

GOLDSCHMIDT2019 SPECIAL!



With over 4,200 abstracts received, the 29th Goldschmidt Conference, to be held 18–23 August 2019 in Barcelona (Spain), is sure to be as exciting as ever, and the European Association of Geochemistry (EAG) and the Geochemical Society (GS) sincerely thank all involved. This year's program boasts over 4100 oral, poster and flash talk presentations in 121 scientific sessions, as well as numerous workshops, field trips, and social events and an expanded early career scientists' program (see below). We look forward to welcoming delegates to Barcelona in August for another fantastic week of geochemistry.



EARLY CAREER SCIENTISTS AT GOLDSCHMIDT2019

A host of events targeted at students and others in the early stages of their careers will take place throughout the week. Spaces are limited, so be sure to register early. Visit <http://goldschmidt.info/2019> for more details.

LUNCHTIME EARLY CAREERS EVENTS

Monday (19th) Best Practices in Academic Publishing; Interactive Teaching Methods; Non-Academic Careers – R&D-Related Careers; Meet the Plenary Lunch with Bethany Ehlmann.

Tuesday (20th) Communicating Science; Love & Careers in Academia; Non-Academic Careers – Consultancy-Related Careers; Meet the Plenary Lunch with Roberta Rudnick.

Wednesday (21st) Non-Academic Careers – Careers in Scientific Publishing; Pop-Up Talks; Meet the Plenary Lunch with Carrie Masiello.

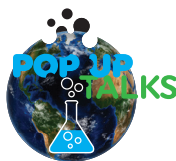
Thursday (22nd) Confidence, Public Speaking and Networking; Meet the Plenary Lunch with Alissa Park.

Friday (23rd) Meet the Plenary Lunch with Chris Hawkesworth.

POP-UP TALKS

(Wednesday 21st August, 13:00-14:00)

Is there any aspect of your research or scientific life that you feel particularly passionate about? Do you feel like your inner voice needs to be heard? If so, why not inspire Goldschmidt delegates with your science and sign up to give a Pop Up Talk! How you want to present your talk is completely up to you, but you will have just three minutes to do it in, so get creative!



ORAL PRESENTATION SKILLS FOR STUDENTS (Sunday 18th August, 10:00-17:00)

Giving a presentation at a large conference like Goldschmidt can be a daunting experience, even for the most experienced presenters. If you want to rehearse and work on your Goldschmidt talk in a friendly environment, get some feedback from other delegates, and find out more about how to create an effective presentation, sign up now for this special one-day workshop!



PLENARY SPEAKERS AT GOLDSCHMIDT2019

Each day of Goldschmidt2019 will feature a headline talk from inspiring and engaging speakers working in various fields of geochemistry. This year, we are proud to present the following:



Bethany Ehlmann, Professor of Planetary Science at the Division of Geological and Planetary Sciences, California Institute of Technology (USA) and a Research Scientist at the Jet Propulsion Laboratory. Bethany's research focuses on the geologic history of Mars, particularly the mineralogical and chemical record of hydrothermal processes, groundwaters, lake systems, and long-term climate change.

Lecture (Monday, 11:45): "Mars: Geochemical Cycling on a Once Habitable World"



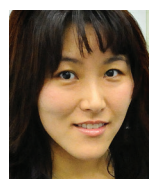
Roberta Rudnick, Professor in the Department of Earth Sciences at the University of California, Santa Barbara (USA), and President of the Geochemical Society. Roberta's research focuses on the origin and evolution of the continents, particularly the lower continental crust and the underlying mantle lithosphere.

Lecture (Tuesday, 11:45): "Earth's Continental Crust Through Time"



Caroline Masiello (Guest Lecturer), Professor of Earth, Environmental and Planetary Sciences at Rice University (Texas, USA), jointly appointed in the departments of Biosciences and Chemistry. Caroline is a biogeochemist and geobiologist whose team builds new tools to study carbon and nitrogen cycling in the Earth system.

Lecture (Wednesday, 11:45): "New Synthetic Biology Tools to Track Microbial Processes in Soils and Sediments"



Alissa Park, Lenfest Chair in Applied Climate Science of Earth and Environmental Engineering and Chemical Engineering at Columbia University (New York, USA) and Director of the Lenfest Center for Sustainable Energy at the Earth Institute. Alissa's research focuses on sustainable energy conversion pathways with an emphasis on carbon capture, utilization and storage.

Lecture (Thursday, 11:45): "Towards Sustainable Energy and Environment: Carbon Capture, Utilization and Storage"



Chris Hawkesworth, Professor Emeritus at the University of Bristol (UK) and University of St. Andrews (UK). Chris's research focuses on applying isotopic systems to unravel how and when the continental crust was generated and the links between geochemistry and tectonics.

Lecture (Friday, 11:45): "The Onset of Plate Tectonics"

EAG GENERAL ASSEMBLY AND RECEPTION

The EAG Annual General Assembly & Reception will take place on Tuesday 20th August, 19:00–20:30, in Room 212 of the CCIB. A presentation by Sigurður Reynir Gíslason, EAG President, about the latest activities and initiatives of the society, will be followed by a reception. It will also be an opportunity to ask questions, provide feedback and meet some EAG Councillors. **This event is open to EAG members and interested parties.**



GOLDSCHMIDT[®] BARCELONA 2019

18–23 AUGUST



NON-ACADEMIC CAREERS FORUMS: Q & A WITH THE PANELLISTS

In a new initiative for 2019, a series of discussion forums will be held giving students and post-docs the opportunity to find out more about pursuing careers outside of academia. We interviewed some of the panellists taking part and are pleased to feature extracts in this and in upcoming issues of *Elements*. Visit the EAG Blogosphere at <http://www.blog.eag.eu.com> to read the full interviews.

LEWIS COLLINS

Editor-in-Chief of the journal *One Earth*



How did you get your job? Following my PhD and post-doctoral work in climate science I embarked upon a career in editorial with the Nature Research group. I joined *Nature Communications* as an Assistant Editor and over a period of 5 years climbed to the role of Team Manager, leading *Nature Communications'* Earth and Environmental Science editorial team.

During this time, I developed knowledge of the publishing landscape and skills in manuscript assessment and commissioning, outreach and communication, and recruitment and leadership.

Did you initially plan on this career at the onset of your PhD? I hadn't considered a career in publishing during my PhD or post-doctoral studies. Like many people, I assumed I would find relevant roles in research and overly depended upon my network and publication record. I hadn't really considered the value of the transferable skills I had obtained during my studies. While I enjoyed my research, I wasn't entirely fulfilled, and editorial offered the opportunity to broaden my horizons and reintroduced me to a vast array of subdisciplines within Earth and environmental science beyond the narrow confines of my research.

What advice do you have for PhD students who are thinking of leaving academia? Plan ahead, take time to understand the transferable skillset you are acquiring and seek to enhance those skills where possible. Even if you strongly feel your future lies in practicing academia, circumstances can change and it's much better to be aware of the vast array of options out there rather than panic during the closing months of your PhD or post-doc.

MEET THE OTHER GOLDSCHMIDT NON-ACADEMIC CAREERS FORUM PANELLISTS

Lewis, Anne and Katja will be joined by other panellists from the fields of scientific publishing, R&D and consultancy at the Goldschmidt2019 lunchtime discussion forums. For more information or to sign up, visit the Early Careers Program webpage at www.goldschmidt.info/2019/.

R&D-related careers (Monday 19th August)

Hauke Vollstaedt – Thermo Fisher Scientific
Nicholas Lloyd – Thermo Fisher Scientific
Anne Trinquier – Ifremer

Consultancy-related careers (Tuesday 20th August)

Julien Declercq – SKR Consulting
Katja Amstaetter – CDM Smith

Careers in Scientific Publishing (Wednesday 21st August)

Rebecca Neely – Nature Geoscience
Laura Zinke – Nature Reviews Earth & Environment
Lewis Collins – One Earth

ANNE TRINQUIER

MC-ICPMS Laboratory Manager, Ifremer (Brest, France)



How did you get your job? My career has been a sequence of academic positions (about 8 years after my PhD) interspersed with a 5 year incursion in industry. I applied for the permanent position of MC-ICPMS lab manager at Ifremer in late 2017.

Did you initially plan on this career at the onset of your PhD? Not precisely. I gave myself a period of about 10 years after my masters to find a position as a researcher in academia. Given the limited number of permanent positions and my taste for developing innovative analytical protocols, including measurement schemes involving prototypes, I accepted a permanent position as TIMS and MC-ICPMS Applications Specialist for Thermo Fisher Scientific [Bremen, Germany]. After 4 years, I applied for a short-term position at ETH Zürich [Switzerland] to develop analytical protocols on a new TIMS prototype with a rare technology (a cavity source TIMS). It was during this time, and based on my combined experience as a researcher and engineer, that I applied for my current position at Ifremer.

What advice do you have for PhD students who are thinking of leaving academia? Seek out working environments where you are encouraged to run the instruments yourself in order to optimize your analytical skills and your chances of finding a position, be it in industry or in another field of research.

KATJA AMSTÄTTER

Senior Consultant for Environmental Chemistry, CDM Smith Consult GmbH (Germany)



What does your job involve? I'm working mainly on, but not restricted to, remediation or waste projects, and for a short time now I have been responsible for organizing knowledge transfer within our European Unit.

Did you initially plan on this career at the onset of your PhD? I always had the option in my mind to leave science and academia, but during my studies and PhD time, science was just too exciting to turn my back on. However, the postdoc I undertook after finishing my PhD was an opportunity to apply theoretical knowledge not only in the lab but also in the field, and with the type of projects involved was a transition point to consulting.

What advice do you have for PhD students who are thinking of leaving academia? Get to know possible fields of work or companies in the targeted market through internships or connections to alumni and take the initiative to become visible to potential employers. In my opinion it is important to find your own way, follow your interests and remain true to yourself, at any stage of your education/career. Leaving science is usually a fundamental personal decision, also involving a certain kind of lifestyle, and both ways offer pros and cons which need to be thought through.



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AWARDS TO BE PRESENTED AT GOLDSCHMIDT2019

The recognition of scientific excellence is one of the core activities of the European Association of Geochemistry, the Geochemical Society, as well as the other scientific societies, and we are honoured to present the awards below at Goldschmidt2019 in Barcelona.

EUROPEAN ASSOCIATION OF GEOCHEMISTRY



UREY MEDAL: **Eric Oelkers** (Géosciences Environnement Toulouse Laboratory, CNRS, France/University College London, UK)*



Science Innovation Award (SAMUEL EPSTEIN MEDAL): **Ariel Anbar** (Arizona State University, USA)



HOUTERMANS MEDAL: **Stefan Lalonde** (CNRS/ Institut Universitaire Européen de la Mer, Brest, France)



Nicolas Dauphas (University of Chicago, Illinois, USA)



Darby Dyar (Mount Holyoke College, Massachusetts, USA)



Jean Jouzel (Laboratoire des Sciences du Climat et de l'Environnement, Saint-Aubin, France)

GEOCHEMICAL SOCIETY



GOLDSCHMIDT MEDAL: **Don DePaolo** (University of California, Berkeley, USA)



CLARKE MEDAL: **Thomas Kruijer** (Lawrence Livermore National Laboratory, California, USA)



F. EARL INGERSOLL LECTURER: **Holly Stein** (Colorado State University, USA/University of Oslo, Norway)



Cin-Ty A. Lee (Rice University, USA)



Shuguang Li (China University of Geosciences, China)



Jack Middelburg (University of Utrecht, Netherlands)



BIOGEOCHEMISTRY LECTURE: **Jennifer Pett-Ridge** (Lawrence Livermore National Laboratory, California, USA)



PAUL GAST LECTURER: **Caroline Masiello** (Rice University, Texas, USA)



ROBERT BERNER LECTURER: **Filip Meysman** (University of Antwerp, Belgium)



Daniela Rubatto (University of Bern, Switzerland)



Yuji Sano (University of Tokyo, Japan)



William Shotyk (University of Alberta, Canada)

EAG/GS

INTERNATIONAL ASSOCIATION OF GEOANALYSTS



VERNADSKY MEDAL 2018: **Jacques Schott** (Géosciences Environnement Toulouse, Observatoire Midi-Pyrénées, CNRS, Université de Toulouse, France)



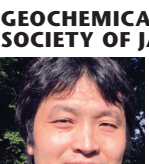
EBELMEN AWARD 2018: **Julien Bouchez** (Institut de Physique du Globe de Paris, France)



IAGC FELLOW 2018: **Jochen Hoefs** (Georg-August University of Göttingen, Germany)



Mordechai Stein (Geological Survey of Israel and Hebrew University of Jerusalem, Israel)



GEOCHEMICAL JOURNAL AWARD: **Yoshida Kenta** (Japan Agency for Marine-Earth Science and Technology, Japan)



SHEN-SU SUN AWARD: **Chuan-Zhou Liu** (Institute of Geology and Geophysics, Chinese Academy of Sciences, China)

EUROPEAN MINERALOGICAL UNION



EMU RESEARCH EXCELLENCE MEDAL: **Katharina Marquardt** (Imperial College London, UK)

INTERNATIONAL ASSOCIATION OF GEOANALYSTS



IAG YOUNG SCIENTISTS AWARD 2019: **Martijn Klaver** (University of Bristol, UK)

* Medallists are also named Geochemical Fellows by virtue of their medal.