

**ANDREW GREGOR CHRISTY, M.A., Ph.D. (*Cantab*), FMinSoc
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ABS-91. Mills SJ, **Christy AG**, Kampf AR, Housley RM, Thorne B, Marty J (2015) The relationship between mineral composition, crystal structure and paragenetic sequence: understanding secondary Te mineralization at Otto Mountain, California. Desert Symposium 2015, California State University Desert Studies Center, Zzyzx, San Bernardino Co, California. 17-20 Apr. 2015 (poster).

ABS-90. Burne RV, Moore LS, **Christy AG**, Troitzsch U, Carnerup AM and Hamilton PJ (2014) Early Mg-silicate biomineralization of carbonate microbialites in Lakes Clifton and Preston, southwest Western Australia,: significance for Pre-Salt reservoir development. Digital Core Consortium annual meeting, Canberra, 18 – 19 Nov. 2014 (poster).

ABS-89. Mills SJ, **Christy AG** (2014) Australia: towards IMA 2018. International Mineralogical Association 21st General Meeting, Johannesburg, South Africa, 31 Aug – 5 Sept 2014.

ABS-88. Génin J-MR, **Christy A**, Ruby C, Mills S (2014) Structure and occurrences of «green rust» related new minerals of the «fougérite» group, trébeurdenite and mössbauerite, belonging to the «hydrotalcite» supergroup; how Mössbauer spectroscopy helps XRD. International Mineralogical Association 21st General Meeting, Johannesburg, South Africa, 31 Aug – 5 Sept 2014.

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ABS-81. Grew ES, Maas R, **Christy AG**, Carson CJ, Yates MG, Boger SD (2013) A-type granites of Prydz Bay, Antarctica: products of melting of a two-component granulite crust? Goldschmidt Geochemistry Conference, Firenze, Italy, 25-30 Aug. 2013.

ABS-80. **Christy AG**, Mills SJ (2013) The effect of lone-pair distortions on polyhedral volume: the example of Te^{IV}O₆ polyhedra. Specialist Group for Geochemistry, Mineralogy and Petrology of the Geological Society of Australia, Biennial Meeting, Townsville/Mission Beach, 14-20 July, 2013.

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ABS-77. Zhang GB, Zhang LF, **Christy AG** (2012) From oceanic subduction to continental collision: an overview of HP-UHP metamorphic rocks in the North Qaidam UHPM belt. 34th International Geological Congress/Australian Earth Sciences Convention, Brisbane, 5-10 Aug. 2012 (poster).

ABS-76. **Christy AG**, Ellis DJ, Sato K (2012) Element fractionation between immiscible melts in the K₂O-CaO-Al₂O₃-SiO₂-TiO₂-ZrO₂ system. 34th International Geological Congress/Australian Earth Sciences Convention, Brisbane, 5-10 Aug. 2012.

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ABS-62. **Christy AG**, Carnerup AM (2010) Are Archaean microfossils really biomorphs? Australian Earth Sciences Convention, Canberra, 4-8 July 2010 (invited talk).

ABS-61. **Christy AG**, Zhang G, Ellis DJ (2010) Pressure-dependent Zr-in-rutile thermometry of western Chinese eclogites from varied tectonic settings. Australian Earth Sciences Convention, Canberra, 4-8 July 2010 (poster).

ABS-60. **Christy AG** (2010) What really controls coordination number in mineral crystal structures? Australian Earth Sciences Convention, Canberra, 4-8 July 2010.

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ABS-56. Maulana A, Ellis DJ, **Christy AG** (2010) Petrology, geochemistry and tectonic evolution of the South Sulawesi basement rocks, Indonesia. *Proceedings of the 34th Annual Convention of the Indonesian Petroleum Association*, IPA1-G-192. Jakarta, 18-20 May, 2010. 26pp.

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ABS-54. **Christy AG**, Mills SJ (2009) Improved bond valence parameters for Sb(III) and Sb(V), demonstrating coordination number independence of parameters. Biennial conference of the Specialist Group for Geochemistry, Mineralogy and Petrology of the Geological Society of Australia, Kangaroo Island, South Australia, 8-13 Nov., 2009. (poster).

ABS-53. Kawakami T, Hirashima T, Ellis DJ, **Christy A**, Zhang L (2009) UHT sulfide-oxide assemblage preserved in eclogites from North Qaidam, China . Japan Association of Mineral Sciences Annual Meeting Abstracts, Hokkaido University, Sapporo, 8-10 Sep., 2009.

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ABS-51. Brown JL, Ellis DJ, **Christy AG**, Arculus RJ (2008) Silicate-sulfide-oxide phase equilibria in subduction zones. *Eos Trans. AGU*, **89**(53), Fall Meet. Suppl. Abstract V24B-07. American Geophysical Union Fall Meeting, San Francisco, CA, USA, 15-19 December, 2008.

ABS-50. Birmingham KR, **Christy AG**, Norman MD (2008) Investigating early differentiation of igneous asteroids - a new variety of eucrite? 86th Annual meeting of the German Mineralogical Society (Deutsche Mineralogische Gesellschaft), Berlin, Germany, 14-17 Sept, 2008.

ABS-49. Rode AV, Arčon D, **Christy AG**, Madsen NR, Luther-Davies B (2008) Towards the origin of positive magnetisation in carbon nanoclusters. *Proceedings of the International Conference on Electronic Materials 2008, IUMRS-IECM 2008*, Sydney, Australia, 28 July – 1 August 2008.

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ABS-47. Welch SA, Kirste D, **Christy AG**, Beavis F, Beavis SG (2008) Jarosite reactivity and trace metal geochemistry in acid sulfate soils. Goldschmidt 2008 Geochemistry Conference, Vancouver, Canada, 13 -18 July, 2008. *Geochim. Cosmochim. Acta* **72**: A1013 Suppl. (poster).

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ABS-44. Troitzsch U, **Christy AG**, Willis AC, Ellis DJ (2008) Synthesis and crystal structure of CuZrTiO₅, a new inorganic compound. Annual meeting, Deutsche Gesellschaft für Kristallographie, Hannover, Germany, 8-12 March, 2008.

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ABS-40. Rode AV, **Christy AG**, Gamaly EG, Luther-Davies B, Arcon D, Jaglicic Z, Zorko A (2007), Magnetic carbon nanoclusters formed by MHz-pulse-rate laser ablation. *18th European Conference on Diamond, Diamond-Like Materials, Carbon Nanotubes, and Nitrides*, Berlin, Germany, 9-14 Sept, 2007.

ABS-39. Carson CJ, Grew ES, Boger SD, Fanning CM, **Christy AG** (2007) Age of boron- and phosphorus rich paragneisses in the Larsemann Hills: New constraints from SHRIMP U-Pb data on detrital zircon and associated orthogneisses. 10th International Symposium on Antarctic Earth Sciences, University of California Santa Barbara, 26 -31 Aug, 2007. *U S Geological Survey and the National Academies; USGS OF-2007-1047 Extended Abstract 097*.

ABS-38. Troitzsch U, Ellis DJ, **Christy AG** (2007) Discovery of new phases in the ZrO₂-TiO₂ system (poster). Goldschmidt 2007 Geochemistry Conference, Köln, Germany, 19 -24 Aug, 2007.

ABS-37. **Christy AG** (2006) A continuum model for geometrical and topological properties of polyhedral tilings. Invited Lecture, Mathematical and Theoretical Crystallography Satellite Meeting of Asian Crystallographic Association Conference, Tsukuba, Japan, 18-19 Nov, 2006.

ABS-36. Kawakami T, Ellis DJ, **Christy AG** (2006) Sulfide evolution in high-temperature to ultrahigh-temperature metamorphic rocks from the Lützow-Holm Complex, East Antarctica. The 4th KAGI21 International Symposium Kyoto, 2006. (Kyoto) Program & Abstracts, p.81.

ABS-35. Rode AV, Arčon D, Zorko A, Jagličič Z, **Christy AG**, Madsen NR, Luther-Davies B, Lau DWM, McCulloch DG (2007) Positive Magnetisation in Carbon Nanoclusters Produced by High-Repetition-Rate Laser Ablation. *Material Research Society 2007 Spring Meeting*, San Francisco, USA, April 8-13 2007; *Mater. Res. Soc. Symp. Proc.* **998**, p 0998-J03-05.

ABS-34. Gunton C, **Christy AG**, McPhail DC (2006) The influence of chloride and sulfate on Cu and Zn adsorption on goethite. Goldschmidt 2006 Geochemistry Conference, Melbourne, Australia, 27 Aug - 1 Sept, 2006. *Geochim. Cosmochim. Acta* **70**: A217 Suppl.

ABS-33. McPhail DC, Summerhayes E, Jayaratne V, **Christy A** (2006) Hemimorphite solubility and stability of low-T zinc minerals. Goldschmidt 2006 Geochemistry Conference, Melbourne, Australia, 27 Aug - 1 Sept, 2006. *Geochim. Cosmochim. Acta* **70**: A414 Suppl.

ABS-32. Brown JL, Ellis DJ, Arculus RJ, **Christy AG** (2006) High pressure prograde sulfide metamorphism in blueschist and eclogite, NE New Caledonia. Goldschmidt 2006 Geochemistry Conference, Melbourne, Australia, 27 Aug - 1 Sept, 2006. *Geochim. Cosmochim. Acta* **70**: A69 Suppl.

ABS-31. **Christy AG** (2006) Monte Carlo study of short- and long-range order of Be, Al and Si on a branched tetrahedral chain, with implications for mixing behaviour. Goldschmidt 2006 Geochemistry Conference, Melbourne, Australia, 27 Aug - 1 Sept, 2006. *Geochim. Cosmochim. Acta* **70**: A101 Suppl.

ABS-30. Grew ES, **Christy AG**, Carson CJ (2006) A boron-enriched province in the Larsemann Hills, Prydz Bay, Antarctica. Goldschmidt 2006 Geochemistry Conference, Melbourne, Australia, 27 Aug - 1 Sept, 2006. *Geochim. Cosmochim. Acta* **70**: A217 Suppl.

ABS-29. Kawakami T, Ellis DJ, **Christy AG** (2006) Sulfide evolution in high-temperature to ultrahigh-temperature metamorphic rocks from the Lützow-Holm Complex, East Antarctica. International Mineralogical Association, 19th General Meeting, Kobe, Japan, 23-28 July 2006. (poster). Program & Abstracts, p.210.

ABS-28. Rode AV, **Christy AG**, Madsen NR, Gamaly EG, Luther-Davies B, Arčon D, Zorko A, Jagličič Z (2006) Spin glass behaviour of magnetic carbon nanoclusters. *Proceedings of NSTI Nanotech: The Nanotechnology Conference and Trade Show*. Boston, USA, May 7-11, 2006.

ABS-27. Kawakami T, Ellis DJ, **Christy AG** (2006) Sulfide evolution in high-temperature to ultrahigh-temperature metamorphic rocks from the Lützow-Holm Complex, East Antarctica. International Symposium on Material Science and History of Earth and Sister Planets. 29-31 March, 2006. Open Research Center of Okayama University of Science, Okayama, Japan.

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ABS-24. Arčon D, Zorko A, Jagličić Z, Madsen NR, **Christy AG**, Rode AV, (2005) The origin of magnetic moments in ferromagnetic carbon nanofoam, *Nanotechnology in Carbon and Related Materials Nanotec'05*, Brighton, UK, 31 Aug – 3 Sept, 2005.

ABS-23. **Christy AG** (2005) Mars rock or Martian? The biomorph problem. 'Roving the Red Planet', the 5th Australian Mars Exploration Conference, Mars Society Australia, Canberra, ACT, Australia, 19-21 Aug 2005.

ABS-22. Gunton CG, **Christy AG**, McPhail DC (2005) The effect of NaCl on Cu(II) sorption on goethite. 15th Annual Goldschmidt Conference 2004, May 20-25, Moscow, Idaho, USA. *Geochim. Cosmochim. Acta* **69**, A622 Suppl.

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ABS-20. McKenzie DE, **Christy AG** (2004) The Science behind Terroir – the Influences of Soil Chemistry on Wine Grapes:early results. 32nd International Geological Congress, Firenze, Italy, 20-28 Aug., 2004, (extended abstract).

ABS-19. Larsson A-K, **Christy AG** (2004). On calcite twinning and superstructures in sea urchin tests. *Crystal XXIV, 24th conference of the Society of Crystallographers in Australia and New Zealand*. Marysville, Victoria, Australia, 29 Mar – 1 Apr, 2004.

ABS-18. Giapintzakis J, Androulakis J, Rode AV, Gamaly EG, **Christy AG**, Fitz Gerald JG, Hyde ST, Elliman RG, Luther-Davies B (2004). Unconventional magnetic behavior in all carbon nanofoam. *American Physical Society March Meeting, 2004*. Abstract #A17.005. Palais de Congrès, Montréal, Québec, Canada, 22 – 26 Mar, 2004.

ABS-17. Carnerup AM, Hyde ST, Larsson A-K, **Christy AG** (2004) Biomimetic silica carbonate structures. *18th Australian Conference on Microscopy & Microanalysis*, 2-6 February 2004, Deakin waterfront campus, Geelong, Victoria, Australia.

ABS-16. Carnerup A, Hyde ST, Larsson A-K, **Christy AG**, García-Ruiz J-M (2003) Self-assembled silica-carbonate structures and implications for the detection of ancient microfossils. *The Inaugural NIB Postgraduate and Postdoctoral Symposium - "Bringing Bio-science Together"*, 16th December 2003, Australian National University, Canberra, Australia.

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ABS-14. **Christy AG**, Hyde ST, García-Ruiz J-M (2001) Nanostructure of inorganic biomorphs. *Inaugural Australian Astrobiology Workshop*, Macquarie University, Sydney, July 12-13, 2001.

ABS-13. **Christy AG**, Evans PD (2001) Development of software to automate the quantification of checking occurring in preservative treated wood exposed to weathering. *32nd Annual Meeting, International Research Group on Wood Preservation*, Nara, Japan, May 2001.

ABS-12. **Christy AG**, Tabira Y, Hölscher A, Grew ES, Schreyer W (2000) Synthetic beryllian sapphirine: structural characterization. *Geol Soc America Abstr Progr* **32**:A-54.

ABS-11. **Christy AG** (2000) Computer modeling and description of halide occupancy and displacement in non-stoichiometric apatites $Cd_{5-\square/2}(VO_4)_3I_{1-\square}$ and $Cd_{5-\square/2}(PO_4)_3Br_{1-\square}$. *Crystal XXI, 21st Meeting of the Society of Crystallographers in Australia*, Thredbo, NSW, Australia, 1-4 Feb., 2000.

ABS-10. **Christy AG**, Larsson A-K (1997) Computer simulation of modulated structures and diffuse scattering in B8-type $(Co,Ni,Cu)_{1+x}(Ge,Sn)$ phases. *Crystal XX, 20th meeting of the Society of Crystallographers in Australia*, Queenstown, New Zealand, 2-5 Apr., 1997.

ABS-09. **Christy AG**, Clark SM (1996) Equation of state of $I4/mcm$ KHF_2 and stability to 50 GPa: implications for structural systematics in AX_2 systems. *IUCr XVII Congress and General Assembly*, Seattle, WA, USA, 8-17 Aug, 1996.

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ABS-07. **Christy AG** (1995) Isosymmetric structural phase transitions and crossovers: phenomenology, examples and implications. *Proceedings of the 2nd Conference of the Asian Crystallographic Association*, Bangkok, Thailand, 22-24 Nov, 1995.

ABS-06. **Angel RJ**, **Christy AG** (1995) A model for the origin of the cell-doubling phase transitions in clinopyroxene and body-centred anorthite. EUG VIII, European Union of Geosciences Biennial Meeting, Strasbourg, France, Apr. 1995. *Terra Abstracts, suppl. to Terra Nova* **7**: 80.

ABS-05. **Christy AG**, Angel RJ (1995) A model for the origin of the cell-doubling phase transitions in clinopyroxene and body-centred anorthite. *Crystal XIX, 19th meeting of the Society of Crystallographers in Australia*, Ballarat, Victoria, Australia, Apr. 1995.

ABS-04. **Christy AG**, Clark SM (1994b) The structural behaviour of palladium (II) oxide and a new palladium suboxide at high pressure: an energy-dispersive X-ray diffraction study. *British Crystallographic Association Spring Meeting*, Newcastle-upon-Tyne, England, Apr. 1994 (poster).

ABS-03. **Christy AG**, Clark SM (1994a) Time-resolved studies at the Daresbury Synchrotron Radiation Source. *Mineralogical Society AGM*, Glasgow, Scotland, Jan. 1994. (poster).

ABS-02. Harley SL, Christy AG (1991) Titanian 2:2:1 sapphirine in Mg-Al gneiss xenoliths from the Northern Vestfold Hills: a first record and implications for emplacement pressures of the Long Peninsula Norite Complex. *Proc. 6th International Symp Antarctic Earth Science*, Tokyo, Sept 1991

ABS-01. Christy AG (1989) Microscopic and macroscopic controls on polytypism in sapphirine. *28th International Geological Congress abstracts*, Washington DC, July 1989. **1**: 292

Patent

Troitzsch U, Ellis DJ, Christy AG (2003-2006) "Synthesis of ceramic crystals" Patent Application No. 2003906410 (Australian), PCT/AU2004/001615 WO 2005049497 (International).

Other Presentations (full details not available in all cases)

Sep. 2010: Invited seminar, Earth Sciences Dept, University of Bristol, UK.
"Are Archaean microfossils really biomorphs?" (A.G. Christy and A.M. Carnerup).

Sep. 2009: Invited seminar, School of Earth and Space Sciences, Peking University, Beijing, China. "Beryllium in sapphirine/khmaralite: implications for sapphirine compatibility relationships and Be geochemistry."

May 2002: Seminar, Geology Dept, ANU (biomorphs).

Jul. 1999: Informal seminar at RSES, ANU (diffuse scattering in wüstite).

Jun. 1998: Invited seminar, Bayerisches Geoinstitut, Germany (diffuse scattering in wüstite).

Jun. 1998: Invited seminars, Inorganic Chemistry, Arrhenius Laboratory, Stockholm University, Sweden (diffuse scattering in wüstite and in B8-type intermetallics).

1994–7: Several informal talks at Research School of Chemistry, ANU.

Jun. 22–26, 1992: Gordon Conference on High Pressure, Meriden, NH, USA
(poster: phase transitions studied by diamond anvil cell).

May 30–31, 1992: International Union of Crystallography, High-Pressure Group meeting, Geophysical Laboratory, Washington DC (poster : phase transitions studied by diamond anvil cell).

1990–3: Numerous talks at Daresbury and Rutherford Laboratories, UK.
(High pressure phase transitions; synchrotron EDXRD data analysis).

Jul. 1987: NATO Advanced Study Institute on physical properties and thermodynamic behaviour of minerals, Cambridge, UK (poster: polytypism in sapphirine).

Apr. 1987: European Union of Geosciences, Strasbourg, France
(talk: MAS NMR study of sapphirine).

Jul. 13-18, 1986: International Mineralogical Association, Stanford University, California
(poster: polytypism in sapphirine).

Jan. 1986: Mineralogical Society, London (talk: polytypism in sapphirine).

Other Non-refereed Publications

Christy AG (2010) Australian new minerals: 2008–present. SGGMP Newsletter June 2010, 6–8.
Specialist Group for Geochemistry, Mineralogy and Petrology, Geological Society of Australia.

Christy AG (2006) Laser-Ablation Inductively-Coupled Plasma Mass Spectrometry (LA-ICP-MS) as a fast, cheap, quantitative method of screening gems for Be treatment. *Metal, Stone & Glass* **36-37**.