Books and Book Chapters


Journals

Internally Driven Research


Externally Driven Research


Centre for Accelerator Science Publications 2017-18


Rebecca Elizabeth Smith; Jonathan J Tyler; Jessica Reeves; Simon Blockley; Geraldine E Jacobsen. (2017). First Holocene cryptotephras in mainland Australia reported from sediments at Lake Keilambete, Victoria, Australia. Quaternary Geochronology, 40, 82-91. doi:10.1016/j.quageo.2016.08.007


DN King; JR Goff; C Chagué-Goff; B McFadgen; GE Jacobsen; P Gadd; M Horrocks. (2017) Reciting the layers: Evidence for past tsunamis at Mataora - Wairau Lagoon, Aotearoa - New Zealand. Submitted to Marine Geology, 389, 1-16.


Field, Emily; Marx, Sam; Haig, Jordahna; May, Jan-Hendrik; Jacobsen, Geraldine; Zawadzki, Atun; Child, David; Heijnis, Henk; Hotchkis, Michael; McGowan, Hamish; Moss, Patrick. Untangling geochronological complexity in organic spring deposits using multiple dating methods, Quaternary Geochronology 43 (2018) 50–71.


Conferences

Internally Driven


Bin Yang & A.M. Smith, A small and flexible processing line for the separation of CO₂ and CH₄, combustion to CO₂ and graphitisation of CO₂ for AMS target production, abstract ID 311, poster presentation at 14th International Accelerator Mass Spectrometry conference, 14th – 18th August 2017, Ottawa, Canada.

Bin Yang, A.M. Smith, Vladimir Levchenko, Melita Keywood & Fabienne Reisen, A simple apparatus for the separation of organic (OC) and elemental (EC) carbon fractions in air filters for radiocarbon measurement by AMS abstract ID: 313, poster presentation at 14th International Accelerator Mass Spectrometry conference, 14th – 18th August 2017, Ottawa, Canada.

Réka-H Fulop, David Fink, Bin Yang, Alexandr T. Codilean, Andrew Smith, Tibor Dunai, The performance of the new UOW/ANSTO in situ 14C line, case study from Central Australia, abstract ID 231 oral presentation at 14th International Accelerator Mass Spectrometry conference, 14th – 18th August 2017, Ottawa, Canada.


Rainer Siegele, Željko Pastuovic, Armand Atanacio, David D. Cohen. Heavy ion PIXE yields and cross sections on thin samples for 4.8-30 MeV oxygen and 3-112 MeV lithium ions. 23rd International Conference on Ion Beam Analysis, Shanghai, China, 8-13 October 2017.

Zeljko Pastuovic (invited). Deep level defects in 4H-SiC introduced by ion implantation: The role of single ion regime, Institute Jozef Stefan (IJS), Ljubljana, Slovenia, Oct2017;

David Cohen (fully funded, invited). Fine Particles – What are they and why should we better understand them?. Dept of Environmental Science, Chinese Institute for Atomic Energy (CIAE), Beijing, China, 16 October 2017.


Zeljko Pastuovic (invited). Applications of IBA microscopy to interdisciplinary research in fields of material science, bio-med, geology and cultural heritage, NSTLI talk, Lucas Heights, Australia, Oct2017;


*Micro Conventional Furnace III and the application for Separation/Combustion of <0.5% volume CO$_2$ and CH$_4$ gas, Bin Yang and A. M. Smith*, oral presentation at The 7th East Asia Accelerator Mass Spectrometry Symposium (EA-AMS-7), 19-25 November 2017, Guangxi Normal University.

Zeljko Pastuovic (invited). The new SIRIUS accelerator system at ANSTO: Design, capabilities and recent applications for material modification and characterisation using accelerated ions, ANSTO User Meeting (AUM2017), Melbourne, Australia, Nov2017;

Vladimir A. Levchenko (invited), Dik J Kok, Alan Williams, Filomena Salvemini, Rainer Siegеле, Penelope King, Ulrike Trottisch, Anna Carnerup. The story of two stones – nuclear techniques reveal the secrets of renal calculi. AUM2017, 22-24 November 2017, National Centre for Synchrotron Science, Melbourne Australia.

Zeljko Pastuovic (invited). The new CHIMP beamline at ANSTO: The first nanobeam and applications for material characterisation, University of Wollongong, Wollongong, Australia, Nov2017;


Zeljko Pastuovic (invited). Recent developments and new capabilities for IBA at Centre for Accelerator Science of ANSTO, Consultancy Meeting of IAEA Physics Section, Vienna, Austria, Dec2017.


D.P. Child, M.A.C. Hotchkis, M.B. Froehlich and A. Wallner. Sub-attogram sensitivity in Actinides AMS, MARC X1, Hawaii, USA, April 9-13 2018


David Cohen (invited, fully funded). Assessing the impact of industrial activities, including coal-fired power stations, on urban air quality in the Asian region. IAEA Regional Meeting on Air Quality and Environmental Impact Assessment of Industrial Activities in Asian Region, Jeju Island, Republic of Korea, 9-11 May 2018.


David Cohen (invited talk). Accelerator Science at ANSTO. College of Nuclear Technology in Chengdu University of Technology, Chengdu, China, 16 May 2018.

Conferences

Externally Driven Research


Dyonisius, Michael; Petrenko, Vasilii V.; Smith, Andrew M.; Hmiel, Ben; Beck, Jonas; Seth, Barbara; Bock, Michael; Hua, Quan; Yang, Bin; Harth, Christina; Beaudette, Ross; Lee, James; Erhardt, Tobias; Schmitt, Jochen; Brook, Edward J.; Weiss, Ray; Fischer, Hubertus; Severinghaus, Jeffrey; Methane triple isotopes mass balance from ice cores to constrain the sources of abrupt methane increase during the Oldest Dryas-Bølling transition, abstract submitted for an oral presentation at the AGU Fall Meeting, New Orleans, USA, 11th - 15th December 2017.


Reports
