

THE KEELE MEETINGS ON ALUMINIUM
1995, 1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019...

FIRST AND ONLY CALL FOR PAPERS, POSTERS
AND EXPRESSIONS OF INTEREST

*The Birchall Centre, Keele University, and Centro de
Investigacion Cientifica de Yucatan
Present*

The Thirteenth Keele Meeting on Aluminium

KEELE13

Future Challenges in the Aluminium Age

Saturday 23rd to Wednesday 27th February 2019

Venue: Hotel Uxmal Resort Maya

<http://www.keele.ac.uk/aluminium/>

www.cicy.mx

ORGANISATION

The Thirteenth Keele Meeting on Aluminium (KEELE13) will be held at *Uxmal Resort Maya*.

The local hosts are the research group of Professor Teresa Hernandez Sotomayor at CICY (Unidad de Bioquímica y Biología Molecular de Plantas).

Teresa Hernandez-Sotomayor
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AIMS OF THE MEETING

The aims of KEELE13 are the same as our previous 12 meetings, namely to bring together the family of aluminium researchers to disseminate the very best research in the field. Of course, our objectives are somewhat wider in that we not only

want to welcome new research we also want to encourage new researchers in the field of aluminium and living things. We are always looking to widen the scope of our family and to continue to demonstrate the critical importance of understanding the consequences of living in the aluminium age. Only by being resolute and steadfast in our aims, as we have been for almost 25 years of Keele Meetings now, will we be able to create the platform for change that is required and is ultimately unavoidable and necessary. The use of aluminium in our everyday lives is burgeoning and so the emphasis on being able to continue to use our favourite metal not only effectively but safely without possible detriment to human health is heightened. We may well be approaching a 'tipping point' and we must continue to prepare for such a future scenario.

The aluminium age has been a force for good and it remains imperative that we are not complacent about its known and potential dangers.

(see; <https://www.hippocraticpost.com/mens-health/the-aluminium-age/>)

Submissions of **new unpublished research, ideas, thinking** are invited in all areas of aluminium (and silicon) research including;

Aqueous aluminium chemistry including its solubility and biological availability in the sea, lakes, rivers *et c.*

Aluminium geochemistry; including soil chemistry

Interactions of aluminium with micro-organisms

Interactions of aluminium in algae and plants

Interactions of aluminium with invertebrates and vertebrates

Human exposure to aluminium

Aluminium in human diseases

Analytical aluminium chemistry

Inorganic aluminium chemistry

Bioinorganic aluminium chemistry

Clinical aluminium chemistry

Aluminium biochemistry

Aluminium in biotechnology

Aluminium in food, cosmetics, drugs, vaccines, prosthetics etc.

Aluminium nanoparticles and nanotoxicity

Silicon in plants, animals and humans in health and disease

These are only suggestions. One of the key features of **Keele Meetings** is that there are no invited speakers and the **Scientific Programme** is entirely determined by the quality and breadth of the submitted abstracts for **Platform** and **Poster** presentations. The **Keele Meetings** have earned a reputation for the dissemination and discussion of high quality research. They are also highly informal and friendly events that help to foster new collaborations and new friendships within the disparate global aluminium research community.

We are all contributors and survivors of 'The Aluminium Age'. Why not come to the **Thirteenth Keele Meeting on Aluminium (KEELE 13)** in *Uxmal Resort Maya*, Yucatan Mexico, and tell us all about your experience with our infamous and favourite metal, aluminium!

Chris Exley

CALL FOR PAPERS

The **Keele Meetings on Aluminium** are organised to provide a forum for the presentation and discussion of **new and previously unpublished research**. Papers are invited in any area of aluminium research. The content of the **Scientific Programme** will as is usual for **Keele Meetings** be organised according to the nature of the contributed papers. The agenda will be set by the most timely research in the field. Submissions are sought for both **Platform and Poster** presentations. Both of these can involve some degree of oral presentation. **Platform** presentations are allocated **30 minutes**. Only 20 minutes should be used to present research. Each Platform presentation will be followed by a **10** minute discussion period. This emphasis on discussion is a key element of the **Keele Meetings** and **Session Chairs** will enforce these times with the utmost rigour! Participants presenting

Posters will, if preferred, be allocated a **5** minute oral slot within an appropriate **Platform Session** to ‘advertise’ their **Poster**.

Prizes are available for the ‘**Best Postgraduate Presentation**’ (**Platform or Poster**) and ‘**Best Poster**’. All presentations, **Platform and Poster**, will be eligible for submission for publication in the **Journal of Inorganic Biochemistry**. The **Keele Meeting Issue of JIB** will be a regular issue of the journal (see for example, JIB (2018) 181, April Issue; <https://www.sciencedirect.com/journal/journal-of-inorganic-biochemistry/vol/181/suppl/C>) and all submissions will be subject to peer review.

If you are interested in presenting your research at the **Thirteenth Keele Meeting on Aluminium** please send a **150 word abstract** of your presentation to Professor C Exley, The Birchall Centre, Lennard-Jones Laboratories, Keele University, Staffordshire, ST5 5BG, UK. Abstract submission by email (c.exley@keele.ac.uk) attachment using WORD is preferred.

Deadline for submission of abstracts is

October 31st 2018.

Please be prompt.

JD Birchall Memorial Lecture

In 2019 the JD Birchall Memorial Lecture will be given by;

Charles T Driscoll Jr

Syracuse University, New York, USA

**Effects of acid deposition on the
biogeochemistry and toxicity of aluminium and
its recovery**

Previous Lectures

1997 Dr C Exley *The Silicon BiCycle.*

1999 Professor RJP Williams FRS *What is Wrong with Aluminium?*

2001 Professor J Savory *Aluminium and Cell Suicide: Oh What a Tangled Web We Weave.*

2003 Dr JP Day *A History of Aluminium in Human Disease.*

2005 Professor DP Perl *The Association of Aluminium and Neurodegenerative Disease (1980-2005). Personal Recollections and Future Perspectives.*

2007 Professor TB Kinraide *Personal Experiences Analysing the Interactive, Toxic and Ameliorative Effects of Aluminium Species and Other Ions.*

2009 Professor S Sjöberg *Chemical Speciation, Solubilities and Surface Complexation in Aqueous Al(hydr)oxide Suspensions.*

2011 Professor SC Bondy *Is the Aluminium in Your Drinking Water Safe?*

2013 Professor T Kiss *From Inorganic to the Biological Chemistry of Aluminium*

2015 Professor Leon Kochian *Plants do Some Surprising Things to Deal With Toxic Aluminium in the Soil!*

2017 Professor Romain Gherardi *Macrophagic Myofasciitis: A Condition Caused by Aluminium Adjuvants*

PRELIMINARY TIMETABLE

Saturday 23rd February 2019

- 15.30 Registration and Poster Assembly
- 20.00 Welcome to Meeting / Welcome Buffet

Sunday 24th February 2019

- 09.00 Conference
- 13.00 Lunch
- 14.30 Conference
- 18.30 End of First Day
- 20.00 Dinner
Poster Session and EVENT TBA!!

Monday 25th February 2019

- 09.00 Conference
- 14.00 Lunch

FREE AFTERNOON

Light and Sound Experience of Uxmal

- 20.00 Dinner

Tuesday 26th February 2019

09.00	Conference
13.00	Lunch
14.30	Conference
17.00	JD Birchall Memorial Lecture
18.30	Closing Remarks
20.00	Conference Dinner

The Scientific Programme will be finalised during December 2018 and will be posted on the Meeting website with all other relevant information.

<http://www.keele.ac.uk/aluminium/>

REGISTRATION

The **Conference** is run at cost. This means that the **Conference Fees** pay for the major costs of the **Conference**. All participants will pay the **Conference Fee** of **\$1000 USD per person** for single room occupancy or **\$800 USD per person** for shared occupancy.

Accompanying guests will be charged the shared occupancy rate of **\$800 USD** and will be treated as delegates.

The Conference Fee includes **everything!** **Registration; Accommodation (23, 24, 25, 26th February); All meals (Welcome Buffet on 23rd to Breakfast on the 27th of February) all special events and excursions, the Conference Dinner, scheduled transport between Merida Airport and the venue.**

I hope you can agree with me that in this day and age of international conferences these prices represent remarkable value for money.

Delegates requiring other combinations of accommodation and attendance etc. should, in the first instance, contact the local hosts (keele2019@cicy.mx; ths@cicy.mx) for help and guidance. Do not contact the venue directly unless advised to do so by the local hosts.

Method of Payment

The first step will be to complete the Preregistration Form. This is available by asking the local hosts (email: ths@cicy.mx or keele2019@cicy.mx).

This form will include details of how to pay the Conference Fee.

Please send the completed Preregistration Form to CP Maria José Estrella Cocom (responsable.tesoreria@cicy.mx) copying your email to Professor Hernandez (ths@cicy.mx).

If you have any questions about payment then please direct these to Professor Teresa Hernandez Sotomayor (ths@cicy.mx or keele2019@cicy.mx).

A small number of **postgraduate bursaries** may be available for **students making presentations (Platform or Poster)** at the **Conference**. These bursaries will cover the **Conference Fee** for shared room occupancy (**\$800 USD**). Please indicate that you would like to be considered for a bursary when you submit your abstract. Please include a note from your M.Sc/Ph.D Supervisor confirming your status as a Postgraduate Student.

The number of places available at the **Thirteenth Keele Meeting** will be restricted to maintain the informal and friendly atmosphere that is characteristic of Keele Meetings. Rooms, single and shared occupancy will be allocated on a first come (payment of Conference Fee) first served basis. It would be helpful if at your earliest convenience you were able to confirm your intention to participate.

Please note that confirmation of your place at the meeting can only be made upon receipt of the Conference Fee and the Registration/Accommodation Form.

The Conference Fee and the Registration/Accommodation Form must be received by 30th November 2018.

If participation is cancelled before December 31, 2018 in writing, the registration fee will be refunded with a reduction of 30% to cover administrative costs.

(Later bookings will only be possible at the discretion of the local hosts.)

VENUE

In 2019 the Thirteenth Keele Meeting on Aluminum will be held at *Uxmal Resort Maya, Uxmal, Yucatan, Mexico*, (www.uxmalresortmaya.com).

This exceptional hotel is situated overlooking the spectacular ruins of the ancient Mayan city of Uxmal. It is approximately 78 km from the city of Merida along the highway to Campeche.

Merida, The White City, was founded by Francisco de Montejo in 1542 over the ruins of T-hò, an ancient Mayan settlement. During the colonial period, stones taken from the Mayan temples were used to build several churches and convents that can be seen in Merida today. The weather in both Merida and Uxmal in February is very pleasant with a temperature ranging between 20 and 30 °C.

Other useful websites for the area include :

www.yucatanoday.com

www.merida.gob.mx

TRAVEL

Arrival in Merida : this city is located in the northwestern region of the Yucatan Peninsula. It has an international airport (Manuel Crescencio Rejon) with daily departures and arrivals from Houston, Miami, Mexico City and Cancun. From the airport at Merida the hotel at Uxmal is about 45 minutes by road.

Please provide the local host with the details of your arrival at the airport as some transportation will be

provided to Uxmal on Saturday 23rd of February and return on Wednesday 27th of February.

CONTACTS

General enquiries should be made to Chris Exley

Abstracts should be sent to Chris Exley

Chris Exley

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Email: c.exley@keele.ac.uk

Enquiries concerning conference fees, accommodations, travel, or the venue should be addressed to the local hosts.

Local Hosts (see page 2 for further details of local host contacts)
Teresa Hernandez, CICY, Calle 43, 130, Col. Chuburna de Hidalgo, Merida, Yuctan, Mexico.

Tel 529999813966 ext 227

Fax: 529999813900

Email: ths@cicy.mx

*Get Ready for Mexico
And KEELE 13 in Uxmal !*