

2013 Distinguished Guest Lecture & Symposium

# Rare earths and other scarce metals: Technologically vital but usually thrown away

A one-day symposium organised by the Environmental Chemistry Group and Environment, Sustainability and Energy Division of the Royal Society of Chemistry, incorporating the 2013 ECG Distinguished Guest Lecture, given by Professor Thomas Graedel (Yale University)

Where: **The Royal Society of Chemistry, Burlington House, Piccadilly, London**  
When: **Wednesday 20<sup>th</sup> March 2013**

## Programme

1200 Lunch, Coffee

1300 Meeting Start

**Professor Andrea Sella, University College London [UCL]**

*Terra Rara- The Elemental Unknown Sea*

**Mr David Merriman, Roskill**

*A Review of Global Supply of Rare Earths*

**Dr Mike Pitts, Technology Strategy Board [TSB]**

*Chemistry Innovation in Resource Efficiency*

1430 Tea / Coffee; ECG Annual General Meeting

1530 **Dr Adrian Chapman, Oakdene Hollins**

*Materials' Criticality - Mitigation Options and Impacts*

**DGL: Prof Thomas Graedel, Yale University**

*Rare Earths and Other Scarce Metals: Technologically Vital but Usually Thrown Away*

## General Discussion

1715 Close

To register online, or download a hard copy registration form, please see [www.rsc.org/ecg](http://www.rsc.org/ecg) and choose "Forthcoming Events". For further details please contact [s.t.wagland@cranfield.ac.uk](mailto:s.t.wagland@cranfield.ac.uk)



RSC Environmental Chemistry Group  
2013 ECG Distinguished Guest Lecture & Symposium, 20<sup>th</sup> March, Burlington House

## Rare earths and other scarce metals: Technologically vital but usually thrown away

Admission is by ticket only. In order to register for this meeting, please **register online** via [www.rsc.org/ecg](http://www.rsc.org/ecg) (choose "forthcoming events") or complete the slip below and return by post (see details below).

There is a charge of £30 for members of the ECG and £60 for non-members of the ECG (£30 concessions, i.e. student/unwaged; proof required). Cheques should be returned with this form (made payable to *RSC Environmental Chemistry Group*). **Early application is encouraged as places are limited and will be allocated on a first come first served basis.**

A limited number of places are reserved free for retired members; these will also be allocated on a first come first served basis. We are able to offer limited travel bursaries for current students – please email Dr Wagland if you would like to be considered for one of these.

Name .....

Affiliation .....

Address .....

.....

Email address .....

I would like to attend      Rare Earth Elements symposium     

   The ECG AGM     

I enclose a cheque for :

£60 (non-member)

£30 (ECG/CIWM/CIWEM members / non-ECG concessions: RSC membership no: .....

I would like to attend as a retired RSC and ECG member

Dietary / access requirements : .....

Signed ..... Date .....

---

**Please Return To** : Dr Stuart Wagland, School of Applied Sciences, Building 40, Cranfield University,  
Bedfordshire MK43 0AL

Tel. 01234 750 111      Email [s.t.wagland@cranfield.ac.uk](mailto:s.t.wagland@cranfield.ac.uk)