



Conference publications 2007-2008

- Eduard Stelcer, David Cohen, Michael Prior. Comparison of PM_{2.5} source profiles and their contributions to measured total fine mass at Sydney and Brisbane sampling sites, Australian Aerosol Workshop, CSIRO Division of Atmospheric Research, Aspendale, Victoria 4-6 July 2007.
- David Cohen (invited) Fine Particle Pollution and Visibility. The IAEA/ RCA Project Planning Meeting on Characterisation and Source Identification of Particulate Air Pollution in Asian Region, Goa, India, 21-24 August 2007.
- David Cohen (invited) An Australian Perspective on Air Pollution and Its Consequences. The IAEA/ RCA Project Planning Meeting on Characterisation and Source Identification of Particulate Air Pollution in Asian Region, Goa, India, 21-24 August 2007.
- David D. Cohen, Eduard Stelcer, Vuong Thu Bac Quantification of Fine Particle Composition, Sources and Transboundary Transport in Hanoi, Vietnam from 2001-06. 14th World Congress, 18th CASANZ Clean Air Conference, Brisbane, QLD, Australia, 9-13 September 2007.
- A Morrison, D. D. Cohen, P Nelson, B Halliburton, J. Carras, E. Stelcer. Contribution of Seasalt and its Degraded Products to Particulate Loadings at Inland Sites in the Hunter Valley. 14th World Congress, 18th CASANZ Clean Air Conference, Brisbane, QLD, Australia, 9-13 September 2007.
- P. Torre, C. Bydder, E. King, B. Zerbst, D. D. Cohen. Investigation of Potential Wood Smoke Impact on Air Quality in a Melbourne Suburb. 14th World Congress, 18th CASANZ Clean Air Conference, Brisbane, QLD, Australia, 9-13 September 2007.
- M Radhi, M. A. Box, R. M. Mitchell, M. Keywood, G. P. Box, S. Campbell, D. D. Cohen, D. French. Physical, Chemical and Optical Properties of Australian Desert Dust Aerosols. 14th World Congress, 18th CASANZ Clean Air Conference, Brisbane, QLD, Australia, 9-13 September 2007.
- David Cohen, Eduard Stelcer, Rainer Siegele, Mihail Ionescu, Michael Prior. Experimental bremsstrahlung yields for MeV proton bombardment of beryllium and carbon. 18th International Conference on Ion Beam Analysis, Hyderabad, India, 23-28 September 2007.
- A.G. Kachenko, R. Siegele, N.P. Bhatia, B. Singh, M. Ionescu, Comparison of specimen preparation techniques for localisation of spatially distributed metal(loid)s in leaves of two hyperaccumulating plants using micro-PIXE spectroscopy. 18th International Conference on Ion Beam Analysis, Hyderabad, India, 23-28 September 2007.

- M. Ionescu, Y. Zhao, R. Siegele, D. D. Cohen, D. Lynch, D. Garton, E. Stelcer, M. Prior, ANSTO Heavy Ion ToF for Analysis of Light Elements in Thin Films. 18th International Conference on Ion Beam Analysis, Hyderabad, India, 23-28 September 2007.
- X. Lin, M. Ionescu, R. Zeng, S. Li, Ion Irradiation Dose Dependant Diamagnetic Behaviour in Epitaxial YBCO Thin Films, International Conference on Magnetic Multi-layers (IEEE-MML 2007), 15-19 October 2007, Perth, Australia
- P. Photngkam, M. Ionescu, R. Zeng, D. Yu, S. Li, Development of Advanced Diluted Magnetic Semiconductors with Rare Earth Doping Technology, International Conference on Magnetic Multi-layers (IEEE-MML 2007), 15-19 October 2007, Perth, Australia.
- David Cohen Eduard Stelcer, Michael Prior, Rainer Siegele, Mihail Ionescu. Towards a better understanding and prediction of bremsstrahlung background in PIXE spectra. Proceedings of 15th Nuclear and Complementary Techniques of Analysis Conference, p.111-115, University of Melbourne, Victoria, Australia, 21-23 November 2007.
- M. Ionescu, Y. Zhao, R. Siegele, D.D. Cohen, D. Lynch, D. Garton, E. Stelcer, M. Prior. ANSTO heavy ion ToF for analysis of light elements in thin films. Proceedings of 15th Nuclear and Complementary Techniques of Analysis Conference, p.196-201, University of Melbourne, Victoria, Australia, 21-23 November 2007.
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- Investigations of monolithic Si ΔE -E telescope using IBIC and applications for radiobiological efficiency estimation in proton therapy. Proceedings of 15th Nuclear and Complementary Techniques of Analysis Conference, p.283-286, University of Melbourne, Victoria, Australia, 21-23 November 2007.
- R. Siegele, A. G. Kachenko, Y. D. Wang, M. Ionescu, N.P. Bhatia, D. D. Cohen. Localisation of trace metals in hyper-accumulating plants using μ -PIXE. Proceedings of 15th Nuclear and Complementary Techniques of Analysis Conference, p.292-295, University of Melbourne, Victoria, Australia, 21-23 November 2007.
- Kachenko, B. Singh, R. Siegele and M. Bhatia. Nuclear microprobe studies of metal(loid)s distribution in hyperaccumulating plants. Proceedings of 15th Nuclear and Complementary Techniques of Analysis Conference, p.292-295, University of Melbourne, Victoria, Australia, 21-23 November 2007.
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- A-M.M. Williams, R. Siegele, Iron deposition in archaeological teeth. Proceedings of 15th Nuclear and Complementary Techniques of Analysis Conference, p.292-295, University of Melbourne, Victoria, Australia, 21-23 November 2007.

- A.L. Ziebel, W.H. Lim, M.I. Reinhard, I. Cornelius, D.A. Prokopovich, R. Siegele, A.S. Dzurak and A.B. Rosenfeld. Cylindrical silicon on insulator microdosimeter; Charge collection characteristics. Proceedings of 15th Nuclear and Complementary Techniques of Analysis Conference, p.292-295, University of Melbourne, Victoria, Australia, 21-23 November 2007.
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- M. Ionescu, N. Bhatia, D. D. Cohen, A. Kachenko, R. Siegele, M. A. Marcus, S. Fakra, G. Foran, X-ray Absorption Spectroscopy at the Ni-K edge in *Stackhousia tryonii* Bailey Hyperaccumulator, Australian Synchrotron Users Workshop, 12-14 December 2007, Melbourne
- M. Ionescu, R. Siegele, D. D. Cohen, ANSTO Ion Beam Nuclear Techniques for Thin Films Characterisation, ANSTO Workshop on Nanostructures, ANSTO, 04.04.2008
- K. Lilly, D. Fabel, **D. Fink**, K. Lambeck, Three million years of ice sheet history from interior East Antarctica, **European Geophysical Union Conf, April 2008**
- H. Rother, **D.Fink**, J. Shulmeister, C. Mifsud, ¹⁰Be / ²⁶Al exposure age chronologies from mid-latitude Southern Hemisphere glacial sequences in the Southern Alps, New Zealand, **European Geophysical Union Conf, April 2008**
- Makintosh, E Domack, A. Leventer, D. White, **D. Fink**, D. Gore and R. Dunbar, East Antarctic Ice Sheet retreat as a response to Meltwater Pulse 1A, **30th SCAR Antarctic Meeting, St Petersburg, Russia July 2008**
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- M. Fisher , **D. Fink**, A piecewise continuous regression analysis of $\delta^{18}\text{O}$ Antarctic ice-core records to identify trends and timing of climate **behaviour**. **Geophysical Research Abstracts 9, EGU , April 2007**
- Hua, Q.; Hodge, E.; **Fink, D.**; Woodroffe, C. D.; Smithers, S. G.; McGregor, H. V.; Gagan, M. Radiocarbon and $\delta^{18}\text{O}$ in modern corals from the Cocos (Keeling) Islands and implications for ENSO and Indian Ocean Dipole in

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- Hua, Q., M. Barbetti, **D. Fink**, U. Zoppi, and F. Bertuch, New radiocarbon data for the Younger Dryas derived from southern hemispheric tree rings (2007), **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, 167-168, 180.**
- Hua, Q., E. Hodge, **D. Fink**, C.D. Woodroffe, S.G. Smithers, H.V. McGergor, and M. Gagan (2007), ENSO and Indian Ocean Dipole in eastern Indian Ocean derived from isotopic records in modern corals from the Cocos (Keeling) Islands, **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, 167-168, 180.**
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- Hodge, E., Y. Feng, J. Wu, **D. Fink**, Q. Hua and J.-x. Zhao (2007), Large and rapid fluctuations of radiocarbon concentration in a speleothem from southern China between 26-29 cal ka BP: implications for radiocarbon calibration and ocean circulation, **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, 167-168, 170-171.**
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- Yu, K., J-x. Zhao, E. Hodge, Q. Hua, M. Barbetti, and **D. Fink** (2007), Paired U-series and radiocarbon dating of Holocene corals from the South China Sea: Evidence for large temporal variability in ^{14}C marine reservoir ages, **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, 167-168, 467.**
- K. Lilly, **D Fink**, Dk Fabel and K Lambeck Plio-Pleistocene ice elevation changes in interior East Antarctica, determined by cosmogenic nuclide measurements, **17th INQUA Conf , Cairns , Australia, August 2007.,Quaternary International, 122-123, 467.**
- H Rother, J Shulmeister, D Fink, A conceptual model for New Zealand glaciation and ^{10}Be exposure ages from moraine sequences in the central Southern Alps, New Zealand, **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, v467**
- M. Fischer and D. Fink, A piecewise continuous regression analysis of $\delta^{18}\text{O}$ Antarctic ice-core records to identify trends and timing of climate behaviour., **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, v467**

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- J Hellstrom, P Augustinus and D Fink, Absolute chronology of late Quaternary fluctuations of the Rennick Glacier, Antarctica, from uranium-series dating of sub-glacial calcite rinds, **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, v467**
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- C Turney, JShulmeister, B Alloway, D Fink, Report on the INQUA Australasian INTIMATE Project, **17th INQUA Congress, Aug 2007, Cairns, Australia, Quaternary International, v467**
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