

If you wish to attend please register with: [vivien@esc.cam.ac.uk](mailto:vivien@esc.cam.ac.uk)

'Harry Elderfield and the chemistry of oceans past and present'

Friday 14<sup>th</sup> October

In the McGrath Centre, St Catharine's College

9.45 Welcome: John Pyle (Head of Chemistry Dept., Fellow of St Catharine's)

Introduction 9.50 -10 Nick McCave (Cambridge, DES).

Talk 1. 10.00-10.20. Jonathan Erez (Hebrew Univ, Jerusalem). *Proxy development in foraminifera based on direct observations on their biomineralization mechanism*

Talk 2. 10.20-10.40. Ros Rickaby (Oxford Univ). *Biomineralisation, proxies and carbonate chemistry*

Discussion: 10.40-11.00.

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Talk 3. 11.30 -11.50. Steve Barker (Cardiff Univ). *Uses of Harry's palaeoclimatic toolbox*

Talk 4. 11.50-12.10. Carrie Lear (Cardiff Univ). *Taking the temperature of the oceans*

Discussion: 12.10-12.30

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Talk 5. 2.00-2.25 Miriam Kastner (Scripps Institution of Oceanography). *Harry's contributions to our understanding of Sr in the ocean and its significance.*

Talk 6. 2.25-2.45 Gary Klinkhammer (Oregon State Univ., College of Ocean & Atmospheric Science). *Highly resolved fluxes to the oceans*

Talk 7. 2.45-3.10 Rachel Mills (Southampton Oceanography Centre). *Impact of hydrothermal activity on seawater chemistry*

Discussion 3.10-3.30

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Talk 8. 4.00-4.30 Sambudda Misra (Cambridge, DES). *Evolution of atmospheric pCO<sub>2</sub> over the Neogene: An insight from  $\delta^{13}C$  of planktonic foraminifera*

Talk 9. 4.30-5.00 Dave Hodell (Cambridge, DES). *Deconvolving the  $\delta^{18}O$  signal of foraminiferal calcite using Mg/Ca and clumped isotopes*

Talk 10. Conclusion 5.00-5.20; Mervyn Greaves (Cambridge, DES). *Developments in Harry's Lab., 1977-2016.*

Wine reception 5.30 – 6.30

**Saturday 15th October, Morning 10.00 - 12.30 plus posters.**

**In the Department of Earth Sciences**

Talk 11. 10.00-10.25 Hein de Baar (Royal Netherlands Institute for Sea Research).  
*Iron, Cadmium and Lead along Geotraces sections in the Atlantic, Mediterranean and polar oceans..*

Talk 12. 10.25-10.45 Alex Piotrowski (Cambridge, DES) *Nd isotopic tracers of provenance and circulation*

Discussion 10.45-11.00

11.00-11.30 Coffee and posters

Talk 13. 11.30-11.50 Alexey Sadekov (Cambridge, DES). *Microanalysis: laser ablation, biomineralisation and proxy development in Harry's current projects*

Talk 14. 11.50-12.10 Simon Redfern (Cambridge, DES). *Crystal structure and proxies at the finest scale.*

Discussion; 12.10-12.30.

12.30-1.30 buffet lunch in Common Room

2.00 pm Memorial Service in St Catharine's College Chapel