



DISPLAY CATALOGUE



Anglia Ruskin
University

Cambridge & Chelmsford

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Cover image courtesy of NASA.

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Project Manager – Farah Mendlesohn
Catalogue Editor – Jude Roberts
Displays Assistant – Clare Boothby
Plus Many Wonderful Volunteers!!

DISPLAYS AUDIO GUIDE AVAILABLE AT

http://loncon3.org/displays_guide.php

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A
**A SHIP
WITH
A VIEW**

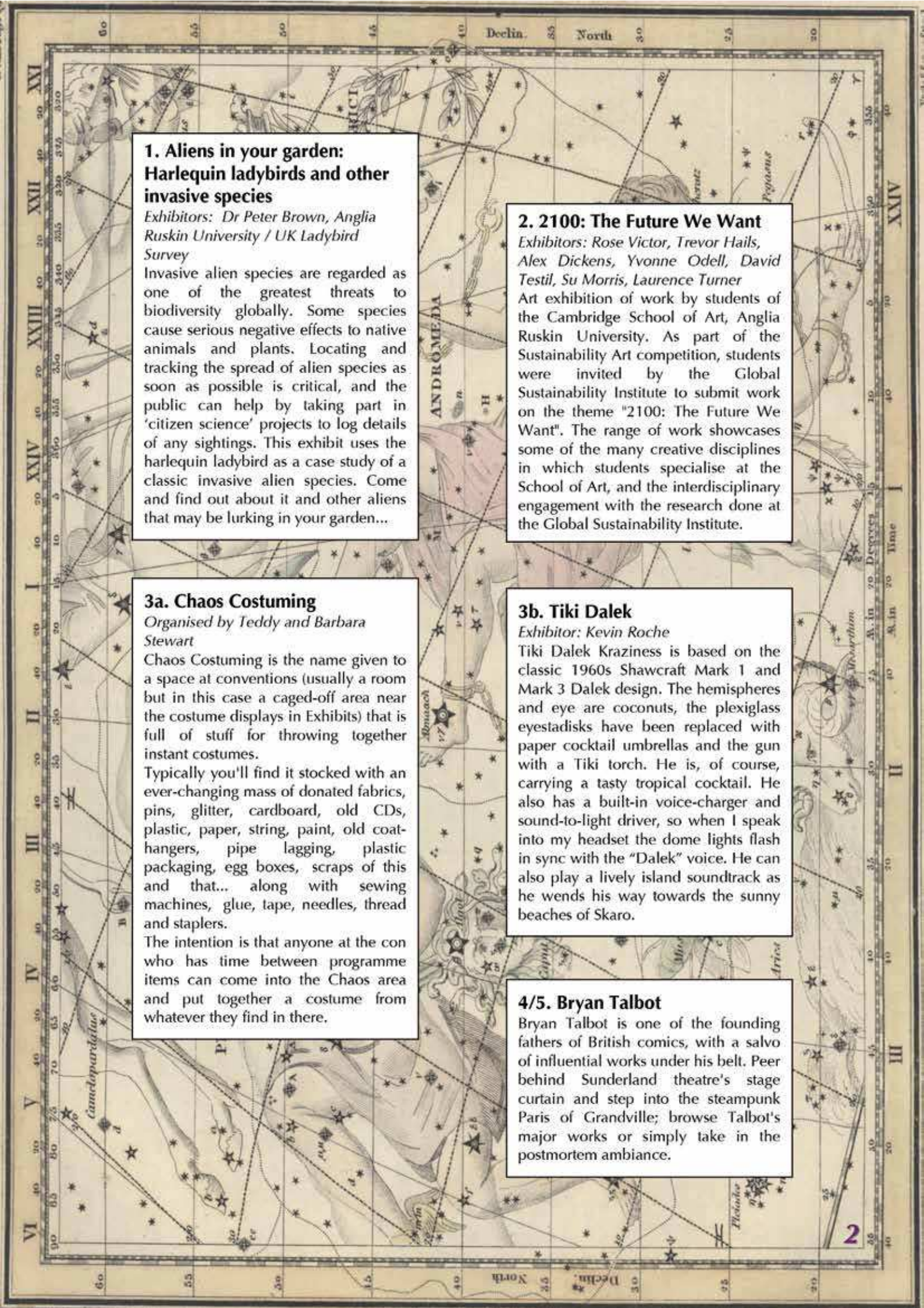
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CULTURE SHIP THEMED BANNERS
HANGING OVER THE DEALER
TABLES TO TAKE HOME?**

YOU CAN GET ONE FOR JUST £100!

**Enquire at the Exhibits desk during
the convention or email the Science
Fiction Foundation at
edward.james@ucd.ie**

Q
**QUIETLY
CONFIDENT**



1. Aliens in your garden: Harlequin ladybirds and other invasive species

*Exhibitors: Dr Peter Brown, Anglia
Ruskin University / UK Ladybird
Survey*

Invasive alien species are regarded as one of the greatest threats to biodiversity globally. Some species cause serious negative effects to native animals and plants. Locating and tracking the spread of alien species as soon as possible is critical, and the public can help by taking part in 'citizen science' projects to log details of any sightings. This exhibit uses the harlequin ladybird as a case study of a classic invasive alien species. Come and find out about it and other aliens that may be lurking in your garden...

2. 2100: The Future We Want

*Exhibitors: Rose Victor, Trevor Hails,
Alex Dickens, Yvonne Odell, David
Testil, Su Morris, Laurence Turner*
Art exhibition of work by students of the Cambridge School of Art, Anglia Ruskin University. As part of the Sustainability Art competition, students were invited by the Global Sustainability Institute to submit work on the theme "2100: The Future We Want". The range of work showcases some of the many creative disciplines in which students specialise at the School of Art, and the interdisciplinary engagement with the research done at the Global Sustainability Institute.

3a. Chaos Costuming

*Organised by Teddy and Barbara
Stewart*

Chaos Costuming is the name given to a space at conventions (usually a room but in this case a caged-off area near the costume displays in Exhibits) that is full of stuff for throwing together instant costumes.

Typically you'll find it stocked with an ever-changing mass of donated fabrics, pins, glitter, cardboard, old CDs, plastic, paper, string, paint, old coat-hangers, pipe lagging, plastic packaging, egg boxes, scraps of this and that... along with sewing machines, glue, tape, needles, thread and staplers.

The intention is that anyone at the con who has time between programme items can come into the Chaos area and put together a costume from whatever they find in there.

3b. Tiki Dalek

Exhibitor: Kevin Roche

Tiki Dalek Kraziness is based on the classic 1960s Shawcraft Mark 1 and Mark 3 Dalek design. The hemispheres and eye are coconuts, the plexiglass eyestadisks have been replaced with paper cocktail umbrellas and the gun with a Tiki torch. He is, of course, carrying a tasty tropical cocktail. He also has a built-in voice-charger and sound-to-light driver, so when I speak into my headset the dome lights flash in sync with the "Dalek" voice. He can also play a lively island soundtrack as he wends his way towards the sunny beaches of Skaro.

4/5. Bryan Talbot

Bryan Talbot is one of the founding fathers of British comics, with a salvo of influential works under his belt. Peer behind Sunderland theatre's stage curtain and step into the steampunk Paris of Grandville; browse Talbot's major works or simply take in the postmortem ambiance.

6. Association of Science Fiction & Fantasy Artists

Exhibitors: ASFA <http://www.asfa-art.org/>

A timeline of the Chesley awards presented by the Association of Science Fiction and Fantasy Artists (ASFA) from 1985 to the present with images of past winners.

The Chesley awards were named after the influential astronomical artist Chesley Bonestell and are usually given out at WorldCon or at the NASFiC every year.

7/13. Aspects of Costuming

Co-ordinator: Miki Dennis

It is almost impossible to represent the scope of modern day costuming but in the display at Loncon 3 we hope to show a range. There will be some beautiful cosplay examples, including a robot, and we have also incorporated an armoured example of Live Role Playing costuming. There will be at least one winner from the last British Worldcon in Glasgow to illustrate the difference in making and inspiration between cosplay and 'old fashioned' costuming. If possible there will be a recreation of an historic outfit and even a display of one made at conventions from found fabrics and components. There will also an exhibition involving costumed, ball jointed dolls. All these costumes are made by fans and several have won awards at different events. All are made with love, passion and enthusiasm.

8. UK costume photography

Exhibitors: Giles Golding, GilesG Photography

<http://www.gilesgphotography.co.uk/>

A photographic exhibition of UK based cosplayers, re-enactors, steampunks and Live Roleplayers and their costumes.

GILESG Photography

9. Darwin's Pigeons

Exhibitor: John Ross www.darwinspigeons.com is a source of information, research and general interest for all. This display includes live pigeons on Saturday only.

A live fancy pigeon display of nine varieties showing the diversity of breeds kept by Charles Darwin at his home in Downe, Kent. His experiments with cross-breeding, observations and study of these birds feature in the opening chapter of *The Origin Of Species* published in 1859.

Some of these breeds are becoming increasingly rare; the display enables visitors to see the breeds as Darwin would have seen them.

10. Robin Hobb

The worlds of Robin Hobb are filled with the fantastical and miraculous. This display takes inspiration from Robin's books to show the diversity of her words and worlds. Robin's prolific career is documented in posters and pictures, Liveships sail the watery centre, surrounded by extraordinary plants and herbs that may kill or cure, Figureheads watch over the scene and all are encircled by a giant Dragon.

11. Match the cat

Some fannish cats are more famous than their owners. See if you can match cat to owner, but be careful, there are ringers in there. A small prize will be awarded to the most complete forms.

12. Iconic Legion - Costuming Comes to Life

Exhibitors: Iconic Legion (Saturday/Sunday only)

Iconic Legion officially launched on 28th October 2011 and is a volunteer charity costuming group, with the Dogs Trust as one of the chosen charities.

The concept of Iconic Legion is a costume group that features iconic, eye catching characters from a wide range of popular culture genres. The focus is on standout characters that are visually noticeable. With many talented members who have made their own costumes and props, the group has now expanded to include steampunk and gaming characters for example. Come and meet your favourite characters and have your photo taken with them and their props.



15. The Tiptree Cookbook

In the spirit of Jeanne Gomoll's Tiptree cookbooks, The Bakery Men Don't See, and Her Smoke Rose Up from Dinner, Fran Wilde has recruited authors to write the recipes for this display. Ellen Klages, Nicolas Griffith, Kelley Eskridge, Seanan McGuire, Ellen Datlow, Nalo Hopkinson, and Nancy Kress, among others, have all contributed recipes which will be auctioned on the Sunday of the convention at the Tiptree Auction.

14. justHarry Photography

Exhibitors: Harry Pirwitz, justHarry Photography

<http://www.justharry.co.uk>

justHarry Photography (www.justharry.co.uk) presents a selection of Harajuku style (Japanese street fashion) photos against some of London's finest graffiti. The second set shows several examples of urban decay in London including an organ by Bishop & Son (founded in 1795) and embalming tables in an abandoned mortuary. "I'm drawn to old and derelict buildings and objects, from industrial sites to historic mansions and churches. They allow for stunning and feature rich photos as well as an integral background of a scene." justHarry is a London based photographer covering a broad range of subjects from urban photography to portraits and nature/wildlife.

16. Relive Scott Edelman's 10 favorite foodie moments

Exhibitors: Scott Edelman

<http://www.scotedelman.com/tag/food/>

Scott Edelman loves to eat, and is always hunting for peak culinary experiences. Drool over photos and descriptions of the 10 best dishes he's ever experienced, from brisket to octopus to pigeon offal, found as far afield as Austin, Vienna and Santiago.

17. Moon-shot: First Woman on the Moon

Exhibitors:

Helen Schell

<http://thenewbridgeproject.com/portfolio/helen-schell/>

<http://astronomerswithoutborders.org/blog/tag/Schell.html>

The artwork and space-age ball-gowns on display were created as part of an, as yet fictional, idea concerning a long over-due mission for a woman astronaut to go to the Moon. This is an event which will certainly happen in the next 20 years. The works include Moon Rocket, the Dazzle Dress, the Beam Dress and UN-Dress & Bloodsmock short films. The 2 dresses are created from hi vis florescent & reflective fabrics, including genuine satellite wiring features. The films show 2 performances where ball-gowns, which are made from thermoplastic, dissolve in water. Helen Schell is an artist based in Newcastle, who specialises in artworks inspired by space exploration and science of the cosmos. She is also an ESERO-UK Space Ambassador for the education wing of European Space Agency, presenting space education projects using art techniques.



18. The Bone Chair

i honor the faceless
i bring them beauty without skin
i am the Chairmaker
i find forgiveness
dwelling only within

(Iain M. Banks)

19. Hugo Display

Exhibitors: Worldcon Heritage

Members of the World Science Fiction Convention (Worldcon) have been giving out the Hugo Award since the early 1950s. Named in honor of early editor Hugo Gernsback, they are awarded for the best of science fiction. Loncon 3 is displaying a collection of Hugos from many Worldcons since Baycon (1968), including Confiction (1990), Intersection (1995), Interaction (2005) and last year's LoneStarCon 3.

20. Wasp Factory

Exhibitor: Tessa Farmer

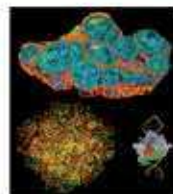
<http://www.tessafarmer.com/>

Tessa Farmer is an artist based in London. Her awards include the Vivien Leigh Prize, a sculpture residency in King's Wood, Challock, Kent, and a Royal British Society of Sculptors Bursary Award. In 2007 she was nominated for The Times/The South Bank Show Breakthrough Award. In 2007 she undertook a residency at the Natural History Museum in London. Her work is in collections worldwide, including those of the Saatchi Gallery, the Ashmolean Museum and the David Roberts Collection. For Loncon 3 she has produced a Wasp Factory.

21. Visions of Discovery

Exhibitors: University of Dundee <http://vod.lifesci.dundee.ac.uk/>

Visions of Discovery is an exhibition designed to showcase biological and medical research at the University of Dundee, based in Dundee, Scotland. Submitted to a competition open to staff and postgraduate students of the Colleges of Life Sciences and Medicine, Dentistry and Nursing at the University, the images reflect the broad spectrum of pioneering biomedical research being undertaken at the University of Dundee, using state-of-the-art technologies. For scientist and clinician alike, the image is a powerful tool - it can give a real understanding of the underlying medical or biological issues.



22. Methane and climate change. Are you a methane emitter?

Exhibitors: Royal Holloway Department of Earth Sciences

<https://www.royalholloway.ac.uk/earthsciences/ggrg/home.aspx>

Real time methane and carbon dioxide monitoring in the exhibit hall with the opportunity to breathe into a greenhouse gas analyser to discover whether you are a methane emitter. We also present our recent research into changing global methane emissions including methane hydrate, Arctic and tropical wetlands and urban sources. Methane is an important greenhouse gas and its concentration has more than doubled since the industrial revolution. But are emissions still increasing or reducing? How might warming of the Arctic cause a positive feedback in emissions? What are the current sources of methane to the atmosphere in the London region and are London's emissions changing?



23. The Gold Mine: A Utopian Post Scarcity City

Exhibitors: Nic Clear, Mike Aling, Simon Withers, Unit 15 University of Greenwich unitfifteen.blogspot.co.uk

www2.gre.ac.uk/about/schools/adc/about/departments/al/staff/nic-clear

The Gold Mine is project for a post-scarcity city set on Canvey Island in a post-singularity future. The Gold Mine is intended to test the application of speculative ideas developed in science fiction with concepts currently being developed in advanced forms of science and technology within the context of a formal architectural project and is seen as an alternative model for architectural design at a time when neo-liberal ideologies dominate our thinking on the city. The Gold Mine is a thought experiment intended to re-ignite debate around the issue of Utopia and possibility of a radically different conception of human organisation, it explicitly draws upon both speculative architectural projects such as Constant Nieuwenhuys's New Babylon and science fiction utopias such as Iain M Banks' The Culture. The exhibit will feature drawings, films and a large-scale urban model as the centrepiece of the display.

24. Herschel and Planck

Exhibitors: Dr Dave Clements, Dr Chris North, Herschel Space Observatory

<http://herscheltelescope.org.uk>

<http://plancksatellite.org.uk>

The Herschel Space Observatory and the Planck Satellite are two flagship missions from the European Space Agency, exploring the history of the formation of stars, galaxies, and even the Universe. This exhibit will showcase the science and technology behind the Herschel and Planck satellites.



herchel

planck

26. Raw Spirit

In 2003 Iain Banks published *Raw Spirit: In Search of the Perfect Dram*, a record of his tireless search for the best single malt whisky throughout the distilleries of Scotland, from Bladnoch in the far south-west up to Kirkwall in Orkney. Perfection for him was to be found above all on the island of Islay, but there are delights to be found in many other places too. This exhibit brings together bottles from all the distilleries that Iain Banks visited, shows on a map exactly where they came from, and records Banks's forthright opinions of each.

25. Iain (M) Banks

Iain (M) Banks is famous for killing his characters in gruesome and inventive ways. This display features deaths he devised that take place on the beach. Come be striped of your flesh by the Eaters or blown up by an innocent toddler hitting a bomb or whisked away across the North Sea by kite. Or alternatively, read about Iain's extraordinary work, peruse the distinctive covers of his books and leave a message for other Minds in Marain.

27. ALMA and e-MERLIN radio telescope arrays: seeing from the birth of planets to the birth of the universe



Exhibitors: Anita Richards, Adam Avison, UK ALMA Regional Centre Node; Megan Argo, Jodrell Bank Centre for Astrophysics; Robert Laing, European Southern Observatory
<http://www.almaobservatory.org/>
<http://www.e-merlin.ac.uk/>
<http://www.jodrellbank.net>

Radio astronomy looks at parts of the universe other telescopes cannot reach. The Atacama Large Millimeter Array (ALMA), in Chile, maps gas and dust from the early universe right up to planets being born next door. Here in Britain, the e-MERLIN array is used to study black holes and supernovae, weigh the universe and participate in SETI, among many other things. Both arrays can link up with radio telescopes all round the world to create a planet-sized telescope. The ALMA and e-MERLIN exhibitions will show some of our discoveries as well as giving you an opportunity to find out how radio interferometry works by Fourier Transforming yourself!

28. Pigeon Sim

Exhibitors: The Bartlett Centre for Advanced Spatial Analysis (CASA), University College London. <http://www.casa.ucl.ac.uk>

Pigeon Sim allows you to fly around a virtual London, using gestures to control your height and direction. Flap your arms to fly higher, lean to one side to bank, and experience the city from an entirely new perspective as you swoop and soar across it. Powered by Google Earth, CityDashboard.org and the Xbox Kinect it has been developed by The Bartlett Centre for Advanced Spatial Analysis as a means to communicate new data from cities. Created as part of work on geospatial data analysis and simulation, the project was funded by the National Centre for Research Methods.



29. The Graphic and Novel Project

Exhibitor: Dr Shawn Harmon, Mason Institute, University of Edinburgh

Science is a key instigator of shifts in how we understand the world and our place in it. That change can be accelerated or slowed, facilitated or hindered, entrenched or reshaped, through regulation. This intimate regulation-science-change relationship means that both science and law are only justified when they have been subject to socio-ethical considerations. The Graphic and Novel Project considered the communication of, and engagement around, law and science, highlighting the troubled history of public engagement around science and its governance and the ambiguous/contested relationship between science and science fiction. It resulted in the creation of *Fever Medicine*, an illustrated speculative fiction novel set in Edinburgh in 2050 and intended to facilitate education and encourage meaningful social discourse.

30. British Interplanetary Society

Exhibitors: British Interplanetary Society

"From Imagination to Reality", the motto of the British Interplanetary Society says it all. Science Fiction to Science Fact! Founded in 1933, the Society is the world's longest-established society dedicated to the promotion of astronautics and space exploration. The wide range of interests of its founding fathers brought together the ideas of science fiction writers such as Arthur C. Clarke, with the inspirational drawings of artists like RA Smith and the visionary technical expertise of scientists and engineers to create the project and mission studies that would take mankind to the Moon, Mars and beyond - ultimately to the far reaches of the Universe.



31. Initiative for Interstellar Studies

*Exhibitors: Terry
Regan, Sarah Margree,
John I Davies, Gill*



*Norman, Initiative for Interstellar
Studies. Follow us on @i4istellar
#i4isloncon3 and find us at
i4isloncon3.co.uk, i4isloncon3.org.uk
and i4is.org*

The Initiative for Interstellar Studies (i4is.org) at Loncon3 will reach out to the most imaginative people on this planet. Science Fiction has inspired many of us in i4IS and we aim to inspire readers, writers, publishers, editors and people from the worlds of film, television and games who will be at the Convention. Interstellar is where we are headed, first in imagination, then in reality!

Look out for our landmark exhibit with big screen film, models and lots of interesting people to talk to. And come to our Interstellar programme on Sunday with presentations by leaders in interstellar engineering and interstellar science fiction including our star author, Alastair Reynolds.

32. WSFS banner

Dave Kyle chaired Nycon II in New York City in 1956 and arranged the creation of the World Science Fiction Society (WSFS) banner for that Worldcon. It was regularly displayed at Worldcons in the '50s and '60s, and was brought back to Worldcons in the late '80s, where it has been on display ever since. The banner is now managed by the Worldcon Heritage Organization.

33. Mars Desert Research Station

*Exhibitors: David
D. Levine*



<http://www.bentopress.com/mars>

In 2010, Hugo-winning SF writer David D. Levine spent two weeks at the Mars Desert Research Station, a simulated Mars base in the Utah desert. This poster describes the MDRS, the science being done there, and the experience of being there in photos and text.

34. What Scientists Read

Exhibitors: Dr Sarah Dillon, University of Cambridge

<http://www.whatscientistsread.com/> <http://drsarahdillon.com/>

Scholars of literature and science studies, from Aldous Huxley to George Levine, have always maintained that literature influences science as much as science influences literature. In his 1978 survey of the field, G. S. Rousseau proposed that 'there is no reason to disbelieve on logical or epistemological grounds that literature and science affect each other reciprocally'. But he describes the literature-to-science direction of influence as 'an unexplored territory, probably the one in greatest need of cultivation right now'. The What Scientists Read project is an expedition into this unexplored territory, undertaken by a transdisciplinary team comprising a literary scholar, a social scientist, a physical scientist and a creative writer. This display will exhibit a poster presenting initial findings from the project's in-depth interviews with 20 scientists across Scotland, from which we are developing theories about the relationship between contemporary scientists' leisure reading and their scientific thought and practice.

35. Science Toys

Exhibitors: Dr Melanie Keene, Homerton College, Cambridge

www.homerton.cam.ac.uk/node/129

Instructive and amusing: historic science toys and games.

36. Urban Sputnik

Exhibitors: Vanessa Harden, Dominic Southgate <http://www.urbansputnik.com>

Urban Sputnik is a joint project between Vanessa Harden and Dominic Southgate from Wild Flag Studios in collaboration with Imperial College London's Astrophysics Group. This pair of sculptures develops as a novel way to express the frontiers of astrophysical research in a non-technical, more inclusive way, which uses art and design as its primary language. The aim of this project is to provide a sensorial environment in an urban setting with otherwise limited visibility of astronomical bodies. These pieces offer a metaphorical sensory experience connecting the user with distant cosmological phenomena that cannot otherwise be directly perceived nor experienced on a human scale.

37. Reaction Engines Ltd

Exhibitors: Jeremy Nickless, Reaction Engines Ltd

<http://www.reactionengines.co.uk/>

Driven by an extensive and pioneering technology programme, Reaction Engines Ltd has made a breakthrough in aerospace technology that is now allowing the development of engines that will propel aircraft at speeds of up to five times the speed of sound or directly into Earth orbit.

38. English Heritage

Exhibitors: English Heritage

<http://www.english-heritage.org.uk/>

English Heritage is the main government body charged with managing England's historic environment for future generations – from the Palaeolithic more than 700,000 years ago to the atomic age. The past informs the future and this is what our exhibition aims to reflect. From past futures to the future past.

39. Contact - Cultures of the Imagination

Exhibitors: G David Nordley

Since 1983 the Contact Conference has been held in California, discussing SETI and xenobiology. The highlight of the event is the Alien First Contact scenario, and this exhibition celebrates 30+ years of bizarre but plausible alien designs.

40. Deep Sea Internet Operated Crawler

Exhibitors: Rhianon Williams, Dr Autun Purser, Jacobs University Bremen <http://www.jacobs-university.de/ses/research/oceanlab/crawler>

Recent advances in robotics, camera systems and image archiving allow remote controlled vehicles to explore many extreme environments. Here we present the Jacobs University Deep Sea Crawler, deployed at a methane seep in the Canadian Pacific at 900 m water depth. Live video data showing the biological community and sensor data is shown here. Visitors can control the crawler camera to explore the local area... commonly there are fish and sizable crabs to examine in detail!

41/42. Jeanne Gomoll

Jeanne Gomoll is one of the best known mid-western fans. Jeanne is a writer and an artist, helped to create both Wiscon and the Tiptree Award and is the author and editor of several fanzines. The Tiptree quilt has been flown over, and this is your chance to be a Space Babe!

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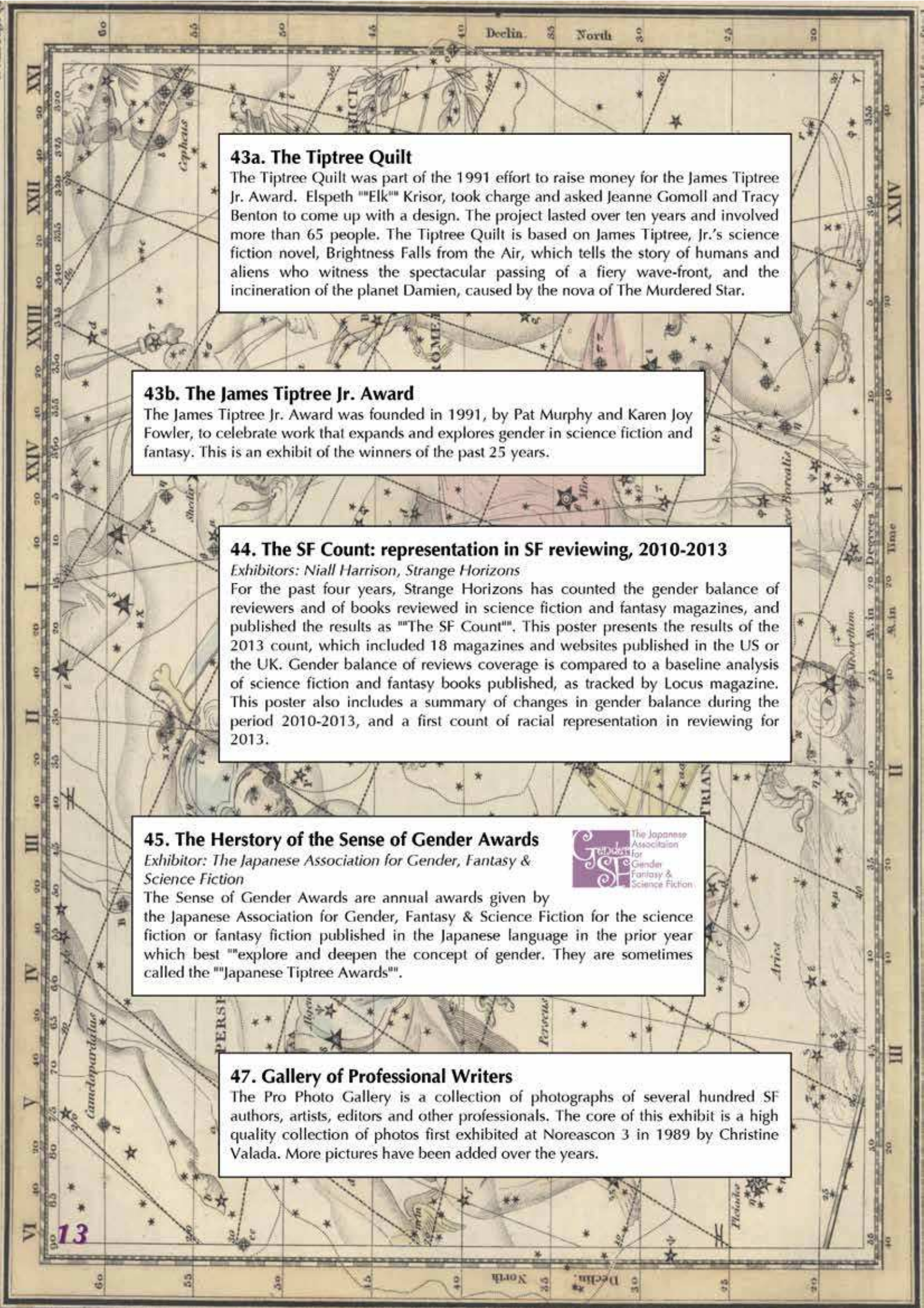
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43a. The Tiptree Quilt

The Tiptree Quilt was part of the 1991 effort to raise money for the James Tiptree Jr. Award. Elspeth "Elk" Krisor, took charge and asked Jeanne Gomoll and Tracy Benton to come up with a design. The project lasted over ten years and involved more than 65 people. The Tiptree Quilt is based on James Tiptree, Jr.'s science fiction novel, *Brightness Falls from the Air*, which tells the story of humans and aliens who witness the spectacular passing of a fiery wave-front, and the incineration of the planet Damien, caused by the nova of The Murdered Star.

43b. The James Tiptree Jr. Award

The James Tiptree Jr. Award was founded in 1991, by Pat Murphy and Karen Joy Fowler, to celebrate work that expands and explores gender in science fiction and fantasy. This is an exhibit of the winners of the past 25 years.

44. The SF Count: representation in SF reviewing, 2010-2013

Exhibitors: Niall Harrison, Strange Horizons

For the past four years, Strange Horizons has counted the gender balance of reviewers and of books reviewed in science fiction and fantasy magazines, and published the results as "The SF Count". This poster presents the results of the 2013 count, which included 18 magazines and websites published in the US or the UK. Gender balance of reviews coverage is compared to a baseline analysis of science fiction and fantasy books published, as tracked by Locus magazine. This poster also includes a summary of changes in gender balance during the period 2010-2013, and a first count of racial representation in reviewing for 2013.

45. The Herstory of the Sense of Gender Awards

Exhibitor: The Japanese Association for Gender, Fantasy & Science Fiction



The Sense of Gender Awards are annual awards given by the Japanese Association for Gender, Fantasy & Science Fiction for the science fiction or fantasy fiction published in the Japanese language in the prior year which best "explore and deepen the concept of gender. They are sometimes called the "Japanese Tiptree Awards".

47. Gallery of Professional Writers

The Pro Photo Gallery is a collection of photographs of several hundred SF authors, artists, editors and other professionals. The core of this exhibit is a high quality collection of photos first exhibited at Noreascon 3 in 1989 by Christine Valada. More pictures have been added over the years.

48. Unspeakableness

Exhibitors: Pei-Ying Lin <http://peiyinglin.net>

Unspeakableness is a project that investigates human emotions and languages. By re-looking at how humans communicate, it searches for a way to connect our inner self and personal emotions, through the design of a personal language and several new ways of communication. It is an investigation of how language can be improvised to connect our emotions in this multilingual world, and how our languages can expand through the mixture of natural languages, artificial languages, and the imaginary world.

49. The David Gemmell Awards For Fantasy

Exhibitors: The David Gemmell Awards For Fantasy
<http://gimmellaward.ning.com/>

Following his untimely death in July 2006, a group of David Gemmell's friends and colleagues decided to commemorate his life and work with an award in Gemmell's name. The first Legend Award for best fantasy novel in the heroic/epic tradition, decided by an open vote, was presented at a ceremony held at London's Magic Circle in June 2009. In 2010 two more categories were added - the Morningstar Award (best debut) and the Ravenheart Award (best book cover art). The Magic Circle has remained the awards' home, with the exception of 2013, when we were invited to stage the ceremony at World Fantasy Convention in Brighton. 2014's awards, which took place on 13th June, attracted a total of 17,000 votes from 101 countries.



50. Petrie Museum of Egyptian Archaeology, UCL



Exhibitors: The Petrie Museum of
Egyptian Archaeology, University
College London

www.ucl.ac.uk/museums/petrie

The Petrie Museum of Egyptian Archaeology, UCL shares information about the 80,000 objects from Egypt and Sudan in its collection with members of Loncon3. Situated as a teaching collection but open to the public at the heart of University College London, this display will share information about archaeology and new discoveries around old objects; including our meteorite beads, forms of dating the ancient past and cats galore. Images of the collection, posters, themed trails, leaflets, replica objects and (as much as possible) people will share knowledge about the 7,000 years of history in the Nile Valley the museum looks after.

51. Future Visions

Exhibitor: Alys Sterling

These quilts represent two visions of the future. "Is This the Future We Envisioned" shows the future as imagined from the past, while "We Dream Of Other Worlds" was inspired by the Cassini photographs of Saturn. Made in 1999 and 2014, they also show the past and present of the artist's work. "Is This the Future We Envisioned" was inspired by a visit to the Imperial War Museum. I was struck by the shapes of the WWI bombs, so much more voluptuous than our present missiles. In the 1930s we dreamed of Utopia. Instead of creating a better world, we invented more powerful weapons to glory in its destruction. Churchill, in his red velvet siren suit, looks on. "We Dream Of Other Worlds" is a more optimistic vision of the future. We imagine colonizing the moons of Jupiter and Saturn. Wonders may await us there - we may not be the only ones who dream.

52/53. Academic poster session

Organised by Dr Nicholas Jackson. The session is sponsored by Anglia Ruskin University.

The peer-reviewed academic poster session features poster presentation of current research in the sciences, mathematics, social sciences and related fields. In addition, Dr Moira Harrison (University of Brighton) has kindly donated £100 for a prize for the best poster, in memory of her father, the science fiction author Harry Harrison.



Anglia Ruskin University

Cambridge Chelmsford Peterborough

Nancy Hine (University of Hertfordshire),
Investigating the acceleration of galaxy
growth in a $z=3$ protocluster

Louisa Riofrio, The Speed of Light

Johann Hlina (University of Edinburgh),
Uranium-mediated conversion of small,
inert molecules

Massimo Mauro, Subverting alien computer
systems and networks: how to do it right
(and how they did it wrong...)

Ursula Arndt (University of York),
Palaeogenetics: Investigating ancient people
and environments using 21st century
technology

Rachel Berkson (University of Keele),
Protein interaction partners of Plac8, a novel
cell fate regulator

Liam Brierley (University of Edinburgh),
Where do new, potentially deadly viruses
come from?

Duncan Casey (Imperial College London),
Tractor beams and microchips: building tiny
tools to study single cells

Rachel Erickson, Kings of the Golden River:
A comparative study of sanitation on
Discworld and Roundworld

Matthew Hall (University of Edinburgh),
Tracking epidemics using genome
sequences

Moira Harrison (University of Brighton),
Antipsychotic agents and saturated fatty
acids: Beta cell assassins?

Fiona Coward (University of Bournemouth),
How Stuff Made Us Human

David Merkler (University of South Florida),
Identification of an Arylalkylamine N-
acyltransferase Enzyme that Catalyzes the
Formation of Longchain N-acylserotonins
and N-acyldopamines

Doris Reineke (University of Edinburgh),
How to Create your own Clone Army

Sam Scheiner (US National Science
Foundation), The Fundamental Principles of
Biology and Their Implications for SF

Caitlin Herington (University of Ballarat),
Beyond the Princess, the Priestess, and the
Galactic Kitchen Sink: Reformulation of
Feminine Identity and Social Roles in Lois
McMaster Bujold's Vorkosigan Saga and
Chalion Series

Amanda Potter (Open University), Whose
Monsters?: The Minotaur and the Sirens in
New Who and Fan Fiction

Martine Barons (University of Warwick),
Rigorous combination of expert judgment
for food security decision support using
Bayesian networks

Jenny Cooley (University of Warwick),
Finite generation of points on cubic
surfaces

Sian Fryer (University of Manchester),
Infinite-dimensional division rings: not so
simple after all

Faizan Nazar (University of Warwick),
Defects in crystals

Elisabeth Fraczek (University of
Strathclyde), Perfecting the imperfections:
making lasers with diamonds

54. English PEN: Freedom to Read, Freedom to Write

Exhibitors: Julia Ziemer, Jo Glanville, Cat Lucas and Robert Sharp <http://www.englishpen.org/>

English PEN is the founding centre of an international fellowship of writers and readers, promoting freedom of expression and literature across frontiers. Visit the English PEN team to find out how you can join the fight for freedom of expression for writers, bloggers, journalists, publishers and readers in the UK and around the world and discover more about our wider campaigns and programmes. As part of the Loncon3 programme, we will be launching the PEN/HG Wells annual lecture delivered by Audrey Niffenegger on 15 August at 6pm.

55. First Fandom

Exhibitors: First Fandom

www.firstfandom.org/

First Fandom ("The Dinosaurs of Science Fiction")...Photographs

, articles and archive material by early SF fans recall the 1939 World Science Fiction Convention and NY World's Fair! Histories of the First Fandom Awards, the Big Heart Award and St. Fantony are also listed.



56. Fan Gallery

To visit the online gallery, go to:

www.scifiinc.net/scifiinc/gallery/bio/

The Fan Gallery is both a digital and an analogue gallery of many fans, particularly those who have won Hugos or Fan Funds or who are active in convention running. It was initiated by SCIFI in 1997.



**The Historical
Thesaurus of English**

58. The Historical Thesaurus of English

Exhibitors: Dr Marc Alexander, Jean

Anderson, Dr Fraser Dallachy,

University of Glasgow

historicalthesaurus.arts.gla.ac.uk

This demonstration will present the Historical Thesaurus of English, the first resource in the world to offer a comprehensive semantic classification of the words forming the written record of any language. It covers thirteen centuries of development from Old English to the present day. It is arranged in 230,000 detailed semantic categories containing almost 800,000 meanings. The HTE lets you see all the words used to express an idea over the years or to look at the vocabulary available in a particular period – a time traveler's dictionary.

57. John Clute's Study

This display showcases photographs from John Clute's life; the books he has collected, and provides access to the Science Fiction Encyclopedia for which he is renowned.

59. Kansas City in 2016

Exhibitors: Kansas

City in 2016

<http://kcin2016.org/>

A visual exploration into the bid for the 74th World Science Fiction Convention in 2016 by Kansas City, Missouri.



60. Vice Versa Et Cetera

Exhibitors: Simon Payn www.simonpayne.co.uk/

A unique video art work that rapidly transforms the screen from one field of clashing complementary colours to another, via radiating, sweeping and twisting graphic dividing lines. (2010, 10 mins, colour-b/w, stereo)

This display includes coloured and moving lights, which may not be suitable for people with epilepsy or migraine.

61. Scientific Accident Investigation Group

Exhibitors: Hollington & Kyprianou

www.electronicunset.org/project_archive/the_invisible_force_field_experiments

When the Invisible Force Field Experiments were closed down a decade ago in somewhat murky circumstances, the Scientific Accident Investigation Group, led by Lukas Parkes, cordoned off the area and took control. Within the scientific community, claims that the project leaders - Mr. Hollington and Mr. Kyprianou - were charlatans or visionaries have been bandied about in equal measure.

Contained within this presentation are videos of experiments, technical papers and weblogs from the I.F.F.E team as well as recommendations made by Lucas Parkes that the investigation should and must be urgently re-opened.



62. Grant Loudon

Exhibitors: Grant Loudon www.grantloudon.com/sculpture.htm

Sculptor Grant Loudon takes a trip back to the future by revisiting classic 70s sci-fi book covers and recreating them in three dimensions. Working closely with the original illustrators - (Colin Hay, Tony Roberts, Peter Elson) - he produces large-scale spaceship replicas of stunning accuracy and detail.

63. Science Fiction and Fantasy Archives in the UK

This display introduces, through photographs of books and manuscripts, some of the wealth of research holdings in British libraries, including the Science Fiction Foundation Collection at the University of Liverpool and the Bodleian Library in Oxford.

64. The Disch/Sladek/Zoline collaboration

Exhibitors: In Memoriam: Thomas M. Disch (1940-2008), from the collection of Henry Wessells

In 1968, Thomas M. Disch, John Sladek, and Pamela Zoline, lived at 221B Camden High Street "in squalor ... also in the glory of our own self-declared genius". John Sladek wanted to publish a poetry magazine with a title even more obscene than Ed Sanders' Fuck You A Magazine of the Arts. They produced Ronald Reagan, and as time has shown, Sladek won. These materials document the Disch/Sladek/Zoline collaboration.

65. BSFA

A short tribute to the British Science Fiction Association and its history.

66. The FAB Worlds of Gerry Anderson

Exhibitors: Anderson Entertainment Ltd

www.gerryanderson.co.uk

Celebrating the life, career and legacy of one of Britain's most prolific television and film producers. Although best known as the creator of Thunderbirds - Gerry Anderson was responsible for many hundreds of episodes of science fiction and cult TV. Today Anderson Entertainment continues to develop Gerry's body of work through legacy projects like Gemini Force One.

Learn about the amazing methods developed and used by the UK's version of Walt Disney throughout his incredible 60-year career.



ANGST-LESSPORK

67. Angst-Lesspork

Exhibitors: Hugh Norwood

www.dwcon.org/pages/56/angst-lesspork-model-railway

Angst-Lesspork is a small model railway that draws its inspiration from and is a tribute to the "Discworld" books of Terry Pratchett and in particular the greatest city on the Circle Sea, Ankh-Morpork.

The scene is urban with a tidal river to the front. Buildings are predominately timber-framed. Although superficially a Victorian / Edwardian townscape, many characters and architectural features give clues to the layout's true identity.

Angst-Lesspork appears with the kind permission of Sir Terry Pratchett - and pre-dates "Raising Steam" by a couple of years...

68. Kids Company

Exhibitors: Kids Company www.kidsco.org.uk/

An exhibition of artwork by children and young people aged 4 to 23 exploring the issues that affect their daily lives and the dreams they hold for the future.



**KIDS
COMPANY**

69. Photography Competition

Come see the winners of the Loncon 3 Photographic competition; Judges, Pete Young and David Findlay, curated by Teresa Hehir.

70. Millennium Falcon

*Exhibitors: Craig Stevens
modelmultiverse.com*

This display examines the iconic spaceship both inside and out via production sketches, new blueprints and various types of model (including Lego). The "Ship of Riddles" is explained from its conception, initial design and final execution in miniature and full-size props. It also focuses on the Rebel Blockade Runner as it is in many ways the Millennium Falcon's "twin."

The interior design and even the exact size of the Millennium Falcon has been the source of much debate over the years. Craig will explain the wildly varying ideas that have been put forward regarding the Millennium Falcon, including the plan by fans to build a "full sized" version of the ship. So strap yourselves in and prepare to make the Kessel run in less than twelve parsecs.

71. Locus

A selection from the archive of the long running (and only) trade journal in the field: Locus Magazine. Locus has been publishing since 1968, and is now forty-six years old.

72. Political Cartooning & Science Fiction

*Exhibitors: Pete Young
zinewiki.com/Pete_Young*

An exhibition of cartoons, mostly from the UK and US news media, in which political cartoonists have used science fictional ideas and images to get their messages across.

73. Worldcon History

This brief tour through some of the highlights of Worldcon history will focus on firsts and fans, from 1939 to the present day, from New York to London. Each decade will be contextualised by Verity Glass's amazing science fiction history illustrations.



Science Fiction
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74. The Destruction of London

*Exhibitors: Science Fiction Foundation
Collection, University of Liverpool
Library www.sfhub.ac.uk/*

Drawing upon the prophecies of medieval astrologers and soothsayers to modern science fiction and fantasy (Richard Jefferies, George Griffiths, H. G. Wells, John Wyndham, Dr Who), this display will look at some of the imaginative and sinister ways the destruction of London has been imagined.

75. Malcolm Edwards

Malcolm Edwards has been responsible for many of the greatest books in British science fiction. Come over to the Book of Malcolm Edwards to see the scope of his talents and his involvement in fandom over many years.

76. The life and works of Olaf Stapledon

Exhibitors: Science Fiction Foundation Collection, University of Liverpool Library www.sfhub.ac.uk/

The life and works of Olaf Stapledon, showing (among others) his service with the Friends Ambulance unit during WW1, the composition of *LAST AND FIRST MEN* (1930) [reproducing the hand-drawn timelines Stapledon prepared for the novel], talks given by Stapledon (including his address to the British Interplanetary Society in 1948), and reproductions of book covers.



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77. Science Fiction and Fantasy Writers in the Great War

www.fantastic-writers-and-the-great-war.com

Sponsored by the Science Fiction Foundation

This ten-banner exhibit is a memorial to 89 writers of science fiction and fantasy who became involved in the First World War. Some were soldiers, sailors or airmen, and others engaged as nurses, ambulance drivers, spies, propagandists, or conscientious objectors. The display shows their experience chronologically, from 1914 to 1918 and beyond; the website on which it is based, www.fantastic-writers-and-the-great-war.com, treats the story author by author.

78. The Religious Society of Friends

Exhibitors: The Religious Society of Friends www.quaker.org.uk/news/white-feather-diaries

These banners describe the work of the Religious Society of Friends before and during the First World War. The final banner tells of the Friends Ambulance Unit, an auxiliary arm of the Friends Service Council. The Science Fiction writer Olaf Stapledon was a serving member of the FAU.

79. 50 Photos for 50 Years of Doctor Who

Exhibitors: Sarah Groenewegen
nyssa1968.blogspot.co.uk/

Last year saw many celebrations of Doctor Who's 50th anniversary, both official and fan. This exhibit shows a selection of 50 photos of locations from the series taken by a fan, mostly around London but some further afield. The photos are annotated with vignettes about the location and how it featured in the series.

80. Manufactured Britishness

Exhibitors: Kristina Cranfeld, Royal College of Art
www.kristinacranfeld.co.uk

What is the future of citizenship in Britain and what new rules will be proposed for immigrants to become citizens? Manufactured Britishness is a project derived from the compulsory, and very real, Life in the UK test, which examines skills for integrating into British society. The project critically explores the assessment program contrived by Britain for testing citizenship by proposing a future manifestation of the Life in the UK test. In this future, we see immigrants as an exploitable material, a living currency, compelled to sustain national identity in order to maximise capitalistic agendas. At what point does one 'become' British? What are the criteria and who makes the final decision?

81. Brian Aldiss OBE

Exhibitors: Brian Aldiss OBE
brianaldiss.co.uk/

A digital display of Brian Aldiss' book covers from the past 40 years, with commentaries.

82. Molly Brown

Exhibitors: Molly Brown

BSFA Award-winning author Molly Brown started making films about three years ago. Since then her short films have been screened at international festivals in the U.K., Germany, Austria, and the U.S. A selection of her short films and animations will be shown on a loop.

Flexible Space Schedule

Thursday	Proxomics Project	All day
Friday	Proxomics Project	All day
Saturday	Proxomics Project	All day
	Darwin's Pigeons	12 - 2 pm
	Fan/Pro Gallery Photography	2 - 5 pm
Sunday [Hall Costume Day!]	Hall Costume Day photography session	10 am - 12 pm
	Wiggly Wild Show	10 am - 12 pm
	Art Auction	2 - 4 pm
	Tiptree Auction	4:30 - 5:30 pm
	Fan/Pro Gallery Photography	10 am - 12 pm
Monday	End-of-convention Fire Sale	12 - 2 pm

Exhibits/Events in the Flexible Space

Darwin's Pigeons

A live display of nine (real! live!) fancy pigeons in individual cages from the keeper of darwinspigeons.com

End-of-convention Fire Sale

Could you use a mannequin, a mirror, or decorative banner? These are the sorts of things which Loncon 3 will be selling off during the convention for collection on the Monday. They're the odds and ends which were easier to buy than rent, and they'll all need a good home. Before the sale, you can purchase goods for Monday collection through Ops, based in the Ops Yurt in Hospitality.

Fan/Pro Gallery Photography

Fans are invited to be photographed for the fan photo gallery, whether as a new addition or to update an older photo already in the collection.

Hall Costume Day Photography Session

Come show off your hall costume! Cosplayers, costumers, and anyone dressed up specially for the day are invited to gather for a photo session.

Proxomics Project - Tractor beams and microchips: building tiny tools to study single cells

Exhibitors: Proxomics

The Proxomics Project (<http://www.proxomics.ac.uk/>) will be demonstrating a table-top-sized optical trapping rig, a demo mass spectrometer, and some movies of some of the equipment they're developing and their applications.

The tools developed in biochemical laboratories over the last fifty years have led to great discoveries about the function of cells and the machinery that makes them up. However, they encounter serious problems when working with the differences between neighbouring cells, differences which can have huge impacts in aging and in diseases like cancer. In order to probe these differences, a new toolkit is required: one that can manipulate individual cells or even individual components of cells, providing quantitative insights into their function.

At the Proxomics group at Imperial College, Aston University and the University of Glasgow, we have developed a range of instruments and techniques to allow such fine control: letting us look under the bonnet of single cells of interest, one at a time. These range from single-molecule fluorescence counters to some of the world's most sensitive scales, and from in-plane ultrasonic acoustics to holographic tractor beams for cell control and manipulation. Come to our demo stand to try your hand on these cutting-edge instruments, and meet the researchers developing the healthcare tools of tomorrow.



The Wiggly Wild Show

Exhibitors: Cairis Hickey www.wigglywildshow.co.uk/

See the animals inspiring aliens over the ages. Tailless whip scorpion, UV-glowing emperor scorpion, beetles in varying life stages, giant millipedes, praying mantis, snails, stick insects & more! What are you brave enough to hold? This display includes live animals/insects.

