

Reviews in Mineralogy and Geochemistry Short Course on:  
**Highly Siderophile and Strongly Chalcophile Elements in High  
Temperature Geochemistry and Cosmochemistry**

Held at: The Scripps Seaside Forum, Scripps Institution of Oceanography, 8610  
Kennel Way, La Jolla, CA 92037

**Thursday 10<sup>th</sup> December**

6.00-10.00pm: Ice-breaker at Surfside (next to the Scripps Seaside  
Forum) hosted by the *Scripps Isotope Geochemistry Laboratory*

**Friday 11<sup>th</sup> December**

8.30-9.00am: Welcome to the short course (James Day & Jason Harvey)

9.00-9.45am: *Analytical methods for the HSE and SCE* (Thomas Meisel)

9.45-10.00am: Discussion

10.00-10.45am: *Fractionation of the highly siderophile elements (HSE)  
during planetary differentiation* (Neil Bennett)

10.45-11.30am: Discussion followed by coffee break

11.30am-12.15pm: *Nucleosynthetic variations of siderophile and  
chalcophile elements in the solar system* (Tetsuya Yokoyama)

12.15-12.30pm: Discussion

12.30-1.45pm: Lunch buffet in the foyer

1.45-2.30pm: *Highly siderophile elements in Earth, Mars, the Moon and  
asteroids* (Richard Walker)

2.30-2.45pm: Discussion

2.45-3.30pm: *Distribution and processing of highly siderophile elements  
in cratonic mantle lithosphere* (Sonia Aulbach)

3.30-4.30pm: Discussion and Day 1 wrap-up, with presentation by *Anton  
Paar*

## Saturday 12<sup>th</sup> December

8.30-9.15am: *Highly Siderophile Element and <sup>187</sup>Os signatures in non-cratonic basalt-hosted peridotite xenoliths* (Ambre Luguet)

9.15-10am: Discussion and coffee break

10-10.45am: *Re-Pt-Os Isotopic and Highly Siderophile Element Behavior in Mantle Tectonites* (Harry Becker)

10.45-11am: Discussion

11-11.45am: *Chalcophile/siderophile elements in mantle rocks: trace elements in trace minerals* (Jean-Pierre Lorand)

11.45am-12.00pm: Discussion

12.00-1pm: Lunch in the Foyer

1-1.45pm: *Petrogenesis of the platinum-group minerals* (Brian O'Driscoll)

1.45-2pm: Discussion

2-2.45pm: *Mantle sulfides and their role in Re-Os-Pb geochronology* (Jason Harvey)

2.45-3pm: Discussion

3-3.45pm: *Highly siderophile element and Os isotope systematics of volcanic rocks at divergent and convergent plate boundaries and in intraplate settings* (James Day)

3.45-4.15pm: Discussion and tea break

4.15-5pm: *Highly siderophile and strongly chalcophile elements in magmatic ore deposit* (Sarah-Jane Barnes)

5-5.15pm: Discussion and Day 2 Wrap-up

6.00-10.00pm: Conference Dinner at Surfside

**End of the short course – travel to AGU on Sunday morning**