

Week One Starts

Monday 30th

September 2019

Season

2019-20 programme

# Explore Season 1 Programme 2019-20

# 9

#### If you're new to Explore why not come along and try the programme?

There are two options:

- Attend our FREE taster event with mini lectures from our expert tutors find out more by clicking <u>HERE</u>
- Book your free session in Week One starting Monday 30th September
   2019 by emailing <a href="weekerglore@gmail.com">weareexplore@gmail.com</a> Click <a href="https://doi.org/10.1007/j.com">HERE</a> to see the Week

You need to join Explore in order to attend our full programme after your free taster session. Click <a href="here">here</a> for details of how to join Explore! If you're not a full-member you can also sign up to our <a href="Explore Extra">Explore Extra</a> courses and Saturday sessions—find more details further on in the <a href="programme">programme</a>.

Most of our sessions require no advance booking—just turn up. However, for study groups, practical art and some walks, we do need to manage attendances. These sessions (only) have specific booking instructions in this programme.

If you are disabled and would require a helper in order to take part in Explore, the helper can attend without charge.

# Explore Season 1 Programme 2019-20

Our Season One 2019-20 programme builds on ideas of restoration and regrowth, with special inspiration for the theme drawn from Post-WWI efforts, now a century ago, to repair a fractured society with adult education. From firm foundations we have built our programme with ideas around nurture and development, healing and reparation, creation, destruction and renovation. By deconstructing narratives and assessing crumbling ideologies we hope to build a more secure understanding for the future through all our strands with our Reconstruction-themed Season One programme.

Congratulations to the programming team -

Art History and Design: Helen Watson and Margaret Adams

Narratives (Literature, Cinema and Music): Rita Prabhu and Angela Young

Perspectives (Science and Mathematics): Christine Burridge and Joy Rutter

Culture & Society (History and Archaeology): Joy Rutter and Kath Smith

Philosophy: Joy Rutter

With direction from Bronwen Calvert, Rachel Lister & Malcolm Grady.

We are also grateful to <u>Ampersand Inventions</u> for our accommodation at Commercial Union House.

Quick Links to the programme starting: Monday Tuesday Wednesday Thursday Friday Saturday

'It is not knowledge, but the act of learning, not the possession but the act of getting there, which grants the greatest enjoyment.' Carl Friedrich Gauss (1777-1855)



# Dr Peter Vickers:

Which scientific ideas will last for ever?

Thursday 19th September 2019 18.00 to 19.30

Lit & Phil, 23 Westgate Road Click HERE

to book your FREE place! Dr. Vickers is an Associate Professor at the University of Durham.

This event is a collaboration with the Centre for Humanities Engaging Science & Society (CHESS) at the University of Durham and the Lit & Phil.





# FREE Taster Event

Tuesday
24th September 2019
11.00 to 13.00

4th Floor

Commercial Union House

Lectures from our expert

tutors: click <u>HERE</u> to book

your FREE place!



# Explore Extra



Interested in Explore but not available during the working week? <u>Explore Extra</u> has courses specially designed for YOU! Including:

Monday evening: John Sadler

History Course: The Blues and The Greys: The American Civil War

For more course details please see <u>page 11</u> of the programme.

Cost-£65 per course for non Explore members

Tuesday evening: Mike Green

Music Course: Exploring Reconstruction in Music

For more course details please see <u>page 22</u> of the programme.

Cost-£65 per course for non Explore members

Thursday evening: Stephanie Piper

Archaeology Course: Archaeology: An Introduction

For more course details please see <u>page 41</u> of the programme.

Cost—£40 per course for non Explore members

Find out more about <u>Explore Extra</u> online and keep reading the programme for more details.

# Explore Extra—Saturday Sessions

Non-members can now enjoy our Saturday programme too! You can find out more <a href="here">here</a>







Philosophy Course: 30th September to 11th November

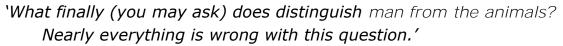
Animals in Particular

Tutor: <u>Ian Ground</u>

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street,

Newcastle upon Tyne

10.30 to 12.00



[Midgley, M. (2002) 'Beast and Man: The Roots of Human Nature'.]

Perhaps it would be a good idea if philosophers stopped writing about "Animals". It generally only means non-human and it hard to see that a negatively defined class is a fruitful subject for philosophical exploration. However, some particular species have been the subject of philosophical reflection, including species of wolf, bats, parrots, dolphin, the octopus and the vervet.

In this course we will explore what philosophical issues arise from considering species in their particularity.



#### Art History and Design on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.45 to 11.45

Date Tutor Title

30 Sep Peter Quinn Paula Rego (b. 1935)

07 Oct David Hirst Art Along the Tyne

14 Oct Martin Roberts Deconstruction: the lost buildings of the city of Durham

Examining a dozen significant city buildings that, for a variety of reasons, have not survived down to the 21st

century.

21 Oct Peter Quinn Lee Krasner (1908-84)

28 Oct Chris Wadsworth Sheila Fell: a life in art cut short

04 Nov Stephen Moonie Conceptual Art

11 Nov Katie Cuddon The Studio as Muse

18 Nov David Rosier Destruction and Loss of China's Imperial heritage

25 Nov Jill Harrison Art and Identity: textiles and trades in Trecento Siena

02 Dec Peter Quinn William Blake (1757-1827)



#### Art History and Design on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

12.30 to 13.30

Date Tutor Title

30 Sept Peter Quinn Thinking About Art Terms: baroque

07 Oct David Hirst From Berwick to Williamson-Bell: North East wildlife artists

14 Oct Martin Roberts Reconstruction: Traditionalists v Modernists

The post-war architecture of Durham University -examining the rapid growth of the University and divergent

styles in which its buildings were designed.

21 Oct Peter Quinn Thinking About Art Terms: renaissance

28 Oct Chris Wadsworth LS Lowry: works in Cumbria and the North East

04 Nov Stephen Moonie Post-Minimalism

11 Nov Olivia Turner The Autoscopic Eye: looking at contemporary interdisciplinary art practice

18 Nov David Rosier World Class Museums and Sites of National Interest

25 Nov Jill Harrison Art and Enterprise: vice and virtue in the Trecento Florentine Wool Guild

02 Dec Peter Quinn Thinking about Art Terms: modern



Art History Course:

Scotland's Art 1890-present

Tutor: Peter Quinn

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30



We continue our investigation of Scotland's art. Beginning in the 1890s we feature those artists and craftspeople who gained worldwide attention as practitioners of Scotland's own version of the Arts and Crafts movement. In the subsequent weeks we'll examine the work of painters, sculptors, illustrators and installation artists.

Date Title

30 Sep Art and Craft

07 Oct Gillies, Redpath and Eardley

14 Oct Colquhoun and MacBryde

21 Oct Alasdair Gray's 'Lanark'

28 Oct Paolozzi, Finlay, Bellany and Davie

25 Nov Eighties excess

02 Dec Contemporary concerns

Art Conservation One-Off: 11th November

Laser applications for the restoration of monuments and works of art

Tutor: Charis Theodorakopoulos

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30

This talk looks at one of the latest developments in art conservation, but aims to keep the technical details at a level that everyone will be able to follow.

Explore Extra —cost £65 per course to non Explore members

History Course: 7th October to 25th November

The Blues and The Greys: The American Civil War

Tutor: John Sadler

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

19.00 to 20.30



From 1861–1865, the United States of America became disunited – after 'the death of the 1st Republic' and a titanic struggle they were reborn as something very different. The North, with a prosperous population of 22 million, fought against the south, with a population of just 9 million but with 4 million un-free black Americans owned by a relative handful of slave owners. The war (as none foresaw at the outset) cost 600,000 military casualties and perhaps a third more of civilian deaths. It also changed the nature of warfare forever; the first real industrial war with levels of technological development in weapons manufacture, scale and deadliness that anticipated the horrors of the Great War. It left deep and enduring scars in the southern states who still regard the economic and cultural warfare represented by Sherman's 'March to the Sea' as a crime against humanity. At the start the entire complement of the US Army stood at 16,000 – by the end both sides had over a million men each under arms.

Non-members—How to Book:

Please book your place via Eventbrite by clicking the title above or using this link: Explore Lifelong Learning Eventbrite

If you have any issues booking please contact us at <a href="weareexplore@gmail.com">weareexplore@gmail.com</a>

Explore Members:

This course is already included in your Explore membership so is free to attend without booking.

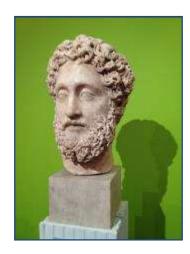
Classics: 1st October to 3rd December

Latin at the Lit & Phil

Tutor: Alan Beale & Adrian Spooner

Venue: Lecture room & Loftus room, Lit & Phil

10.30 to 12.00



Explore members are cordially invited to join our Latin classes for £1 per session (donation towards room hire).

There are 2 groups:

Group A reading selections from Cicero

Group B reading selections from Livy Book 21 and Ovid Amores

A-Level or O-Level (however dimly remembered) or a reading knowledge of Latin will be needed.

These classes are run by the Lit & Phil. For more details of the sessions contact the <u>Lit & Phil</u> or <u>Alan Beale</u> directly.

History Course: 1st October to 12th November

Housing the People

Tutor: John Griffiths

Venue: B&D Studios, 3rd floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30-12.00



This year sees the centenary of the Housing and Town Planning Act 1919, a landmark law which for the first time obliged local authorities to provide housing, and which was to change the face of Britain. This course looks at the history of social and mass housing in Britain from the nineteenth century to the present, considering not just municipal housing but also other initiatives undertaken to provide decent homes and living conditions, and the effects of public policy on housing conditions since 1979.

Culture & Society Course: 19th November to 3rd December

Explore British Rock Art: Context and Conservation

Tutor: Kate Sharpe

Venue: B&D Studios, 3rd floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30-12.00

This course will begin with an introduction to the fascinating phenomenon of rock art, known locally as cup and ring marks. We will see how it fits within wider traditions of rock art across the world, before looking more closely at the distribution, chronology, and variation of rock art across Britain and Ireland. The second session will build on this to consider more specific regional examples in a variety of landscape and monumental contexts, exploring possible roles of rock art within early societies. Finally, we will turn to the more practical challenges of identifying, recording, protecting and preserving this important part of our heritage for future generations.

#### Narratives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street,

Newcastle upon Tyne

10.45 to 11.45

Date Tutor Title

01 Oct Clare Jackson The Epiphanic Moment in the Short Story

one of the most important books in her life as a reader and writer.

Within the tight constraints of the short story, characters often experience a moment of insight which overturns years of misunderstanding. In this session we will be considering the short stories 'Clay' by James Joyce, and 'The Good Corn' by H.E. Bates, and reflecting on how the authors rise to the challenge of presenting such epiphanic moments.

Rachel Lister Reconstructing Myths in the Deep South: Eudora Welty's The Golden Apples

Eudora Welty's story cycle, The Golden Apples, has long been celebrated as one of literature's most accurate and rich representations of small-town life in America's Deep South. Part of the cycle's richness emerges from its sustained engagement with Greek mythology. Welty weaves the narratives, themes and images of some of the most beloved Greek myths into her depiction of the fictional town of Morgana. We will explore her modern incarnations of Zeus, Perseus, Medusa and Odysseus and ask why Welty might use Greek mythology to examine the minutiae of life in a small Southern town. We will also consider the legacy of Welty's story cycle and ask why the much-admired short-story writer Alice Munro has consistently identified The Golden Apples as

15 Oct Mike Green The Art of the Fugue

#### Narratives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street,

Newcastle upon Tyne

\*10.45 to 11.45



Date Tutor Title

22 Oct Pamela Woof Don Juan in Europe

After the introduction to the epic poem *Don Juan* earlier this year, this session will follow Don Juan in his travels and adventures through Europe. The hero of Don Juan is its author, Lord Byron. The title character is a mere figure in the story. It is Byron's quicksilver mind that attracts the reader to range with him over sea and land, love and language, rhyme and reason. Reading this comic epic, even in bits and here and there, is a sparkling tonic.

29 Oct Roger Mitchell Reconstructions: Documenting Post-World War Two Britain

In these two interlinked sessions we will explore the way a range of important filmmakers depicted the changing face of Britain as it dealt with the challenge of reconstruction in the wake of World War 2. We will look at a range of fascinating historical filmic documents that not only bear witness to the social and industrial transformations of a rapidly changing world, but also show a variety of approaches to the form of documentary filmmaking.

05 Nov Michael Ayton The Rubaiyat of Omar Khayyam

These famous versions by Edward FitzGerald of short epigrammatic poems by Omar Khayyám represent neither translations nor an independent work, but have long been famed for their haunting beauty and power. Texts will be provided in class, but the poems can be read (in both 1st and 5th editions) <u>HERE</u>

#### Narratives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street,

Newcastle upon Tyne

10.45 to 11.45

Date Tutor Title

12 Nov Marie Addyman\* Heaney in the Autumn (\*This sessions will run 10.30-12.30)

Following on our discussions in previous terms concerning Heaney as heir, translator and adaptor of existing poetic traditions, we turn to his translation of the Anglo-Saxon epic, *Beowulf*. It would be helpful to have read this beforehand. You might like to compare it to Michael Morpurgo's, which we might refer to for contrast.

19 Nov Helen Williams Eliza Haywood's Contribution to English Literature

Eliza Haywood (c.1693 - 1756) writer, actress and publisher described as "prolific even by the standards of a prolific age" wrote and published over seventy works during her lifetime including fiction, drama, translations, poetry, conduct literature and periodicals. This session will provide an opportunity to find out more about this 18th century literary figure, regarded as one of the founders of the English novel.

26 Nov Clare Nally Reconstructing the Victorians: Adaptions of Emily Brontë

Adaptations and prequels are commonly viewed as being less authentic than the original source text. However, as Julie Sanders points out in her book *Adaptation and Appropriation*, the adaptation can also function to rethink a classic, rather than simply ventriloquising it. Therefore, in these two sessions, we will look at some of the ideas related to adaptation, and relatedly, the reconstruction of the 'myth' of Emily Brontë in poetic texts. A working knowledge of *Wuthering Heights* is advisable but not essential. In evaluating how Emily Brontë's 'myth' is evoked by modern and contemporary poets, we will look at the following poems: 'Emily B' by Simon Armitage (2013), and two poems both entitled 'Wuthering Heights' by Sylvia Plath (1961) and Ted Hughes (1998).

03 Dec Brycchan Carey Huckleberry Finn: Satire, Civil War, and Reconstruction (See Page 19 for description)

#### Narratives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street,

Newcastle upon Tyne

\*12.30 to 13.30



Date Tutor Title

01 Oct Clare Jackson The Epiphanic Moment in the Short Story (Continued)

08 Oct Rachel Lister Reconstructing Helen of Troy

Historians and literary writers have been asking questions about Helen of Troy for millennia. In this session we will explore representations of Helen in a range of ancient and modern texts. We will begin by looking at her appearances in Homer's epic poetry and the *Histories* of Herodotus and move on to more modern representations, including those by Christopher Marlowe, H.D., Margaret Atwood and Carol Ann Duffy.

15 Oct Mike Green Concerto for Orchestra

22 Oct Pamela Woof Don Juan in Europe (Continued)

29 Oct Roger Mitchell Reconstructions: Documenting Post-World War Two Britain (Continued)

05 Nov Michael Ayton A.E. Coppard, 'The Higgler'

Gripping, resonant, realistic, this is a brilliant story by an acknowledged but underrated master of the genre. The story (it's the first in the collection) can be read/downloaded here: <u>HERE</u>

Last updated 19/11/2019

#### Narratives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street,

Newcastle upon Tyne

\*12.30 to 13.30



Date Tutor Title

12 Nov Marie Addyman\* Heaney in the Autumn (Continued) (\*This sessions will run 10.30-12.30)

19 Nov Helen Williams Eliza Haywood's Contribution to English Literature (Continued)

26 Nov Clare Nally Reconstructing the Victorians: Adaptions of Emily Brontë (Continued)

In the second session, we will look at the influence of Wuthering Heights in terms of contemporary adaptation and appropriation, through a collection of short stories entitled *I am Heathcliff*, edited by Kate Mosse (2018).

O3 Dec Brycchan Carey Huckleberry Finn: Satire, Civil War, and Reconstruction (Continued)

Highlighting this season's theme of 'Reconstruction', Professor Brycchan Carey from the University of Northumbria's Humanities Department will focus on Mark Twain's Huckleberry Finn. First published in 1884, the book has been subject to controversy on a number of grounds, but it is claimed by some that the character of Huckleberry Finn illustrates the correlation, and even interrelatedness, between white and black culture in the United States.

Literature Course: 8th to 22nd October

Oscar Wilde: Beyond the Plays

Tutor: Clare Jackson

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30

Oscar Wilde wrote so much more than his plays, and his interests ranged for more widely than a single preoccupation with aesthetics. He was an essayist and a journalist, as well as a poet and short story writer. In these sessions we will be considering how Wilde used a range of genres to present his ideas, and how radical in fact his thinking was.

Science Course: 15th October to 26th November

The Age of the Dinosaurs

Tutor: Derek Teasdale

Venue: B&D Studios, 3rd floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30

The modern view of dinosaurs contradicts the view that they were slow, dim-witted and ripe for extinction.

Instead, we now know that they were superbly evolved and would still be the dominant creatures on the planet, were it not for a chance asteroid impact. Indeed, birds are clearly descended from dinosaurs, so they are still with us.

They are fascinating and surprising: come and find out why...



Film Course: 12th to 26th November

British Cinema 1945-65

Tutor: Roger Mitchell

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 16.00



In these three interlinked sessions we will explore the way that British cinema reflected the wide-ranging social and cultural changes that the country underwent in the aftermath of World War 2. Incorporating the advent of youth culture in the 1950s, these sessions will focus on the way British cinema of the period depicted a gradually changing view of a previously uniform notion of the British national identity, as well as the challenge that was posed to mainstream aesthetics and attitudes.

The structure of the course will be as follows:

12 Nov Ealing Studios: The Breakdown of the Collective Consensus

19 Nov The British New Wave: Class Conflict and the New Regionalism

26 Nov Dissenting Voices in British Popular Cinema

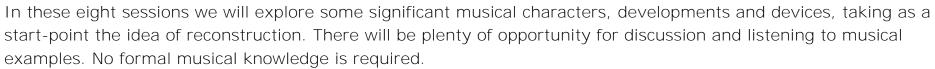
#### Explore Extra -cost £65 per course to non Explore members

**Exploring Music: Reconstructions** 

Tutor: Mike Green

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

18.00 to 19.30



Date	Title
08 Oct	Frederick Delius
15 Oct	Reconstructing Paganini
22 Oct	Paul Hindemith
05 Nov	The Notre Dame School
12 Nov	Peter le Huray
19 Nov	Ernest J Moeran
26 Nov	Bachianias
03 Nov	Le Tombeau de Couperin

#### Non-members—How to Book:

Please book your place via Eventbrite by clicking the title above or using this link: <a href="Explore Lifelong Learning Eventbrite">Explore Lifelong Learning Eventbrite</a>

If you have any issues booking please contact us at <a href="weareexplore@gmail.com">weareexplore@gmail.com</a>

#### Explore Members:

This course is already included in your Explore membership so is free to attend without booking.



Science Course: 2nd October to 13th November

Origins and Endings: Cosmology

Tutor: Fred Stevenson

Venue: Media Room, Newcastle Arts Centre, Westgate Road, Newcastle upon Tyne

11.00 to 12.00

For Directions to Newcastle Arts Centre please see their website **HERE** 



The 'Origins and Endings' courses (biology with <u>Wallace Arthur</u> and cosmology with Fred Stevenson) were planned around the same theme to complement one another, and we hope members will find this approach interesting. However each course is complete in itself and they can be enjoyed separately.

Date	Title
02 Oct	The Andromeda Galaxy and the scale of the universe
09 Oct	The Origin of the Universe: the big-bang theory, the finite age of the universe and the generation of hydrogen and helium in the first few minutes
16 Oct	The Origin of Elements: stars, their life cycles and the fusion of elements within their cores
23 Oct	The Origin of Galaxies and the Large-Scale Structure of the Universe
30 Oct	No Session
06 Nov	The Origin of Planetary Systems
13 Nov	Are We Alone: the possible origin of other beings in the universe
20 Nov	Endings: planets, stars, the universe

Mid-Week Literature Course: 2nd to 23rd October

Petrarch After Petrarch

Tutor: Michael Ayton

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30-12.00



Poetic borrowing from the Italian poet Francesco Petrarca (1304–74) began even during his lifetime (Boccaccio in Italy, Chaucer here in England) and by the sixteenth century had arguably become the predominant mode of poetic expression throughout Western Europe. What was adopted was not just a specific form of the sonnet as a vehicle for expressing sexual love, but a whole set of rhetorical and metaphorical devices including exuberant wordplay, conceits, paradoxes and oxymorons, along with stylised avowals of unrequited love and dramatic alternations of psychological states.

All of this exerted a massive influence on lyric poetry through to the Romantic period and beyond. We'll trace this influence across European poetry, focusing on Italian and French poetry as well as poetry in England where Petrarchism entered via the court of Henry VIII in the 1520s. We'll look in particular at the work of female Petrarchists such as Vittoria Colonna and Louise Labé, and also at the parodying of Petrarchism by writers including Shakespeare, itself, paradoxically, a form of Petrarchism.

All texts will be provided in class, and no prior knowledge or reading is required or assumed.

One-off Literature Special: 30th October

Mozart's Magic Flute, Viennese Popular Theatre and Contemporary Freemasonry: A

Potent Combination

Tutor: Michael Ayton

Venue White Room, 4<sup>th</sup> floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30-13.30



Mozart's stunning music in this his co-final operatic masterpiece has been massively popular ever since the work's premiere, but its libretto has frequently been thought puzzling, incoherent or even just plain silly.

We'll look in depth at the complex roots of this frequently bewildering text in Viennese popular theatre, and in particular at its numerous, even if disputed, literary influences and intertexts, which range from an eighteenth-century French novel, a contemporary German fairy-tale collection, a Masonic essay on Egyptian Mysteries, a rival play with music, another contemporary opera and a previous piece of incidental music by Mozart himself through to a twelfth-century Arthurian romance! Even the authorship of the libretto by Mozart's friend and fellow mason the theatre impresario Emanuel Schikaneder has been the subject of dispute.

All texts (and magical sounds!) will be provided in class, and no prior knowledge is required or assumed.

Art History Course: 6th November to 27th November

British Political Cartoons 1918 to the present day

Tutor: Malcolm Gee

Venue : Green Room, 4<sup>th</sup> floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30 to 12.00

The aims of the series of seminars are to consider how cartoonists have responded to the issues of their times, the role their work has played in the Press, differences between them in terms of style, approach and politics – and have some fun while doing so.

Date	Title
06 Nov	Introduction: the 'Cartoonist's Armoury' and the history of the political cartoon in the British Press.  The Interwar Period: peace negotiations, sorting out Europe, class struggle and portraying dictators.
13 Nov	War and Cold War; from a Labour Government to SuperMac and 'you've never had it so good'; Suez and the end of Empire.
20 Nov	Britain & Europe Part 1 Alec Douglas-Home to Margaret Thatcher, Harold Wilson to James Callaghan: managing decline, coping with the unions, the new Irish question
27 Nov	Britain & Europe Part 2 From New Labour to the Big Society: Peace at home and wars abroad.
04 Dec	T.B.C. Topics to be agreed together.

History Course: 13th November to 4th December

Researching Family History: a short introduction

Tutor: Neil Storey

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30 to 12.00

This course will look at practical research skills (with and without the use of computers) and what can be learned from family photographs, paperwork and memorabilia. Sessions will also cover ways to research relatives in both World Wars.

Members are very welcome to bring along their own photographs and documents to 'show and tell' or to discuss with the tutor and share with the group.

#### Perspectives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

12.30 to 13.30

Date Tutor Title

02 Oct Alan Hart Kathleen Blackburn: Botanist

Kathleen Blackburn (d. 1968) was a botanist and university lecturer in Newcastle-upon-Tyne in the 20th century. She had an international reputation for her studies of plant chromosomes and pollen. This talk, based on her archive at the Natural History Society of Northumbria, will introduce her work and its significance, her part in botanical expeditions to the Hebrides, and touch briefly on a botanical controversy involving one of her colleagues.

09 Oct Derek Teasdale A New Moon: Latest Discoveries

With an imminent human return to the Moon highly likely, what does this mean for Lunar science research? How should scientists tap into the vast budgets allocated to this developing space race? What are the big questions for this generation?

16 Oct Brian Tanner Reconstructing the Thought-World of Thirteenth Century Polymath, Robert Grosseteste

Grosseteste held that "The same cause, provided it remains in the same condition, cannot produce anything other than the same effect", in other words that there are universal laws governing the behaviour of nature. He described the method for developing a universal principle from repeated observations under controlled conditions, he developed the principle of falsification for testing theories and argued that the explanation needing fewer suppositions and premises was the best. Most importantly, he developed the method of reducing a complex and intractable problem to its simpler, tractable, testable components. We examine Grosseteste's theory of light, which in attempting to explain the stability of matter, resulted in a remarkable Big Bang model of cosmogenesis. His understanding of optics resulted in the first explanation of the rainbow in terms of refraction.

#### Perspectives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

12.30 to 13.30

Date Tutor Title

23 Oct Charlotte Roberts Archaeological Human Remains: why they are important

The talk will outline why and how we study human remains and focus on the importance of looking at health and well-being from an archaeological perspective with some examples. We will also focus on taking this subject matter into the public realm, from schoolchildren to the older generation, and from exhibitions to MOOCs (Massive Open Online Courses).

30 Oct Peter Lovering Do we need cars in city centres?

In this talk, Peter will outline the problems with cars and how city centres could change if there were none. With reference to Government policy and industrial strategy, we will examine the short shortcomings and advantages of traditional public transport modes. He will also outline Personal Rapid Transit (PRT) and BeemCar, it's benefits and potential within a more efficient, effective, integrated public transport system, in a car-free city centre.

06 Nov Riona McArdle Watch Your Step: What can walking tell us about dementia?

The way we walk seems simple but it actually requires complex thinking processes. When we begin to experience problems with our thinking or memory, such as dementia, our walking may change to reflect these problems. This talk will outline how we can take an in depth look at walking patterns in the clinic and the home, and how this information can help support the diagnosis of dementia and its subtypes.

13 Nov Vivek Nityananda What the Praying Mantis tells us about vision

The talk will discuss research into insect sensory biology using a comparative approach. How different are insect senses from our own and how can we figure it out? I'll present our current work into 3D vision and attention in praying mantises as an example.

#### Perspectives series on the theme of 'Reconstruction'

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

12.30 to 13.30

Date Tutor Title

20 Nov Naomi Foster Geology of the North Pennines – and beyond!

The North Pennines is an Area of Outstanding Natural Beauty and UNESCO Global Geopark. So, what does that mean? This talk will introduce the network of Geoparks around the world and explore the geology of the North Pennines with the help of object, images and some animations made by teenagers.

27 Nov Matthew C Wright Chemicals in the environment and disease

This talk will examine some of the man-made chemicals that have been accumulating in the environment and focus on their potential to cause chronic diseases in humans

04 Dec Amy Mawdesley Tricked: Can metal hip replacements confuse our immune system?

Metal-on-metal hip replacements were introduced to provide a long lasting and low-wearing joint replacement for young and active patients with conditions such as arthritis. However they have been associated with painful side effects including swelling and inflammation. This ground-breaking research uncovers the potential basis for inflammation following implantation of prosthetic hip replacements containing metals. Cobalt chromium wear debris particles released from such joints are recognised by the immune system in a manner similar to bacteria, resulting in ultimate failure of the joint and requirement for revision surgery.

Practical Art & Craft Studio: 9th October to 27th November

Venue: B&D Studios, 3rd floor, Commercial Union House, Pilgrim Street,

Newcastle upon Tyne

13.30 to 15.30



The Art Studio will run for 8 weeks, on a Wednesday afternoon in the Third Floor Space.

We draw on the skills amongst members so there will not be a tutor at each session however we will use the funding available to buy in tutors as and when we need them.

Artist, Margaret Adams, will coordinate and lead this group.

Science Course: 2nd October to 13th November

Origins and Endings: Biology

Tutor: Wallace Arthur

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00-15.00



The 'Origins and Endings' courses (biology with Wallace Arthur and cosmology with Fred Stevenson) were planned around the same theme to complement one another, and we hope members will find this approach interesting. However each course is complete in itself and they can be enjoyed separately.

Date	Title
02 Oct	The Origin of Life on Earth
09 Oct	The Origin of the Animal Kingdom
16 Oct	The Evolutionary Origin of the Nervous System and Brain
23 Oct	The Evolutionary Origin of Humans
30 Oct	No Session
06 Nov	The Embryological Origin of the Human Nervous System and Brain
13 Nov	The Origin of Evolutionary Theory and its applicability beyond Earth
20 Nov	Extinctions of Life - past, present and future

Mid-Week Literature Course: 9th October to 27th November

#### **Last Year's Books: Contemporary Classics**

Tutor: Rachel Lister

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30



This module will give us the chance to study three critically-acclaimed texts that were published last year and explore some of the emerging trends of contemporary fiction. We will focus on Daisy Johnson's debut novel, *Everything Under*, Madeline Miller's much-admired *Circe* and poet Robin Robertson's modern epic of verse and prose, *The Long Take*. All three writers draw from ancient narrative tropes and forms to examine a wide range of contemporary themes and concerns.

Date	Title
09 Oct	Daisy Johnson - Everything Under
16 Oct	Daisy Johnson - Everything Under
23 Oct	Madeline Miller - Circe
30 Oct	NO CLASS
06 Nov	Madeline Miller - Circe
13 Nov	Madeline Miller - Circe & Robin Robertson - The Long Take
20 Nov	Robin Robertson - The Long Take
27 Nov	Robin Robertson - The Long Take

Culture & Society Course: 6th November to 4th December

Troy Stories

Tutor: Alan Beale

Venue: Blue Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30



There are many stories associated with Troy and the surviving Trojans beyond the Iliad and the Odyssey. We will explore some of these from Greek tragic theatre to the modern novel.

The structure of the course is expected to run as follows:

Date	Title
06 Nov	Helen (reading Euripides, Gorgias etc)
13 Nov	Roman Troy (reading Virgil Aeneid 1-4)
20 Nov	Women of Troy (reading Euripides' Trojan Women and Hecuba)
27 Nov	Some Men (reading Shakespeare Troilus and Cressida and Sophocles Philoctetes)
04 Dec	Some Women (reading Pat Barker Silence of the Girls and Natalie Haynes A Thousand Ships)

# Thursday

#### **Culture & Society series on the theme of 'Reconstruction'**

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30 to 12.00

Date	Tutor	Title
03 Oct	John Sadler	1812: Battle of Borodino
10 Oct	John Griffiths	The Other China: A history of Taiwan
17 Oct	Marta Alberti	Reconstructing Lives through archaeological excavations: the last five years at Vindolanda
24 Oct	Brian Tanner	Robert Grossesteste: The greatest mind you've never heard of
		(unless you attended Brian's science session last week don't worry, Brian has a lot more to teach us about this fascinating figure)
31 Oct	Malcolm Grady	1919: Reconstructing a Vision of Adult Education
07 Nov	Neil Storey	Road to War
14 Nov	David Rosier	China—Imperial Heritage Revisited & Rebuilt: deconstruction and loss of China's Imperial heritage
21 Nov	Gil Dye	The Lace and Times of Lady Anne Clifford
28 Nov	Various	PhD to Public
05 Dec	Sue Wood	Social Welfare and the Diocese of Newcastle

# Thursday

#### **Culture & Society series on the theme of 'Reconstruction'**

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

12.30 to 13.30

Date	Tutor	Title
03 Oct	John Goddard	The Civic university
10 Oct	Matt Perry	Ellen Wilkinson's 'The Town That was Murdered' and it's relevance today
17 Oct	John Sadler	`Sharpe': A Rifleman's War
24 Oct	Les Milne	Save the Children - 100 Years
31 Oct	Sara Wightman	Reconstructing the Manuscript for the Digital Age
07 Nov	Anthea Lang	'Out with the Old, On with the New': the High Street -v- the Shopping Centre
14 Nov	David Rosier	China—Imperial Heritage Revisited and Rebuilt:
		world class museums and sites of national interest
21 Nov	John Griffiths	Mr Stockwell and Slasher Jack: a century of Tesco
28 Nov	Graeme Young	The heart of the castle - archaeological investigations of the Inner Ward at Bamburgh Castle
05 Dec	Malcolm Grady	1969: Reconstructing a Vision!

Culture & Society Course: 3rd, 17th & 31st October

The Anthropology of Personhood

Tutor: Prof. Cathrine Degnen

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00-15.30

Who and what counts as a person?

How do we know?

When is personhood attributed?

Can personhood be 'lost'?

Is personhood only for the living, or is it a question for the dead, too?

These might sound like questions only for philosophers. But, as I will explore over a series of three lectures, they are also questions we all have learned to answer and questions we do answer almost every day in the course of our daily lives.

Knowing the answers to these questions help us navigate the worlds we live in and make sense of them. Furthermore, as an extensive body of work in anthropology demonstrates, answers to these questions vary cross-culturally, and across the life course.

Drawing from a rich and fascinating body of literature in anthropology, these lectures will demonstrate why the question of personhood is a powerful lens through which to better understand and appreciate cultural differences.



Literature Course: 10th October to 28th November (Excluding 31st October)

Form and Theme in Poetry 2

Tutor: <u>Bronwen Calvert</u>

Venue: White Room, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30



This course operates on a booking system—Please read this carefully

This is a seminar-style course of 7 sessions. This is likely to be a popular course so you are asked to register for a place to help us make appropriate arrangements.

To book a place on this course, please e-mail <u>explorelitprog@gmail.com</u> (NOT THE EXPLORE OFFICE, PLEASE) and write **'Bronwen Calvert Booking' in the header.** 

Please also note that this booking is dependent on a confirmation of registration for the FULL Explore programme before 30th September 2019.

Bookings will be taken from 22nd July onwards.

If you book on the Explore Programme after 30th September 2019 and wish to register on the course please contact us at explorelitprog@gmail.com to find out if a place is available.

Literature Course: 10th October to 28th November (excluding 31st October)

Form and Theme in Poetry 2

Tutor: <u>Bronwen Calvert</u>

Venue: White Room, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00 to 15.30

This course operates on a booking system—please see details on previous page.

A return to poetry for this class, with much the same format as in Autumn 2018. Each week we will read and discuss a few poems on a single theme. We'll look at formal features of each poem – structure, rhyme and rhythm, imagery, tone – and we'll compare the ways different poets approach the same theme. You don't need any previous experience at all!

A full list of poems to read will be available in an updated version of this programme nearer the time, and on the Explore weekly bulletins.

Date Title

10 Oct Darkness and Light

17 Oct Politics

24 Oct Love

31 Oct <u>NO CLASS</u>

07 Nov Faith

14 Nov War

21 Nov Nature

28 Nov Seasonal poems



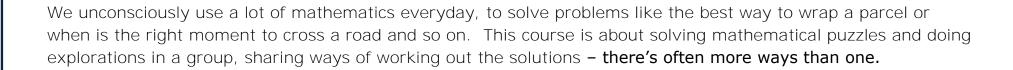
Mathematics Course: 7th November to 5th December

Maths Through Problem Solving

Tutor: Peter Pool and Maria Goulding

Venue: Blue Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

14.00-15.30



You may find yourself using skills you did not know you had, while engaging with a variety of problems and investigations purely for the enjoyment of it.

Come along and join in the fun.



email:

weareexplore@gmail.com

Explore Extra —cost £40 per course to non Explore members

Archaeology: An Introduction

Archaeology Course: 3rd, 17th & 31st October, 14th & 28th November

Tutor: Stephanie Piper

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

19.00 to 20.30

The aim of this course is to introduce participants to the what, where, why, who, and when of archaeology. It will chart the history of the discipline, from antiquarian investigation to commercial archaeology; explain how archaeologists find sites, and what happens when we dig them; how we use the information to reconstruct life in the past; and address many of the problems faced in managing heritage.

Date Title

O3 Oct What is Archaeology?

17 Oct Finding Sites

31 Oct Landscapes and Environment

14 Nov Artefacts and Material Culture

28 Nov Who Owns the Past?

Non-members—How to Book:

Please book your place via Eventbrite by clicking the title above or using this link: Explore Lifelong Learning Eventbrite

If you have any issues booking please contact us at <a href="weareexplore@gmail.com">weareexplore@gmail.com</a>

Explore Members:

This course is already included in your Explore membership so is free to attend without booking.



Archaeology Course: 10th & 24th October, 7th & 21st November and 5th December

Bernician Studies Group Early Medieval History in the North-East

Tutor: Colm O'Brien and Max Adams

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

19.00 to 20.30



This independent study group meets fortnightly in Commercial Union House (CUH). Current work includes investigating 'Cocwudu'- a possible ancient woodland between Wansbeck and Coquet; further magnetometry surveys in north-east England; and our continuing project researching the Early Mediaeval monastic sites we have identified in Donegal.

Explore members are welcome to join the CUH sessions reporting on and discussing this work and other topics of interest. [For insurance reasons, only members of the BSG itself can participate in fieldwork.]

### Friday

History Course: 4th October to 1st November

The British Empire

Tutor: Nick Cott

Venue: B&D Studios 3rd floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30 to 12.00



This course will be presented as two series (over two seasons) covering aspects of the origins, development, experience of empire, and the end of empire. We'll be examining the impact of the British empire at home and abroad, with a range of case studies. You'll be introduced to the complexity of the British empire as a global force and its evolving character in different time-periods and geography. Coverage will span the seventeenth until the twentieth century.

Series One will focus on the origins of the British empire, its sources of power and how it was perceived in Britain.

Date	Title
04 Oct	Characterising the British empire: an overview
11 Oct	The beginnings of the British empire
18 Oct	Power and the British empire (1) Military power
25 Oct	Power and the British empire (2) Economic power
01 Nov	Power and the British empire (3) Cultural power

### Friday

Literature One-Off Special: 11th October

The Poetry of Place

Tutor: Katrina Porteous

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

11.30 to 13.30

Katrina Porteous is a poet and historian with a lifelong interest in the Northumbrian coble fishing tradition Katrina's poetry is published by Bloodaxe books. Her second collection, *Two Countries*, was shortlisted for the Portico Prize. Her third, *Edge*, containing poems written for Life Science Centre planetarium, will be published in November.

This workshop will begin from listening: how poets connect to the physicality of landscape through sound. We will look at poems which focus intensely on the local and particular, and explore the voices – natural and human – that lead us towards 'a sense of place'.

### Friday

Philosophy Course: 8th November to 6th December

Women Philosophers of the 17th Century

Tutor: Tom Rossetter

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

11.30-13.00

Historians of seventeenth-century philosophy have for a long time focussed predominantly on a relatively small and exclusively male group of canonical figures. Happily, however, recent decades have seen a healthy shift toward a broader set of thinkers, among whom we find several women. Philosophers such as Margaret Cavendish, Ann Conway, Damaris Cudworth, Catharine Trotter-Cockburn, and others produced philosophical systems which were every bit as complex and interesting as their better-known male counterparts, and the purpose of this five-lecture course is to explore these important thinkers, their ideas, the ways in which they responded to the philosophical views of their male contemporaries, and how they differed from them.

Literature One-Off Special: 6th December

Tennyson: The Man, the Poet and the Nineteenth Century

Tutor: Pamela Woof

Venue: White Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

10.30 to 13.30

He was a popular poet, yet Tennyson now has not the readership he once had. Why is this? is it inevitable? Is it deserved? Have we not time to make our way into the very consciously chosen language, the sounds of words and rhythms in Tennyson's verse, the deliberately achieved lyrical beauty of some of his compositions?

We shall consider one famous poem, 'Ulysses', and one less celebrated, an investigation into society, particularly into 'the Woman question': the monodrama, 'Maud'.

Saturday 5<sup>th</sup> October

Witches & Cunning Folk in the North East

Speaker: Dr. Jo Bath

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle

11.00-13.00



Book your FREE ticket now on **Eventbrite** (No need to book if you're an Explore member.)

Saturday 9th November

**'Future of Mankind'** Workshop with Operating Theatre and CANDO

Venue: Green Room, 4th floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne 14.00-17.00

CANDO is a ground-breaking project led by Newcastle University which is hoping to develop a small light-based brain implant to control epileptic seizures which cannot be eased with either drugs or surgery. Operating Theatre, a drama company is using theatre to explore the broad range of issues involved.

In this workshop we will explore whether we feel a certain nervousness with the idea of a brain implant. Does it feel different to the bio-medical advances with which we are more familiar such as heart and liver transplants, prosthetic limbs and pacemakers? And as these technologies develop, what might humankind look like in fifty or a hundred years time? Book your FREE ticket now on **Eventbrite**.

# Explore Extra—Saturday Sessions

### Interested in Explore but can't attend during the week?

Take a look at our Saturday sessions coming up in Season One



We're pleased to offer exciting and insightful Saturday talks and classes, which non-members can attend for £10.00 per session (from week 2 onwards). There may be some additional material costs for practical art sessions as detailed in the programme.

Book your place via <u>Eventbrite</u> by clicking on the TITLE of the relevant session in the following pages. (*Please note: Some sessions may not be available to book until nearer the date, but if you'd like a reminder just join our <u>mailing list</u> and we will keep you in the loop!)* 

Explore members can attend our Saturday sessions as part of their membership at no extra cost and



Science Session

Doom and Gloom: The Future of Planet Earth

Tutor: Derek Teasdale

Saturday 12th October 10.30-13.00

Venue: B&D Studios, 3rd Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne



Humanity's impact on our planet is becoming more obvious, and has led to much soul searching. Is humanity causing a new mass extinction? How can we co-exist in a sustainable way with the planet and its life? On the other hand, the Earth is 4.54 billion years old and has sustained life for at least 3.5 billion years. What does a geological perspective tell us about the planet's future?

Practical Art Session

Working with Pastels

Tutor: Sue Brophy

Saturday 19th October 10.30-13.00

Venue: B&D Studios, 3rd Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne



A Saturday pastel class to enjoy colour. Will you leave with a finished work? Maybe, maybe not, but that's not the aim of the class. Experiment with ideas and styles... Think Monet and Renoir, Degas, Mary Cassatt, Millet... Think something different. Give it a try.

Film Session

À bout de souffle (Breathless)

Tutor: Peter Quinn

Saturday 26th October 10.30-13.30

Venue: Green Room, 4th Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

Directed by Jean-Luc Godard, 1960 and starring Jean-Paul Belmondo and Jean Seberg, *Breathless* was Godard's first feature-length work and represented Belmondo's breakthrough as an actor. The film was one of the earliest, most influential examples of French New Wave (nouvelle vague) cinema. Along with François Truffaut's *The 400 Blows* and Alain Resnais's *Hiroshima, Mon Amour*, both released a year earlier, it brought international attention to new styles of French filmmaking.



Culture & Society Session

Jordan Peterson: The Limits of Free Speech?

Tutor: Alex Gooch

Saturday 2nd November 10.30-13.00

Venue: Green Room, 4th Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

Canadian psychology professor Jordan Peterson exploded into public consciousness in 2016, due to a series of YouTube videos criticising political correctness and declaring his refusal to be bound by a new law which would (he said) compel him to use certain gender pronouns when talking to students and colleagues. Since then, Peterson has emerged as a contentious, polarising figure known to his opponents (rightly or wrongly) as the 'darling of the alt-right'. This session will seek to take both Peterson and his critics seriously.

The first part of the session will look at his major works, their use of Jungian and evolutionary psychology as well as religious and literary ideas, in order to investigate the nature of good and evil at both individual and social levels.

In the second part of the session, we will look at some of the controversies around him and the charges (such as racism, sexism and transphobia) which have been laid against him.

History Session

The Rise of the Labour Party: 1900-1945

Tutor: Nick Cott

Saturday 16th November 10.30-13.00

Venue: Blue Room, 4th Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne



This seminar will examine the ingredients in the rise of the Labour party from its origins in the late nineteenth century until 1945 when there was the first majority Labour government. We will look at some of the key milestones on the way in terms of successes and obstacles. We'll look at the relationship of the Labour party to the Liberals, who were displaced by Labour in 1918, and the Conservatives. We'll look at Labour ideology and assess the extent to which Labour's rise can be attributed to socialism. Those who attend can expect plenty of discussion of sources and ideas.

Practical Art Session

**Contemporary Christmas Ornaments** 

Tutor: Melanie Kyles

Saturday 16th November 10.30-13.30

Venue: The Fashion Lab, 4th Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne



Celebrate the tradition of a handmade Christmas with a contemporary twist! Christmas ornaments are thought to have originated in 16th Century Germany with nuts, berries and candles. Following original contemporary bauble designs, you will create your own decorative textile hanging ornament which can be filled with dried Christmas spices, whilst learning about how Christmas ornaments have evolved over the years. There may be a small charge for materials.

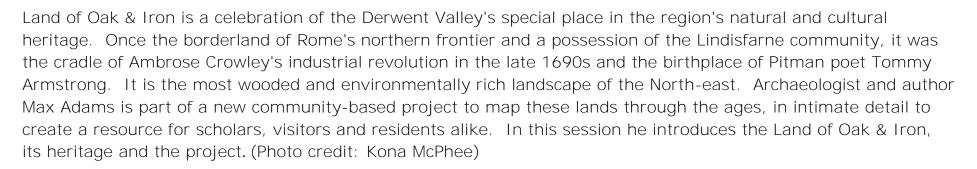
History Session

The Land of Oak and Iron

Tutor: <u>Max Adams</u>

Saturday 23rd November 10.30-13.00

Venue: Green Room, 4th Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne



**History Session** 

#### Rebuilding Europe's War-Damaged Cities

Tutor: John Griffiths

Saturday 30th November 10.30-13.00

Venue: Green Room, 4th Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne

In 1945 towns and cities across Europe lay in ruins. This session will examine the different approaches taken towards the reconstruction in different countries and cities, looking at Coventry, Plymouth, Rotterdam, Frankfurt,

Warsaw and others.



Science Session

Space Flight

Tutor: Fred Stevenson

Saturday 7th December 10.30-13.00

Venue: B&D Studios, 3rd Floor, Commercial Union House, Pilgrim Street, Newcastle upon Tyne



In this Saturday morning session we will consider all aspects of spaceflight - both Earth satellites and automated interplanetary probes as well as the human exploration of space - past, present and future.

In these days of austerity people often consider the costs incurred by space exploration as prohibitive and doubt its utility. In the talks I hope to show that nothing could be farther from the truth. Spacecraft are now essential to our technological civilisation and I will look at several uses that they have which we nowadays take for granted and probably didn't even realise satellites were involved!

### THE END

Season Two 2019-20 will start on Monday 13th January 2020.