

## **Supplementary Material**

### **Stuart Ross Taylor 1925–2021**

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# **Stuart Ross Taylor AC FAA NAS HonFRSNZ (1925-2021)**

## **Education and Degrees**

Wakanui Primary School, New Zealand

Ashburton High School, New Zealand

BSc, University of New Zealand, Christchurch, 1948

MSc, University of New Zealand, Christchurch, 1951 (First Class Honours)

PhD, Indiana University, 1954 (Supervisor: Brian Mason)

MA, University of Oxford, 1956 (Christ Church College)

DSc, University of Oxford, 1978

## **Professional Appointments**

Department Demonstrator, Department of Geology and Mineralogy, University of Oxford, 1954-5

University Demonstrator and Lecturer, Department of Geology and Mineralogy, University of Oxford, 1956-8

Senior Lecturer in Geochemistry, Geology Department, University of Cape Town, 1958-60

Senior Fellow, Department of Geophysics, Research School of Physical Sciences, Australian National University, 1961

Professorial Fellow, Department of Geophysics and Geochemistry, Research School of Physical Sciences, Australian National University, 1962-73

Professorial Fellow, Research School of Earth Sciences, Australian National University, 1973-90

Visiting Fellow, Department of Nuclear Physics, Research School of Physical Sciences and Engineering, Australian National University, 1990-2000

Emeritus Professor & Visiting Fellow, Department of Earth and Marine Sciences (Geology), Australian National University, 2000-8

Emeritus Professor & Visiting Fellow, Research School of Earth Sciences, Australian National University, 2008-21

## **Visiting Appointments**

Visiting Professor, Department of Chemistry, University of California, San Diego, La Jolla, California, 1966-7

Visiting Scientist, Lunar and Planetary Institute (Lunar Science Institute, 1968-1978), Houston, Texas, 1969, 1972, 1973, 1974, 1975, 1976, 1979, 1980, 1981, 1982, 1985, 1987, 1989, 1990, 1995, 1997, 2005

Visiting Professor, Max Planck Institute für Chemie, Mainz, Germany, 1973, 1996  
Visiting Professor, Department of Geochemistry, University of Rome, Italy, 1973  
Jane and Roland Blumberg Professor in Planetary Sciences, University of Texas at Austin, 1990  
Visiting Professor, Institute for Geochemistry, University of Vienna, Austria, 1992, 1996, 2000  
Ernst Cloos Scholar, Johns Hopkins University, Baltimore, Maryland, 1997  
Vikram A. Sarabhai Professor, Physical Research Laboratory, Ahmedabad, India, 2004

## **Awards and Honours**

Sir Julius von Haast Prize in Geology, University of New Zealand, 1951  
Fellow, The Meteoritical Society, 1976  
Fellow, Australian Academy of Science, 1978  
Honorary Fellow, Geological Society of India, 1978  
Honorary Fellow, Geological Society of London, 1982  
Richard Owen Award, Indiana University, 1986 (awarded to 'alumni who have performed outstanding service to the geological sciences')  
Norman L. Bowen Award, American Geophysical Union, 1989 (for 'important contributions to our understanding of the origins and early history of Earth and Moon')  
Honorary Fellow, Royal Society of New Zealand, 1989  
Goldschmidt Medal, Geochemical Society, 1993 (for 'major achievements in geochemistry and cosmochemistry')  
G.K. Gilbert Award in planetology, Geological Society of America, 1994 (for 'outstanding contributions to the solution of a fundamental problem in planetary geology')  
Foreign Associate, United States National Academy of Sciences, 1994  
Fellow, American Geophysical Union, 1995  
Clarke Memorial Lecturer, Royal Society of New South Wales, 1995  
Geochemistry Fellow, Geochemical Society and European Association of Geochemistry, 1996  
Asteroid 5670 named Rosstaylor, International Astronomical Union, 1997  
Leonard Medal, The Meteoritical Society, 1998 (for 'innovative research in meteoritics resulting in contributions of fundamental importance to our knowledge of the origin and history of the solar system')  
Walter H. Bucher Medal, American Geophysical Union, 2002 (for 'original contributions to the basic knowledge of crust and lithosphere')  
Masursky Lecturer, Lunar & Planetary Science Conference, Houston, Texas, 2004  
Heritage Fellow, Lunar and Planetary Institute (Houston), 2005

Companion of the Order of Australia (AC), 2008 ('for outstanding service to science, particularly in the fields of geochemistry and cosmochemistry as a researcher, writer and educator')

Mary B. Ansari Best Reference Work Award, Geoscience Information Society (for *Planetary Crusts: Their Composition, Origin and Evolution*), 2010

Eugene Shoemaker Distinguished Scientist Medal, National Aeronautics and Space Administration (NASA), 2012 (awarded to 'scientists who have significantly contributed to the field of lunar and/or asteroid science throughout the course of their scientific careers')

## **Editorial Appointments**

Associate Editor, *Geochimica et Cosmochimica Acta*, 1964-2000

Associate Editor, *Lunar Science Conference Proceedings*, 1970-1

Editorial Board, *Chemical Geology*, 1974-2000

Editorial Board, *Journal of Geodynamics*, 1982-90

Editorial Board, *Journal of Lanthanide and Actinide Research*, 1984-90

Associate Editor, *Meteoritics and Planetary Science*, 1987-2002

## **Other Professional Service and Activities**

Member, Lunar Sample Preliminary Examination Team (LSPET), Apollo 11 and 12, 1969-70\*

Principal Investigator, NASA Lunar Science Program, 1970-90

Member, Australian National University Council, 1971-6

Member, Lunar Science Review Panel, NASA, 1975-7

Member, NASA Basaltic Volcanism Study Project, 1977-9

Chair, National Committee for Geology & Geochemistry, Australian Academy of Science, 1980

Council Member, International Association of Geochemistry and Cosmochemistry, 1980-3

Member, School Geology Project Committee, Australian Academy of Science, 1980-3

Consultant, United Nations Development Project, Beijing, China, 1983

Council Member, The Meteoritical Society, 1983-6

Member, Commission on Comparative Planetology, IUGS, 1984-9

Member, Geochemical Society and The Meteoritical Society Joint Publications Committee (*Geochimica et Cosmochimica Acta*, *Meteoritics and Planetary Science*), 1985-90, 1994-7

Member, CSIRO Postdoctoral Awards Committee, 1986

Vice-President, The Meteoritical Society, 1987-8

Foreign Council Member, Geochemical Society, 1987-90

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\* Invited to participate in Apollo 13 LSPET, but mission was aborted during transit to the Moon.

President, The Meteoritical Society, 1989-90

Member, Board of Advisors, The Planetary Society, 1990-2000

Bureau Member, International Lithosphere Program (IUGS-IUGG), 1994-6

International Secretary, Geochemical Society, 1997-2000

Chair, House Committee, Australian Academy of Science, 2009

Member, Walter H. Bucher Medal Committee, American Geophysical Union, 2012-4

## Bibliography

*This bibliography should be considered essentially complete although some publications that are not listed in online indexes or other available sources may have been inadvertently excluded. Extended abstracts from Lunar and Planetary Science Conferences (LPSC; and their predecessor Lunar Science Conferences, LSC) and workshops sponsored by the Lunar and Planetary Institute (LPI) are included and identified by an asterisk (\*). These represent an integral component of Ross Taylor's research efforts, may contain otherwise unreported research, and are archived online by LPI and thus readily available. Routine conference abstracts are not included although several notable extended abstracts ( $\geq 3$  pages) are. Books are highlighted in a bold font.*

1. Taylor, S.R. (1950) *The Geology of the Stonyhurst district, North Canterbury, New Zealand*, M.Sc. Thesis (2 Vol. and Map), Canterbury University College, University of New Zealand, Christchurch.
2. Taylor, S.R. (1954) *Geochemistry of Some New Zealand Igneous and Metamorphic Rocks*, Ph.D. Thesis, Indiana University, Bloomington, Indiana, 94pp.  
<https://www.proquest.com/pgdtglobal/docview/301968681/fulltextPDF/AFC2FCD108654D81PQ/1?accountid=14172>
3. Mason, B. and Taylor, S.R. (1955) The petrology of the Arahura and Pounamu Series in the Kokatahi River, North Westland, *Trans. Roy. Soc. New Zealand*, **82**, 1061-1070.
4. Taylor, S.R. (1955) The origin of some New-Zealand metamorphic rocks as shown by their major and trace element composition, *Geochim. Cosmochim. Acta*, **8**, 182-197.
5. McKerrow, W.S., Taylor, S.R., Blackburn, A., and Ahrens L.H. (1956) Rare alkali elements in trilobites, *Geol. Mag.*, **93**, 504-516.
6. McKerrow, W.S., Taylor, S.R., Blackburn, A., and Ahrens L.H. (1956) Occurrence of caesium in fossils, *Nature*, **178**, 204.
7. Taylor, S.R., Emeleus, C.H., and Exley, C.S. (1956) Some anomalous K/Rb ratios in igneous rocks their petrological significance, *Geochim. Cosmochim. Acta*, **10**, 224-229.
8. Taylor, S.R. and Heier, K.S. (1958) Rubidium depletion in feldspars, *Nature*, **182**, 202-203.
9. Moorbath, S., Taylor, S.R., and Upton, B.G.J. (1958) Age of zircon from the Kunait Syenite Complex, south-west Greenland, *Geol. Mag.*, **95**, 149-152.
10. Heier, K.S. and Taylor, S.R. (1959) Distribution of Li, Na, K, Rb, Cs, Pb and Tl in southern Norwegian Pre-Cambrian alkali feldspars, *Geochim. Cosmochim. Acta*, **15**, 284-304.
11. Taylor, S.R. and Ahrens, L.H. (1959) The significance of K/Rb ratios for theories of tektite origin, *Geochim. Cosmochim. Acta*, **15**, 370-372.

12. Cherry, R.D. and Taylor, S.R. (1959) Origin of Be<sup>10</sup> and Al<sup>26</sup> in tektites, *Geochim. Cosmochim. Acta*, **17**, 176-185.
13. Heier, K.S. and Taylor, S.R. (1959) Distribution of Ca, Sr and Ba in southern Norwegian Pre-Cambrian alkali feldspars, *Geochim. Cosmochim. Acta*, **17**, 286-304.
14. Brooks, R.R., Ahrens, L.H., and Taylor, S.R. (1960) The determination of trace elements in silicate rocks by a combined spectrochemical – anion exchange technique, *Geochim. Cosmochim. Acta*, **18**, 162-175.
15. Taylor, S.R., Heier, K.S., and Sverdrup, T.L. (1960) Contributions to the mineralogy of Norway. No. 5. Trace element variations in three generations of feldspars from the Landsverk I pegmatite, Evje, southern Norway, *Norsk Geol. Tidsskr.*, **40**, 133-156.
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20. Taylor, S.R. (1960) Occurrence of alkali metals in some Gulf of Mexico sediments: Amended rubidium values and K/Rb ratios, *J. Sed. Petrol.*, **30**, 317-323.
21. Ahrens, L.H., Edge, R.A., and Taylor, S.R. (1960) The uniformity of concentration of lithophile elements in chondrites – with particular reference to Cs, *Geochim. Cosmochim. Acta*, **20**, 260-272.
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28. Taylor, S.R. and Sachs, M. (1961) Abundance and distribution of alkali elements in Victorian australites, *Geochim. Cosmochim. Acta*, **25**, 223-228.
29. Taylor, S.R. (1962) Meteoritic and terrestrial rare earth abundance patterns, *Geochim. Cosmochim. Acta*, **26**, 81-88.
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33. Taylor, S.R. (1962) Book review of *Structure of the Moon's Surface* by G. Fielder, *Geochim. Cosmochim. Acta*, **26**, 975.
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35. Taylor, S.R. and Sachs, M. (1964) Geochemical evidence for the origin of australites, *Geochim. Cosmochim. Acta*, **28**, 235-264.
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52. Taylor, S.R. (1965) Enrichment of iron during accretion in the solar nebula, *Nature*, **208**, 886-887.
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54. Taylor, S.R. (1965) Geochemical analysis by spark source mass spectrography, *Geochim. Cosmochim. Acta*, **29**, 1243-1261.
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61. Heier, K.S., Palmer, P.D., and Taylor, S.R. (1967) Comment on the Pb distribution in southern Norwegian Precambrian alkali feldspars, *Norsk. Geol. Tidsskr.*, **47**, 185-189.
62. Taylor, S.R. (1967) Composition of meteorite impact glass across the Henbury strewnfield, *Geochim. Cosmochim. Acta*, **31**, 961-968.
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64. Taylor, S.R., Ewart, A., and Capp, A.C. (1968) Leucogranites and rhyolites: Trace element evidence for fractional crystallisation and partial melting, *Lithos*, **1**, 179-186.
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