural geology** Conducted laboratory and undergraduate field classes in Edinburgh (1959-63); in charge of structural geology teaching at undergraduate and graduate levels University of Wisconsin (1963-66) and Columbia University (1967-1985); conducted course in Tectonic History of the Continents at The University of Texas at Austin (1986-1988) and occasional lectures (1989-Present).
- Field geology** Conducted field trips and field courses in Edinburgh, Wisconsin, and Columbia (1959-1985); directed field research of graduate students at Texas 1985-Present.

FIELD EXPERIENCE

- 1957 Gravity survey of East Anglia, England, with geophysical unit of H.M. Geological Survey.
- 1958 Summer field study in Alps under Professor W.D. Gill of Imperial College, London (1 month).
- 1958 Mapping of strongly deformed L. Paleozoic sediments in Southern Uplands of Scotland under Professors E.K. Walton and G.Y. Craig (2 months).
- 1959-63 Detailed structural field work for Ph.D. thesis in Moinean of Scottish Highlands (3-4 months per year).
- 1964-66 Detailed structural studies along Grenville Front in Ontario, Quebec, and Labrador, Canadian Shield (2 months per year).
- 1965-67 Study of structures in granulite facies rocks, Churchill Province of Canadian Shield, Arctic Canada (6 weeks each year).
- 1967 Completion of work in Scottish Caledonides (8 weeks).
- 1968 Study of recent fault zone in Alaska (1 month).
- 1968 Structural studies in Precambrian of southcentral Wisconsin (2 months).
- 1969 Structural studies in S. Shetland Islands; Scotia Arc (2 months).
- 1969 Structural studies in Precambrian of southcentral Wisconsin (1 month).
- 1969 Structural studies in southernmost Andes and S. Shetland Islands, Scotia Arc (2 months).
- 1969 Structural studies in Precambrian of southwest Wisconsin (2 months).
- 1970 Structural studies in southernmost Andes, S. Shetland Islands and Antarctic Peninsula (3 months).
- 1971 South Orkney Islands (2 months).
- 1972 Structural studies in southernmost Andes (3 months).
- 1972 Study of meteor impact site at Sudbury, Ontario (1 month).
- 1973 Structural studies on South Georgia Island, North Scotia Ridge (2 months).
- 1974 Structural and petrologic studies in southern Andes (1 month).
- 1975 Structural and petrologic studies in southern Andes (2 months).
- 1976 Structural and petrologic studies in South Shetland Islands and southern Andes (3 months).
- 1977 Structural studies in South Orkney Islands and southern Andes (2 months).
- 1976-77 Field experience in Western Alps and Mediterranean region.
- 1978 Six weeks field work southernmost Andes.
- 1978 Eight weeks field study in Alps, Apennines and Corsica.
- 1978 Eight weeks field work in Cordillera Darwin, southern Andes.
- 1979 Five weeks field work in Patagonian Andes.
- 1979 Brief field season in Cape fold belt, S. Africa.
- 1979-80 Ellsworth Mountain Expedition, Antarctica (6 weeks).
- 1980 Four weeks field work in New Zealand.
- 1980 Field season in southern Andes.

FIELD EXPERIENCE

- 1981-82 Two months field work in Andean foothills of Chilean Patagonia and Argentine Tierra del Fuego.
- 1983 Three months field work in Patagonia and Tierra del Fuego.
- 1983-84 Field work in West Antarctica (2 months).
- 1984 Field work in Cordillera Darwin, Tierra del Fuego (1 month).
- 1984 Field work in the Brazilian shield (1 month).
- 1984-85 Field work in West Antarctica (2 months).
- 1985 Field work, South Georgia Island, Scotia Arc (1 month).
- 1986 Field work, Isla de los Estados, Argentina (1 month).
- 1986-87 Field work, South Shetland Islands (6 weeks).
- 1987 Field work, Cordillera Darwin, Chilean Andes (1 month).
- 1987-88 Field work, Pensacola Mountains, Antarctica (2 months).
- 1990-91 Field work, Marie Byrd Land, Antarctica (2 months).
- 1991 Field work, Tierra del Fuego, (1 month).
- 1992 Field work, Marie Byrd Land, Antarctica (2 months).
- 1993-94 Field work, Shackleton Range, Antarctica (2 months).
- 1995 Field work, Kimberley Basin, Australia (6 weeks)
- 1995 Field work, NW Argentina and northern Chile (3 weeks)
- 1996 Field work, Antarctica (35 days)
- 1997 Field work, Madagascar (14 days)
- 1998 Field work, Tierra del Fuego & Falkland Islands (4 weeks)
- 1998 Field work, western Ireland (10 days)
- 1998 Field work, Western Australia (1 week)
- 1998 Field work, Scotland (2 weeks)
- 1999 Field work, southwestern Africa, (4 weeks)
- 2000 Field work, northern Highlands of Scotland
- 2000 Field work, Peru
- 2001 Field work, Scottish Highlands
- 2001 Field work, southern Africa
- 2002 Field work, Scottish Highlands (2 weeks)
- 2002 Field work, southern Africa (4 weeks)
- 2002 Field work, Antarctica (4 weeks)
- 2003 Field work, Antarctica (4 weeks)
- 2004 Field work, Ireland (2 weeks)
- 2005 Field work, Argentina (2 weeks)
- 2005 Field work, Scottish Highlands (1 week)
- 2005 Field work, Western Australia coast (2 weeks)
- 2005 Field work, Antarctica (4 weeks)
- 2005-2006 Field work, Antarctica (8 weeks)
- 2007 Field work, Tanzania (4 weeks)
- 2008-2009 Field work, Antarctica (6 weeks)

SHIPBOARD EXPERIENCE

- 1969 Four months' field work from USCGC *Edisto* and R/V *Hero* in South Shetland Islands and Patagonian Canals.
- 1970 One month field work from USCGC *Glacier* in South Shetland Islands and Antarctic Peninsula.
- 1971 Senior Scientist, Cruise 71-1 of R/V *Hero*, Palmer Station, Antarctica, to Punta Arenas, Chile (February and March).

SHIPBOARD EXPERIENCE

- 1972 Senior Scientist, Cruise 72-2 of R/V *Hero*, Punta Arenas, Chile—Isla de los Estados, Argentina—Punta Arenas, Chile (April and May).
- 1974 Co-Chief Scientist of D/V *Glomar Challenger*, Deep Sea Drilling Project Leg 36 (Ushuaia, Argentina—Rio de Janeiro, Brazil).
- 1975 Senior Scientist, Cruise 75-4 of R/V *Hero*, Punta Arenas, Chile-Puerto Montt, Chile (June and July).
- 1976 Senior Scientist, Cruise 76-1 of R/V *Hero*, Ushuaia, Argentina-Ushuaia, Argentina (January and February).
- 1977 Senior Scientist, Cruise 77-1 of R/V *Hero*, Ushuaia, Argentina-South Orkney Islands-Ushuaia, Argentina (January).
- 1978 Senior Scientist, Cruise 78-2 of R/V *Hero*, Cordillera Darwin, southern Andes (May and June).
- 1979 Principal Investigator, Cruises 79-5 and 79-6 of R/V *Hero*, Patagonian Andes (June and July).
- 1981 Lecturer for Smithsonian Institution Antarctic Study Cruise, M.S. *World Discoverer*.
- 1983 Senior Scientist, Cruise 83-4 of R/V *Hero*, Chilean Tierra del Fuego.
- 1984 Senior Scientist, Cruise 84-3 of R/V *Hero*, Chilean Tierra del Fuego.
- 1985 Senior Scientist, Cruise 85-4 of R/V *Polar Duke*, South Georgia Island.
- 1986 Chief Scientist, Cruise 86-4 of R/V *Polar Duke*, Joint US-Argentine Cruise, Isla de los Estados, Argentina.
- 1986-87 Co-Chief Scientist, USCGC *Glacier*, December-January Antarctic Cruise.
- 1987 Chief Scientist, R/V *Polar Duke*, January 1987, Elephant Island.
- 1987 Chief Scientist, Cruise 87-3 of R/V *Polar Duke*, Cordillera Darwin, Chilean Andes.
- 1989 Chief Scientist, Cruise 89-1 of R/V *Polar Duke*, Tectonics of the Scotia Arc.
- 1992 Chief Scientist, Cruise 92-1 of USCGC *Polar Sea*, Marie Byrd Land and Pine Island Bay, Antarctica.
- 2000 Co-PI, Cruise of R/V *Nathaniel B. Palmer* for NSF project “The young marginal basin as a key to understanding the rift-drift transition and Andean Orogenesis: OBS Refraction profiling for crustal structure in Bransfield Strait”
- 2000 Co-PI, 2nd cruise of R/V *Nathaniel B. Palmer* for NSF project above.
- 2008 Chief Scientist and co-PI, R/V *Nathaniel B. Palmer* Cruise 08-05, Central Scotia Sea

CONVENER OF WORKSHOPS, CONFERENCES, ETC.

- July 1989 Convener, Poster Session on Antarctic Geology, 28th International Geological Congress, Washington, D.C.,
- March 1996 Convener, Symposium on Origin and Evolution of Ouachita Embayment, South-Central GSA Meeting, Austin, Texas.
- 1997 Convener, Symposium on the Iapetus Ocean Basin, Geological Society of America Annual Meeting, Salt Lake City, Utah,
- 1999 Co-Convener, Symposium on Antarctic Neotectonics, European Union of Geosciences, Strasbourg, France,

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