

SATURDAY 04 JUNE 2016

SAT 00:00 Midnight News (b07cmk1n)

The latest national and international news from BBC Radio 4. Followed by Weather.

SAT 00:30 Book of the Week (b07cypk4)

Love from Boy - Roald Dahl's Letters to His Mother

Episode 5

In the centenary year of his birth, Roald Dahl's letters to his mother are newly collected by Donald Sturrock and abridged for radio by Katrin Williams. The author's words to Sofie Magdalene spanned decades.

The author describes marriage to Patricia Neal, then family tragedy. And there's a final tribute to Sofie Magdalene ("Dear Mama..."), receiver of hundreds and hundreds of his missives from the age of nine.

Readers Donald Sturrock and Rory Kinrear

Producer Duncan Minshull.

SAT 00:48 Shipping Forecast (b07cmk1q)

The latest shipping forecast.

SAT 01:00 Selection of BBC World Service Programmes (b07cmk1s)

BBC Radio 4 joins the BBC World Service. BBC Radio 4 resumes at **5.20am**.

SAT 05:20 Shipping Forecast (b07cmk1v)

The latest shipping forecast.

SAT 05:30 News Briefing (b07cmk1x)

The latest news from BBC Radio 4.

SAT 05:43 Prayer for the Day (b07cyw4y)

A spiritual comment and prayer to begin the day with Rania Hafez, a senior lecturer in education at the University of Greenwich.

SAT 05:45 IPM (b07cyw50)

'Is the mountain giving you a sign?'

Nick Talbot reached the summit of Everest in May 2016. After being on the mountain when it was closed in 2014 and 2015, we hear what drove him to try again.

SAT 06:00 News and Papers (b07cmk1z)

The latest news headlines. Including a look at the papers.

SAT 06:04 Weather (b07cmk21)

The latest weather forecast.

SAT 06:07 Ramblings (b07cykd)

Series 33

Wayfarers Walk with Nigel Clifford

Clare Balding and the head of Ordnance Survey, Nigel Clifford walk along Wayfarers Walk from Coombe Gibbet to Highclere, on the Berkshire, Hampshire Border. In this series Clare talks to those involved in epic walks of many consecutive days and covering many hundreds of miles. Clare and Nigel talk about the joy of poring over maps while planning such adventures. They are accompanied by Clare's dog Archie, who particularly enjoys their lunch stop.

Producer: Lucy Lunt.

SAT 06:30 Farming Today (b07djjy1)

Farming Today This Week: Transatlantic Trade and Investment Partnership - TTIP

Sybil Ruscoe hosts a debate about the controversial Transatlantic Trade and Investment Partnership - or TTIP. It's the biggest bilateral trade deal ever negotiated, and aims to lower trade tariffs and boost exports between the European Union and the United States. Guests are MEPs Julie Girling (Conservative) and Molly Scott Cato (Green); President of the NFU Meurig Raymond; and Co-founder of 'Ladies in Beef' Jilly Greed.

Concerns about the deal include the US's use of growth hormones in their beef cattle; genetic modification; and the use of some chemicals to wash poultry meat - all currently banned

in the EU.

There are fears some sectors - especially beef and poultry - would be hit hard if cheaper American imports are allowed in. But there is also the opportunity for greater exports to the US - especially of speciality cheese and other dairy. Produced in Bristol by Sally Challoner.

SAT 06:57 Weather (b07cmk23)

The latest weather forecast.

SAT 07:00 Today (b07djs4q)

Morning news and current affairs. Including Sports Desk, Weather and Thought for the Day.

SAT 09:00 Saturday Live (b07djk3s)

Michaela Strachan

This week on Saturday Live - Aasmah Mir and Kate Silverton speak to wildlife presenter Michaela Strachan about her long and varied career, train enthusiast David Brewer, the man who has photographed every railway station in the UK, Rachel Mariner on swapping the courtroom to write for the stage and Mark Simpson, Young Musician of the Year in 2006 and is a nominee in the South Bank Sky Arts Awards for The Immortal, his new work for orchestra and chorus. Plus Juliet Stevenson shares her Inheritance Tracks

Producer: Maire Devine

Editor: Karen Dalziel.

SAT 10:30 The Kitchen Cabinet (b07djk3v)

Series 13

Aldeburgh

Jay Rayner hosts the programme from Aldeburgh, Suffolk. Rachel McCormack, Tim Hayward, Itamar Srulovich and Barry Smith are the panellists answering the questions.

On this week's show the panel investigate the intricate relationship between food and music. They also discuss smoked foods and the best ways to keep and cook pork.

Joining the panel for these discussions are Tim and Gill Matthews from The Artisan Smokehouse and Mark Hayward from Dingley Dell Farm.

Produced by Katie Burningham

Assistant producer: Hannah Newton

Food consultant: Anna Colquhoun

A Somethin' Else production for BBC Radio 4.

SAT 11:00 The Forum (b07f6n9h)

Machine Translation: The End of the Human Translator?

Translating from one language to another is fraught with difficulty - capturing exact words can be hard enough let alone more subtle meanings like metaphor, pathos, or culturally specific references and phrases. But machine translation is even more complex, although it is developing at a very rapid pace and both text and voice can now be translated very quickly. Bridget Kendall and guests explore whether machine translation means an end to human translators and what impact it might have on our desire and ability to learn and immerse ourselves in other languages.

(Photo: Scholar reading Walatta Petros manuscript at monastery. Credit: Wendy L.Belcher).

SAT 11:30 From Our Own Correspondent (b07cmk26)

Writing on the Wall

A week in the life of correspondents around the world. In this edition, the paint flies as the race for the presidency in Peru gets colourful; a battle for control of the Iraqi city of Falluja is about to begin - it could be a long and gruelling one, the ISIS fighters dug in there have had time to prepare for the arrival of the government forces; time is running out for the German authorities to prosecute those who committed mass murder in Hitler's time - we meet a man trying to hunt them down before it's too late; a barbed wire fence may be in place but migrants are making it through the border from Bulgaria to Serbia with help from smugglers ... and some policemen. And on a visit to Asmara, the Italianate capital city of Eritrea in north east Africa, our correspondent tries to find out the truth about allegations of repression, political prisoners and torture.

SAT 12:00 News Summary (b07cmk28)

The latest national and international news from BBC Radio 4.

SAT 12:04 Money Box (b07djk7f)

National Insurance - how some 'umbrella' contractors pay twice

Hundreds of thousands of people working as contractors employed through umbrella companies are being forced to pay nearly half their income in tax and national insurance due to a loophole in employment rules. In effect they are treated as both employee and employer and pay double national insurance contributions. As a result a total of 45% of their often low pay disappears before they see it.

The European Health Insurance Card allows holders to receive the same state-provided medical care as the citizens of the country you're visiting but with the EU referendum looming, where would a Leave vote leave us?

After the price of oil tanked to historic lows at the start of 2016 it has now almost doubled from \$27 to \$50 a barrel. As a result petrol and diesel have gone up 10% from under £1 to around £1.10 at the pumps. With warnings that the price of domestic energy costs are set to rise too, is now the time to be looking for a fixed deal?

And closing the gender pay gap. We report on the University giving its female academics a pay rise that will bring their salaries up to those of their male colleagues.

Presenter: Paul Lewis
Reporter: Charmaine Cozier
Producer: Alex Lewis
Editor: Andrew Smith.

SAT 12:30 The News Quiz (b07cyvkd)

Series 90

Episode 8

Jeremy Hardy, Samira Ahmed, Frankie Boyle and Kerry Godliman are Miles' guests in the long-running satirical quiz of the week's news.

Producer: Paul Sheehan.

A BBC Studios Production.

SAT 12:57 Weather (b07cmk2b)

The latest weather forecast.

SAT 13:00 News (b07cmk2d)

The latest news from BBC Radio 4.

SAT 13:10 Any Questions? (b07cyvkp)

Julia Hartley-Brewer, Caroline Lucas MP, Lord Heseltine, Gisela Stuart MP

From girls' school St Helen and St Katharine School in Abingdon, Jonathan Dimpleby and his guests debate the EU and some other topics. Columnist and broadcaster Julia Hartley-Brewer, Green Party MP Caroline Lucas, conservative peer Lord Heseltine and Gisela Stuart the Labour MP and Chair of Vote Leave discuss whether Brexit would mean more control over immigration; if the EU Referendum has become the referendum on immigration; why 16/17 year olds were not given the right to vote in it; jobsharing (following Caroline Lucas' announcement that she is standing for leadership of the Greens again, only this time as a jobshare); and lastly Donald Trump's visit to the UK.

Producer: Kirsten Lass.

SAT 14:00 Any Answers? (b07cmk2g)

EU Referendum campaign and immigration and allowing 16-year-olds to vote

Julian Worricker takes your calls on immigration and the EU Referendum Campaign and whether or not 16 year olds should be allowed to have their say on June 23rd.

Last night you asked;

If we Brexit, will we have more control to limit immigration?

With less than three weeks until polling day, is it too late for the 2016 EU referendum to be anything other than a referendum on immigration?

As a 17 year old student in secondary education, I feel fully engaged with the EU debate and want a say in the decision that predominantly affects the future of our generation. Why weren't 16 year olds given the right to vote as they were in Scotland?

Any Answers after the Saturday broadcast of Any Questions? Lines open at 1230

Call 03700 100 444. Email any.answers@bbc.co.uk. Or tweet, #BBCAQ. Follow us @bbcanyquestions.

Presented by Julian Worricker
Producer Beverley Purcell
Editor Karen Dalziel.

SAT 14:30 Dangerous Visions (b07c2wm0)

The Kraken Wakes

Episode 2

John Wyndham's science fiction novel adapted by Val McDermid. Performed with the BBC Philharmonic Orchestra in a terrifying modern retelling of alien invasion and global flooding. Starring Tamsin Greig, Paul Higgins and Richard Harrington.

The floods have recently devastated parts of Britain. But what if the flood waters never subsided? What if an apparent meteor shower was actually the invasion fleet of an alien race, incubating in the ocean depths until they were ready to begin their war of attrition against the human race? What if we were trapped on a drowning planet?

Val McDermid is a long-time fan of Wyndham's work and retells this dramatic novel in light of contemporary fears of climate change.

Recorded with a live orchestral accompaniment from the BBC Philharmonic. Composer Alan Edward Williams worked with Val to create a brand new 50's B movie inspired orchestral score that takes on the role of the unseen Kraken during the performance .

Episode 2:

Following the remote, far flung lone alien attacks, Europe is now under attack too. When people fight back, the sea tanks withdraw, the attacks abate and there is a silence. It is short lived. A new form of attack takes hold. The weather is changing. Banks of fog smother the world. And the sea level is rising. Rivers begin bursting their banks, tracts of the country become uninhabitable and civil society starts to break down. The lights are going out all over the world. Silence.

Mike and Phyllis fight to survive as much of the world is submerged and most of the global population dead or displaced.

Performed 'as live' with the BBC Philharmonic Orchestra
Composer: Prof Alan E Williams
Conductor: Clark Rundell

Director and Producer: Justine Potter
A Savvy production for BBC Radio 4.

SAT 15:30 The Tale of Jimmy Scott (b07cvhrv)

Mary Anne Hobbs presents the story of jazz singer Jimmy Scott, one of the 20th century's most overlooked vocalists. Born in Cleveland, Ohio in 1925, James Victor Scott's life was filled with loss, pain, struggle and setbacks from the start. It would all reflect in his music, yet he remained upbeat and positive until his death in 2014.

Mary Anne learns about the man who came to prominence as Little Jimmy Scott, sang with the Lionel Hampton Band in the late 1940s and released his biggest hit - Everybody's Somebody's Fool - but was un-credited on the record. It set up a long list of un-credited performances, bad contracts and difficult dealings with the label who signed him. So why was a singer with such talent left largely unknown outside of the industry?

As a teenager, Jimmy was diagnosed with Kallmann syndrome, a genetic condition which affects the production of hormones, meaning he wouldn't go through puberty and would be left with his trademark high pitched singing voice. But the syndrome led to questions around his androgynous appearance and gender defying vocals.

In 1963 it seemed as though Jimmy's luck would turn a corner when he collaborated with Ray Charles to make the critically acclaimed Falling In Love Is Wonderful - cited by many as one of the greatest jazz love albums of all time. However, the album was withdrawn due to contractual problems. Jimmy moved back to Cleveland and began finding work as a shipping clerk, hospital clerk, and busboy throughout the 1970s and 80s.

It would take until 1991 for Jimmy to resurface and experience the attention and respect that was missing in his early career.

Mary Anne Hobbs speaks to Jimmy's wife Jeanie Scott, biographer David Ritz and record producer Tommy LiPuma.

A Sparklab production for BBC Radio 4.

SAT 16:00 Woman's Hour (b07cmk2j)

k.d Lang talks about the collaboration on her new album.

The Canadian singer-songwriter k.d. Lang reflects on her musical career and tells us about her new album made in collaboration with Neko Case and Laura Veirs.

The Labour MP Jess Phillips and scientist Dr Emily Grossman discuss the Reclaim The Internet campaign and how they deal with online abuse.

There is a direct link between exam time and self harm in young people. Young women are most at risk and a recent report shows the largest increases in intentional poisonings among females aged 16 to 17 years old. Sarah Brennan, the Chief Executive of Young Minds, and Natasha Devon, the former mental health champion for schools, discuss.

We hear from the award winning writer and critic Margo Jefferson about her new book Negroland reflecting on her childhood spent among the great and the good of Chicago's black elite.

Who is driving the big debates of the day and why don't we see more women involved in the Brexit debate? Where are all the women polemicists? Broadcasters Nick Ferrari, Eleanor Mills, Camilla Long and Yasmin Alibhai-Brown discuss.

The chief engineer for the ACP - the Panama Canal Authority - Ilya Espino de Marotta talks about rebuilding the Panama Canal to allow the biggest modern ships to pass through.

With two hours to curtain up Natasha Barnes was asked to step into the role of Fanny Brice in the musical Funny Girl, the understudy for Sheridan Smith. Showered with good reviews she tells us what it's been like to be thrust into the limelight.

Presenter Emma Barnett
Producer: Rabeka Nurmahomed
Editor: Beverley Purcell.

SAT 17:00 PM (b07cmk2l)

Saturday PM

Full coverage of the day's news.

SAT 17:30 The Bottom Line (b07cynn)

Profit or plunder?

Asset management - or asset stripping? This week Evan Davis asks when making a profit from running a business becomes simple plundering.

In business, things go wrong at the best of times ... mistakes are made, luck turns bad. But sometimes things can also go wrong not because of bad luck, but because someone makes money out of failure.

The "profit or plunder" question has been raised by events at BHS. It was struggling, facing intense competition in a tough retail environment. But the owner took quite a bit of money out of the company. And the staff pension fund went into deficit. Sir Phillip Green, who was then in charge, sold the business to an inexperienced former bankrupt who didn't make it work and it is now in administration.

This has made a lot of people angry - but aside from BHS, how do we distinguish between a case that is bad luck, a bad apple, or a system that is badly designed?

Joining Evan Davis in the Bottom Line studio this week are Bruce Davis of peer-to-peer lender Abundance, Breffni Walsh of Brands Are Best and Garry Wilson of private equity firm Endless LLP.

SAT 17:54 Shipping Forecast (b07cmk2n)

The latest shipping forecast.

SAT 17:57 Weather (b07cmk2q)

The latest weather forecast.

SAT 18:00 Six O'Clock News (b07cmk2s)

The latest national and international news from BBC Radio 4.

SAT 18:15 Loose Ends (b07djnz4)

Clive Anderson, Nikki Bedi, David Baddiel, Indhu Rubasingham, Paul Charles, Matthew Xia, Golden Rules, Xylarao

Clive Anderson and Nikki Bedi are joined by David Baddiel, Indhu Rubasingham, Paul Charles and Matthew Xia for an eclectic mix of conversation, music and comedy. With music from Golden Rules and Xylarao.

Producer: Sukey Firth.

SAT 19:00 Profile (b07djnz6)

Nicolas Maduro

The Venezuelan president, Nicolas Maduro, has vowed to keep alive the defiant revolution begun by Hugo Chavez. And that revolution has global radical support. But with growing economic chaos and street protests, it's feared that Venezuela is descending into chaos. Maduro has maintained the cult of Chavez, blamed his problems on CIA plots, and told the women of Venezuela to stop using hair driers as the oil-rich country faces constant power cuts. So what has shaped Maduro in his defiance? Can he hold the country together? Chris Bowlby explores his life and career.

Producer: Alex Burton.

SAT 19:15 Saturday Review (b07cmk2v)

Minefield at Royal Court, The Nice Guys, Versailles, Francis Spufford, Dora Maurer

Minefield at London's Royal Court Theatre examines the personal effects of The Falklands War on veterans from both sides using testimonies of the actors who are all former combatants.

The Nice Guys is a new film with Ryan Gosling and Russell Crowe as a couple of mismatched private eyes
BBC TV is showing Versailles, a drama series about the goings-on at the court of Louis XIV- the Sun King - has already caused consternation in France, but why?

Francis Spufford's first novel Golden Hill is set in the grubby dangerous world of Manhattan in 1746: New York before it became New York.

The 50 year career of Hungarian conceptual artist Dora Maurer is marked in an exhibition at London's White Cube Gallery
Tom Sutcliffe's guests are Richard Eyre, Francis Stonor Saunders and Jamila Gavin. The producer is Oliver Jones.

SAT 20:00 Archive on 4 (b07djnz)

A Guide to the Modern Snob

It's 170 years since William Makepeace Thackeray wrote his gazetteer of early Victorian social life, The Book of Snobs. Most of our views on snobbery come from this single text. Now, writer DJ Taylor wants to update this user's guide to the snob for the 21st century. He is joined in his search for the modern snob by snobs and snob observers from all walks of life, as well as by voices from the archive.

From the Raj to reality TV, from Westminster to the gentlemen's outfitters of Savile Row, Taylor argues that, at bottom, most of us are snobs and that snobbery is an essential part of the face we offer to the world.

Comedian Al Murray explores the role of snobbery as a comedic device, from Fawly Towers to his own Pub Landlord. Jess Phillips MP reveals the snobberies of Parliament - and says we would all benefit if the Palace of Westminster was mothballed and replaced with a more up-to-date institution. And, with broadcaster and self-professed beer snob Hardeep Singh Kohli, Taylor asks why more and more people are using snobbery as a marker of identity, a badge of pride.

Produced by Hannah Marshall

A Loftus Media production for BBC Radio 4.

SAT 21:00 Dangerous Visions (b07bzhts)

Brave New World

Episode 2

by Aldous Huxley

The Dangerous Visions Season continues with the second part of Aldous Huxley's Classic dystopian tale . John the "Savage" has been brought back to a "civilised" world where promiscuity is the norm, eugenics a respectable science and the drug Soma freely available. Can he retain the ideal of freedom his childhood taught him? Dramatised by Jonathan Holloway.

Director: David Hunter.

SAT 22:00 News and Weather (b07cmk2x)

The latest national and international news from BBC Radio 4, followed by weather.

SAT 22:15 FutureProofing (b07cx3q4)

The Future of War

Technology threatens to transform warfare more than almost any other human activity. But what does the future of war look like in the 21st century?

Presenters Timandra Harkness and Leo Johnson hear from those helping to design and build new weapons systems, experts in military strategy and defence policy, and those like veteran war photographer Don McCullin who have experienced the full horror of war, to explore what might change when the technology revolution of today is applied to the conflicts of the century ahead.

Producer: Jonathan Brunert.

SAT 23:00 The 3rd Degree (b07ctvfy)
Series 6

The University of Glasgow

Steve Punt hosts the battle of wits as three students from the University of Glasgow take on their professors.

A funny and dynamic quiz show with specialist subjects including Earth Science, Medicine and Astrophysics and Cosmology.

Questions range from Rudolf Hess to Vaslav Nijinsky via smallpox and syzygys.

Producer: David Tyler

A Pozzitive production for BBC Radio 4, first broadcast in May 2016.

SAT 23:30 Poetry Please (b07ctkyt)
Miscellany

Roger McGough presents a miscellany of listeners poetry requests. Poets include John Clare, WH Davies, Laurence Lerner and Olive Ritch. Producer Sally Heaven.

SUNDAY 05 JUNE 2016

SUN 00:00 Midnight News (b07djtr8)

The latest national and international news from BBC Radio 4. Followed by Weather.

SUN 00:30 Stories from Songwriters (b043wk19)

The Announcer's Daughter, by Eliza Carthy

Hattie Morahan reads Eliza Carthy's unusual and playful fairy tale, 'The Announcer's Daughter'. Eliza has been nominated for the Mercury Prize twice and grew up immersed in the world of traditional music - her parents are folk legends Martin Carthy and Norma Waterson. She approaches the tradition in new and innovative ways creating utterly contemporary work.

SUN 00:48 Shipping Forecast (b07djtrb)

The latest shipping forecast.

SUN 01:00 Selection of BBC World Service Programmes (b07djtrd)

BBC Radio 4 joins the BBC World Service. BBC Radio 4 resumes at 5.20am.

SUN 05:20 Shipping Forecast (b07djtrg)

The latest shipping forecast.

SUN 05:30 News Briefing (b07djtrj)

The latest news from BBC Radio 4.

SUN 05:43 Bells on Sunday (b07djym2)

St Mary Redcliffe in Bristol

This week's Bells on Sunday comes from St. Mary Redcliffe in Bristol. The majority of the ring of 12 was cast in 1903 but one bell dates back to as early as 1622. This week we hear the bells ringing Little Bob Maximus.

SUN 05:45 Profile (b07djnz6)

[Repeat of broadcast at 19:00 on Saturday]

SUN 06:00 News Headlines (b07djtrl)

The latest national and international news.

SUN 06:05 Something Understood (b07djym4)

Joy

Lord Sacks, the former Chief Rabbi, uses his debut presenting Something Understood to reflect on joy through music, prose

and poetry and some profound insights from his own life.

In a deep and moving programme Rabbi Sacks reflects on the difference between joy and happiness. The programme begins with a blast from Beethoven's great Choral Symphony and the final movement which uses the words of Schiller's Ode to Joy, 'Freude, schöner Götterfunken, 'Joy, O wondrous spark divine.' He goes on to point out the fact that Jewish history has not been obviously full of joy, but he uses two Psalms to illustrate the fact that despite suffering the Jewish faith is full of joy and the praise of God.

He ponders the uncertain world we live in and the anxiety it causes. Nevertheless he says "we are in a world filled with beauty. Every breath we breathe is the spirit of God within us. Around us is the love that moves the sun and all the stars. We are here because someone wanted us to be."

Another aspect of the modern world, the 'selfie', prompts an insight inspired by Wordsworth's poem Lines Composed a Few Miles above Tintern Abbey. "The self is too narrow a place to find meaning and satisfaction...the power of joy is that it momentarily silences the self so that we can see into "the life of things" and hear the music of the universe."

Presenter: Lord Sacks
Producer: Michael Wakelin
A TBI Media production for BBC Radio 4.

SUN 06:35 Living World (b07djym6)

Sparrowhawks

Chris Packham relives programmes from The Living World archives.

Fast, furious and dashing, the eruption of a sparrowhawk after its prey - can be a heart stopping moment. This opportunistic hunter of the woodland edge, sparrowhawks are increasingly coming into our gardens attracted by a smorgasbord of birds coming to our feeders. In this programme from 1993, Jessica Holm joins renowned sparrowhawk scientist Ian Newton along with ecologist Ian Wylie in a Northamptonshire wood where the chance of glimpsing a sparrowhawk may be slim but they persevere to find evidence of this highly skilled predator.

In the UK sparrowhawk populations have risen by about 150% between 1975 and 2008; although recently there has been a modest decline to a fairly stable population of about 40,000 birds.

Producer Andrew Dawes.

SUN 06:57 Weather (b07djtrn)

The latest weather forecast.

SUN 07:00 News and Papers (b07djtrq)

The latest news headlines. Including a look at the papers.

SUN 07:10 Sunday (b07djtrs)

Grandson of Hamas; Asylum report; Carly Paoli 'Ave Maria'

In his first UK media interview, Ed Stourton talks to John Calvin, grandson of the co-founder of Hamas, whose conversion to Christianity meant he had to flee the Middle East.

In 1964 Cassius Clay announced he had given up his name for Muhammad Ali and joined the Nation of Islam. Dr Dawn-Marie Gibson talks about how his faith influenced his life.

Ed Stourton talks to the BBC's Bangkok correspondent, Jonathan Head, about what the arrests of monks at the Thai Buddhist temple with links to animal trafficking says about the state of Buddhist monasticism in Thailand today.

Trevor Barnes investigates the findings of a report that claims the Home Office is rejecting asylum claims from converts to Christianity because officials are making basic mistakes about the faith and what followers should know.

Why is Vimto, a soft drink from Manchester, such a big seller in the Gulf States during Ramadan? Kevin Bocquet reports.

Sunday hears from Carly Paoli, the British mezzo soprano, whose version of Ave Maria will be the official song for the Pope's Jubilee Year of Mercy celebrations in Rome.

Albert Einstein said: 'Science without religion is lame, religion without science is blind.' Three leading scientists, Professor Tom McLeish, Professor Mohamed El-Gomati and Professor Robert Winston, from three different faith traditions join Ed Stourton to discuss the science and religion 'question' in 2016, ahead of the debate at the Cheltenham Science Festival next week.

Producers:

Catherine Earlam
Peter Everett

Series Producer:
Amanda Hancox.

SUN 07:54 Radio 4 Appeal (b07djym8)
Shelter

Annie Lennox makes the Radio 4 Appeal on behalf of Shelter Registered Charity No 263710

To Give:

- Freephone 0800 404 8144
- Freepost BBC Radio 4 Appeal, mark the back of the envelope 'Shelter'
- Cheques should be made payable to 'Shelter'.

SUN 07:57 Weather (b07djtrv)

The latest weather forecast.

SUN 08:00 News and Papers (b07djtrx)

The latest news headlines. Including a look at the papers.

SUN 08:10 Sunday Worship (b07djymb)

Thy Will Be Done

"Thy will be done"

Continuing the occasional series on the Lord's Prayer, the Rev David Bruce asks what it means when Christians pray "Thy will be done on earth, as it is in heaven" and how this should influence the way in which they relate to the society in which they live,

From Hillsborough Presbyterian Church, Co Down Led by the Rev Dr Bert Tosh, with the New Irish Choir, directed by Jonathan Rea.

Choicest Psalmody (Rea)

From all that dwell below the skies (EASTER SONG)

Micah 6.1-8

The Lord's Prayer (David Fanshawe)

Matthew 7.21-26

O Thou who camest from above (HEREFORD)

God of Justice (Hughes)

May the mind of Christ my Saviour (ST LEONARDS)

A Clare Benediction (Ruter).

SUN 08:48 A Point of View (b07cyvkr)

The Ring of the Nibelung

Following the death of the philosopher, author and self-professed Wagner fan, Sir Roger Scruton, this is one of our favourite talks he did for the series.

As Wagner's Ring – that huge and controversial cycle of operas - went on tour around the UK, Roger talked about why The Ring is absolutely a story for our time.

"I have loved The Ring and learned from it for over 50 years and for me, it is quite simply the truth about our world - but the truth expressed by means of music of unquestionable authority and supreme melodic and harmonic power".

The talk was first broadcast in 2016.

Producer: Adele Armstrong

SUN 08:58 Tweet of the Day (b03zdkjv)

Snipe

Tweet of the Day is a series of fascinating stories about our British birds inspired by their calls and songs.

Kate Humble presents the snipe. The snipe is an intricately patterned wader, not much bigger than a blackbird but with an enormously long bill. In the breeding season they fly high above their territories before dashing earthwards and then sweeping upwards again. Throughout this display you'll hear a bleating sound, known as 'drumming'. Find out how the sound is made in today's programme.

SUN 09:00 Broadcasting House (b07djtrz)

Sunday morning magazine programme with news and conversation about the big stories of the week. Presented by Paddy O'Connell.

SUN 10:00 The Archers Omnibus (b07djzyn)

Johnny stands by Tom, and the Aldridges celebrate.

SUN 11:15 Desert Island Discs (b07djzyq)

David Nott

Kirsty Young's castaway is the surgeon, David Nott.

He works across three London hospitals performing general, vascular, trauma & reconstructive surgery. In addition, for the past two decades, he's spent several weeks every year working in conflict zones around the world for Médecins Sans Frontières (MSF) and the International Committee of the Red Cross (ICRC).

Born in Carmarthen, Wales, he was brought up by his grandparents until he was four while his parents finished their training - his Welsh mother became a nurse, his Indo-Burmese father an orthopaedic surgeon. He studied medicine at St Andrews University and completed his medical and surgical training in Manchester and Liverpool before becoming a consultant general and vascular surgeon working in London.

He first volunteered to go into a war zone in 1993 when he travelled to Sarajevo. Since then he has worked in Iraq, Afghanistan, Sierra Leone, Liberia, Ivory Coast, Chad, Haiti, Yemen, Nepa, Gaza and Syria. In 2016 he and his wife, Elly, set up the David Nott Foundation, a charity which funds the training of local doctors to work in conflict zones and hostile environments.

Producer: Cathy Drysdale.

SUN 12:00 News Summary (b07djt1)

The latest national and international news from BBC Radio 4.

SUN 12:04 Just a Minute (b07cv0xz)

Series 75

Episode 3

Nicholas Parsons and guests return for the 75th series of the panel show where participants must try to speak for 60 seconds without hesitation, deviation or repetition. No repetition? That's no small order after nearly 50 years.

Paul Merton, John Finnemore, Gyles Brandreth and Sheila Hancock join host Nicholas Parsons, and the topics on the cards include Kew Gardens, Thomas Hardy and Wasabi Peas.

Hayley Sterling blows the whistle.

Produced by Victoria Lloyd.

SUN 12:32 The Food Programme (b07djzys)

An Archive for Food

In the British Library there is an archive of life story sound recordings which tells the true story of how our food has changed over the past century. Until now, this collection has been accessible only by visiting the British Library. Now, for the first time, the 'National Life Stories project' is being made public online. Featuring hundreds of voices, and thousands of hours of interviews, it is one of the most comprehensive and revealing resources we have on food in the UK. Contributors range from chefs like Shaun Hill and Albert Roux, to biscuit factory managers, from butchers to apple growers.

In this edition, The Food Programme is collaborating with the British Library to bring you highlights from the 'National Life Stories' archive. Historian Polly Russell picks voices which shed light on hidden parts of the food industry, from restaurant kitchens to the high street. And in recounting these histories to today's chefs, restaurateurs and shop owners, she finds how working in British food has changed.

Presented by Sheila Dillon with Polly Russell & Barley Blyton

Produced in Bristol by Clare Salisbury.

SUN 12:57 Weather (b07djt3)

The latest weather forecast.

SUN 13:00 The World This Weekend (b07djt5)

Global news and analysis.

SUN 13:30 In Wales the Ball Is Round (b07djzyv)

Football and Rugby, Meaning and Myth

Football is the Welsh national sport. Yes, you read that right. Comedian and writer Elis James gives a polemical appraisal of football's role in constructing modern Welsh identity. (1/2)

The story of football in Wales tells a richer, geographically-wider, more socially-inclusive national story than rugby, the country's much vaunted "national sport". The Welsh football story has long embraced crosspollination from ethnic communities, the influx and growth of industries other than coal and steel, and the myriad geographical, social and linguistic divisions that crisscross Wales. In 2016, more Welsh people

watch football and follow their local team than rugby; six times as many Welsh women play football than its oval-balled cousin.

But no-one's listening. Across Offa's Dyke and within the Welsh media, we're being sold a myth. Rugby articulates a set of comfy, uninterrogated clichés about a fabled Welsh national psyche (Poetry! Coal mines! Celts! Oppressed by the English!) that's ossified. Only in the story of Welsh football - virtually ignored by British sporting media - does one find laid bare the difficult, rich tapestry of Wales today.

As the Welsh national football team embarks on its first major tournament for nearly sixty years, Elis James examines why sport plays such a key role - within Wales and to all of us - in constructing different kinds of national, ethnic and personal identities. What are the difficulties and myths that are generated when a sport is elevated to "national" status? And for small nations like Wales taking confidence from the patriotism their national teams generate - how much does a national sport help them stand on their own two feet - and how much does it distract from the hard questions of what it means to be a nation?

In the first episode, Elis James explores the extent to which football has played second-fiddle to rugby in Wales. How much does the constant veneration of a mythologised national sport - and football's failure to break through into the popular imagination - hold Wales back from being a forward-looking, modern nation?

With contributions from Martin Jolnes, Sarah Dunant, Laura McAllister, Dai Smith and Simon Kuper.

Producer: Steven Rajam.

SUN 14:00 Gardeners' Question Time (b07cyvk3)

Hay Festival

Peter Gibbs hosts the horticultural panel programme from the Hay Festival. Matthew Wilson, Bob Flowerdew and Pippa Greenwood answer the questions from the audience.

This week they discuss keeping plants in campervans, how to prevent onion rot and the best edible plants for a greenhouse. In the features Pippa Greenwood visits the Westonbury Mill Water Gardens to discover the benefits of water in planting and the panel recommend their favourite gardening books.

Produced by Dan Cocker

Assistant producer: Hannah Newton

A Somethin' Else production for BBC Radio 4.

SUN 14:45 The Listening Project (b07djzyx)

Sunday Omnibus - Seeing People Differently

Fi Glover introduces conversations from Cumbria, Lancashire and London, about the ways people view those who look or live differently from them, in the Omnibus edition of the series that proves it's surprising what you hear when you listen.

The Listening Project is a Radio 4 initiative that offers a snapshot of contemporary Britain in which people across the UK volunteer to have a conversation with someone close to them about a subject they've never discussed intimately before. The conversations are being gathered across the UK by teams of producers from local and national radio stations who facilitate each encounter. Every conversation - they're not BBC interviews, and that's an important difference - lasts up to an hour, and is then edited to extract the key moment of connection between the participants. Most of the unedited conversations are being archived by the British Library and used to build up a collection of voices capturing a unique portrait of the UK in the second decade of the millennium. You can learn more about The Listening Project by visiting bbc.co.uk/listeningproject

Producer: Marya Burgess.

SUN 15:00 Drama (b07dk01s)

George Bernard Shaw - Major Barbara

Episode 1

Barbara's mission is to save East End souls in the West Ham Salvation shelter. A tale of rich privilege and a battle of wills. All wrapped up in a romance, the return of a long lost father and a little matter of finding a foundling to carry on the Undershaft arms and gunpowder empire.

Starring Eleanor Tomlinson and Rebecca Front.

Written in 1905, George Bernard Shaw's classic is funny, enjoyable and crafty in dividing opinion and it leaves you pondering whether anything has changed over the years.

At its heart - a simple and intriguing conflict: the struggle between arms manufacturer Andrew Undershaft and his Salvationist daughter Barbara. Can a father win his daughter's heart and mind?

All the best things about Shaw are here - the humour, the teasing paradoxical thinking and the sense of life being both absurd and deadly serious. How should people be ruled and how should they be helped? And who is really pulling the strings in the struggle for power - politicians or money?

Barbara Eleanor Tomlinson
Adolphus (Dolly) Jack Farthing
Lady Britomart Rebecca Front
Andrew Undershaft Matthew Marsh
Stephen Joel MacCormack
Sarah Scarlett Brookes
Charles (Cholly) Kieran Hodgson
Morrison Brian Protheroe
Mrs Baines Susan Jameson
Jenny Hill Nicola Ferguson
Bill Walker Ewan Bailey
Snobby Price Sargon Yelda
Rummy Mitchens Adie Allen
Peter Shirley Sean Baker

Concertina played by Colin Guthrie and Cornet by Peter Ringrose.

Director: Tracey Neale

First broadcast on BBC Radio 4 in June 2016.

SUN 16:00 Bookclub (b07dk0y1)

Tony Harrison's Poem v

James Naughtie and a group of readers talk to Tony Harrison about his controversial poem v. first published in 1985.

Harrison wrote the poem in 1985, after being angered by graffiti sprayed on his parents' grave by football fans in his home town of Leeds.

A filmed version of the poem, directed by Richard Eyre, caused controversy two years later when it was announced that it was to be broadcast on Channel 4.

The poem, which includes repeated strong language was denounced by tabloid newspapers as a "torrent of filth". A group of Conservative MPs signed an early day motion to have the programme pulled from the schedules.

Others defended the poet's right to use such language to draw attention to the wanton desecration of his family's grave. It was also seen against the backdrop of the Miners' strike and racial intolerance in British cities.

Recorded at the Hexham Book Festival.

July's Bookclub choice : The Vanishing Act of Esme Lennox by Maggie O'Farrell (2006)

Interviewed guest : Tony Harrison

Presenter : James Naughtie

Producer : Dymphna Flynn.

SUN 16:30 Poetry Please (b07dk0y3)

Attila the Stockbroker's Mum

Roger McGough with listeners' requests, including a moving poem by Attila the Stockbroker reflecting on his mother's rich life before Alzheimer's gradually robbed her of her memory. The readers this week are Simon Armstrong, Rosie Cavaliero, Attila the Stockbroker and Radio 4 announcer and poetry lover, Zeb Soanes.

Producer Christine Hall.

SUN 17:00 File on 4 (b07cx2rt)

Fair Game

English football clubs enjoy a high profile around the world, leading to many companies vying to do business with them. But have some football clubs entered into financial deals with companies with questionable backgrounds?

File on 4 explores whether clubs are vulnerable to companies and individuals who use the reputation of English football to lend credibility to their activities. But what due diligence do clubs undertake when securing such deals? Allan Urry looks at the relationship between soccer and sponsorship. He hears from some of the victims who've lost money, because they believed those who do business with the biggest names in football, could be trusted.

Reporter - Allan Urry

Producer - Emma Forde.

SUN 17:40 Profile (b07djnz6)

[Repeat of broadcast at 19:00 on Saturday]

SUN 17:54 Shipping Forecast (b07djtc)

The latest shipping forecast.

SUN 17:57 Weather (b07djtsf)

The latest weather forecast.

SUN 18:00 Six O'Clock News (b07djts)

Sir John Major has delivered a withering assessment of the way the campaign for Britain to leave the European Union is being waged. He said it was squalid and misleading - and he singled out Boris Johnson for criticism, describing him as a court jester. Vote Leave dismissed the comments as name-calling and said Sir John was looking "slightly mad".

SUN 18:15 Pick of the Week (b07dk3db)

Susan Calman

Susan Calman picks her favourite radio from the last week. You'll hear a singer with an unbelievable voice, a time travelling murderer, Dave Gorman's sexy laugh and tennis commentators with a thing for Novak Djokovic's hair. You'll also hear how Robert Peston's idiosyncratic voice has helped and hindered him and three tales of an eerie future.

Production team: Kevin Mousley, Kay Bishton and Sally Richardson.

SUN 19:00 The Archers (b07dk3dd)

Pip and Tom prepare for Open Farm Sunday at Brookfield and Tom explains his family don't have the energy to recruit and train someone to staff the Bridge Farm shop now it's re-opened. They're manning it themselves along and Kirsty is doing some shifts too. In front of visitors at Brookfield, Adam explains high-tech fertilising while Pip and David talk about their suckler beef. They are all interrupted by the noise of Toby's drone flying overhead which David said he could demonstrate. Josh promotes Upper Class Eggs, though the sample half dozen boxes he's offering don't sell well.

At the end of the day in The Bull Adam and David discuss the EU Referendum and their different points of view. Pip says she's heard a lot from David but maybe she also needs to hear Adam's angle. Tom enjoys the company and is pleased to be part of something positive.

Lilian and Justin get back from a weekend away in the Peak District. Before Justin leaves to collect Miranda from the airport, he asks Lilian what she will say to Jennifer about their arrangement. Lilian says she won't be announcing what's happening between them but if her sister asks her directly she will be honest with her. Justin gets a text from his contact at the county council; there's going to be an announcement about the relief road plans.

SUN 19:15 The Write Stuff (b01slrsw)

Series 16

Greek Tragedy

Radio 4's literary panel show, hosted by James Walton, with team captains Sebastian Faulks and John Walsh and guests Mark Billingham and Natalie Haynes.

Produced by Alexandra Smith.

SUN 19:45 Dangerous Visions (b07bzjss)

Dark Vignettes

Spine

The third of four specially-commissioned stories in the Dangerous Visions series.

Spine by Anita Sullivan

Set in the not-too-distant future. A mother and son must run the gauntlet of high-tech security, and severe travel-restrictions, to leave their homeland in search of a better life.

Writer: Anita Sullivan

Reader: Martina Laird

Producer: Jeremy Osborne

A Sweet Talk production for BBC Radio 4

SUN 20:00 Feedback (b07cvvk5)

With one of the biggest national decisions inching closer, listeners give their verdict on the BBC's referendum coverage so far. Some feel that the network is giving more attention to one side of the campaign - particularly in its headline reporting - others are concerned that the BBC is only reflecting a limited set of views. Most pertinently, those following the coverage ask whether the corporation's impartiality restricts its reporters from digging out hard facts. Assistant political editor Norman Smith responds to these queries and discusses how he deals with this turbulent political story.

Have you ever wondered about the class background of the BBC's producers, presenters and even on-air guests? Do you want a run-down of whether interviewees on Radio 4's Today programme are from a certain class hierarchy? These are the probing questions from certain Feedback listeners - some of whom wonder if this gives Radio 4 an overall middle-class tone. Katherine Godfrey, a Feedback producer, drills down into the BBC's statistics and asks what the corporation is doing to better reflect the class composition of Britain.

On-going Radio 4 series Born in Bradford follows one of the biggest medical research projects in the UK. Beginning in 2007, the programmes investigate child development and how this might explain the causes of some diseases. In the latest edition presented by Winifred Robinson (You and Yours), emotional and difficult conversations with pregnant women moved many listeners.

And fans of From Our Home Correspondent explain why this sister programme offers a unique quality to their radio listening.

Produced by Karen Pirie.

A Whistledown Production for BBC Radio 4.

SUN 20:30 Last Word (b07dk3hd)

Carla Lane, Sir Denys Henderson, Jane Fawcett, Alan Devereux and Buster Cooper

Matthew Bannister on

Carla Lane who wrote hit TV comedies including The Liver Birds, Bread and Butterflies. Wendy Craig pays tribute.

The ICI Chairman Sir Denys Henderson, who fought off a takeover bid from Lord Hanson and split the company into two parts.

Jane Fawcett, the former debutante who worked with the code-breakers at Bletchley Park and then fought to conserve many of Britain's greatest Victorian buildings.

And Alan Devereux who for nearly fifty years played Sid Perks in the Archers.

SUN 21:00 Money Box (b07dkjk7f)

[Repeat of broadcast at 12:04 on Saturday]

SUN 21:26 Radio 4 Appeal (b07djym8)

[Repeat of broadcast at 07:54 today]

SUN 21:30 Analysis (b07cv0y7)

Protectionism in the USA

Edward Stourton examines America's long history of resistance to free trade, and asks why it has again become such a potent political force. Donald Trump's most consistent policy has been opposition to free trade agreements which he sees as unfair, particularly with China. On the Democratic side, Bernie Sanders has been equally opposed, if for different reasons, while Hillary Clinton has had to tack away from her previous support for free trade pacts. Edward looks back to debates from the 19th century to the 1990s to shed new light on these forces. And he asks whether the protectionist impulse is a natural reaction to globalisation's wrenching changes.
Producer: Smita Patel.

SUN 22:00 Westminster Hour (b07djtsk)

Weekly political discussion and analysis with MPs, experts and commentators.

SUN 23:00 Champions of Civil Rights (b0076npl)

Following the death of Muhammad Ali, Radio 4 explores his powerful and often divisive place in the history of Black America, alongside two other black heavyweight boxing champions - Floyd Patterson and Sonny Liston. Acclaimed author Davis Miller tells the story of how their pasts, politics, religions and, most of all, their fights came to be part of the racial politics during the era of civil rights. Producer: Richard Vadon. First broadcast in 2004.

SUN 23:30 Something Understood (b07djym4)

[Repeat of broadcast at 06:05 today]

MONDAY 06 JUNE 2016

MON 00:00 Midnight News (b07djtvz)

The latest national and international news from BBC Radio 4. Followed by Weather.

MON 00:15 Thinking Allowed (b07cx2cq)

Ale drinkers, Northern accents

Northern accents at work: Trainee teachers are under pressure to speak the Queen's English. Laurie Taylor talks to Alex Barrata, lecturer in Linguistics at the University of Manchester, & author of a study which finds that certain regional accents are frowned upon in a profession that would normally oppose discrimination. They're joined by Paul Kerswill, Professor in the Department of Language and Linguistic Science at the University of York.

Sensible drinkers: the drinking discourses of real ale enthusiasts. Thomas Thurnell-Read, Lecturer in Cultural Sociology at the University of Loughborough, explores the way in which some drinkers construct themselves as sociable and self controlled, in contrast to their hedonistic and unruly counterparts

Producer: Jayne Egerton.

MON 00:45 Bells on Sunday (b07djym2)

[Repeat of broadcast at 05:43 on Sunday]

MON 00:48 Shipping Forecast (b07djt2)

The latest shipping forecast.

MON 01:00 Selection of BBC World Service Programmes (b07djt4)

BBC Radio 4 joins the BBC World Service.

MON 05:20 Shipping Forecast (b07djt7)

The latest shipping forecast.

MON 05:30 News Briefing (b07djt8)

The latest news from BBC Radio 4.

MON 05:43 Prayer for the Day (b07g10f1)

A spiritual comment and prayer to begin the day with Rania Hafez, a senior lecturer in education at the University of Greenwich.

MON 05:45 Farming Today (b07dkk05)

Confusion over food labels, EU glyphosate vote, Grassland management

Do you know your Red Tractor from your LEAF? Sybil Ruscoe hears about the confusion on the high street over those food labels.

A survey questioned 1,000 shoppers and the results show that only 15% of people recognised the LEAF logo - that's the label for Linking Environment & Farming who say their food is grown sustainably and with care for the environment. LEAF's Chief Executive Caroline Drummond agrees there's a way to go in terms of educating the public.

Today the EU discusses whether to ban or re-licence glyphosate - the weed killer used by farmers and gardeners - you might know it by the brand name Round Up. It's the most widely used herbicide in the EU but it's controversial because scientists disagree on whether it can cause cancer in humans. However, Pekka Pesonen, who's Director General of Copa and Cogeca, which represents European farmers, argues that farmers need glyphosate.

As the summer - hopefully - warms up and the grass is at its sweetest Farming Today looks at grass, its history, ecology and uses. Elaine Jewkes, who's director of the British Grassland Society, says managing pasture is now perhaps less of an art, and more of a science.

Produced by Mark Smalley.

MON 05:56 Weather (b07djt9)

The latest weather forecast for farmers.

MON 05:58 Tweet of the Day (b03x45bg)

Sand Martin

Tweet of the Day is a series of fascinating stories about our British birds inspired by their calls and songs.

Bill Oddie presents the sand martin. The flickering shapes of sand martins over a lake or reservoir are a welcome sign of spring. After winging their way across the Sahara Desert, the first birds usually arrive in the UK in March. They're smaller than house martins or swallows, and they're brown above and white below with a brown band across their chest. Often you can hear their dry buzzing calls overhead before you see them.

MON 06:00 Today (b07dkk07)

Morning news and current affairs. Including Sports Desk, Weather and Thought for the Day.

MON 09:00 Start the Week (b07dkk09)

Genes: Our medical inheritance

On Start the Week Andrew Marr traces the quest to decipher the human genome. The idea of a 'unit of heredity' first emerged at the end of the 19th century: cancer physician Siddhartha Mukherjee recounts the history of the gene and the latest research into genetic heredity and mutation. Giles Yeo looks at what genes can tell us about body weight, while Aarathi Prasad explores how India practises medicine - from cutting-edge science to traditional healing. The historian Emily Mayhew traces the medical breakthroughs that have emerged from the battlefield, from World War I to the conflict in Afghanistan.

Producer: Katy Hickman.

MON 09:45 Book of the Week (b07dkk0c)

Only in Naples

Episode 1

Katherine Wilson tells her story of travelling to Naples and discovering love, food and family in a uniquely Neapolitan way.

Fresh out of college in 1996, Katherine arrives in Naples from America to intern at the United States Consulate. "There is a chaotic, vibrant energy about Naples that forces you to let go and give in," writes Katherine, who meets handsome, studious Salvatore and finds herself immediately enveloped by his elegant mother, Raffaella, and the rest of the Avallone family.

From that moment, Katherine's education begins. Never eat the crust of a pizza first, always stand up and fight for yourself and your loved ones, and consider mealtimes sacred - food must be prepared fresh and consumed in compagna.

Immersed in Neapolitan culture, traditions, and cuisine, slowly and unexpectedly falling for Salvatore, and longing for Raffaella's company and guidance, Katherine discovers how to prepare meals that sing - from hearty, thick ragu to comforting rigatoni alla Genovese, to name but two.

Through courtship, culture clashes, Sunday services, marriage, and motherhood, Katherine comes to appreciate carnale, the quintessentially Neapolitan sense of comfort and confidence in one's own skin. Raffaella and her famiglia are also experts at sdrammatizzare, knowing how to suck the tragedy from something and spit it out with a great big smile.

Part travel tale, part love letter. Only in Naples is a sumptuous story that is a feast for the senses.

Fenella Woolgar ... Reader

A Pier production for BBC Radio 4.

MON 10:00 Woman's Hour (b07djtwn)

What do African-American women make of Hillary Clinton? Elisa Lasowski

What do US women make of Hillary Clinton? Can we assume that just because she would be the first female president of the United States, she will automatically get most women's votes? How great is her appeal to Black women? We discuss the issues on female voters minds.

French actress Elisa Lasowski has appeared in some critically acclaimed British films. Her latest television role as Marie-Therese, wife of the philandering Louis XIV in the BBC drama Versailles that has just started, has attracted critical attention. Jane talks to Elisa about her new part.

What is it really like when a partner passes away? And does the status of the relationship make a difference? Emma Barnett speaks to three women who share their own experiences. A group of women were employed to paint dials with radium in 1920's America. They licked the brushes they used to sharpen the point, the radium dust was everywhere in the workshop and when they went home at night they were glowing. Many developed health problems, and some died. A handful of the

women campaigned to get their employers to admit liability, but it took until 1938 to get justice. Kate Moore tells their story in her new book.

MON 10:45 15 Minute Drama (b07dkk0f)

A Small Town Murder

Episode 1

Meera Syal returns as family liaison officer Jackie Hartwell in the eighth series by Scott Cherry.

While still grieving over the disappearance of one of her closest work colleagues, Jackie is sent to talk to Rachel Dickson, whose son has just been seriously injured in a hit and run incident. Jackie knows Rachel of old - she is married to one of Birmingham's notorious villains.

Written by Scott Cherry
Produced and Directed by Clive Brill

A Brill production for BBC Radio 4.

MON 11:00 The Untold (b07dkk0h)

Battle Song

Grace Dent tells the story of Deborah, a dynamic barbershop singer, in the lead up to the biggest competition of the year.

Deborah loves her family, her dog and, possibly most of all, barbershop singing.

She would drive hundreds of miles each week to sing in the best choruses in southern England. Now living in Christchurch, she sings with Wessex Harmony and music runs through the fabric of the house; her husband directs her current chorus, her daughter sings in her barbershop quartet and her desk drawers are stuffed with singing medals.

Once a year the Ladies Association of British Barbershop Singers holds a convention to find the country's most talented chorus. Over two thousand women in sparkling outfits and identical makeup and jewellery, are pitted against each other. And Deborah starts to plan for this wonderful weekend a year ahead.

But in May she finds a lump on her breast. It is cancer.

Grace follows her through the year, looking at what Deborah is prepared to do to compete, the risks she wants to take, the sacrifices the family are prepared to make and asks what happens if she doesn't get there.

Producer: Sarah Bowen.

MON 11:30 The Break (b07dkk0k)

Series 1

Cold Mountain

Andy is beginning to settle in to the unusual seaside town of Flamford. When he and his Uncle Jeff find an abandoned fridge in the street, Jeff seizes the opportunity to teach his nephew the value of entrepreneurship.

Unfortunately, his plans are complicated by a particularly diligent and zealous Police Officer, a hard-nosed private landlord and Fish Shop Frank's refusal to see a business opportunity when it's sat on the pavement outside his chip shop.

Along the way, they meet a pair of half-hearted pirates, an eccentric plutocrat, Jeff's on-off paramour, Corinne and the youngest-sounding pub landlord in Britain.

Andy Tom Palmer
Jeff Philip Jackson
Frank Mark Benton
PC Clark Mark Benton
Corinne Alison Steadman
Joyce Alison Steadman
Morag Alison Steadman
Max Rasmus Hardiker
Julie Shobna Gulati

Writers: Ian Brown and James Hendrie

Director: Gordon Kennedy

An Absolutely production for BBC Radio 4 first broadcast in June 2016.

MON 12:00 News Summary (b07djtww)

The latest national and international news from BBC Radio 4.

MON 12:04 The Unseen - A History of the Invisible (b07dkkjy)

Invisible Forces

Science writer and broadcaster Philip Ball sets out on a quest to explore the peculiar world of the invisible, a mysterious realm where magic and science meet.

In this first episode, Philip finds himself face to face with the death mask of Sir Isaac Newton. At the Royal Society in London he meets librarian Keith Moore who reveals that Newton's work on invisible forces such as gravity was influenced by his secret fascination with the occult.

The notion that the world was governed by invisible universal forces was a central feature of natural magic. Newton was scorned by critics such as Gottfried Leibniz, who labelled him an occultist, yet he was able to mathematise his invisible forces and prove them to be very real. So the idea of an invisible force acting across empty space didn't get consigned to the realm of superstitious magic - instead, it became a central feature of physics.

Presenter: Philip Ball
Producer: Max O'Brien
A Juniper production for BBC Radio 4

MON 12:15 You and Yours (b07djtwy)

Beat the scammers. Automatic braking in cars. Fly tipping

Winifred Robinson hears about new efforts to crack down on scammers. The cars that do the braking for you to avoid a crash. The trouble YOU can get into if you don't check who's taking your excess household rubbish away. And would you share a flat or house with other people- other than your family- as you get older?

MON 12:57 Weather (b07djt1)

The latest weather forecast.

MON 13:00 World at One (b07djt5)

Analysis of news and current affairs.

MON 13:45 The Boy Who Gave His Heart Away (b07dkkk0)

Episode 1

August 2003. A virus has attacked the heart of a 15 year-old Scottish boy named Marc McCay and it will take a miracle to save him. Meanwhile, in Grantham, 16 year-old Martin Burton collapses at home. Writer and journalist Cole Moreton tells the story of what happens when the death of a child miraculously allows others to live.

A TBI Media production for BBC Radio 4.

MON 14:00 The Archers (b07dk3dd)

[Repeat of broadcast at 19:00 on Sunday]

MON 14:15 Drama (b0435hrb)

Original British Dramatists

When the Night Has No Right to Be King

ORIGINAL BRITISH DRAMATISTS
Discover 10 new voices over 10 Afternoon Dramas

There was a time when love blazed through Chris' life but now Sarah is gone and Chris must cross the broken ground of all that he has lost in order to save himself.

A man finds himself suspended between the living and the dead in John Lynch's moving and powerful drama about grief and the redemptive power of love. Inspired by Greek mythology of the Underworld, it explores altered consciousness and the turbulence of time and memory.

John Lynch is a successful film and television actor (Cal, In The Name of the Father, Sliding Doors, The Fall). He is also a writer. He has written two novels 'Torn Water' and 'Falling out of Heaven'. He co-wrote the screenplay 'Best' about George Best. He is currently writing his third novel. This is his first drama for radio.

Directed by Nadia Molinari
Sound Design by Steve Brooke.

MON 15:00 The 3rd Degree (b07dklge)

Series 6

Birmingham City University

Steve Punt hosts the battle of wits as three students from Birmingham City University take on their professors.

A funny and dynamic quiz show with specialist subjects including Visual Communication, English Literature and Sociology.

Questions range from Squash and Stretch to Roger McGough via Clement Attlee and the Duckworth-Lewis Method.

Producer: David Tyler.

A Pozzitive production for BBC Radio 4, first broadcast in June 2016.

MON 15:30 The Food Programme (b07djzys)
[Repeat of broadcast at 12:32 on Sunday]

MON 16:00 Moss Side Gym Stories (b07dklgf)
Moss Side Mirrors

Jackie Kay, acclaimed writer and Scotland's new Makar, writes a poem, commissioned by the BBC and inspired by the women who use Manchester's Moss Side Leisure Centre.

Close to the Centre are streets named in honour of one of the city's most famous residents, Elizabeth Gaskell, who moved to Manchester in the 1830s and knew these streets, as fields. In her debut novel, Mary Barton, Gaskell described this area as a place of serene rural beauty, where Manchester's families would come to walk, talk, rest and rejuvenate.

By the later part of the 20th century, the green fields had been replaced by housing estates. Moss Side's reputation for riots, gangs and guns spread nationwide but its ability to inspire writers remained intact, and a peaceful oasis - otherwise known as the Moss Side Leisure Centre - could still be found. In the first of these two programmes, the poet Mike Garry returned to the Moss Side Leisure Centre to perform his epic poem, Men's Morning, inspired by the Centre and the men who used it.

In this programme, Jackie Kay premieres her 21st century response - Moss Side Mirrors - an ode to the women who, like their 19th century antecedents immortalised by Elizabeth Gaskell, have found in this neighbourhood a place to escape from the pressures of daily life - to breathe deeply, unwind, and renew themselves.

Presented by Jackie Kay and produced in Salford by Claire Press and Ekene Akalawa.

MON 16:30 Beyond Belief (b07dklgh)
Belgium

Belgium is steeped in Catholic history, having been part of the French Empire until 1815 and eventually gaining independence from the largely Protestant Netherlands in 1830. The State subsidises all officially-recognised religions, paying the salaries of teachers of religion in state schools, stipends and pensions for Catholic clergy and for the renovation of church buildings. Yet it's thought Belgians practice their faith less than in most other European countries, and over many decades, there has been a fierce political debate about how much funding should go towards religious institutions. Muslim immigration in the 1960s changed the country's religious landscape. Following the recent Islamist terrorist attacks in Paris and Brussels, the Brussels district of Molenbeek has been accused of being a breeding ground for violent Jihadists. Ernie Rea and guests discuss how religion has shaped Belgium and the role it has to play in its future.

Producer: Dan Tierney
Series producer: Amanda Hancox.

MON 17:00 PM (b07djtxw)

Eddie Mair with interviews, context and analysis.

MON 18:00 Six O'Clock News (b07djtn)

Police believe Richard Huckle abused up to 200 children

MON 18:30 Just a Minute (b07gf911)

Series 75

Episode 4

Nicholas Parsons and guests return for the 75th series of the panel show where participants must try to speak for 60 seconds without hesitation, deviation or repetition. No repetition? That's no small order after nearly 50 years.

In this episode Paul Merton, Josh Widdicombe, Holly Walsh and Marcus Brigstocke join Nicholas Parsons as they try to shine discussing such diverse topics as The Hanging Gardens of

Babylon, The Bard, and A Nice Cup of Tea.

Hayley Sterling blows the whistle.
Produced by Victoria Lloyd.

MON 19:00 The Archers (b07dkl19)

Helen phones Anna from the mother and baby unit and learns that Rob is contesting the custody of Jack. There's going to be a hearing for the custody of both Henry and Jack later in the month. Anna suggests Helen needs to allow Rob supervised visits to Jack but Helen is adamant he shouldn't see the baby. Anna also tells Helen she needs to be present at the custody hearing. Helen is terrified at the thought of seeing Rob even though it will be via video link.

After her call with Anna Helen is emotional and she struggles with changing Jack's nappy. Kaz, another inmate at the unit, comes over to help Helen and they get to know each other a little.

Lilian keeps her answers vague when Jennifer and asks her about her weekend away. She then changes the subject and asks Jennifer about her upcoming trip on the Orient Express. Jennifer is trying to keep Kate - who wants help with the launch of her new venture - away from Phoebe who is revising for her A-Levels. Lilian tells Jennifer that Justin has heard the council is making announcement about the relief road plans. The sisters agree it's a huge decision, especially for Brookfield.

MON 19:15 Front Row (b07djtyz)

Peter Shaffer remembered, Don DeLillo, Anthony Horowitz on New Blood, Beth Orton

Playwright Peter Shaffer is remembered by theatre critic Michael Billington and director Thea Sharrock, who worked with him on the revival of Equus in 2007.

In a rare interview, American novelist Don DeLillo talks to Samira Ahmed about his new novel Zero K which explores cryogenics, immortality and death.

New Blood, is the latest series from Anthony Horowitz, creator of Foyle's War and the Alex Rider novels. In it, two junior investigators for the police and the Serious Fraud Office, Rash and Stefan, are brought together on television for the first time, linked by two seemingly unrelated cases.

Beth Orton has ditched the acoustic guitar and folk songs for her new album Kidsticks which is mostly composed from electronic loops, drum machines and keyboards. She describes the freedom of creating music without any expectations.

MON 19:45 15 Minute Drama (b07dkk0f)

[Repeat of broadcast at 10:45 today]

MON 20:00 The Borders of Sanity (b07f50c)

Sweden's Adolescents

Despite Sweden's reputation as an ideal place to grow up, the mental health of its adolescents has become a public health concern, with more young people reporting problems and seeking psychiatric help.

Is it down to a tougher economic climate, school stress, social media, so-called "curling parents"?

Christopher Harding investigates and asks whether Sweden is struggling to strike a balance between good mental health awareness and the creation of a medicalized culture of vulnerability with young people hung up on everyday troubles and traumas, dwelling on their reactions as pathological.

Producer: Keith Moore.

MON 20:30 Analysis (b07dknlv)

Silicon Valley Values

David Baker explores the identity and values of Silicon Valley - and what they mean for the rest of us. He talks to entrepreneurs, investors, academics and activists about how those values are permeating the world and what to do when they clash with other priorities down on the ground.

Producer: Peter Snowden.

MON 21:00 The Science of Resilience (b07evhrs)

Confucius said "Our greatest glory is not in never falling, but in rising every time we fall." Some people, however, are just better at getting back up when the most challenging life events knock them down. Today there is a growing body of research into mental resilience; where it comes from, why it matters and how it can be nurtured.

Journalist Sian Williams explores the science of resilience; she

meets Dr Michael Pluess from Queen Mary University of London who is testing for the resilience gene, and Professor Toni Bifulco who, along with her colleague Dr David Westley at Middlesex University, has developed an online test for those at risk of resilience failure.

Nobel laureate Professor Daniel Kahneman and science journalist and psychologist Daniel Goleman offer expert insight into resilience. Professor Martin Seligman who founded the Penn Resiliency Program, and David Clark, Professor of Experimental Psychology at the University of Oxford, describe the psychological background to mental strength and how it can be developed. Professor Lord Richard Layard from the LSE explains the economic benefits of building resilience into society. Sian visits Icknield Community College in Watlington in Oxfordshire where resilience is on the curriculum and watches a lesson in which children are taught to bounce back. She meets students, Headmaster Mat Hunter, teacher Claire Foster, and Lucy Bailey and Emma Judge from the resilience-building organisation How To Thrive.

The documentary is informed by Sian's own MSc research into post-traumatic growth and also from personal testimony: while drafting her thesis for academic publication, she experiences a sudden and very personal trauma which changes her view of resilience.

Producer: Dixi Stewart.

MON 21:30 Start the Week (b07dkk09)

[Repeat of broadcast at 09:00 today]

MON 21:58 Weather (b07djtzg)

The latest weather forecast.

MON 22:00 The World Tonight (b07djtzj)

Young people - will they come out to vote on 23 June?

Research suggests under-30s will be key to the vote's outcome. New Banksy find at a Bristol primary school. Is there a need for women-only spaces?

MON 22:45 Dangerous Visions (b07dknlz)

Never Let Me Go

Episode 6

For Radio 4's Dangerous Visions season of dystopian storytelling our Book at Bedtime is Booker Prize-winning author Kazuo Ishiguro's haunting novel of friendship, love and loss.

Kathy, Tommy and Ruth have only ever known the sheltered world of Hailsham, a secluded country boarding school. As they grow up, they begin to understand the true purpose of their isolated upbringing and the fate that lies in store for them.

Ishiguro's alternative vision of late 1990s England is a disquieting meditation on what makes us human, whether we can escape the fate set out for us and how we each find meaning in our lives.

Book at Bedtime is an abridged version of the novel.

Written by Kazuo Ishiguro
Read by Rachel Shelley
Abridged by Lauris Morgan-Griffiths
Produced by Mair Bosworth.

MON 23:00 Self's Search for Meaning (b07dknm1)

Science

Where does the modern Briton look to find meaning? Many take their lead from key figures in Science, in Philosophy or in Faith, whose beliefs seem compelling - resounding in song, fashioned in stone and beamed into packed presentation halls... But away from the noise, what's actually at the core of the ideas being conveyed? Are they as forceful, distilled to their essence, and can they really imbue our lives with purpose?

In a three part series, Will Self asks some of Britain's key opinion makers to share, in simple terms, their conclusions about the nature - and meaning - of our existence. In the absence of certainty, what is it exactly that strengthens their convictions, and how do these inform their everyday actions? How do we live well, in service to a higher purpose - and can we find meaning without one?

With contributors including Dr. Rowan Williams, Alain de Botton and Baroness Susan Greenfield, Self explores three fields of human comprehension, before probing their foundations in open, lively and searching discussion.

Episode breakdown:

1. Leaders of Science - 06/06 tx date
2. Leaders of Thought - 13/06
3. Leaders of Faith - 20/06.

MON 23:30 Today in Parliament (b07dknm3)

Sean Curran reports from Westminster on the progress of the Investigatory Powers Bill and discussion regarding EU prisoners in British gaols.

TUESDAY 07 JUNE 2016**TUE 00:00 Midnight News (b07djv4z)**

The latest national and international news from BBC Radio 4. Followed by Weather.

TUE 00:30 Book of the Week (b07dkk0c)

[Repeat of broadcast at 09:45 on Monday]

TUE 00:48 Shipping Forecast (b07djv5b)

The latest shipping forecast.

TUE 01:00 Selection of BBC World Service Programmes (b07djv5d)

BBC Radio 4 joins the BBC World Service.

TUE 05:20 Shipping Forecast (b07djv5g)

The latest shipping forecast.

TUE 05:30 News Briefing (b07djv5j)

The latest news from BBC Radio 4.

TUE 05:43 Prayer for the Day (b07f516c)

A spiritual comment and prayer to begin the day with Rania Hafez, a senior lecturer in education at the University of Greenwich.

TUE 05:45 Farming Today (b07dlww0)

Gene editing to create hornless cattle, EU workers on farms and seed gene bank

Scientists in the United States have used gene editing technology to breed cattle without horns. They've taken genes from hornless Aberdeen Angus cattle, and added them to dairy cattle. Usually dairy calves have to be de-horned. The technique is controversial though. The animal welfare charity Compassion in World Farming says it's unnecessary, and the same effect could be achieved through natural cross breeding.

Presented by Anna Hill and produced by Sally Challoner.

TUE 05:58 Tweet of the Day (b03wq2nz)

Lapwing

Tweet of the Day is a series of fascinating stories about our British birds inspired by their calls and songs.

Bill Oddie presents the lapwing. The lovely iridescent greens and purples of the lapwing: with its delicate crest and broad rounded wings that almost seem to twinkle in level flight, they are seen less often on our farmland today. At one time they were so common that their freckled eggs were harvested and sent off to the cities to pamper the palates of urban epicures.

TUE 06:00 Today (b07dlww2)

Morning news and current affairs. Includes Sports Desk, Yesterday in Parliament, Weather and Thought for the Day.

TUE 09:00 The Life Scientific (b07dlww4)

Marcus du Sautoy on mathematics

Marcus du Sautoy wasn't particularly good at maths at school; but a teacher spotted his aptitude for abstract thought and he started reading, and enjoying, journals filled with mathematical proofs. His thesis on the mathematics of symmetry launched him as a world class mathematician. And before he dies he wants to know: can you predict the properties of the next symmetrical object that could possibly exist in a hundred thousand dimensions or more? Marcus talks to Jim Al-Khalili about his passion for the performing arts, as well as mathematics; and why, for him, mathematics is as much a creative art as a science.

Producer: Anna Buckley.

TUE 09:30 One to One (b07dlww6)

David Greig and Angela Mudge

What does it take to be a successful runner of extreme distance and why do people do it?

David Greig is the Artistic Director of the Lyceum Theatre in Edinburgh and an internationally successful playwright. He's also an ultra-marathon runner who has twice completed the punishing 96 mile West Highland Way as well as many other long-distance races. He took up running fifteen years ago when he stopped smoking and running has since become an endorphin-fuelled obsession.

For One to One, David is speaking to two fellow runners. Today he meets former world hill running champion, Angela Mudge. Born with birth defects that affected her feet, Angela spent the first two and half years of life almost continually with her lower legs and feet in plaster. Despite this, she went onto be a hugely successful long-distance runner. Her most memorable race was when she became the first woman to break three hours when she won the Sierre-Zinal - 'the race of the 4000m peaks'.

But why do they do it?

Producer: Karen Gregor.

TUE 09:45 Book of the Week (b07f4zh3)

Only in Naples

Episode 2

Katherine Wilson tells her story of travelling to Naples and discovering love, food and family in a uniquely Neapolitan way.

Fresh out of college in 1996, Katherine arrives in Naples from America to intern at the United States Consulate. "There is a chaotic, vibrant energy about Naples that forces you to let go and give in," writes Katherine, who meets handsome, studious Salvatore and finds herself immediately enveloped by his elegant mother, Raffaella, and the rest of the Avallone family.

From that moment, Katherine's education begins. Never eat the crust of a pizza first, always stand up and fight for yourself and your loved ones, and consider mealtimes sacred - food must be prepared fresh and consumed in compagnia.

Immersed in Neapolitan culture, traditions, and cuisine, slowly and unexpectedly falling for Salvatore, and longing for Raffaella's company and guidance, Katherine discovers how to prepare meals that sing - from hearty, thick ragu to comforting rigatoni alla Genovese, to name but two.

Through courtship, culture clashes, Sunday services, marriage, and motherhood, Katherine comes to appreciate carnale, the quintessentially Neapolitan sense of comfort and confidence in one's own skin. Raffaella and her famiglia are also experts at *drammatizzare*, knowing how to suck the tragedy from something and spit it out with a great big smile.

Part travel tale, part love letter, Only in Naples is a sumptuous story that is a feast for the senses.

Fenella Woolgar ... Reader

A Pier production for BBC Radio 4.

TUE 10:00 Woman's Hour (b07djv5l)

150 years of feminism, Music journalist Sylvia Patterson, Scented rose grower Rosebie Morton

It's 150 years since Millicent Fawcett and other campaigners handed over their first petition for women's suffrage to Parliament. Jane Garvey and guests consider the impact a century and a half of feminism has had on women's lives.

Music journalist Sylvia Patterson shares highlights of her last 30 years writing about pop music - her days in the heyday of Smash Hits and NME, and interviewing some of the biggest names in the industry along the way.

Frustrated with the dull and scentless flowers on the market, Rosebie Morton started growing old-fashioned scented roses. Now she has a thriving business and looks after 30,000 roses and 1 million sweet peas.

TUE 10:45 15 Minute Drama (b07dlww8)

A Small Town Murder

Episode 2

Meera Syal returns as family liaison officer Jackie Hartwell in the eighth series by Scott Cherry.

While still grieving over the disappearance of one of her closest work colleagues, Jackie is sent to talk to Rachel Dickson, whose son has just been seriously injured in a hit and run incident. Jackie knows Rachel of old - she is married to one of Birmingham's notorious villains.

Written by Scott Cherry
Produced and Directed by Clive Brill

A Brill production for BBC Radio 4.

TUE 11:00 Natural Histories (b07dlwwb)

Fly

Houseflies, bluebottles, fruit flies - Brett Westwood explores how these flies that live close to us have buzzed in our imagination but have also taught us much about who we are. A scholar of literature, a genetic investigator, a naturalist, a forensic entomologist and a plain fly-lover come together to talk flies: Steve Connor, Peter Lawrence, Peter Marren, Martin Hall, and Erica McAlister. Readers: Anton Lesser and Niamh Cusack. Producer: Tim Dee

TUE 11:30 While My Guitar Gently Bleeps (b07dlx8y)

A plumber eating a mushroom, and a spiny mammal jumping on a golden ring - you'd be forgiven for thinking these actions would make pretty indistinct or ambiguous sounds. But comedian, writer and musician Isy Suttie discovers why - thanks to Super Mario and Sonic the Hedgehog - they're some of the most evocative sounds of the 1980s and 90s. Along with these sounds, the plinky plonky music of early video games buried itself inside a generation of ears growing up among Commodores, Ataris, Segas and Nintendos. Loosely referred to as "chiptune", many musicians and producers now use the jagged, electronic textures in their songs, going to great lengths to deliberately limit their audio palette for the sake of authenticity; some even rip apart old computers and consoles to build instruments faithful to the original sounds. Its ubiquity in film and TV scores is another testament to its efficiency in evoking that era.

Isy traces the evolution of chiptune from early electronic music, looking at how composers like Hirokazu Tanaka and Koji Kondo created the catchy and unmistakable themes of Tetris and Super Mario Brothers. She meets current chiptune artists, including the band whose instruments are joysticks and game controllers, and uses their advice to write her own digital classic. But can she convince the organisers of a die-hard gaming event to use it as their theme tune, and survive silicon scrutiny?

Produced by Benn Cordrey.

TUE 12:00 News Summary (b07djv5n)

The latest national and international news from BBC Radio 4.

TUE 12:04 The Unseen - A History of the Invisible (b07dlx90)

Conjuring the Invisible

Science writer and broadcaster Philip Ball sets out on a quest to explore the peculiar world of the invisible, a mysterious realm where magic and science meet.

In this episode, Philip pays a visit to a secretive institution in the heart of London - The Magic Circle. There he meets historian of magic and master conjuror William Houstoun who charts the relationship between science, stage magic and the early days of cinema.

Stage magicians have always been early adopters of the latest scientific discoveries, harnessing cutting edge research and using it to fool their audiences. In the eighteenth century, stage magicians used discoveries in the field of optics to conjure up invisible spirits in occult themed light shows called phantasmagoria.

The magic lanterns used in the phantasmagoria performances were primitive projectors. As the technology progressed, cinema was born. Many of the early cinematographers were keen stage magicians and used classic conjuring tricks to pioneer special effects. The most prominent effects made people and objects suddenly vanish and rendered ghostly figures on the screen. As Philip discovers, the obsession of the cinema pioneers with the invisible and the spirit world was no coincidence, given the magic lantern's occult past.

Presenter: Philip Ball
Producer: Max O'Brien
A Juniper production for BBC Radio 4

TUE 12:15 You and Yours (b07djv5q)

Call You and Yours: How has anxiety affected you?

Consumer phone-in.

TUE 12:57 Weather (b07djv5s)

The latest weather forecast.

TUE 13:00 World at One (b07dlx92)

Analysis of news and current affairs.

TUE 13:45 The Boy Who Gave His Heart Away (b07f4k5f)
Episode 2

It's August 2003 and life hangs in the balance for two teenage boys. A virus has attacked the heart of a Scottish boy called Marc McCay. Only 15 years old - he is slowly dying. Meanwhile further south an English boy is in grave danger. 16-year-old Martin Burton collapsed at home in Grantham at 2 o'clock in the morning and his mother has called the emergency services. Writer and journalist Cole Moreton tells the story of what happens when the death of a child miraculously allows others to live.

A TBI Media production for BBC Radio 4.

TUE 14:00 The Archers (b07dkl19)
[Repeat of broadcast at 19:00 on Monday]**TUE 14:15 Drama (b07dlxk4)**

Murdering My Dad

Murdering My Dad

by Rachel Mathews

A dark comedy about an adolescent girl who decides to kill her dad. When Lily's dad announces they are moving from her beloved city life in London, to the countryside up North, Lily can bear it no longer and decides to take drastic action. Lily takes inspiration from infamous historical murderers such as Lizzie Borden. This off beat drama explores the dynamic and sometimes fraught relationship with fathers and adolescent daughters.

Produced and directed by Pauline Harris

Rachel Mathews has written two previous dramas for Radio 4, *Chin Hair* and *The City At Night*. She is an award winning short film writer with *Danny & His Amazing Teeth* and is Winner of The London Screenwriters' Festival/The Wellcome Trust's 'Inspired By Science' Treatment Award 2011 for her feature film *Matrioshka*. Producer/Director Pauline Harris is multi national and international programme maker with productions such *The Startling Truths of Old World Sparrows*, the British Premier of *The Color Purple*, and producer/co-creator of *Blood, Sex and Money*; Emile Zola, starring Glenda Jackson.

TUE 15:00 The Kitchen Cabinet (b07dkj3v)

[Repeat of broadcast at 10:30 on Saturday]

TUE 15:30 Shared Experience (b07dlxmg)

Series 5

Scammed

What happens when you become the victim of a sophisticated scam that leaves you thousands of pounds out of pocket? Leaving aside the financial implications, Fi Glover hears how three people who would not seem likely targets for such fraudsters have been left with feelings of shame after the event.

Producer: Maggie Ayre.

TUE 16:00 Law in Action (b07dlxmj)

Artificial Intelligence and the Law

Artificial Intelligence has made great advances in recent years, with computer scientists developing cars without drivers, planes without pilots and mobile phones which can double up as a personal assistant. The legal profession is proving to be rich territory in the AI field too.

Joshua Rozenberg meets computer scientists at the University of Liverpool, who are using 'computational argumentation' to digitally decide the results of legal cases, proving that AI can be just as discerning as a court judge. He also meets the founder of a law firm already making the most of existing AI technology to benefit customers and build business.

But just how far is the legal profession - and the general public - willing to trust the judgement of an AI algorithm? The IT Adviser to the Lord Chief Justice, Professor Richard Susskind, explains where AI might fit into the legal sphere in years to come.

Also: The First 100 Years is a new digital history project, charting the pioneering role women have played in the legal profession. Law in Action speaks to the project's founder Dana Denis-Smith and Baroness Elizabeth Butler-Sloss.

Producers: Richard Fenton-Smith & Ben Crighton.

TUE 16:30 A Good Read (b07dlxml)

Trevor McDonald and Jon Snow

Sir Trevor McDonald, formerly of ITV News at Ten, and Jon Snow, of Channel 4 News, discuss favourite books with Harriet Gilbert. Together in studio for the first time, they share thoughts and reminiscences on working together as they discuss a much-loved look at the British, *Notes From A Small Island: Journey Through Britain* by Bill Bryson; a new novel: *Mothering Sunday* by Graham Swift and a timely study of a crucial time in American politics: *Master of the Senate: The Years of Lyndon Johnson* (Volume 3) by Robert A Caro. Producer Beth O'Dea.

TUE 17:00 PM (b07djv5v)

Carolyn Quinn with interviews, context and analysis.

TUE 18:00 Six O'Clock News (b07djv5x)

He admitted workers at the chain's Derbyshire warehouse were paid below the minimum wage

TUE 18:30 My Teenage Diary (b07dlxmj)

Series 7

Lionel Shriver

Writer Lionel Shriver reads from her frank and highly personal teenage journals, while discussing her formative years with Rufus Hound.

She talks about her attempts to rebel against her religious upbringing, her complex relationship with her older brother, and her suspicion of young children - which began when she was little more than a child herself.

Producer: Harriet Jaime

Executive Producer: Aled Evans

A Talkback production for BBC Radio 4 first broadcast in June 2016.

TUE 19:00 The Archers (b07dlxrb)

Kenton and Jolene put up at banner at The Bull promoting their shortlisting in the Borchester Food and Drink Awards. Fallon arrives, feeling the effects of the fruit pickers' barbeque the night before. Jolene tells her the imaginary girlfriend they invented for Wayne didn't go very well so she's getting Wayne and Kenton to talk about their ideas for The Bull over a working breakfast.

Ruth and David have lots of questions about what the road decision will mean for the future of their farm. Bert joins them and Jill at Brookfield while they wait for the announcement about the road plans. David hears from Neil that the outcome is on the agenda for the next cabinet meeting which is online. They're amazed to discover the council are going with Route C not Route B.

The Bull has one of its best nights in years as people gather there to celebrate the council's decision on the relief road route. Kenton has made a cocktail named 'SAVE Special Sling'. Jill comforts David who is emotional about Brookfield being saved. David makes a speech in the pub and declares "Route B is dead! Long live Ambridge", to which everyone cheers.

TUE 19:15 Front Row (b07djv5z)

Ben Kingsley, Casey Nicholaw, RA Summer Exhibition, Outcast

Ben Kingsley discusses his role as a driving instructor in his new film *Learning to Drive*.

The director and choreographer Casey Nicholaw, whose credits include *The Book of Mormon*, on bringing Disney's *Aladdin* to the West End stage.

The sculptor Richard Wilson, co-ordinator of the 2016 Royal Academy Summer Exhibition, discusses his selection for the world's largest open submission exhibition, and its focus this year on celebrated artistic duos.

Outcast is a new TV series based on the comics by Robert Kirkman that follows a young man plagued by demonic possession. Kim Newman reviews.

Presenter Samira Ahmed

Producer Jerome Weatherald.

TUE 19:45 15 Minute Drama (b07dlww8)

[Repeat of broadcast at 10:45 today]

TUE 20:00 File on 4 (b07dlxxt)

The Cancer Drugs Fund

Over the past five years thousands of patients in England have

been given access to new but expensive cancer drugs through a special Cancer Drugs Fund. But critics argue that hundreds of millions have been spent on drugs that offered poor value for money with sometimes limited effects. The Fund is now being reformed but cancer charities have written to the Prime Minister to express deep concern that drugs will now struggle to gain approval. Phil Kemp investigates the record of the Cancer Drugs Fund and asks if the proposed changes will offer better value for money or access for patients.

Reporter: Phil Kemp

Producer: Anna Meisel.

TUE 20:40 In Touch (b07djv61)

Cooking Healthy Food From Scratch

Last week we devoted the whole programme to the importance of keeping fit and active. This week we continue the theme of staying healthy by going into the kitchen and cooking a well-balanced meal from scratch. With the help of our very own food-lover, Richard Lane, who did our series *Can't See, Will Cook*, we get some tips about cooking well and safely when you're blind.

Plus news from an 'eye summit' discussing how the increasing demand for eye services can be met.

TUE 21:00 All in the Mind (b07dlxsw)

Aircraft noise and mental health, All in the Mind Awards, Imitation in newborn babies

Summer temperatures might be tempting you to eat outside, but maybe you live in a part of the country where your barbecues are blighted by aircraft noise and where you're woken in the morning by the roar of planes overhead? Some people insist that the noise affects their mental health. The evidence for the link between aircraft noise and depression has been patchy, but a major new study suggests there is a link. Claudia Hammond discusses the evidence with project leader and epidemiologist Professor Andreas Seidler from Dresden University.

We've another finalist in the All in the Mind Awards - this week from your nominations for the professional who'd made a real difference to your mental health.

If you've ever stuck your tongue at a young baby and watched it copy you back, you've observed early imitation - a key concept in developmental psychology. But is a new study about to overturn what psychology textbooks have been telling us for years? Psychologist Janine Oostenbroek of York University discusses her results.

With expert comment from Dr Catherine Loveday, Principal Lecturer in Cognitive Neuroscience at the University of Westminster.

TUE 21:30 The Life Scientific (b07dlww4)

[Repeat of broadcast at 09:00 today]

TUE 21:58 Weather (b07djv63)

The latest weather forecast.

TUE 22:00 The World Tonight (b07djv65)

Cameron and Farage in EU TV debate

Prime Minister and UKIP leader face live audience
Ritula Shah reports on the US elections from Baltimore in Maryland
Mike Ashley defends the way he runs Sports Direct in front of a committee of MPs.

TUE 22:45 Dangerous Visions (b07dlxxy)

Never Let Me Go

Episode 7

For Radio 4's *Dangerous Visions* season of dystopian storytelling our Book at Bedtime is Booker Prize-winning author Kazuo Ishiguro's haunting novel of friendship, love and loss.

Kathy, Tommy and Ruth have only ever known the sheltered world of Hailsham, a secluded country boarding school. As they grow up, they begin to understand the true purpose of their isolated upbringing and the fate that lies in store for them.

Ishiguro's alternative vision of late 1990s England is a disquieting meditation on what makes us human, whether we can escape the fate set out for us and how we each find meaning in our lives.

Book at Bedtime is an abridged version of the novel.

Written by Kazuo Ishiguro

Read by Rachel Shelley
Abridged by Lauris Morgan-Griffiths
Produced by Mair Bosworth.

TUE 23:00 What Does the K Stand For? (b0507mbg)
Series 2

A Royal Visit

Mad about the monarchy.

Stephen K Amos's sitcom about growing up black, gay and funny in 1980s south London.

Written by Jonathan Harvey with Stephen K Amos.

Stephen K Amos ... Stephen K Amos
Young Stephen ... Shaquille Ali-Yebuah
Stephanie Amos ... Fatou Sohna
Virginia Amos ... Ellen Thomas
Vincent Amos ... Don Gilet
Miss Bliss ... Michelle Butterly
Jayson Jackson ... Frankie Wilson
Margaret Cabourn-Smith ... Fergie

Producer: Colin Anderson

First broadcast on BBC Radio 4 in January 2015.

TUE 23:30 Today in Parliament (b07dlxyq)

Susan Hulme reports from Westminster. The founder of Sports Direct, Mike Ashley, appears before a committee of MPs and defends the company's working practices. Debate on the UK's EU membership spills over into Treasury questions in the Commons, while on the committee corridor the Archbishop of Canterbury intervenes in the EU referendum debate.

WEDNESDAY 08 JUNE 2016

WED 00:00 Midnight News (b07djv7p)

The latest national and international news from BBC Radio 4. Followed by Weather.

WED 00:30 Book of the Week (b07f4zh3)

[Repeat of broadcast at 09:45 on Tuesday]

WED 00:48 Shipping Forecast (b07djv7r)

The latest shipping forecast.

WED 01:00 Selection of BBC World Service Programmes (b07djv7t)

BBC Radio 4 joins the BBC World Service.

WED 05:20 Shipping Forecast (b07djv7w)

The latest shipping forecast.

WED 05:30 News Briefing (b07djv7y)

The latest news from BBC Radio 4.

WED 05:43 Prayer for the Day (b07g6xkz)

A spiritual comment and prayer to begin the day with Rania Hafez, a senior lecturer in education at the University of Greenwich.

WED 05:45 Farming Today (b07dly5g)

Phone masts, soil erosion, maize payments and better beef from grass

There are fears that landowners will be out of pocket from Government plans to speed up improved mobile phone coverage. Could the solution to soil erosion lie in the growing of trees among cereal crops? As Whitehall looks into the way maize is used for 'green' energy, the Soil Association claims that the crop is unsustainable when grown for fuel. It's hoped that farmers will see better beef and bigger profits from a grass trial taking place in Somerset.
Presented by Anna Hill and produced by Vernon Harwood.

WED 05:58 Tweet of the Day (b02ttqvw)

Turtle Dove

Tweet of the Day is a series of fascinating stories about our British birds inspired by their calls and songs.

Steve Backshall presents the turtle dove. The soft purring song of the turtle Doves are mentioned in the Song of Solomon in the Bible: "The voice of the turtle is heard in our land". They are

migrants from sub-Saharan Africa and are now a treat to see here in the UK where they breed in farmland and scrub where they can find weed seeds for their growing young.

WED 06:00 Today (b07dly5j)

Morning news and current affairs. Includes Sports Desk, Yesterday in Parliament, Weather and Thought for the Day.

WED 09:00 Midweek (b07dly5l)

Chris Boardman, Bella Merlin, Rex Pickett, Natalie Nicole James.

Libby Purves meets Olympic cyclist Chris Boardman; writer Rex Pickett; writer and academic Bella Merlin and performer Natalie James.

Bella Merlin is an actor, writer, and professor of acting and directing at the University of California, Riverside. In her book, *Facing the Fear*, she draws on her own and other actors' personal experiences to address the issue of stage fright and how the complex relationship between the actor and the audience affects the condition. Drawing on neurological research, she also offers practical tips from physical wellbeing to performance strategies. *Facing the Fear: An Actor's Guide to Overcoming Stage Fright* is published by Nick Hern Books.

Natalie Nicole James is dancer and circus performer. She plays Mowgli in Metta Theatre's new adaptation of Rudyard Kipling's *The Jungle Book*. The story of a child raised by wolves has been transposed to a contemporary urban jungle featuring street dancing monkeys, a beat-boxing bin man Baloo and graffiti artist Bagheera. *The Jungle Book* is at Cork's Midsummer Festival and at London Wonderground Festival, Southbank.

Chris Boardman MBE won an Olympic gold medal at the 1992 Barcelona Olympics as the first British cyclist to win for 75 years. He went on to become the first British rider since Tommy Simpson in 1967 to wear the race leader's yellow jersey in the Tour de France. Now a commentator and presenter, his endeavours both on and off the bike have made him the founding father of the current gold generation of British cyclists. His memoir, *Triumphs and Turbulence My Autobiography*, is published by Ebury Press.

Rex Pickett is a writer and the author of the novel *Sideways* which became an award-winning film directed by Alexander Payne. Now a play, adapted by the author, *Sideways* is the story of Miles and Jack, best friends facing their own personal crises who head off to Santa Barbara for a week of wine tastings. *Sideways* is at the St James Theatre, London.

Producer: Paula McGinley.

WED 09:45 Book of the Week (b07f4q8c)

Only in Naples

Episode 3

Katherine Wilson tells her story of travelling to Naples and discovering love, food and family in a uniquely Neapolitan way.

Fresh out of college in 1996, Katherine arrives in Naples from America to intern at the United States Consulate. "There is a chaotic, vibrant energy about Naples that forces you to let go and give in," writes Katherine, who meets handsome, studious Salvatore and finds herself immediately enveloped by his elegant mother, Raffaella, and the rest of the Avallone family.

From that moment, Katherine's education begins. Never eat the crust of a pizza first, always stand up and fight for yourself and your loved ones, and consider mealtimes sacred - food must be prepared fresh and consumed in compagnia.

Immersed in Neapolitan culture, traditions, and cuisine, slowly and unexpectedly falling for Salvatore, and longing for Raffaella's company and guidance, Katherine discovers how to prepare meals that sing - from hearty, thick ragu to comforting rigatoni alla Genovese, to name but two.

Through courtship, culture clashes, Sunday services, marriage, and motherhood, Katherine comes to appreciate carnale, the quintessentially Neapolitan sense of comfort and confidence in one's own skin. Raffaella and her famiglia are also experts at *sdrammazzare*, knowing how to suck the tragedy from something and spit it out with a great big smile.

Part travel tale, part love letter, Only in Naples is a sumptuous story that is a feast for the senses.

Fenella Woolgar ... Reader

A Pier production for BBC Radio 4.

WED 10:00 Woman's Hour (b07djv80)

Women and clean energy in India; Meg Rosoff

Ajaita Shah on winning the 2016 Ashden Award for her work in clean energy in India.

Amanda Wright on *Without A Mother's Love*, her memoir of her childhood following her mother's murder.

Author Meg Rosoff on winning the £430,000 Astrid Lindgren Award. Jane Garvey presents.

Women are less likely to start up new businesses than men - why? With Margaret Heffernan and Alex Depledge, founder of Hassle.com.

Presenter: Jane Garvey
Producer: Eleanor Garland.

WED 10:41 15 Minute Drama (b07dly5n)

A Small Town Murder

Episode 3

Meera Syal returns as family liaison officer Jackie Hartwell in the eighth series by Scott Cherry.

While still grieving over the disappearance of one of her closest work colleagues, Jackie is sent to talk to Rachel Dickson, whose son has just been seriously injured in a hit and run incident. Jackie knows Rachel of old - she is married to one of Birmingham's notorious villains.

Written by Scott Cherry
Produced and Directed by Clive Brill

A Brill production for BBC Radio 4.

WED 10:55 The Listening Project (b07dly5q)

Claudia and Alan - Living After Loss

Fi Glover introduces a conversation about how two people dealt with the death of someone close to them in very different ways. Another in the series that proves it's surprising what you hear when you listen.

The Listening Project is a Radio 4 initiative that offers a snapshot of contemporary Britain in which people across the UK volunteer to have a conversation with someone close to them about a subject they've never discussed intimately before. The conversations are being gathered across the UK by teams of producers from local and national radio stations who facilitate each encounter. Every conversation - they're not BBC interviews, and that's an important difference - lasts up to an hour, and is then edited to extract the key moment of connection between the participants. Most of the unedited conversations are being archived by the British Library and used to build up a collection of voices capturing a unique portrait of the UK in the second decade of the millennium. You can learn more about The Listening Project by visiting bbc.co.uk/listeningproject

Producer: Marya Burgess.

WED 11:00 The Borders of Sanity (b07f50c0)

[Repeat of broadcast at 20:00 on Monday]

WED 11:30 Polyoaks (b07dlygk)

Series 4

Duty of Candour

Jeremy raises the obligation doctors now have to tell the truth to patients and to apologise for their mistakes.

All at Polyoaks set out to be rigorously truthful to service users, a particular problem with one patient who has a really unusual and embarrassing problem.

Meanwhile Dr. Roy has problems with patients who insist on being rigorously truthful to him.

Nigel Planer and Simon Greenall star in the Health Service satire by Dr Phil Hammond and David Spicer.

The Polyoaks surgery is plagued by strikes, endless new management initiatives, staff shortages, militant patients, eight day weeks, privatisation - and all these things are entirely their fault, apparently.

Roy Nigel Planer
Hugh Simon Greenall
Monica Polly Frame
Jeremy David Westhead
Lauren Zalie Burrow
Mrs Shaw/ Mrs Cox Katie McDaniel
Mr Cox/ Mr Todd Julian Dutton

Director: Frank Stirling

A Unique Production for BBC Radio 4, first broadcast in June 2016.

WED 12:00 News Summary (b07djv82)

The latest national and international news from BBC Radio 4.

WED 12:04 The Unseen - A History of the Invisible (b07dm2k8)

The Spirit World

Science writer and broadcaster Philip Ball sets out on a quest to explore the peculiar world of the invisible, a mysterious realm where magic and science meet.

In this episode, Philip visits London's College of Psychic Studies to meet archivist and historian Leslie Price. The college is a unique institution, dedicated to furthering research into the psychic arts for over 130 years. In a seance room, surrounded by spirit photographs, Leslie reveals that 19th century developments in communications technologies such as telegraphy had a profound impact on the popular religion of spiritualism. Spiritualists believed that it was possible to converse with the invisible dead and the discovery that we could communicate over vast distances with unseen figures using the telegraph seemed to offer their beliefs a form of scientific verification.

The invention of radio, which sent invisible messages through the air, appeared to lend some support not just to spiritualism but to a whole range of paranormal and psychic phenomena, such as telepathy and telekinesis.

Later, the discovery of invisible X-rays which could peer into our bodies, revealing images of our skeletons like a presentiment of death, was also fascinating to those who believed in the spirit realm. X-rays and radioactivity shattered the notion that the material world was impenetrable, all of a sudden atoms could be broken apart.

Philip explains that those who believed in invisible spirits were hugely stimulated by this scientific research that suggested there is far more to our world than meets the eye.

Presenter: Philip Ball
Producer: Max O'Brien
A Juniper production for BBC Radio 4

WED 12:15 You and Yours (b07djv84)
BHS, Half Man Half Biscuit

The collapse of BHS has left 11,000 staff facing unemployment, and many more with questions about the £571m hole in the company's pension funds. We'll be reporting on the select committee appearance of Chief Executive Darren Topp and Dominic Chappell of Retail Acquisitions which bought BHS for a pound.

We'll look at the trend for people to use online sites like Just Giving to crowd fund funerals.

Also new guidance comes from the regulator, The Charity Commission, designed to stem the flow of controversial stories surrounding fundraising. They want charity trustees to realise that they are responsible for what fundraising companies do on their behalf - and the buck stops with them when a scandal happens.

And with Bike Week around the corner, we'll hear from Steve Harman and Nick Dawes, two cyclists who have challenged themselves to bike to every UK location mentioned in the lyrics of Birkenhead's finest - Half Man Half Biscuit.

WED 12:57 Weather (b07djv86)

The latest weather forecast.

WED 13:00 World at One (b07dm2kb)

Analysis of news and current affairs.

WED 13:45 The Boy Who Gave His Heart Away (b07f4ls8)
Episode 3

August 2003 - life hangs in the balance for two teenage boys. A virus has attacked the heart of a Scottish boy called Mark McCay and he is slowly dying in a hospital bed in Newcastle. His only hope is a new heart. Down in Nottingham, 16 year-old Martin Burton is in intensive care with damage to the brain. His mother Sue had just been told there was no chance of recovery. His father Nigel has rushed home from the United States to be by his side. Writer and journalist Cole Moreton tells the story of what happens when the death of a child miraculously allows others to live.

A TBI Media production for BBC Radio 4.

WED 14:00 The Archers (b07dlxrb)

[Repeat of broadcast at 19:00 on Tuesday]

WED 14:15 Stephanie Jacob - A Night Visitor (b045877x)

Forced by debt to downsize to an isolated Norfolk cottage, Hilary and Tom have a terrifying visitor one stormy night.

But it might be just the thing their ailing marriage needs...

Written by Stephanie Jacob.

Hilary Stella Gonet
Tom David Cann
Martin Carl Prekopp

Director: David Hunter

First broadcast on BBC Radio 4 in 2014.

WED 15:00 Money Box (b07dm2pg)

Money Box Live: Why don't house prices fall if they are unaffordable for many people?

Adam Shaw and guests discuss: Why don't house prices fall if they are unaffordable for many people? Prices are now over six times an average salary, making it difficult for young buyers to save a high enough deposit to get onto the housing ladder. Yet the picture is mixed. In some areas of Scotland and the North East of England house prices have actually fallen over the past year. Yet affordability is still an issue throughout the UK, experts say. What keeps the price of buying a property so high? Is it a lack of supply with not enough houses being built in the UK, the increase of amateur landlords, more foreign investors, or ironically cheap mortgages? Contact the programmes with your experiences and questions.

Email moneybox@bbc.co.uk or tweet @moneybox. Or ring: 03 700 100 444. Lines open from 13:00 on Wednesday.

WED 15:30 All in the Mind (b07dlxxw)

[Repeat of broadcast at 21:00 on Tuesday]

WED 16:00 Thinking Allowed (b07dm2pj)

Engineers of Jihad. Orange jumpsuits

Laurie Taylor asks why so many Islamist extremists come from an engineering background. He talks to Steffen Hertog, Associate Professor of Comparative Politics at the London School of Economics, about a new study which finds that Islamist and right-wing extremism have more in common than either does with left-wing extremism, in which engineers are absent while social scientists and humanities students are prominent. Is there a mindset susceptible to certain types of extremism? They're joined by Raffaello Pantucci, Director of International Security Studies at the Royal United Services Institute.

Orange prison jumpsuits: Elspeth Van Veen, Lecturer in Political Science at the University of Bristol, discusses the US prisoner uniform which took on a transnational political life due to the Global War on Terror. Revised repeat.

Producer: Jayne Egerton

WED 16:30 The Media Show (b07djv88)

Dame Joan Bakewell, EU debates, 24 - the 'north's national', City AM editor

The Archbishop of Canterbury is calling on the BBC to give religion the same prominence as politics, sport or drama. In a speech at the Sandford St Martin awards for religious broadcasting, The Most Rev Justin Welby will suggest that the Corporation's charter include protection for religious programming. Also at the ceremony, Dame Joan Bakewell will receive a special award in recognition of a 'commitment to religious and ethical broadcasting'. She joins Steve Hewlett in the studio.

Nigel Farage and David Cameron faced "tough" questions on the EU referendum from a live studio audience last night for the referendum special on ITV. It's the latest in a series of debates across networks which started last week with Sky News' interviews with David Cameron and Michael Gove. Steve Hewlett speaks to Sky's Head of Politics Esme Wren about how negotiations went and how much planning went into the interviews.

A new daily newspaper described as the "North's national" is being launched. Called 24, the title will be published by Cumbria-based CN Group and will provide a "distinctly northern perspective" on big news stories. Steve Hewlett speaks

to Editorial Director David Helliwell about his ambitions for the paper, and how they plan to make it work in a market suffering big declines.

The free London newspaper City AM is going to allow commercial brands to directly upload content to the City AM website without any pre-moderation by its editorial team. Joining Steve to discuss why City AM have embarked on this new model, and how they hope to benefit from this venture, is Christian May, editor of City AM.

Producer: Katy Takatsuki.

WED 17:00 PM (b07djv8b)

Carolyn Quinn with interviews, context and analysis.

WED 18:00 Six O'Clock News (b07djv8d)

08/06/16 Boardroom divisions at BHS exposed

MPs are investigating the collapse of the high street chain

WED 18:28 EU Referendum Campaign Broadcasts (b07dm2pl)

Stronger IN Europe

08/06/2016

Referendum Campaign Broadcast by the Stronger IN Europe campaign for the Referendum on the United Kingdom's membership of the European Union on 23rd June 2016.

WED 18:30 Heresy (b07dm2pn)

Series 10

Episode 4

Victoria Coren Mitchell presents the show which dares to commit heresy.

With newspaper columnist Julia Hartley-Brewer, TV presenter Richard Osman and food critic, TV presenter and novelist Giles Coren.

Together they discuss David Bowie, iceberg houses and The Great British Bake Off.

An Avalon production for BBC Radio 4, first broadcast in June 2016.

WED 19:00 The Archers (b07dm2pq)

Rex visits Pip just as she's finished the morning milking. She tells him about an on-farm demo she's going to next week and Rex asks if he can come along. Pip's not sure how interesting he will find it but he insists he'd like to come.

Lynda chats to Susan in the shop. She wants to fundraise when she opens her garden at the weekend. The money was going to go to the SAVE campaign but now she's looking for a new local cause. Pip comes in for a loaf of bread and Lynda shows her the article on the village website promoting the open gardens weekend. It includes a link to a website that's devoted to Bert's garden. Pip reveals that Toby had help from the web designer he uses.

Pat share photos of baby Jack with Susan and tells her that Rob is applying for custody of him. Pat goes on to say she has hired Anya, who used to work for them, to work in the Bridge Farm Shop but she's not back from travelling until the end of the month. Pat asks Susan if she would take on some shifts at the shop.

Rex and Josh tell Toby that the Morgan and Minster deal he secured is unrealistic for the amount of hens they currently have. Later, Josh finds Toby to tell him he has an idea for how they can fulfil the Morgan and Minster order.
Repeated on 09:06:2016 14:02:00
Thursday 09:06:2016

Billed TimeOn-air TimeProg. TitleTX TitleEp. Title

Amend14:02:0014:02:00The ArchersThe Archers

Short Desc

Lynda eyes up the competition.

Medium Desc

Lynda eyes up the competition, and Pat has a question for Susan.

Long Desc

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WED 19:15 Front Row (b07djb8g)

Guy Garvey, Bailey's Prize winner, The Go-Between

Guy Garvey talks to John Wilson about the Meltdown festival he's curating at London's Southbank Centre, featuring Femi Kuti, Laura Marling and a Refugee special.

John is joined by Lisa McInerney, the winner of this year's Bailey's Prize for Women's Fiction, live from the ceremony.

Michael Crawford returns to the West End stage in The Go-Between, a new musical based on LP Hartley's classic novel. Matt Wolf reviews.

And Mexican curator Pablo León de la Barra discusses the exciting new art coming out of Latin America.

Presenter: John Wilson
Producer: Timothy Prosser.

WED 19:45 15 Minute Drama (b07dly5n)

[Repeat of broadcast at 10:41 today]

WED 20:00 Moral Maze (b07dm2ps)

The Morality of Business

The sales signs are going up in 163 BHS shops around the country as the liquidators try to salvage something from the wreckage of this once proud company. When Sir Philip Green bought BHS in 2000, it was making a profit. By the time he sold it in 2015, for £1, to a three-times bankrupt with no retailing experience, it was making a loss and the company pension fund was more than £400m in deficit. Exactly what went wrong at BHS is the subject of no fewer than four separate inquiries.

What is certain is that it's you and I, the tax payers, who will pick up the bill for the redundancy payments for the 11,000 staff and responsibility for the 20,000 members of the BHS company pension scheme. The head of the Institute of Directors described the affair as deeply damaging to the British business world. It's all a far cry from the days of Quaker philanthropy that inspired so many Victorian entrepreneurs. The study of business ethics is one of the few growth areas of the economy. You might be forgiven for wondering how effective such courses are when we see so many headlines about companies avoiding tax, walking away from pension liabilities, using legal loopholes to make excessive profits, zero hours contracts, falsifying data, mis-selling... The list goes on. Do companies have any moral duty beyond the bottom line? Is the only duty of a company to make money for its shareholders within the law? Where and how do we draw the line between legal duty to shareholders and moral duty to society? The individuals that run companies have moral agency, but is there such a thing as a collective, corporate moral agency? Can we impose a set of moral values, or a social licence, on a company? Or will that create a climate of "What can we get away with?" rather than "What is right?"

Chaired by Michael Buerk with Giles Fraser, Claire Fox, Mathew Taylor and Melanie Phillips. Witnesses are Dr Steve Davies, Dawn Foster, Prof Chris Cowton and John Morrison.

WED 20:45 Four Thought (b07dm2px)

Questions of Identity

Marina Lewycka explores how identity is formed.

Marine discusses how - from the Second World War to the conflict in the Ukraine - others have interpreted her identity through the prism of world events and their own prejudices, and asks why our identities are so often defined by others.

Producer: Giles Edwards.

WED 21:00 Science Stories (b07dm8tb)

Maxwell's Demon

Philip Ball explains the thought experiment, motivated by

religion, that niggled physicists for a hundred years. To rescue free will from the clutches of deterministic science, James Clerk Maxwell picked a hole in the second law of thermodynamics, aided by a demon. Maxwell's Demon would give us a whole new insight into the very nature of information, and what we do with it, and maybe even what the universe is made of.

Matthew Stanley, author of Huxley's Church and Maxwell's Demon, describes how Maxwell's deeply religious personality flavoured much of his thinking.

In the present day, Vlatko Vedral of Oxford University explains how the experiment Maxwell never thought physically possible is now being done in labs, and shows us how to turn information into energy.

WED 21:30 Midweek (b07dly5l)

[Repeat of broadcast at 09:00 today]

WED 21:58 Weather (b07djb8j)

The latest weather forecast.

WED 22:00 The World Tonight (b07djb8l)

The global challenges facing the next US President

The US Presidential race now looks increasingly like a battle between Donald Trump and Hillary Clinton.

But what would President Trump or President Clinton do about the big foreign policy issues facing the United States?

Multi-dimensional war in Syria; Putin flexing his muscles in Russia; Beijing's territorial claims in the South China Sea.

These headaches and more await the next occupant of the White House.

Ritula Shah chairs a discussion with a panel of experts at the Carnegie Endowment for International Peace in Washington.

WED 22:45 Dangerous Visions (b07dm8td)

Never Let Me Go

Episode 8

For Radio 4's Dangerous Visions season of dystopian storytelling our Book at Bedtime is Booker Prize-winning author Kazuo Ishiguro's haunting novel of friendship, love and loss.

Kathy, Tommy and Ruth have only ever known the sheltered world of Hailsham, a secluded country boarding school. As they grow up, they begin to understand the true purpose of their isolated upbringing and the fate that lies in store for them.

Ishiguro's alternative vision of late 1990s England is a disquieting meditation on what makes us human, whether we can escape the fate set out for us and how we each find meaning in our lives.

Book at Bedtime is an abridged version of the novel.

Written by Kazuo Ishiguro
Read by Rachel Shelley
Abridged by Lauris Morgan-Griffiths
Produced by Mair Bosworth.

WED 23:00 Lenny Henry's Rogues Gallery (b07dm8tg)

Series 1

Moone Sisters

Set during the Second World War, Lenny plays an American GI serving in Cornwall whose relationship with a local woman - who runs a cafe deep in the woods - will change his life forever.

Series of comic monologues with twists-in-the-tale, written by Lenny Henry.

Producer: Sam Michell.

First broadcast on BBC Radio 4 in June 2016.

WED 23:15 Bunk Bed (b07dm8tj)

Series 3

Episode 1

Patrick Marber and Peter Curran lie in the darkness, sharing a bunk bed and wondering about ... elephants.

Everyone craves a place where their mind and body are not

applied to a particular task. The nearest faraway place. Somewhere for drifting and lighting upon strange thoughts which don't have to be shooed into context, but which can be followed like balloons escaping onto the air.

Late at night, in the dark and in a bunk bed, your tired mind can wander.

This is the nearest faraway place for Patrick Marber and Peter Curran. Here they try to get to the heart of things in an entertainingly vague and indirect way.

This is not the place for typical male banter. From under the bed clothes they play each other music, and archive.

Work, family, literature, and their own badly-suffled dreams are the funny and warped conversational currency.

A Foghorn Company production for BBC Radio 4 first broadcast in June 2016.

WED 23:30 Today in Parliament (b07f506f)

Sean Curran reports from Westminster as ministers move to extend voter registration ahead of the EU referendum after an online glitch and the former owner of BHS, Dominic Chappell, faces accusations of being "a liar". Labour says Government plans for the renewal of the BBC Charter are unacceptable and MPs take evidence on the impact the microplastics found in cosmetics have on the oceans and marine life.

THURSDAY 09 JUNE 2016

THU 00:00 Midnight News (b07djbv3)

The latest national and international news from BBC Radio 4. Followed by Weather.

THU 00:30 Book of the Week (b07f4q8c)

[Repeat of broadcast at 09:45 on Wednesday]

THU 00:48 Shipping Forecast (b07djbv5)

The latest shipping forecast.

THU 01:00 Selection of BBC World Service Programmes (b07djbv7)

BBC Radio 4 joins the BBC World Service.

THU 05:20 Shipping Forecast (b07djbv9)

The latest shipping forecast.

THU 05:30 News Briefing (b07djbvc)

The latest news from BBC Radio 4.

THU 05:43 Prayer for the Day (b07f517w)

A spiritual comment and prayer to begin the day with Rania Hafez, a senior lecturer in education at the University of Greenwich.

THU 05:45 Farming Today (b07dnkbc)

Flood response criticised, EU views in Northern Ireland, CAP reform and grass testing

The Government is being accused of failing to protect communities at risk of flooding. A cross-party committee of MPs looking into the winter floods in places like Cumbria, Yorkshire and Lancashire has singled out a lack of long-term planning. With two weeks to go until the EU referendum, farmers and fishermen in Northern Ireland share their views on whether the UK should remain or leave. Should Europe's Common Agriculture Policy be redrawn to focus less on farming and more on food? A new report calls for a re-think of the CAP. A pioneering grass experiment is still turning up discoveries after 160 years. Park grass testing at Rothamsted in Hertfordshire is the oldest research of its type in the world. Presented by Charlotte Smith and produced by Vernon Harwood.

THU 05:58 Tweet of the Day (b020tpmn)

Quail

Tweet of the Day is a series of fascinating stories about our British birds inspired by their calls and songs.

Miranda Krestovnikoff presents the Quail. Quails are summer visitors in varying numbers to the UK, mainly from southern Europe and Africa - and sudden arrivals of migrating flocks in the Mediterranean countries were once more common than they are nowadays.

THU 06:00 Today (b07dnkq)

News and current affairs. Including Sports Desk, Yesterday in Parliament, Weather, Thought for the Day.

THU 09:00 In Our Time (b07dnkm)

Penicillin

Melvyn Bragg and guests discuss penicillin, discovered by Alexander Fleming in 1928. It is said he noticed some blue-green penicillium mould on an uncovered petri dish at his hospital laboratory, and that this mould had inhibited bacterial growth around it. After further work, Fleming filtered a broth of the mould and called that penicillin, hoping it would be useful as a disinfectant. Howard Florey and Ernst Chain later shared a Nobel Prize in Medicine with Fleming, for their role in developing a way of mass-producing the life-saving drug. Evolutionary theory predicted the risk of resistance from the start and, almost from the beginning of this 'golden age' of antibacterials, scientists have been looking for ways to extend the lifespan of antibiotics.

With

Laura Pidcock
Professor of Microbiology at the University of Birmingham

Christoph Tang
Professor of Cellular Pathology and Professorial Fellow at Exeter College at the University of Oxford

And

Steve Jones
Emeritus Professor of Genetics at University College, London

Producer: Simon Tillotson.

THU 09:45 Book of the Week (b07f4q8f)

Only in Naples

Episode 4

Fresh out of college in 1996, Katherine arrives in Naples from America to intern at the United States Consulate. "There is a chaotic, vibrant energy about Naples that forces you to let go and give in," writes Katherine, who meets handsome, studious Salvatore and finds herself immediately enveloped by his elegant mother, Raffaella, and the rest of the Avallone family. From that moment, Katherine's education begins: Never eat the crust of a pizza first, always stand up and fight for yourself and your loved ones, and consider mealtimes sacred-food must be prepared fresh and consumed in compagnia.

Immersed in Neapolitan culture, traditions, and cuisine, slowly and unexpectedly falling for Salvatore, and longing for Raffaella's company and guidance, Katherine discovers how to prepare meals that sing, from hearty, thick ragù to comforting rigatoni alla Genovese, to name but two.

Through courtship, culture clashes, Sunday services, marriage, and motherhood (in Naples, a pregnancy craving must always be satisfied!), Katherine comes to appreciate carnale, the quintessentially Neapolitan sense of comfort and confidence in one's own skin. Raffaella and her famiglia are also experts at sdrammatizzare, knowing how to suck the tragedy from something and spit it out with a great big smile. Part travel tale, part love letter, Only in Naples is a sumptuous story that is a feast for the senses.

THU 10:00 Woman's Hour (b07djvbf)

The future of feminism; Patricia Clarkson; Marina Benjamin

This week the Fawcett Society celebrates its 150th anniversary. It also marks the point when Millicent Fawcett and other campaigners handed in the first petition for women's suffrage to Parliament. On Tuesday we looked at the impact of a century and a half of feminism on women's lives. Today we look at where women continue to need to make inroads and what battles there are left to win? Sam Smethers, chief executive of the Fawcett Society, Helen Lewis, deputy editor of the News Statesman and writer and teacher, Lola Okolosie, join Jenni.

In a society obsessed with living longer and looking younger, what does middle age nowadays mean? Jenni talks to Marina Benjamin about The Middlepause - On Turning 50. How should a fifty-something be in a world constantly redefining ageing, youth, and experience?

American actor Patricia Clarkson stars in Learning to Drive, a film about a woman who finally takes lessons following the break-up of her marriage. Patricia talks to Jenni about becoming a Hollywood sex symbol in her 50s.

And what's it like returning home - perhaps indefinitely - after graduating from university? What about the shattered peace of a previously empty nest? Jenni is joined by twenty something graduate and journalist Lucy Tobin, who went back to her mum and dad's after university, and by mother Celia Dodd, whose

children returned after studying. She's also the author of The Empty Nest: How To Survive And Stay Close To Your Adult Child.

Presenter: Jenni Murray
Producer: Laura Northedge.

THU 10:45 15 Minute Drama (b07dnkt)

A Small Town Murder

Episode 4

Meera Syal returns as family liaison officer Jackie Hartwell in the eighth series by Scott Cherry.

While still grieving over the disappearance of one of her closest work colleagues, Jackie is sent to talk to Rachel Dickson, whose son has just been seriously injured in a hit and run incident. Jackie knows Rachel of old - she is married to one of Birmingham's notorious villains.

Written by Scott Cherry
Produced and Directed by Clive Brill

A Brill production for BBC Radio 4.

THU 11:00 From Our Own Correspondent (b07gxhr)

The Cupboard is Bare

PHOTO: People line up to buy basic food and household items outside a supermarket in the poor neighborhood of Lidice, in Caracas, Venezuela on May 27, 2016. (RONALDO SCHEMIDT/AFP/Getty Images)

THU 11:30 A Portrait Of... (b04vkkpd)

Andrew Motion

We go into the artist's studio to follow portrait painter Fiona Graham-Mackay as she paints the former poet laureate Andrew Motion.

A personal, immersive journey exploring art unfolding, this is an insight into the private encounter of two acclaimed artists, and we listen in to what this process is like for both the painter and the painted.

It's a unique relationship, a little like being in the therapist's chair - the painter stripping away the layers to reveal the true likeness of her subject, the sitter under the microscope, exposed and studied. Fiona Graham-Mackay shares the secrets of the portrait painter as she captures the sitter on canvas; the sitter reflects on what being painted reveals and contemplates the prospect of being immortalised in oil.

Fiona Graham-Mackay has painted hundreds of portraits, including Prince Michael of Kent, Seamus Heaney and Lord Carrington. In all her sittings she has always been fascinated by her conversations with her subjects and continues to be amazed by how people open up in ways that surprise even themselves as she paints them. What is revealed goes beyond anything you might expect in an ordinary interview.

Produced by Eve Streeter
A Pier production for BBC Radio 4.

THU 12:00 News Summary (b07djvbb)

The latest national and international news from BBC Radio 4.

THU 12:04 The Unseen - A History of the Invisible (b07dnpcb)

The Invisibly Small

Science writer and broadcaster Philip Ball sets out on a quest to explore the peculiar world of the invisible.

In this episode, Philip examines the philosophical impact of the invention of the microscope and the discovery of the world of the invisibly small. The revelation of the existence of an invisible micro-world profoundly altered man's picture of himself in the cosmos and his relationship with the divine.

At the Royal Society in London, Philip leafs through an original copy of Robert Hooke's pioneering work of microscopy, Micrographia. The book contains detailed drawings of tiny insects, their complex physical forms revealed for the first time by the microscope. Hooke's research also showed that the edges of razor blades and other man made items were in fact riddled with imperfections when scrutinised at a microscopic level. This discovery was taken as evidence of the imperfection of mankind compared to God the creator.

The early microscopists were expecting to unveil the hidden mechanisms of the world when peering through their lenses. Instead they found a microscopic realm that was teeming with

previously invisible life forms. Philip learns that this discovery had a profound philosophical impact at the time. The image of mankind at the centre of a universe that God created for us was shaken to its core by the revelation of a whole world of microscopic existence that had previously been unknown.

Presenter: Philip Ball
Producer: Max O'Brien
A Juniper production for BBC Radio 4

THU 12:15 You and Yours (b07djvbk)

Chargeback fraud, Food magazines

This year's electric car race in July will be the last in Battersea Park in London after a legal challenge from James Jackson. He said it amounted to a green race trashing a green place. The case has been settled out of court preserving the Grade 2 listed Victorian park.

Chargeback fraud, also known as friendly fraud, occurs when a consumer makes an online shopping purchase with their own credit card, and then requests a chargeback from the issuing bank after receiving the purchased goods or services. It's there to protect us when we want to return shoddy goods or goods which don't arrive. But it's also a firm favourite of the fraudsters.

It's estimated that more than 800 thousand people in the UK are living with some form of dementia, and that figure is expected to pass a million within the next decade. While its symptoms, including memory loss and disorientation, are well known, how many of us understand what it's actually like to live with the condition? We sent our reporter Andrew Fletcher on a virtual dementia tour that's offering those who work with and care for people with dementia a "window into their world."

Most supermarkets produce their own magazines, many of them free. How has it affected food publishing, and how attractive are they to advertisers? Do the magazines affect in store spend in any way? i.e. can any retailer show that sales of a certain product increased after featuring it in a recipe or feature in one of their magazines?

Producer: Maire Devine
Editor: Chas Watkin.

THU 12:57 Weather (b07djvbm)

The latest weather forecast.

THU 13:00 World at One (b07dnpcd)

Alan Johnson, who leads the Labour Party's remain campaign takes listeners' questions. John Major and Tony Blair claim that a vote to leave the EU would risk the breakup of the United Kingdom. Nigel Dodds of the DUP tells us their claims are irresponsible scaremongering. Details of collusion from the security forces in Northern Ireland 22 years ago. Exclusive news of a fresh legal bid to enforce rules that ban parents in England taking children on term time holidays. Why the CPS has decided that it will not bring charges against any M16 officials for their alleged role in the rendition of a married couple to Libya.

THU 13:45 The Boy Who Gave His Heart Away (b07f4q8h)

Episode 4

A virus has attacked the heart of a 15 year-old Scottish boy called Mark McCay who is in hospital in Newcastle. 16 year-old Martin Burton suffered irreversible brain damage, and his parents agreed for his organs to be donated. His heart has gone to 15 year-old Marc McCay, in hospital in Newcastle, who remains unconscious. Writer and journalist Cole Moreton tells the story of what happens when the death of a child miraculously allows others to live.

A TBI Media production for BBC Radio 4.

THU 14:00 The Archers (b07dm2pq)

[Repeat of broadcast at 19:00 on Wednesday]

THU 14:15 Tommies (b07dnqjj)

9 June 1916

Lee Ross, Indira Varma, Sagar Radia and Ewan Bailey star in this story by Michael Chaplin.

In the build up to the Somme Mickey Bliss's plan to test Capitaine Vasserot's new communication device in No Man's Land doesn't go according to plan.

Meticulously based on war diaries and eye-witness accounts, each episode of TOMMIES traces one real day at war exactly 100 years ago.

This series of TOMMIES follows the fortunes of Mickey Bliss and his fellow signallers from the Lahore Division of the British Indian Army. They are cogs in an immense machine, one which connects situations across the whole theatre of war, over 4 long years.

Series created by Jonathan Ruffle
Producers: David Hunter, Jonquil Panting, Jonathan Ruffle
Director: David Hunter.

THU 15:00 Rambblings (b07dnqjl)

Series 33

Severn Way with Lucy Newcombe

Clare Balding continues this series of epic walks by meeting up with a retired RAF officer, Lucy Newcombe, who started walking round the coast of Britain last summer. By the time her journey ends she expects to have covered over six thousand miles. Lucy and Clare discuss the kindness of strangers, their love of the British countryside, home-made cake and the best way to deal with dogs. They walk for six miles along the Severn Way and are joined by Lucy's sister in law, Laura, who, as she lives locally, has been operating as landlady, laundress and taxi driver for the past two weeks. She tells Clare about the changes this journey has made to Lucy, once a loner, now discovering that she likes the company of her fellow man. Lucy however insists she's not walking alone to discover herself, find her inner voice or to make plans for a new career. Lucy walks for the joy of it and the chance to see more of the country she loves.
Producer: Lucy Lunt.

THU 15:27 Radio 4 Appeal (b07djym8)

[Repeat of broadcast at 07:54 on Sunday]

THU 15:30 Bookclub (b07dk0y1)

[Repeat of broadcast at 16:00 on Sunday]

THU 16:00 The Film Programme (b07dnqjp)

Embrace Of The Serpent; I Am Belfast

With Francine Stock.

Film-maker Mark Cousins and composer David Holmes discuss their documentary I Am Belfast and reveal why they rarely went to the cinema at the height of The Troubles.

How virtual reality puts us in the shoes of someone with epilepsy, a migrant living in the so-called Calais Jungle, and an Irishman caught up in the Easter Rising in 1916. These are three of the films nominated for the first VR awards at this week's Sheffield Documentary Festival.

The Amazon makes up almost half of Columbia and yet very much is known about the jungle in the rest of the country. Film-maker Ciro Guerra has tried to put that right with his drama Embrace Of The Serpent, and he tells Francine how he taught indigenous people to act and why his leading man is one of the last people in the world to speak his particular language.

THU 16:30 BBC Inside Science (b07djybp)

Fighting Antimicrobial Resistance

This week we're dedicating the whole programme to one of the biggest threats to humanity. We're already at 700,000 preventable deaths per year as a result of antibiotic resistance, and the O'Neill Report suggests that this will rise to 10 million people per year by 2050. Today, we're focussing on the attempts to discover new antibiotics, and alternative therapies for combating bacterial infection. Firstly, we wanted to know why new antibiotics aren't being produced. Dr Jack Scannell, an expert on the drug development economics, told Adam Rutherford why money has been the main barrier.

Most of the antibiotics we use were discovered in the mid-20th century, but as the threat of drug resistant infections increases, the race is on to find new organisms that make novel medicines. We have only identified a tiny fraction of the microbes living on Earth and are "bioprospecting" for useful ones in wildly different locations. Microbiologist Matt Hutchings has been looking to the oldest farmers in the world - leaf cutter ants.

From exotic locations to under your fridge: Dr Adam Roberts runs a scheme called Swab and Send. It's a citizen science project that asks members of the public to swab a surface and send the sample to him - he'll analyse them to look for the presence of new antibiotic-producing bacteria. We joined in the hunt by swabbing spots around the BBC: Adam's microphone, the Today programme presenters' mics, our tea kitchen's sponge, the revolving entryway doormat, and lastly, the Dalek standing on guard outside the BBC Radio Theatre.

Antibiotics are not the only weapon in the war against bacteria. A hundred years ago, a class of virus that infect and destroy

bacteria were discovered. They're called bacteriophages. Phage therapies were used throughout the era of Soviet Russia, and still are in some countries, including Georgia. Phage researcher Prof Martha Clokic told us whether phage therapy might be coming to the UK.

THU 17:00 PM (b07djvbr)

Carolyn Quinn with interviews, context and analysis.

THU 18:00 Six O'Clock News (b07djvbt)

Two former Prime Ministers have joined forces to warn voters that leaving the EU would be an historic mistake that could tear apart the United Kingdom.

Speaking to students in Londonderry, Sir John Major and Tony Blair also suggested that Brexit could put peace there at risk.

The First Minister of Northern Ireland has dismissed the comments as "scandalous".

THU 18:28 EU Referendum Campaign Broadcasts (b07byv6f)

Vote Leave

23/05/2016

Referendum Campaign Broadcast by the Vote Leave campaign for the Referendum on the United Kingdom's membership of the European Union on 23rd June 2016.

THU 18:30 Paul Sinha's History Revision (b07dntk7)

Series 2

Sex and Sexuality

Paul Sinha looks at the role lust has played in driving history.

Stories range from the loving marriage that prevented Dr Zhivago winning an Oscar, to the most depraved Roman Emperor of them all (it's not who you think), to the British monarch whose gay affairs changed the world. Phwoar, eh?

Paul's second series of his History Revision, the show that uncovers the fascinating stories that we've forgotten in our onward march of progress.

"Sinha's gift for finding humour in it all makes him worth a listen" - The Telegraph

Written and performed by Paul Sinha
Produced by Ed Morrish

A BBC Radio Comedy Production.

THU 19:00 The Archers (b07dntk9)

Joe and Eddie visit Ed who is cutting hay and they reminisce about haymaking of the past. Clarrie joins them with a picnic and they discuss the road decision and its impact on people in Edgeley and Loxley Norton. When Joe asks about Alf, Eddie says he has blown his chance to be part of the family. Clarrie recounts how at church Alan explained that the Lent Appeal money had been replaced by fundraising from the Jumble Trail, the Brownies and a mystery benefactor. Eddie says it's the first time he has been called a mystery benefactor.

Toby brings the goslings to Hollowtree, two-hundred just like Rex requested. Rex has made a rota for the geese and hens work over the next month. Lillian contacts Toby about his film which prominently features the Damara logo on egg boxes. Lillian tells Toby the film is amateur and if he wants to preserve his business relationship with Justin it needs to be greatly improved. And in the meantime, Justin is not interested in Toby making a film for Damara.

Back in the hayfield, Ed says he has asked Tom if he wants to join him and Jazzer sheep shearing in Wales. He says Tom is tempted but not sure if he can spare the time. The conversation turns to Caroline and Oliver's return. Clarrie's not sure what they're going to make of the state of Grange Farm.

THU 19:15 Front Row (b07djvbw)

Frances Morris, director of Tate Modern, Anish Kapoor on designing at the ENO, Embrace of the Serpent review

Frances Morris became the first female Director of Tate Modern only a few months ago, but has been instrumental in developing its collections for many years. Next week she will open a new 260 million pound extension to the iconic former power station on London's Southbank; boasting four new galleries. The new space is a great opportunity to display more international works and more female artists alongside old favourites and, she says, will make us view contemporary art in a whole new way.

Sculptor Anish Kapoor on his epic set design for English National Opera's new production of Wagner's Tristan and Isolde.

Embrace of the Serpent, directed by Colombian film maker Ciro Guerra, is inspired by the true stories of two European explorers who travelled through the Amazon in parallel journeys, decades apart, hunting for a mythical plant. Hannah McGill reviews.

THU 19:45 15 Minute Drama (b07dnnkt)

[Repeat of broadcast at 10:45 today]

THU 20:00 Law in Action (b07dlxmj)

[Repeat of broadcast at 16:00 on Tuesday]

THU 20:30 The Bottom Line (b07dntkc)

Old Dog, New Tricks

It is not easy to teach new tricks to the business world's old dogs. The latest fashionable solution for big corporations slowed down by bureaucracy and traditional ways of thinking is to incubate tech start-ups. The idea is that the big corporation benefits from the creativity and "can do" attitude of the start-up. In return the start-up gets funding, professional advice and help navigating the corporate world to reach the top decision makers. The model is known as "corporate acceleration" and it is growing in popularity. Evan Davis hears how it works.

GUESTS:

Jess Williamson, Director, Techstars with Barclays FinTech Accelerator

David Fogel, Head of Accelerator & Deputy Director at Wayra UK

Emily Forbes, Founder, Seenit

Producer: Julie Ball.

THU 21:00 BBC Inside Science (b07djybp)

[Repeat of broadcast at 16:30 today]

THU 21:30 In Our Time (b07dnnkm)

[Repeat of broadcast at 09:00 today]

THU 21:58 Weather (b07djybv)

The latest weather forecast.

THU 22:00 The World Tonight (b07djvc0)

EU campaigners go head to head

Boris Johnson and Nicola Sturgeon have clashed in the most high profile TV debate on the EU referendum so far. We hear the highlights and debate who won. Also why is the CPS not prosecuting British agents complicit in the rendition of Libyan families? We speak to their lawyer.

THU 22:45 Dangerous Visions (b07dntkf)

Never Let Me Go

Episode 9

For Radio 4's Dangerous Visions season of dystopian storytelling our Book at Bedtime is Booker Prize-winning author Kazuo Ishiguro's haunting novel of friendship, love and loss.

Kathy, Tommy and Ruth have only ever known the sheltered world of Hailsham, a secluded country boarding school. As they grow up, they begin to understand the true purpose of their isolated upbringing and the fate that lies in store for them.

Ishiguro's alternative vision of late 1990s England is a disquieting meditation on what makes us human, whether we can escape the fate set out for us and how we each find meaning in our lives.

Book at Bedtime is an abridged version of the novel.

Written by Kazuo Ishiguro
Read by Rachel Shelley
Abridged by Lauris Morgan-Griffiths
Produced by Mair Bosworth.

THU 23:00 The World of Simon Rich (b07dnvdm)

Series 1

Episode 2

Simon Rich has been Saturday Night Live's youngest writer, a staff writer for Pixar and a regular contributor to The New Yorker - as well as one of the funniest short story writers of his generation.

Now the American brings his enchanting, absurd world to radio with his first British comedy show.

The series takes us across time and space, from the design of the universe and prehistoric love triangles to the terrors of life as an unused condom inside a teenager's wallet.

Performing the stories alongside Simon is a cast of UK comic talent:

Peter Serafinowicz
Tim Key
Cariad Lloyd
Jamie Demetriou
Joseph Morpurgo
Claire Price.

Producer: Jon Harvey
Executive Producer: Richard Wilson

A Hat Trick production for BBC Radio 4 first broadcast in June 2016.

THU 23:30 Today in Parliament (b07dnvdp)

Susan Hulme reports from Westminster on emergency laws to extend the deadline for voter registration in the EU referendum. Also on the programme: moving personal stories from MPs about the trauma of stillbirth and the strains of being a carer. And MPs ask the Government what's being done to ensure aid gets to people in Syria.

FRIDAY 10 JUNE 2016

FRI 00:00 Midnight News (b07djvdf)

The latest national and international news from BBC Radio 4. Followed by Weather.

FRI 00:30 Book of the Week (b07f4q8f)

[Repeat of broadcast at 09:45 on Thursday]

FRI 00:48 Shipping Forecast (b07djvdh)

The latest shipping forecast.

FRI 01:00 Selection of BBC World Service Programmes (b07djvdk)

BBC Radio 4 joins the BBC World Service.

FRI 05:20 Shipping Forecast (b07djvdm)

The latest shipping forecast.

FRI 05:30 News Briefing (b07djvdp)

The latest news from BBC Radio 4.

FRI 05:43 Prayer for the Day (b07f4yrp)

A spiritual comment and prayer to begin the day with Rania Hafez, a senior lecturer in education at the University of Greenwich.

FRI 05:45 Farming Today (b07dnxj)

PM on Brexit 'threats' for farmers, CAP criticism, Rural payments, Cotswold pasture

David Cameron claims that a Brexit from the EU would be a 'juddering shock' to British farming. His own Agriculture Minister disagrees. The debate over the future of the Common Agricultural Policy continues with claims that the UK would be better off without the CAP. The deadline for farmers to receive their 2015 subsidy payments is moved from the end of this month to mid-October and could sowing pasture with wildflowers and local grasses improve the beef and lamb raised on it?

Presented by Charlotte Smith and produced by Vernon Harwood.

FRI 05:58 Tweet of the Day (b03x457w)

Grey Partridge

Tweet of the Day is a series of fascinating stories about our British birds inspired by their calls and songs.

Bill Oddie presents the Grey partridge. The grey partridge, a plump game bird, is now a rarity across most of the UK. Found

on farmland, a partridge pair will often hold territory in a few fields beyond which they seldom stray during their whole lives. They should be doing well but increasing field sizes, which reduce nesting cover and the use of pesticides, which kill off vital insects, have taken their toll.

FRI 06:00 Today (b07dnxzl)

Morning news and current affairs. Includes Sports Desk, Yesterday in Parliament, Weather and Thought for the Day.

FRI 09:00 Desert Island Discs (b07djzyq)

[Repeat of broadcast at 11:15 on Sunday]

FRI 09:45 Book of the Week (b07f4yrr)

Only in Naples

Episode 5

Fresh out of college in 1996, Katherine arrives in Naples from America to intern at the United States Consulate. "There is a chaotic, vibrant energy about Naples that forces you to let go and give in," writes Katherine, who meets handsome, studious Salvatore and finds herself immediately enveloped by his elegant mother, Raffaella, and the rest of the Avallone family. From that moment, Katherine's education begins: Never eat the crust of a pizza first, always stand up and fight for yourself and your loved ones, and consider mealtimes sacred-food must be prepared fresh and consumed in compagnia.

Immersed in Neapolitan culture, traditions, and cuisine, slowly and unexpectedly falling for Salvatore, and longing for Raffaella's company and guidance, Katherine discovers how to prepare meals that sing, from hearty, thick ragù to comforting rigatoni alla Genovese, to name but two.

Through courtship, culture clashes, Sunday services, marriage, and motherhood (in Naples, a pregnancy craving must always be satisfied!), Katherine comes to appreciate carnale, the quintessentially Neapolitan sense of comfort and confidence in one's own skin. Raffaella and her famiglia are also experts at sdrammatizzare, knowing how to suck the tragedy from something and spit it out with a great big smile. Part travel tale, part love letter, Only in Naples is a sumptuous story that is a feast for the senses.

FRI 10:00 Woman's Hour (b07djvdr)

EU referendum - the women who still don't know how they'll vote. Plus French actress Isabelle Huppert

With less than two weeks to go before the EU referendum, how important are the votes of those still to make up their minds and what are the issues that will sway the way women vote? Dr Michelle Harrison of the global market research organisation Kantar discusses.

As we continue our celebration of 150 years of the Fawcett Society we ask; Who won the vote, the Suffragettes or the Suffragists? June Purvis, Professor of Women and Gender History at the University of Portsmouth and author of the first biography of Emmeline Pankhurst, and Elizabeth Crawford, historian and author of a suffrage movement reference guide, debate.

We hear from the celebrated French actress Isabelle Huppert about her latest role as one of Greek's mythology's most controversial female figures, Phaedra.

Plus a look at women's lives around the world and their identities as expressed through their relationship with their hair and their hairdressers in a series The Salon - first broadcast on BBC World Service. Today we hear from 19 year old Tracy in South Africa and Miriam and her hairdresser Hussan in Beirut.

Presented Jenni Murray

Producer Beverley Purcell.

FRI 10:40 15 Minute Drama (b07dnyb1)

A Small Town Murder

Episode 5

Meera Syal returns as family liaison officer Jackie Hartwell in the eighth series by Scott Cherry.

While still grieving over the disappearance of one of her closest work colleagues, Jackie is sent to talk to Rachel Dickson, whose son has just been seriously injured in a hit and run incident. Jackie knows Rachel of old - she is married to one of Birmingham's notorious villains.

Written by Scott Cherry

Produced and Directed by Clive Brill

A Brill production for BBC Radio 4.

FRI 10:55 A National Service of Thanksgiving for the Queen's 90th Birthday (b07dnyvs)

Live from St Paul's Cathedral with a sermon by the Archbishop of Canterbury and in the presence of Her Majesty the Queen, the Duke of Edinburgh, other members of the Royal Family and heads of government. Favourite hymns, familiar and newly commissioned anthems sung by the world famous St Paul's Cathedral Choir, and commentary by James Naughtie. Producer: Katharine Longworth.

FRI 12:00 News Summary (b07djvdt)

The latest national and international news from BBC Radio 4.

FRI 12:04 The Unseen - A History of the Invisible (b07dnyvv)

Becoming Invisible

Science writer and broadcaster Philip Ball sets out on a quest to explore the peculiar world of the invisible.

Our fascination with achieving invisibility stretches back over thousands of years. In ancient myths, invisibility used to be a gift of the gods and the goddesses. Now, after millennia of dreaming about it, science might be on the threshold of letting us master invisibility for real.

While the earliest scientific proposals for invisibility cloaks appear in fiction, today it's not just storytellers and folklorists who speak of them, but physicists and engineers. And they've made them too. Over the past decade there have been scientific reports of cloaks, shields and other devices that can make things seemingly vanish - from humble pieces of paper to fish, cats, people, even entire buildings.

Philip hears from Sir John Pendry, the pioneering physicist who hit the headlines when he published a paper detailing the first working invisibility cloak. In order to see a cloak in action, Philip travels to the University of Birmingham to meet Dr Jensen Li in the Metamaterials Lab. Jensen's cloaking device proves to be nothing like the cloaks of myth and fantasy, leaving Philip to question whether we should be discussing the real and fictional invisibility cloaks in the same breath.

Presenter: Philip Ball

Producer: Max O'Brien

A Juniper production for BBC Radio 4

FRI 12:15 You and Yours (b07djvbw)

Jessops, The Euros, Hire car problems

As BHS goes into administration, the boss of Jessops tells us how they managed to save the business from a similar fate three years ago.

As MPs conclude an investigation into the quality of new-build homes, we hear one example in Peckham where a block of flats is being demolished just six years after its construction.

Comedian Max Dickens tells us why he turned to a discount website after his girlfriend dumped him.

And the European Championships kicks off today but how does the tournament influence our spending?

PRESENTER: PETER WHITE

PRODUCER: RAJEEV GUPTA.

FRI 12:57 Weather (b07djvdy)

The latest weather forecast.

FRI 13:00 World at One (b07dnyvx)

Is Labour doing enough to address supporters' worries about immigration ahead of the Referendum? We hear analysis of how Labour's supporters feel about immigration, hear criticism of the party's campaign from both sides of the Brexit debate, and put those to an ally of Jeremy Corbyn.

Jon Manel continues his investigation into the Body on the Moor - the man found 6 months ago this weekend on Saddleworth Moor, and as yet unidentified.

As celebrations of the Queen's 90th Birthday began at St Paul's Cathedral today, Peter Hunt brought us a flavour of the pageantry.

And how the Guggenheim Museum of New York came to be exhibiting in Camberwell - South London.

FRI 13:45 The Boy Who Gave His Heart Away (b07f4sw0)

Episode 5

In August 2003, 16 year-old Martin Burton suffered irreversible brain damage, and his parents Nigel and Sue agreed for his

organs to be donated. Martin's corneas were frozen for future use, his right kidney was transplanted into an older woman, his left kidney into an older man. Martin's liver saved the life of Andrew Seely, a man in his thirties. Martin's heart has gone to 15 year-old Marc McCay.

In the final part of the series, journalist and writer Cole Moreton joins Nigel and Sue Burton as they travel up to Scotland to see Marc. Cole wants to find out how life has been for him these past 13 years since the transplant that saved his life. Cole is going to ask Marc to let Sue put a hand on his chest and feel the heart that came from her son beating inside him.

A TBI Media production for BBC Radio 4.

FRI 14:00 The Archers (b07dntk9)
[Repeat of broadcast at 19:00 on Thursday]

FRI 14:15 Drama (b042zsy3)
Original British Dramatists

Paris, Nana & Me

ORIGINAL BRITISH DRAMATISTS
Discover 10 new voices over 10 Afternoon Dramas

In 2009 writer and performer Caroline Horton took her ninety year-old Grandmother on one last trip to Paris. Having grown up hearing her Nana's vivid stories of the city, Caroline excitedly planned their Parisian adventure. But it's hard to have an unforgettable trip with someone who can't remember what they were doing yesterday. And sight-seeing is not much fun with somebody who is virtually blind. A funny and heartbreakingly poignant journey through the city of love and the ravages of time.

Caroline Horton is a young writer/performer with a talent for comedy, telling stories and touching hearts. She was named Best Solo Performer at The Stage Awards 2010 for her show 'You're Not Like the Other Girls Chrissy'. Her follow up play, 'Mess', won Best Ensemble at The Stage Awards 2012 as well as the Argus Angel Award in 2013.

Directed by James Robinson
A BBC Cymru Wales Production.

FRI 15:00 Gardeners' Question Time (b07dnyyz)
Keswick

Eric Robson hosts the horticultural panel programme from Keswick. Bob Flowerdew, Anne Swithinbank and Bunny Guinness answer the questions from the audience.

The panel offer advice on wormeries, how to avoid Phytophthora, and a sure-fire way of growing Peonies. They also help an audience member with a question on how to grow vegetables in winter and reveal their Topical Tips for this time of year.

Eric Robson takes a tour round the nearby Wordsworth House and Gardens.

Produced by Dan Cocker
Assistant producer: Laurence Bassett

A Somethin' Else production for BBC Radio 4.

FRI 15:45 About the Mountain by Frances Leviston (b077dm23)

The snow is falling and it's the end of the day on the mountain.

A young snow-boarding instructor does a head count of her charges - a group of schoolboys. One has been left behind and she sets off to find him.

Emily Beecham reads award-winning poet Frances Leviston's short story.

Commissioned and produced for the BBC by Jill Waters.

Read by Emily Beecham

A Waters Company production for BBC Radio 4 first broadcast in June 2016

FRI 16:00 Last Word (b07dnyw1)
Sir Peter Shaffer, Sir Denys Wilkinson, Peggy Spencer and Muhammad Ali

Julian Worricker on:

The playwright Sir Peter Shaffer, most famous for 'The Royal Hunt of the Sun, 'Equus' and 'Amadeus'...

The physicist, Sir Denys Wilkinson, considered an expert on the electromagnetic properties of nuclear isotopes...

The dancer, Peggy Spencer - also a choreographer, adjudicator and dance event organiser...

And the man voted the sportsman of the last century, heavyweight boxer and civil rights campaigner, Muhammad Ali.

FRI 16:30 Feedback (b07dnyw3)
Roger Bolton explores listener reaction to BBC radio.

The death of boxing legend Muhammad Ali blazed across BBC output in the last week - but did this coverage fail to portray the two sides of his character? Listeners questioned whether the reporting focused too heavily on his success and iconic image and neglected his more controversial moments. Controller of daily news programmes Gavin Allen explains how these decisions are made in the editorial process and what he feels the news programmes achieved.

In the age of audiences having streaming websites and personal playlists at their fingertips, is there a place for music presenters to curate our listening? BBC 6 Music believe there is as it broadcasts its annual 6 Music Recommends Day. Reporter Rob Crossan goes behind the scenes with musicians and presenters to find out how they put together a 12 hour playlist of brand new music that will please a diverse set of listeners. He speaks to presenters Cerys Matthews, Steve Lamacq and Shaun Keaveny, as well as Head of Music Jeff Smith and Head of Programmes Paul Rogers.

Roger Bolton also puts listener questions to BBC 6 Music Controller Bob Shennan, asking the station has evolved since its launch in 2002 and where it fits into the range of music radio stations.

And in last week's Feedback, the BBC's assistant political editor Norman Smith explained how he feels the corporation's impartiality may affect reporting of the EU Referendum. It's a debate that many Feedback listeners felt compelled to join in.

Produced by Kate Dixon.
A Whistledown production for BBC Radio 4.

FRI 16:55 The Listening Project (b07dnwls)
Susanna - Talking to Mum

Fi Glover introduces the conversation one woman wishes she could have had with her mother before she died. Another in the series that proves it's surprising what you hear when you listen.

The Listening Project is a Radio 4 initiative that offers a snapshot of contemporary Britain in which people across the UK volunteer to have a conversation with someone close to them about a subject they've never discussed intimately before. The conversations are being gathered across the UK by teams of producers from local and national radio stations who facilitate each encounter. Every conversation - they're not BBC interviews, and that's an important difference - lasts up to an hour, and is then edited to extract the key moment of connection between the participants. Most of the unedited conversations are being archived by the British Library and used to build up a collection of voices capturing a unique portrait of the UK in the second decade of the millennium. You can learn more about The Listening Project by visiting bbc.co.uk/listeningproject

Producer: Marya Burgess.

FRI 17:00 PM (b07djvf0)
Paddy O'Connell with interviews, context and analysis.

FRI 18:00 Six O'Clock News (b07djvf2)
Senior Labour figures have sought to rally support for the campaign to keep the UK in the European Union. But they've been criticised for being out of touch with voters who feel strongly about immigration.

The German finance minister has said that the UK will not have access to the single market if it votes to leave.

FRI 18:30 The News Quiz (b07dp051)
Series 90

Episode 9

Jeremy Hardy, Sarah Kendall, Camilla Long and Lucy Porter are Miles' guests in the long-running satirical quiz of the week's news.

Producer: Paul Sheehan.

A BBC Studios Production.

FRI 19:00 The Archers (b07dp053)
Robert and Lynda put the final touches to the Ambridge Hall garden before it's opening at the weekend. Lynda has decided to raise funds to refurbish the planters and public garden spaces around the village. As they work, Lynda gets an email from the insurance company about cover for the weekend. They want her to fence off where her property meets the River Am.

Tom visits Helen and meets Jack. He tells her about Anya taking on the shop and Route B being cancelled. Helen tells Tom she has made friends with Kaz. They talk about the FHDRA hearing, which Helen is dreading because she will have to see Rob. Tom tries to reassure her by saying Rob can't hurt her.

Lynda visits Eddie at the job he's working on and tries to persuade him to do the fencing she needs. In return for the work Eddie wants to promote his shepherd but building skills at the garden's opening. Lynda refuses and searches for someone else but has no luck. It looks like they have no option but to cancel the garden's opening. Then, to Lynda's surprise Bert is working on the fencing, with the help of Rex, Toby and Josh. Bert met Eddie at the builders' merchant and heard about Lynda's predicament. Bert assures her she will be able to open her garden as planned.

FRI 19:15 Front Row (b07djvf5)
Andy Hamilton, Rattigan on stage, Studio Ghibli's last film, Blake Morrison and Gavin Bryars

Andy Hamilton is co-creator of Power Monkeys, a new Channel 4 comedy that responds to the daily events in the EU referendum campaign. He tells us about the last minute rewrites required on the day of broadcast and the challenge of re-creating the interior Donald Trump's plane.

Two Terence Rattigan's plays have opened this week: The Deep Blue Sea starring Helen McCrory at the National Theatre in London, and Ross at the Chichester Festival Theatre with Joseph Fiennes. Henry Hitchings reviews both productions and the current Rattigan revival.

Studio Ghibli, the legendary Japanese animation house behind Spirited Away and Howl's Moving Castle, has ceased in-house production. So is its latest film a fitting swansong? Marc Eccleston reviews When Marnie was There, an adaptation of a 1967 book by British author Joan G Robinson about a reclusive girl who discovers an otherworldly new friend.

Poet Blake Morrison and composer Gavin Bryars tell us about their celebration of the train journey between Goole and Hull that will be entertaining passengers as part of the Yorkshire Festival.

Presenter: Kirsty Lang
Producer: Rachel Simpson.

FRI 19:45 15 Minute Drama (b07dnyb1)
[Repeat of broadcast at 10:40 today]

FRI 20:00 Any Questions? (b07dp055)
Tasmina Ahmed-Sheikh MP, Lord Forsyth, Ian Murray MP, Merryn Somerset Webb

Ritula Shah presents political debate from George Watson's College in Edinburgh with the SNP MP Tasmina Ahmed-Sheikh, Conservative peer Lord Forsyth, the Shadow Secretary of State for Scotland Ian Murray MP, and Editor-in-chief of MoneyWeek Merryn Somerset Webb.

FRI 20:50 A Point of View (b07dp057)
How Should We Build?

Roger Scruton says we should protect the English countryside by making beauty our priority when we build new houses while in towns we should reverse the damage done in previous decades.

"Surely the time has come to tear down the post-war estates, and to recover the old street lines that they extinguished."

Producer: Sheila Cook.

FRI 21:00 Five Hundred Years of Friendship (b03yqz04)
Five Hundred Years of Friendship: Omnibus

Episode 1

The changing meaning of friendship over the centuries: the weekly omnibus edition of Dr Thomas Dixon's timely history.

From social networks involving perhaps 150 friends around the well or at the bake-house, to contemporary Social Networks which might extend over the globe and include a thousand Friends, Thomas Dixon's history considers both the differences and similarities between friendships as we experience them today and as people lived them out in the sixteenth, seventeenth and eighteenth centuries.

This first of three omnibus editions takes on board questions of the function of friendship - emotional or instrumental; the Biblical contradictions about friendships - universal or individual; the impact of commerce and politics on friendship; and whether men and women can really be friends without a sexual element.

Producer: Beaty Rubens.

FRI 21:58 Weather (b07djvf7)

The latest weather forecast.

FRI 22:00 The World Tonight (b07djvf9)

Euro 2016 gets underway

British football fans clash with French police in Marseille.

FRI 22:45 Dangerous Visions (b07dp059)

Never Let Me Go

Episode 10

For Radio 4's Dangerous Visions season of dystopian storytelling our Book at Bedtime is Booker Prize-winning author Kazuo Ishiguro's haunting novel of friendship, love and loss.

Kathy, Tommy and Ruth have only ever known the sheltered world of Hailsham, a secluded country boarding school. As they grow up, they begin to understand the true purpose of their isolated upbringing and the fate that lies in store for them.

Ishiguro's alternative vision of late 1990s England is a disquieting meditation on what makes us human, whether we can escape the fate set out for us and how we each find meaning in our lives.

Book at Bedtime is an abridged version of the novel.

Written by Kazuo Ishiguro
Read by Rachel Shelley
Abridged by Lauris Morgan-Griffiths
Produced by Mair Bosworth.

FRI 23:00 A Good Read (b07dlxml)

[Repeat of broadcast at 16:30 on Tuesday]

FRI 23:30 Today in Parliament (b07dp05c)

Mark D'Arcy reports from Westminster.

FRI 23:55 The Listening Project (b07dp0s5)

Armida and Bernice - You've Left Your Mark

Fi Glover introduces a conversation between friends who know that one of them will not be alive much longer, remembering the good times and facing their impending loss together. Another in the series that proves it's surprising what you hear when you listen.

The Listening Project is a Radio 4 initiative that offers a snapshot of contemporary Britain in which people across the UK volunteer to have a conversation with someone close to them about a subject they've never discussed intimately before. The conversations are being gathered across the UK by teams of producers from local and national radio stations who facilitate each encounter. Every conversation - they're not BBC interviews, and that's an important difference - lasts up to an hour, and is then edited to extract the key moment of connection between the participants. Most of the unedited conversations are being archived by the British Library and used to build up a collection of voices capturing a unique portrait of the UK in the second decade of the millennium. You can learn more about The Listening Project by visiting bbc.co.uk/listeningproject

Producer: Marya Burgess.