

2012

December 3–7 AGU Fall Meeting, San Francisco, CA, USA. Details forthcoming

December 5–8 13th European Meeting on Environmental Chemistry, Moscow, Russia. Web page: www.europanace.com/about/meetings

2013

January 2–4 Applied Mineralogy Group - Mineral Deposits Studies Group Annual Meeting, Leicester, UK. Web page: www.mdsg.org.uk/maintext.php?ID=4

January 6–10 93rd American Meteorological Society Meeting, Austin, TX, USA. Web page: <http://annual.ametsoc.org/2013/?CFID=482669&CFTOKEN=89193527>

January 7–9 Volcanic and Magmatic Studies Group Annual Meeting, Bristol, UK. Web page: www.vmsg.org.uk/vmsgbristol/VMSG_2013/VMSG%20Bristol%202013%3A%20Home.html

January 16–19 Granulites and Granulites 2013, Hyderabad, India. Web page: <http://ggindia2013.com>

January 27–February 1 Gordon Research Conference: Microbe–Mineral Interactions, Biomineralization, and the Rock Record, Ventura, CA, USA. Web page: www.grc.org/programs.aspx?year=2013&program=geobiology

January 27–February 1 37th International Conference and Expo on Advanced Ceramics and Composites, Daytona Beach, FL, USA. Web page: <http://ceramics.org/meetings/acers-meetings>

February 25–March 3 International DTTG-Workshop on Qualitative and Quantitative Analysis of Clays and Clay Minerals, Karlsruhe Institute of Technology (KIT), Germany. Web page: www.dttg.ethz.ch/workshop2013.html

March 3–7 TMS Annual Meeting, San Antonio, TX, USA. Web page: www.tms.org/Meetings/Meetings.aspx

March 3–8 Iron Biogeochemistry – From Molecular Processes to Global Cycles, Ascona, Switzerland. E-mail: fimin@bayceer.uni-bayreuth.de; website: www.bayceer.uni-bayreuth.de/fimin/conference

March 18–22 44th Lunar and Planetary Science Conference (LPSC 2013), Houston, TX, USA. Web page: www.lpi.usra.edu/meetings/lpsc2013

March 27–29 Volcanism, Impacts and Mass Extinctions: Causes and Effects, London, England. Website: <http://massextinction.princeton.edu>

April 1–5 MRS Spring Meeting & Exhibit, San Francisco, CA, USA. Web page: www.mrs.org/spring2013

April 7–11 245th American Chemical Society (ACS) National Meeting & Exposition, New Orleans, LA, USA. Web page: www.acs.org

April 24–28 Basalt 2013 – Cenozoic Magmatism in Central Europe, Görlitz, Germany. E-mail: basalt2013@senckenberg.de; web page: www.senckenberg.de/root/index.php?page_id=15387&preview=true

May 5–8 Canadian Institute of Mining, Metallurgy, and Petroleum 2013 Conference & Exhibition, Toronto, Ontario, Canada. Web page: www.cim.org/calendar/calender.cfm?Year=All

May 19–22 AAPG 2013 Annual Convention & Exhibition, Pittsburgh, PA, USA. Web page: www.aapg.org

May 22–24 Geological Association of Canada /Mineralogical Association of Canada Annual Meeting, Winnipeg, Manitoba, Canada. Web page: <http://gacmacwinnipeg2013.ca>

June 2–7 Gordon Research Conference: Interior of the Earth, South Hadley, MA, USA. Webpage: www.grc.org/programs.aspx?year=2013&program=interior

June 9–14 Water–Rock Interaction 14 (WRI 14), Avignon, France. E-mail: contact@wri14-2013.fr; web page: www.wri14-2013.fr/en/home.html

June 16–21 Gordon Research Conference: Catchment Science: Interactions of Hydrology, Biology & Geochemistry, Andover, NH, USA. Web page: www.grc.org/programs.aspx?year=2013&program=catchment

June 17–19 Mineralogical Society Annual Meeting: Minerals for Life: Living with Resource Constraints, University of Edinburgh, Scotland. Web page: www.minersoc.org/minerals-for-life.html

June 23–28 Gordon Research Conference: Origins of Solar Systems, South Hadley, MA, USA. Webpage: www.grc.org/programs.aspx?year=2013&program=origins

July 1st International Congress of Applied Mineralogy, Website: www.icam2013.org

July 1–5 1st International Conference on Tomography of Materials and Structures, Ghent, Belgium. E-mail: ictms2013@ugent.be; website: www.ictms.ugent.be

July 3–6 Conference on Raman and Luminescence Spectroscopy (Corals-2013), Vienna, Austria. Web page: www.univie.ac.at/Mineralogie/Corals2013

July 7–12 17th International Zeolite Conference, Moscow, Russia. Website: www.izc17.com

July 8–12 11th European Congress for Stereology and Image Analysis, Kaiserslautern, Germany. Web page: www.mathematik.uni-kl.de/events/ecs/

July 15–19 Eighth International Mars Conference, Pasadena, CA, USA. Web page: www.lpi.usra.edu/meetings

July 20–24 IAVCEI General Assembly 2013: Forecasting Volcanic Activity, Kagoshima, Japan. Details: Masato Iguchi, e-mail: iguchi@svo.dpri.kyoto-u.ac.jp; web page: www.iavcei.org/IAVCEI.htm

July 29–August 2 Annual Meeting of the Meteoritical Society, Edmonton, Alberta, Canada. Web page: www.meteoriticalsociety.org

August 4–8 Microscopy & Microanalysis 2013, Indianapolis, IN, USA. Web page: www.microprobe.org/events

August 11–16 17th International Conference on Crystal Growth and

Epitaxy (ICCGE-17), Warsaw, Poland. Web page: <http://science24.com/event/iccge17>

August 12–15 SGA 12th Biennial Meeting, Uppsala, Sweden. Web page: www.akademikonferens.uu.se/sga2013

August 18–23 EnvironMetal Isotopes 2013, Ascona, Switzerland. E-mail: emi2013@env.ethz.ch; website: www.emi2013.ethz.ch

August 25–29 ECM-28: European Crystallographic Meeting, Warwick, UK. Website: <http://ecm28.org>

August 25–30 Goldschmidt 2013, Florence, Italy. Website: www.goldschmidt2013.org

August 26–30 Meteoroids 2013, Poznan, Poland. Web page: www.astro.amu.edu.pl/Meteoroids2013/index.php

September 2–10 10th International Eclogite Conference, Courmayeur, Aosta Valley, Italy. Web page: www.iec2013.unito.it

September 8–12 246th American Chemical Society National Meeting & Exposition, Indianapolis, IN, USA. Web page: www.acs.org

September 24–27 Whistler 2013: Geoscience for Discovery, Whistler, BC, Canada. Website: www.seg2013.org

October 2013 CMM Autumn School: Moisture Measurement in Porous Mineral Materials, Karlsruhe Institute of Technology (KIT), Germany. Web page: www.cmm.kit.edu/english/index.php

October 6–10 50th Clay Minerals Society Meeting, Urbana-Champaign, IL, USA. Website: www.clays.org/annual%20meeting/50th_annual_meeting_website

October 21–30 Short Course: Introduction to Secondary Ion Mass Spectrometry in the Earth and Environmental Sciences, Helmholtz Institutes in Dresden, Leipzig, Potsdam. Webpage: www.gfz-potsdam.de/SIMS/

October 27–30 Geological Society of America Annual Meeting, Denver, CO, USA. E-mail: meetings@geosociety.org; web page: www.geosociety.org/meetings

October 27–31 MS&T'13: Materials Science & Technology Conference and Exhibition, Montréal, QC, Canada. Web page: www.matscitech.org/about/future-meetings

November 18–21 26th International Applied Geochemistry Symposium 2013, Incorporating the New Zealand Geothermal Workshop, Rotorua, New Zealand. Web page: www.gns.cri.nz/iags

December 1–6 MRS Fall Meeting & Exhibit, Boston, MA, USA. Web page: www.mrs.org/fall2013

2014

January 26–31 38th International Conference and Expo on Advanced Ceramics and Composites, Daytona Beach, FL, USA. Details forthcoming

March 16–20 247th ACS National Meeting & Exposition, Dallas, TX, USA. Web page: www.acs.org

April 21–25 MRS Spring Meeting, San Francisco, CA, USA. Web page: www.mrs.org/spring2014

May 21–23 Geological Association of Canada /Mineralogical Association of Canada Annual Meeting, Fredericton, Canada. Details forthcoming

June 9–13 Goldschmidt Conference, Sacramento, CA, USA. Details forthcoming

June 30–July 4 Asteroids, Comets, Meteors, Helsinki, Finland. E-mail: acm-2014@helsinki.fi; web page: www.helsinki.fi/acm2014

August 3–7 Microscopy & Microanalysis 2014, Hartford, CT, USA. Web page: www.microprobe.org/events/microscopy-microanalysis-2014

August 5–12 23rd Congress and General Assembly of the International Union of Crystallography, Montreal, Canada. Website: www.iucr2014.org

August 10–14 248th ACS National Meeting & Exposition, San Francisco, CA, USA. Web page: www.acs.org

September 1–5 21st General Meeting of the International Mineralogical Association (IMA2014), Johannesburg, South Africa. E-mail: info@ima2014.co.za; web page: www.ima2014.co.za

September 7–14 Annual Meeting of the Meteoritical Society, Casablanca, Morocco. Web page: www.meteoritical-society.org

October 12–16 MS&T'14: Materials Science & Technology Conference and Exhibition, Pittsburgh, PA, USA. Web page: www.matscitech.org/about/future-meetings

October 19–22 Geological Society of America Annual Meeting, Vancouver, BC, Canada. E-mail: meetings@geosociety.org; web page: www.geosociety.org/meetings

November 30–December 5 MRS Fall Meeting & Exhibit, Boston, MA, USA. Web page: www.mrs.org/fall2014

2015

August 2–6 Microscopy & Microanalysis 2015, Portland, OR, USA. Web page: www.microprobe.org/events/microscopy-microanalysis-2015

August 24–27 SGA 13th Biennial Meeting, Nancy, France. E-mail: sga-2015@univ-lorraine.fr

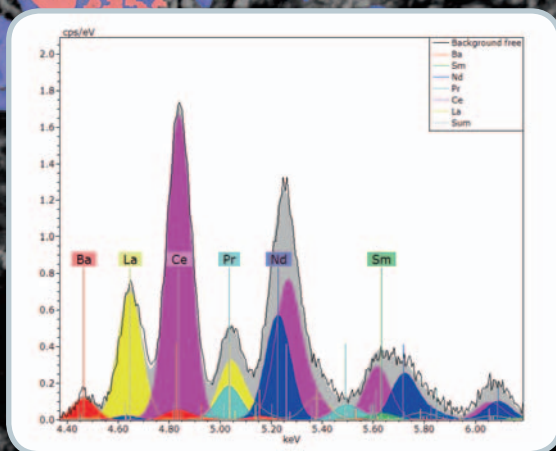
September 9–11 8th European Conference on Mineralogy and Spectroscopy (ECMS 2015), Rome, Italy. Details forthcoming.

The meetings convened by the societies participating in *Elements* are highlighted in yellow. This meetings calendar was compiled by Andrea Koziol (more meetings are listed on the calendar she maintains at <http://homepages.uydayton.edu/~akoziol11/meetings.html>). To get meeting information listed, please contact her at Andrea.Koziol@notes.uydayton.edu.

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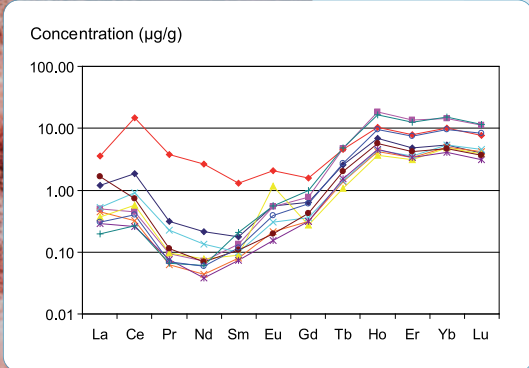
- Configurable particle detection methods
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- Feature analysis using a HyperMap
- Fast and accurate results



30 μm

Rare earth elements (REE) have gained increasing importance for high technology industries. The scarcity of REE on the global market makes it necessary to explore alternative resources. The laterite deposit shown above was examined using ESPRIT Feature, the QUANTAX EDS system's automated feature analysis module. Combining morphological and chemical classification made it possible to display several monazite generations formed upon chemical weathering of carbonatites. High concentrations of La are shown in yellow, high concentrations of Nd in red, intermediate concentrations of La and Nd in blue and cerianite is shown in green.

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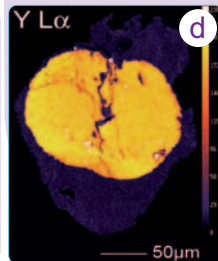
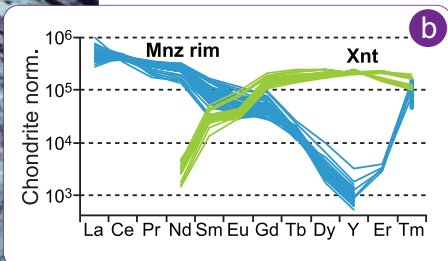
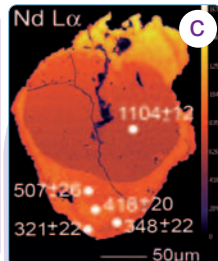
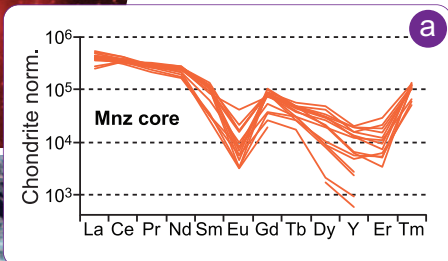
IMS 7f-GEO monocollection SIMS: analysis and mapping of Rare Earth Elements (REE) and trace elements down to sub-micron scale resolution.

IMS 1280-HR Ultra High Sensitivity multicollection SIMS: the state-of-the-art instrument for stable isotopes, U-Pb geochronology, nuclear particle analysis...

REE concentrations on various spots of a garnet grain.
Data obtained on the CAMECA IMS 7f-GEO



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SXFive / SXFiveFE

CAMECA's fifth generation Electron Microprobe



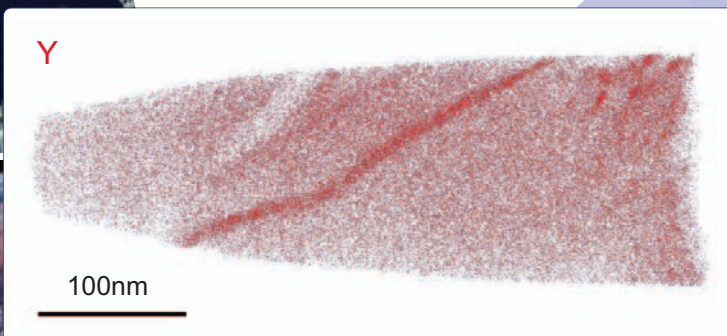
Quantitative microanalysis & X-ray mapping at sub-micron spatial resolution. Benchmark detection limits for trace and minor elements.

a&b: Chondrite-normalized REE profiles as determined by EPMA. Monazite cores contrast with monazite rims and associated xenotime.

c&d: WDS maps of Nd and Y distributions.

Points marked on the Nd map show EPMA age determinations in Ma, 2σ. Data acquired on the SX Ultrachron model, courtesy of Dr. Julien Allaz, Univ. of Colorado and Dr. Michael Jercinovic, Univ. of Massachusetts.

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Atom Probe Tomography (APT) is a powerful and promising elemental and isotope analysis technique for the nanoscale characterization of geological and extraterrestrial materials.



2D projection of 70 million atom 3D dataset from a metamorphic zircon. Y atoms (red) are concentrated along microfractures.

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