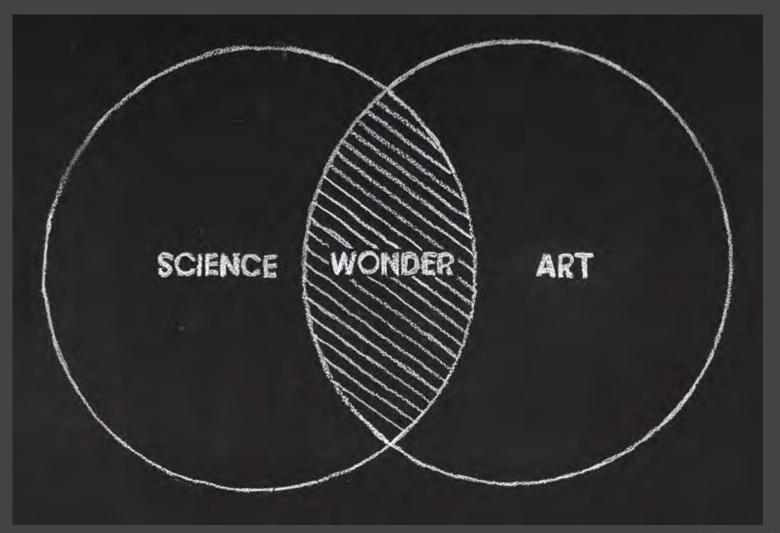
Dr. James Howie

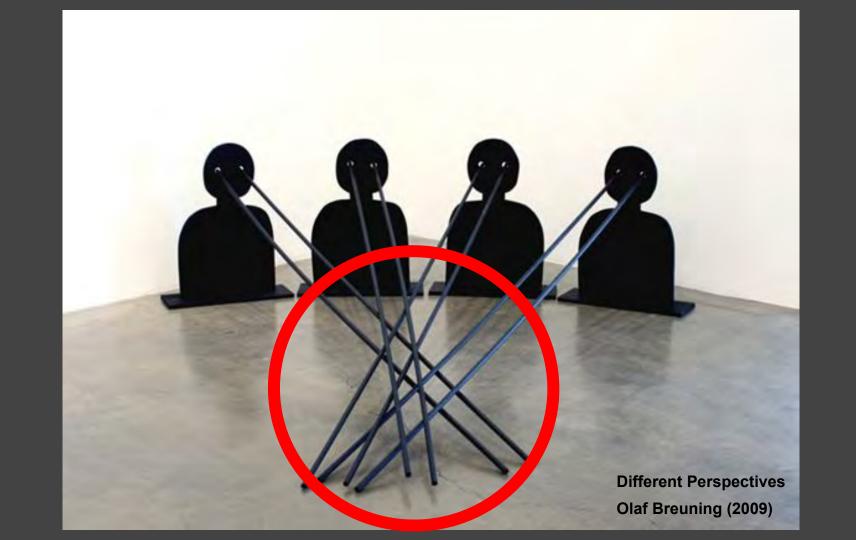
Beyond Academia: a life in art & science



1. Why (and what is) ASCUS ASCUS ART & SCIENCE



Different Perspectives Olaf Breuning (2009)



ART & SCIENCE

Bridging the gap between the arts and sciences

Choraid planus







CONNECT ARTISTS, SCIENTISTS & PUBLIC

ENGAGE NEW AND WIDER AUDIENCES



FOSTER UNCONVENTIONAL & CREATIVE THINKING

FACILITATE EXCHANGE OF IDEAS



SUPPORT COLLABORATION

ENCOURAGE DISCUSSION & DEBATE



PROVIDE ACCESS TO RESEARCH FOR NON-SCIENTISTS

ART-SCIENCE RESIDENCIES

ART-SCIENCE EXHIBITIONS





'ARTISTS ARE PRESENT'



ART & SCIENCE WORKSHOPS



SKILLS TRAINING & COURSES



PUBLIC LAB



INDEPENDENT LAB PROJECTS



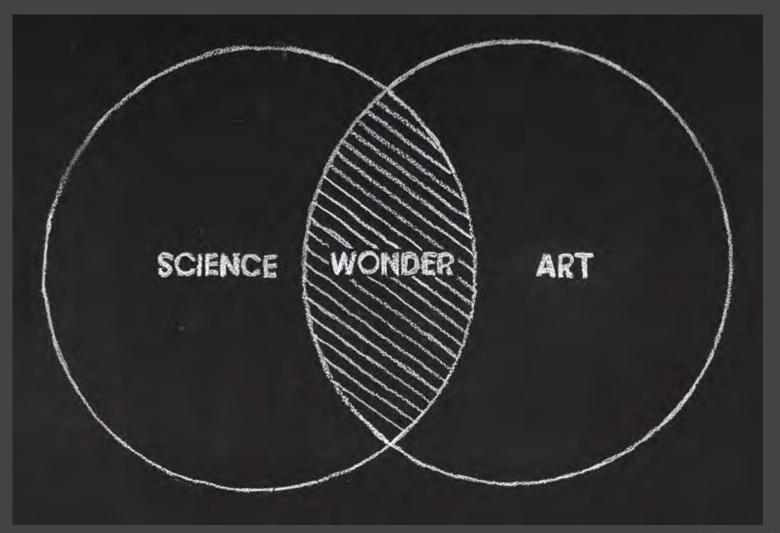


2. Who is this guy



























SCIENCE OF THE ENVIRONMENT





























4. ASCUS is born





A COMPLETE WHACKEROO AFTER ALL

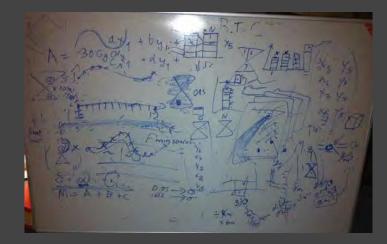
MAY BE YOU JUST LIKE TO THINK ABOUT ART AND SCIENCE AND ARE INSPIRED BY HOW THEY MIGHT INTERSECT IN STRANGE, BEAUTIFUL, AND THOUGHT-PROVOKING WAYS EXPLORE THE ART-SCIENCE INTERSECTION



5. PhD Life + ASCUS

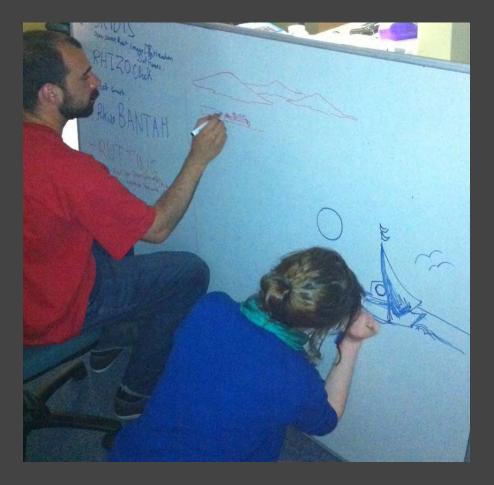






5. More than just scientists?



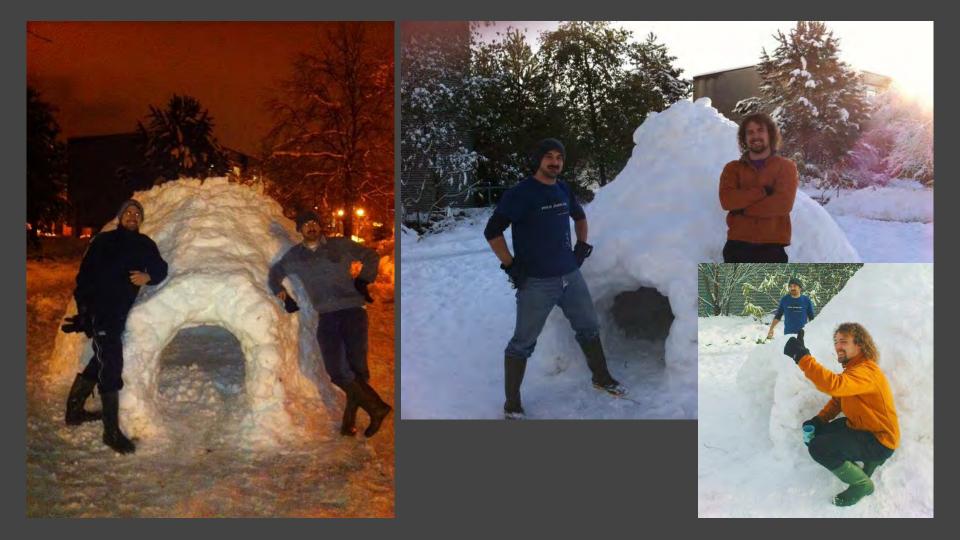


6. PhD + ASCUS checkin









7. Final results (PhD.)





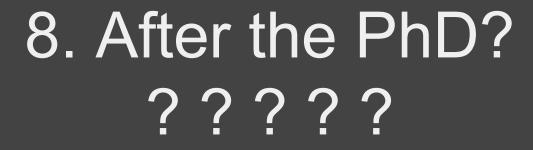














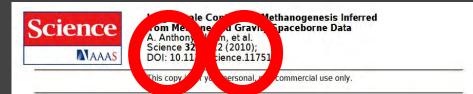












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2010

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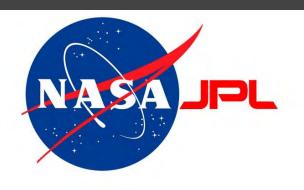
on January

ag.org

Brochures

Supporting Online Material can be found at: http://www.sciencemag.org/cgi/content/full/327/5963/322/DC1

This article appears in the following **subject collections**: Atmospheric Science http://www.sciencemag.org/cgi/collection/atmos



Jet Propulsion Laboratory + View the NASA Portal NASA California Institute of Technology JPL HOME EARTH SOLAR SYSTEM **STARS & GALAXIES** SCIENCE & TECHNOLOGY JPL Science JPL Science Division Home Carbon Cycle And Ecosystems (329G): People Anthony Bloom The terrestrial biosphere is a fascinating vet poorly resolved component of the Earth's carbon cycle. My primary interests are to resolve global-scale terrestrial carbon cycle processes and their influence on carbon exchanges between the Center for Climate Sciences (3292) atmosphere and the terrestrial biosphere. My PhD Earth Surface And Interior (329A) focus was to quantify biospheric CH4 emissions based on satellite datasets of atmospheric CH4, Ocean Circulation And Air Sea gravity and leaf area. In my current research I am Interaction (3298) using models of the carbon cycle and satellite Address: Sea Level And Ice (329C) datasets to quantify CO2 and CH4 emissions from Jet Propulsion Laboratory wetlands and tropical fires, and the broader Stratosphere And Upper terrestrial biosphere. d0 Oak Gh Troposphere (329D) Pasadena, CA Atmospheric Physics And Weather Education Phone: (329E) (818) 354-5952 · PhD, Satellite-Based Estimation of Global Terrestrial Hydrology (329F) Email Contact Biogenic Methane Emissions, University of Edinburgh (UK) (2011) Carbon Cycle And Ecosystems (329G) . MRes. Physics of the Earth and Vitae Atmosphere, University of Leeds (UK) (2007) Click here People · MSci, Earth and Space Science, University College London (UK) (2006) Projects (818) Laboratory Studies And Research Interests Atmospheric Observations (329H) · Wetlands and the global CH4 budget Tropospheric Composition (329I) · Biomass burning CH4, CO and CO2 emissions 354-· Terrestrial carbon cycling Aerosols And Clouds (329J) 5952 Professional Experience · Research Scientist at JPL, (2016 - present) Open Postdoc Positions · Caltech Postdoctoral Scholar at JPL, (2014 - 2016)

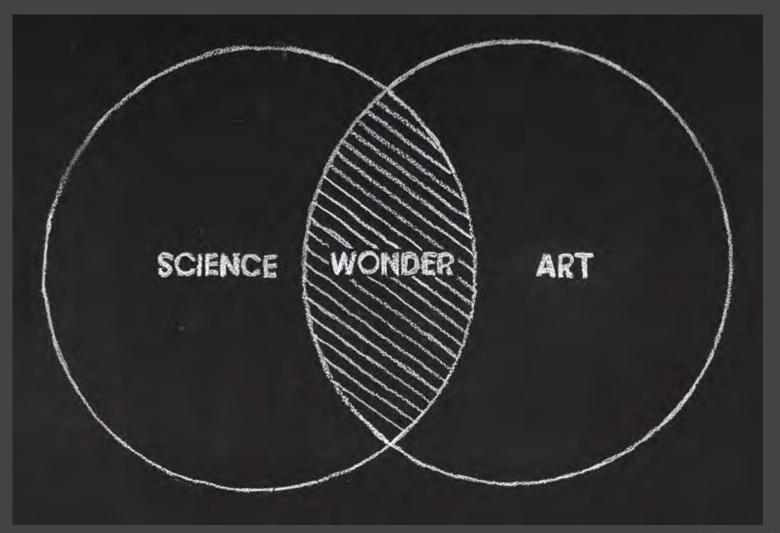
 Post-Doctoral Research Associate in Terrestrial Carbon Cycling. University of Edinburgh (UK). (2011-2014)

9. ASCUS Art & Science















TED^x UniversityofEdinburgh



11. Personal development









12. Staff and Community





FORMER ASCUS TEAM





ASCUS Lab Technician/

Ksenija Jackevica

Marketing and PR

Assistant Intern



Ceclie Menard

Claire Waugh

Development Intern

Business

Barbara Melville **ASCUS Literature** Co-ordinator







Diego Almazán **ASCUS Marketing and** ASCUS Audio Visual **Public Relations** Intern Intern



Emily Grieve Bridget Steed **ASCUS Events** Assistant



Paul Parrish

Julia Malle

ASCUS Co-Founder



Melanie Dutton

Betsy Davis

ASCUS Cabinets

Curator

Christine Ratcliffe

Inbal Drue

Sara Frizzell

Former ASCUS Intern











Stephan Matthiesen

Emily Workman

Former Assistant Manager

Andrew Ormston



Hamer Dodds

Chris Cottrell

FORMER CONTRIBUTORS





Erin Letovsky

Iain Woodhouse Lynette Robertson

Former Directors







Sheona Burrow Director

13. Artist Residencies



STRATHCLYDE - CHAMBERLIN LAB





Amy Pickles

Aaron Jeffrey

Amy Pickles is an artist focused dancer actively working in cross on the physical language of social roles we assume and the to create new work.



Cheryl Field

Cheryl Field is an object maker. prencoupled with investigating mythology in contemporary www.cheryfield.com



Dave House driven to explore pattern.



Charlle Knox

transformation of data into

David Lemm David Lemm is an artist diagrammatic sesthetics and ambiguous graphic elements, to create rhetorical works which suggest potential narrative and



Fraser Ross

Jane McKle

by collaboration across

Jane McKie is a writer motivated

disciplines who teaches poetry

www.scottishpoetrylibrary.org.u

interested in human interactions and sustainable materials, inspired by botanical



Roos Dlikhulzen

with sculpture to create works based on our notions of natures' activities, and the forms we use to rationalise them.

UNIVERSITY OF DUNDEE - ATOPIC ART

Beverley Hood

ruration and collidionestic tighteenly lianed in Educatings: He graduated from the Environme where he are attended in extrange senses at Salarts, California, from 2013-15, he arrest in M



Lynne McBride and digital artist interested in utilising the human body to lynneashleymcbride.dunked.co

- CIIE



combar of private collections. Dayle web I/w economical a Creative Spectred Artists Bursary a

and equiversatively with yackeen scales and processes. Dople works in an extension range of though variables to the nal work, with a particular ensures on experimental printmaking processes.



Anne Milne



Jo Hodges and Robble Coleman

Interventions, simile based pieces, exhibitions and performance. Hodges has expliced with The Gallery of Michaen Art, Glasgime, The National Michaeum of Scotland and The National Persyan Gallery in London. international arts projects in a variety of mentia including live art, scyloture, installation and film.



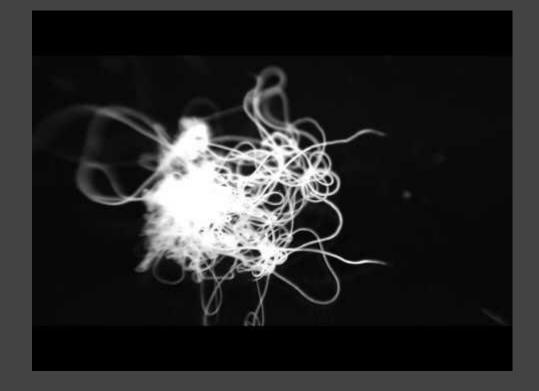
UNIVERSITY OF EDINBURGH



MENAGERIE OF MICROBES

AN EXHIBITION OF WORKS BY ARTISTS, DESIDNERS AND SCIENTISTS Exploring the cultural historics, culleting behaviours and speculative possibilities of Bacteria, sume mould and funci





Video by Anne Milne



14. ASCUS Lab



A R T & S C I E N C E

...a shared space for researchers, artists and members of the public





wellcome





BRITISH SCIENCE ASSOCIATION

"Science is too important, valuable and fascinating to be left to professional scientists alone. For the good of society, the public, and scientific progress itself, science needs a broader community," Imran Khan, Chief Executive of the BSA (December 2015): *Current: Head of Public* Engagement at the Wellcome Trust



EX-RESEARCH LAB EQUIPMENT FROM ACROSS EDINBURGH































CURRENT BOARD MEMBERS







Lucy Stewart Patrick Hickey ASCUS Lab co-founder Summerhall



Mar Carmena Senior Research Centre for Cell Biology.

Edinburgh



Karen Halliday Sarah Roberts Reader in Genetics. Independent Artist



Mark Blaxter

John Mullins for Cardiovascular

Alistair Elfick

Edinburgh



Brian Cameron David Carmel MBE School of GeoSciences Edinburgh



Jane Haley Jane McKie Coordinator, University



Chris Speed

Johanna Holtan Claire Hills Talbot Rice Gallery



Alistair Grant

Dean Hughes

Harry Whalley

David Price

Developmental

Sophia Lycouris Graduate Research

School, ECA, University

Edinburgh





Gina Browse David Faithful Health and Safety Manager, School of Edinburgh



Rory Duncan Bioengineering, Heriot-Watt University





Joyce Tait, CBE, FRSE Janine Matheson Director, Innogen **Director Creative**





Jim Scobbie Jordanstone College or

Jane Calvert Reader in Science

Oron Catts

Western Australia

FORMER BOARD MEMBERS





The main three areas of focus of our lab facility...

MICROSCOPY

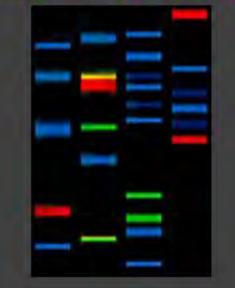


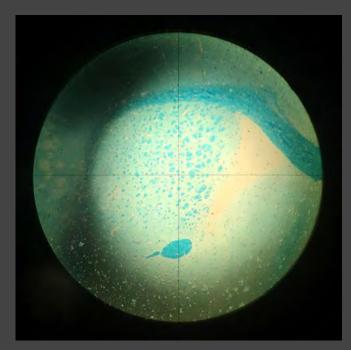
MICROBIOLOGY



ASCUS LAB

DNA ANALYSES & GENETIC MODIFICATION





"I'm not sure there's any way to describe spending a rainy afternoon primarily looking at mouse brains that comes close to conveying how fascinating it actually was! Thanks to ASCUS for arranging it." - Rachael, member of public

Check Cells - Comic Strip per cells of your need a microsof when you they so that is how not of my month to see them. Took nuge forming scientists know how they look: Did Thank of about cheek See! Sophie 17/02/16 "So that is how scientists know how they look"



15. Partners









Images courtesy of eXXpedition













Gumption girls

I'm not ready for this job yet...?<u>?!</u>

Dr. Carla Brown











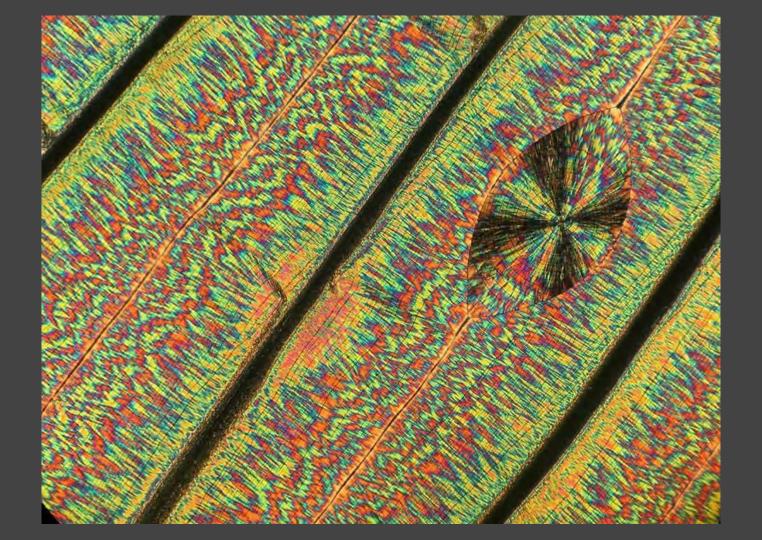
16. ASCUS Lab Community



Waad AlBawardi

_primordialsoup





SITE GALLERY

HAT'S ON - VISIT US - PROJECTS - ABOUT - NEWS

Artists

Liquid Crystal Display

EXHIBITION . 29 SEP 2018 - 27 JAN 2019

MORE INFO

Waad AlBawardi; Lise Autogena & Joshua Portway; Ralf Baecker; Anna Barham; Karen David; The Crystal World (Jonathan Kemp, Martin Howse, Ryan Jordan); Liliane Lijn; Ann Lislegaard; Penny McCarthy; The Otolith Group; Mungo Ponton; Eva Rothschild; Ruskin Collection; Shimabuku; Kiki Smith; Suzanne Treister; Jennifer West. Curated by Laura Sillars with Angelica Sule.

Q

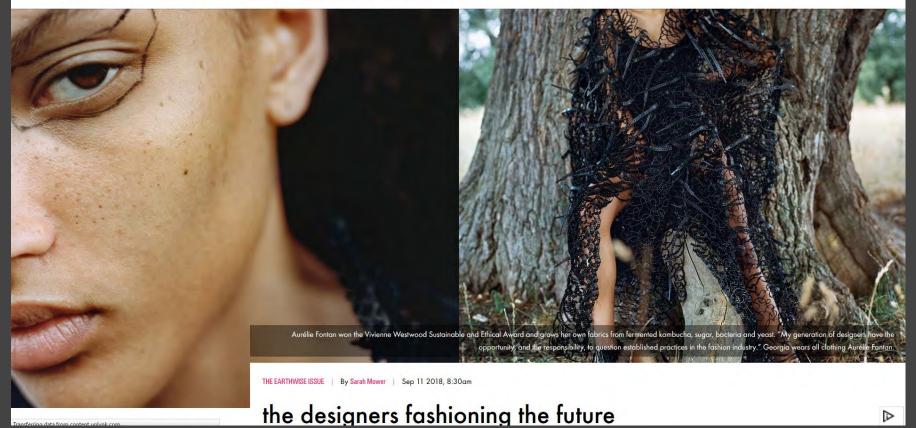


Aurélie Fontan



= i-D news fashion culture photography music beauty think pieces straight ups podcast







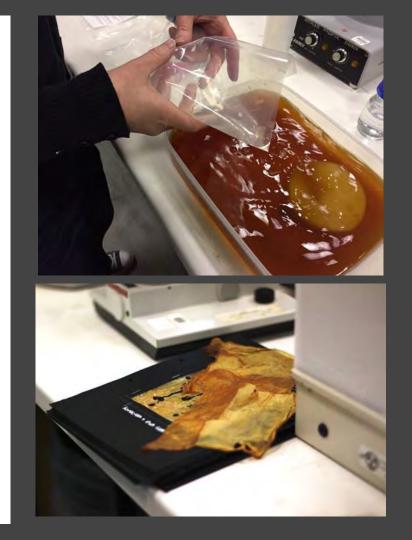
aureliefontan.design



















ELLE magazine

1) Aurélie Fontan, Edinburgh College of Art. Winner of the Dame Vivienne Westwood Sustainable & Ethical Award, M&S Womenswear Award and the Catwalk Textiles Award

mage:https://www.scottishwomanmagazine.com 2018/09/11/science-meets-fashion/15-aurelie-fo itan-399/

Fext:https://www.elle.com/uk/fashion/a21264649 graduate-fashion-week-designers-to-keep-an-ey e-on/

Dr Máté Ravasz



United Arab Emirates

وكالة الإمارات للفضاء UAE SPACE AGENCY



Iona Walker



Beyond Resistance



17. University Collaborations

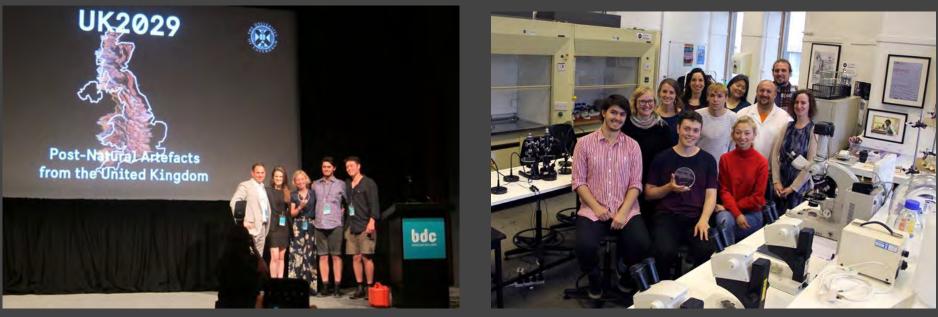














19. Artists in ASCUS Lab





Louise MacKenzie







Beverley Hood

20. Public Engagement Workshops



Drawing the Mind

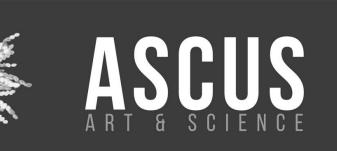


Ana Rondelli Jemma Pilcher Anna Mikelsone









Rebecca, Teo, Manolis









21. So what's next... for ASCUS... and this guy?



Ua central saint martins



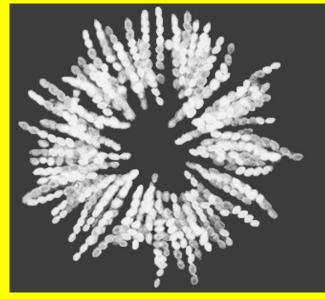
Heather Barnett creates art by letting slime mold do its thing. Photo: James Duncan Davidson





Designing Tuesday 4 July 2017 \$-30pm Control Saint Martins Platform Theatra

Closing by Professor Jeremy Till, Head of Central Saint Martins, Pro Vice-Chancellor, University of the Arts London



ART & SCIENCE CELEBRATING 10 YEARS 2008-2018

DR JAMES HOWIE - MANAGING DIRECTOR

- MANAGER

DR JIRI JIROUT - LAB TECHNICIAN



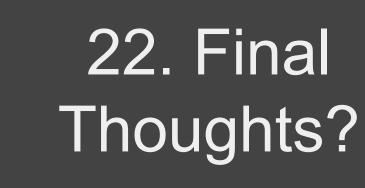
- PROJECTS ADMINISTRATOR

MIRIAM WALSH

DR JIRI JIROUT - LAB TECHNICIAN



http://hdqwalls.com/rick-sanchez-artwork-wallpaper Published on April 16, 2018 | Original Resolution: <u>3840x2160</u> | Author : <u>andresilver</u>













20 September - TONIGHT!

19:00 - 23:00 Ticket prices: £5 InterSci members* £7 non-InterSci members £8 on the door

All of the money raised on the night will go towards a second Art & Science on a postcard event hosted by InterSci and ASCUS lab!







ART & SCIENCE CELEBRATING 10 YEARS 2008-2018





