

CROMFORD MILLS

# 7TH ANNUAL INDUSTRIAL REVOLUTION CONFERENCE

ON THE THEME OF INNOVATION

13TH NOVEMBER 2021

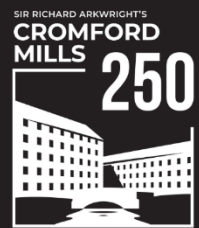
START TIME: 10:00

FINISH TIME: 17:00



ONLINE CONFERENCE VIA ZOOM

CONFERENCE PROGRAMME



**There is one link for this event which is taking place on Zoom**  
**Join using this [LINK](#)**

This event is using Zoom Meeting. This year's conference is being hosted in a single Zoom Meeting. This means there is just one link for the entire day.

Attendees are kindly requested to keep **webcams OFF** and **microphones MUTED**.

You are able to see a list of fellow attendees present in the participants panel and engage with each other, the host and co-hosts using the chat panel.

The chat panel will also be used for Q&A with the speakers throughout the conference.

We will be asking that **Q** or **QUESTION** be inserted at the start of questions directed at speakers.



# TABLE OF CONTENTS

Underlined links in this document are CLICKABLE. The Table of Contents below moves you to locations within this document and other links take you directly to resources associated with the linked text you click.

[Welcome](#)

[About Cromford Mills](#)

[Zoom overview](#)

[Being an Attendee this year](#)

[The Programme](#)

[The Speakers](#)

[ASIRC21 on Zoom](#)

[Conference - Zoom Meeting LINK](#)

[Whereby Help Desk – LINK](#)

[Padlet Feedback - LINK](#)

[Announcements, Orientations and Ground Rules](#)

[Full Zoom ACCESS Details including audio-only Dial-in controls](#)



This Zoom event has Closed Captions throughout and Live Transcription

How this is accessed will be announced at the start of the conference. Please visit the help desk if you have difficulties accessing these accessibility services.

# Welcome

## The Arkwright Society's Industrial Revolution Conference 2021

### Innovation and Industry Programme

Thank you for joining us. This programme is intended to help you get the most from the conference. You will have received the Zoom conference link by email, but it is also included in this programme.

The conference is being hosted in a single Zoom Meeting all day. Attendees are kindly requested to keep **webcams OFF and microphones MUTED**. You are able to see a list of fellow attendees present in the participants panel and engage with each other, the host and co-hosts using the chat panel. The chat panel will also be used for Q&A with the speakers throughout the conference. We will be asking that **'Q'** or **'QUESTION'** be inserted at the start of questions directed at speakers.

**For your comfort there is a 10-minute pause between each speaker and a 1-hour break for Lunch (please have your sandwiches at the ready!).**

During the lunch break we will be playing some short films towards the end of the break about the history of Cromford Mills and the Derwent Valley. At the end of the Conference, we will be playing a short film, 'Hanging by a Thread, Billowing through a Space, as part of Constella's Spin a Tale'.



**There is a help desk that is not on Zoom accessed using Chrome, Firefox or Opera web browsers if you need assistance.**

[More information below](#)

We also included some 'how to get the most from Zoom' info in this manual as well as the speaker's profiles, the timetable for the whole day and more.

***The ASIRC21 team can't wait to welcome you to our screens!***

Hannah Steggles (Host), Eleanor Gunn (Host), Tricia Trice (HelpDesk), Joan Link, Caron-Jane Lyon (Producer & Zoom Controller), Steve Boothroyd, Steve Hill and Helen Chester.

## About Cromford Mills

Built-in 1771 to house the first water-powered cotton spinning mill, the site became the birthplace of the modern factory system. Cromford Mills is internationally recognised as part of the UNESCO World Heritage Site, due to the ground-breaking ingenuity that was quickly replicated in mills across the world, transforming the global textile industry.

### About the Arkwright Society

The Arkwright Society owns and manages Cromford Mills. It is an educational charity devoted to the rescue of industrial heritage buildings and helping to preserve the precious built and natural landscape in and around Cromford.



[Web Link to the Cromford Mills website](#)



[Facebook Page](#)



[Twitter @CromfordMills](#)

---

## Zoom overview

The current version of Zoom is Version 5.8.3 (on 5 Nov 2021)

There are several ways to join this Zoom event.

1. Clicking the direct link with the password included.  
<https://us06web.zoom.us/j/83123524329?pwd=ajE4ajE1aW90ZVNWcDNodG1zZVovUT09>
2. Opening the Zoom app and entering the Webinar or Meeting number and passcode
  - a. Meeting ID: 831 2352 4329
  - b. Passcode: 768088
3. Through a web browser.
  - a. Click 'Join from Browser' link
  - b. Enter your name (no need to worry about webcam & mice permissions)
  - c. Click 'Join'
4. By Telephone. Use the landline or mobile phone dial-in feature.  
(charged at your local providers rates)

---

[Full Zoom login/access details including those for dial-in are at the end of the document.](#)

---

## Being an Attendee this year

Close any unnecessary applications running in the background on your computer. Ideally turn off your mobile, or at least have it on silent. Have a drink or bottle of water nearby.

Here are some ways you can take part.

1. Settle in with your access device of preference, plug in earbuds or headphones.
2. Open the Chat panel and join the attendee dialogue and submit questions for the speakers.
3. If you are a social media superstar and multi-tasker, the conference hashtag is #ASIRC21.

---

**We are [@CromfordMill on Twitter](#) & [@CromfordMills1771 on Instagram](#) if you fancy giving us a mention.**

---

**Each speaker will present for 40 mins leaving 20 mins for a formal Q&A. Submit questions to the chat function with a 'Q' or 'QUESTION' in front of them, so they are easy for the chair to spot.**

**You can ask as many questions as you like. Depending on how many questions are received the chair will ask as many as possible in the time we have.**

---

As an attendee, sit back and know you are part of the digital audience. Make yourself comfortable, do all you can to minimise distractions and enjoy the packed day of speakers. Hannah Steggles and Eleanor Gunn are chairing the day with your computer screen or tablet device as the stage for the 7th Arkwright Society Industrial Revolution Conference.

Next year we hope to be able to offer the choice of joining us 'On the Ground' or attending remotely 'In the Cloud'.

## The Programme

<b>09:45 - 10:00</b>	<b>Zoom Conference Hall &amp; Help Desk opens</b>
<b>10.00</b>	Zoom welcome from Caron-Jane Lyon, Producer & Zoom Controller, who will explain how the conference will run and how everyone can participate to get the most from the day.
<b>10:05</b>	<b>Welcome from Simon Wallwork, CEO, Arkwright Society</b>  <b>Introduction &amp; Welcome from the Conference Chair and Co-Chair</b> Hannah Steggles, Head of Heritage and Eleanor Gunn, Learning and Engagement Coordinator, the Arkwright Society.
<b>10:15 - 11:15</b>	<b>Incentives, Institutions and Industrialisation: A prelude to modern economic growth</b> <i>Opening Keynote Speaker</i> Professor Joel Mokyr, Northwestern University, Illinois.
10 min - Breather - Zoom Buffer	
<b>11:25 - 12:25</b>	<b>Innovation in the Time of Arkwright</b> Dr Gillian Cookson, University of Leeds.
12:25 – 13:30 LUNCH - sadly you must make your own!	
<b>13.10 - 13.30</b>	Over the end of the lunch break a series of short videos about Cromford Mills and the Derwent Valley will be played.
<b>13:30 - 14:30</b>	<b>Building a Legacy of Ingenuity through Entrepreneurial Organisations</b> Professor Simon Mosey, Ghent University.
10 min - Breather - Zoom Buffer	
<b>14:40 - 15:40</b>	<b>The English East India Company's Silk Enterprise in Bengal, 1750-1850.</b> Dr Karolina Hutkova, London School of Economics.
10 min - Breather - Zoom Buffer	
<b>15:50 - 16:50</b>	<b>Re-fashioning Industrial Revolution: Fibres, Fashion and Technical Innovation in British Cotton Textiles, 1630-1780</b> Professor John Styles, University of Hertfordshire.
<b>16:50 - 17:00</b>	<b>Wrap Up with Chair, Hannah Steggles, Head of Heritage, the Arkwright Society.</b>
<b>17:00</b>	And finally...a 5-minute video, 'Hanging by a Thread, Billowing through a Space, as part of Constella's Spin a Tale'.

## The Speakers

### Prof. Joel Mokyr

#### Keynote Speaker



Joel Mokyr is the Robert H. Strotz Professor of Arts and Sciences and Professor of Economics and History at Northwestern University, Illinois. He conducts research on the economic history of Europe and the economics of technological population change, specialising in the economic and intellectual roots of technological progress and the growth of useful knowledge in European societies, as well as the impact that industrialisation and economic progress have had on economic welfare.

Professor Mokyr has received many accolades for his work such as the Heineken Prize from the Royal Dutch Academy of Sciences for a lifetime achievement in historical science and the Balzan Prize for Economic History, awarded once every twenty years. He is a Fellow of many Academies including a corresponding member of the British Academy.

Among his over 100 publications are *The Lever of Riches: Technological Creativity and Economic Progress* (1992), *The British Industrial Revolution: An Economic Perspective* (1999) and *The Enlightened Economy: An Economic History of Britain, 1700-1850* (2011).

---

### Dr Gillian Cookson



Dr Gill Cookson is a visiting Research Fellow at Leeds University.

She was County Editor of the Victoria County History of Durham, directing major new research which produced 'big red books' on Darlington and Sunderland, with accompanying paperbacks.

Dr Cookson researches eighteenth- and nineteenth-century industrial history, especially in northern England; the histories of mechanical engineering, textiles and the iron industry; industrial communities and business networks; landscape history and the growth of towns. Her current research explores the dynamics of innovation in eighteenth-century Britain, including the relationship of science and industry.

Recent publications: *The Age of Machinery: Engineering the Industrial Revolution, 1770-1850* (2018). Her forthcoming work, to be published by Boydell, is titled *Inside Industrialization*.



## Prof. Simon Mosey



Simon Mosey is Director of Haydn Green Institute for Innovation and Entrepreneurship at Nottingham University and visiting Professor at Ghent University. He edits *The Journal of Technology Transfer*. His research addresses technology entrepreneurship, entrepreneurship education and building a culture of innovation.

Professor Mosey is co-author of popular books such as *Ingenuity* (2014) and *Building an Entrepreneurial Organisation* (2017) and has published widely in leading academic journals such as *Entrepreneurship Theory and Practice*, *Research Policy*, *Journal of Management Studies*, *Academy of Management Learning & Education* as well as in *The Washington Post* and the *Financial Times*.

He chairs the award-winning Young Entrepreneurs Scheme that has developed entrepreneurial skills in over 5000 academic researchers and has led executive education and community events on impact-led entrepreneurship and social, organisational and environmental innovation.

Simon previously held research and management posts at BP and Courtaulds.

---

## Dr Karolina Hutková



Dr Karolina Hutková is a Research Officer in the Department of Management at the LSE, currently researching Britain's sugar consumption and industry in the first era of industrial capitalism, including British Empire connections.

Dr Hutková has a PhD from Warwick University, and 2 MScs, one in the Political Economy of Late Development (LSE) and the second in International Development Studies (Palacky University in Olomouc). She has designed and taught MSc level courses on global economic development and business in historical contexts.

Karolina was previously a Fellow in the LSE Department of Economic History where her research led to a monograph 'The English East India Company's Silk Enterprise in Bengal, 1750-1850: Economy, Empire and Business'. This focuses on the link between the Bengal and British silk industries set up under the English East India Company (EEIC).

Other publications include articles on technology transfer from Italy to the Bengal Silk Industry and more widely on the global transfer of Piedmontese silk reeling technologies



## Prof. John Styles



John Styles is Professor Emeritus in History at the University of Hertfordshire, and Honorary Senior Research Fellow at the Victoria and Albert Museum (after 13 years as their Head of Graduate Studies). He was the Eleanor Searle Visiting Professor of History at the California Institute of Technology and Huntington Library from 2019-20.

Professor Styles led the European Research Council project 'Spinning in the Era of the Spinning Wheel' from 2010 to 2015. He specializes in the history of early-modern Britain and its colonies, especially material life, textiles, manufacturing, and design.

He curated the exhibition 'Threads of Feeling', which was displayed at the London Foundling Museum in 2010-11, and at the DeWitt Wallace Decorative Arts Museum at Colonial Williamsburg, Virginia, USA in 2013-14.

Widely published, Professor Styles' books include *Design and the Decorative Arts: Britain 1500-1900* (2001), *The Dress of the People: Everyday Fashion in Eighteenth-Century England* (2007), *Threads of Feeling: The London Foundling Hospital's Textile Tokens, 1740-1770* (2010) and 'The Rise and Fall of the Spinning Jenny', *Textile History*, 51 (2020).

He is currently writing a series of articles and a book on fashion, textiles and the origins of the Industrial Revolution.

## ASIRC21 on Zoom

1. Conference - Zoom Meeting
2. Help Desk

### Conference - Zoom Meeting [LINK](#)

The Zoom Meeting space where all the speaker sessions happen. The link you received for the conference is for the Conference Hall.

### Whereby Help Desk – [LINK](#)



If you have login difficulties to Zoom, the help desk is not on Zoom. It is there to be a friendly port in the digital storm. Tricia Trice is standing by to help you get to where you need to be.

[Help Desk - https://whereby.com/asirc21-helpdesk](https://whereby.com/asirc21-helpdesk)

Enter your name, accept the permission request, 'Knock at the Door' and a member of the Helpdesk Team will come to you as fast as they are able.

### Padlet Feedback - [LINK](#)

This year we are using Padlet to gather feedback and give you a place to share your thoughts about the day. You have a question you didn't get to ask or complement a speaker that you found especially interesting. You may want to share with us how we could improve the conference next year. Padlet will be open for 72 hrs after the conference for you to reflect and feedback to us in your own time.

---

## Announcements, Orientations and Ground Rules

All the Speakers' talks are being recorded. Be aware that if you type in the chat, you will become part of the conference record.

Attendees are free to take screen grabs and are encouraged to Tweet, Instagram, TikTok, Facebook or Snapchat their conference experience. Please use the hashtag #ASIRC21

**The Event Producer (Caron Lyon @pcmcreative) and Chair (Hannah Steggles) and Co-Chair (Eleanor Gunn) will be accompanying you throughout the entire day. As organisers of the digital event, it's our responsibility to look after you while you are in our digital care. The event coordinator (Joan Link) will be with you in the audience.**

At the start of the conference, we will be sharing some ground rules, these relate to general mental wellbeing and digital wellbeing, firstly being respectful of each other in chat and ensuring you are able to participate and engage to your heart's content.

## **Online Protocol and Code of Conduct**

The Arkwright Society is committed to providing a safe, productive, and welcoming environment for all participants. All participants, including, but not limited to, attendees, speakers, the Arkwright Society staff, volunteers and all others are expected to adhere to this online Code of Conduct.

Following a Code of Conduct enables the Arkwright Society to create the best experience possible for all attendees. It relates to general mental wellbeing and digital wellbeing, firstly being respectful of each other and ensuring you can participate and engage to your heart's content.

Please take some time to read the following information before joining us. At the start of the event, we will be reminding you of this agreement.

### **Online Event Sessions: Zoom Protocol**

1. Make sure the version of Zoom you are using is up to date; Zoom regularly updates its platform to eradicate bugs and other issues. Most computers do not update Zoom automatically, so you will need to check this manually. The most recent version of Zoom (at the time of creating this programme) is 5.8.3
2. All online events have unique meeting IDs and secure passwords that will only be shared with participants who have booked onto the event. Please do not share the meeting code with anyone else.
3. If you join the event before the official door opening time then you will be placed in the waiting room until the Arkwright Society accepts you into the event.
4. Make sure your name is appearing as you would like to be addressed (participants can edit their names after joining by clicking the "Participant" tab and then clicking on their own name).
5. The sessions will be recorded, and the Arkwright Society (as host) has full control over the session. Be aware that if you type in the chat panel, you will become part of the conference record.
6. Participants can ask questions and make comments using the "Chat" feature (also on the bottom and centre of your screen). The chat will be saved, and quotes or questions may be used by the Arkwright Society for social media marketing purposes.
7. One to one chat facilities and microphones will be disabled, and the group chat facility will be monitored throughout the sessions by the Arkwright Society staff and volunteers.

8. We advise cameras to be kept off throughout. An Arkwright Society staff member will be monitoring this throughout and turning cameras off on entry.
9. Only the Arkwright Society staff, and the Speakers can share their screens.
10. File sharing is not enabled.

If you have any questions or concerns, please contact Hannah Steggles, Head of Heritage by email [hsteggles@arkwrightsociety.org.uk](mailto:hsteggles@arkwrightsociety.org.uk).

### **Expected Behaviour:**

- All speakers, participants and the Arkwright Society staff and volunteers are to be treated with respect and consideration, valuing a diversity of views and opinions.
- Please use appropriate language within the sessions (use of offensive, obscene, abusive, racist or sexual language will not be tolerated).
- Please join in and communicate openly in the sessions through the Chat facility whilst respecting and listening to others.

### **Unacceptable Behaviour:**

During these sessions no participant should:

- Engage in intimidating, harassing, abusive, discriminatory, derogatory or demeaning verbal or written comments or actions in any form.
- Engage in offensive, degrading, humiliating, harmful, or prejudicial behaviour (including verbal or written comments or sharing visual images) related to gender, sexual orientation, race, religion, disability, age, appearance, or other personal characteristics.
- Personally record, store or distribute video or photographic material from the session.
- Share any material that could be considered offensive, inappropriate, distressing, threatening, bullying, offensive or illegal.

### **Dealing with unacceptable behaviour:**

The Arkwright Society reserves the right to take any action deemed necessary and appropriate, including immediate removal from the session without warning, in response to any incident of unacceptable behaviour, and the Arkwright Society reserves the right to restrict attendance at any future session.

### **Reporting an Incident:**

If you have any questions or concerns or if you see, overhear or experience a breach of the Code of Conduct and would like to report this during the session please email Hannah Steggles, Head of Heritage at [hsteggles@arkwrightsociety.org.uk](mailto:hsteggles@arkwrightsociety.org.uk).

*Enjoy the day*

Caron Lyon - ASIRC21 Digital Producer from PCM creative

and the entire ASIRC21 Team

---

## **Full Zoom ACCESS Details including audio-only Dial-in controls**

**Sir Richard Arkwright's Cromford Mills is inviting you to a scheduled Zoom meeting.**

**Topic:** The Arkwright Society's 7th Industrial Revolution Conference

**Time:** Nov 13, 2021 09:45 AM London

**Join Zoom Meeting**

<https://us06web.zoom.us/j/83123524329?pwd=ajE4ajE1aW90ZVNWcDNodG1zZVovUT09>

**Meeting ID:** 831 2352 4329

**Passcode:** 768088

One tap mobile

+442034815237,,83123524329#,,,,\*768088# United Kingdom

+442034815240,,83123524329#,,,,\*768088# United Kingdom

Dial by your location

+44 203 481 5237 United Kingdom

+44 208 080 6591 United Kingdom

+44 330 088 5830 United Kingdom

+44 131 460 1196 United Kingdom

**Meeting ID:** 831 2352 4329

**Passcode:** 768088

**Find your local number:** <https://us06web.zoom.us/u/krhAL8QW>

Phone controls for participants dialing in

The following commands can be entered via DTMF tones using your phone's dial pad while in a Zoom meeting:

\*6 - Toggle mute/unmute

\*9 - Raise hand