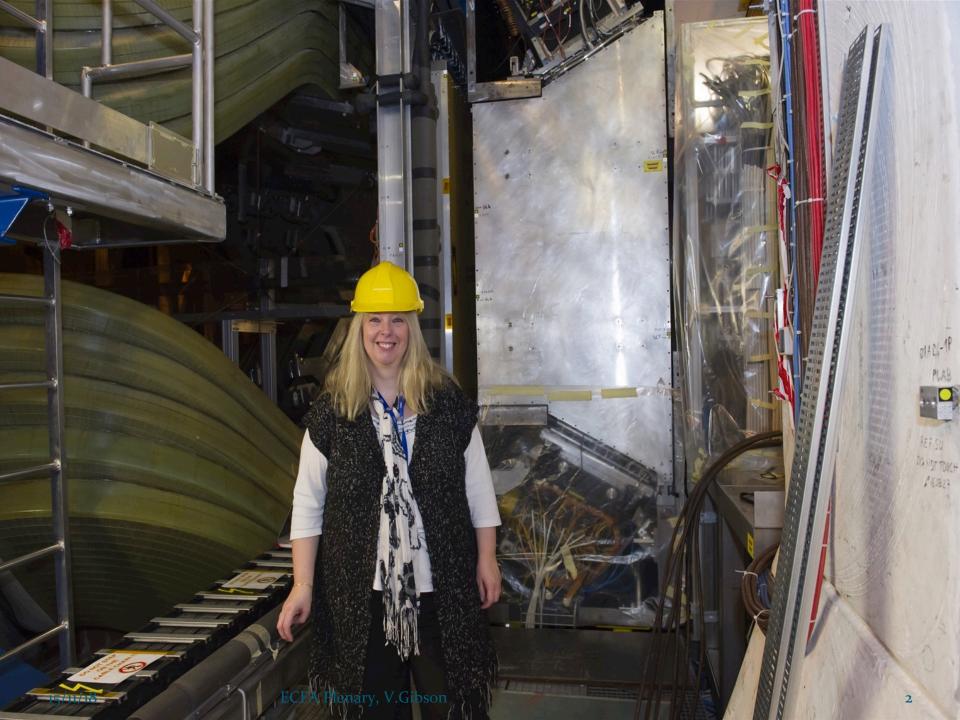
Prof. Valerie Gibson University of Cambridge, UK





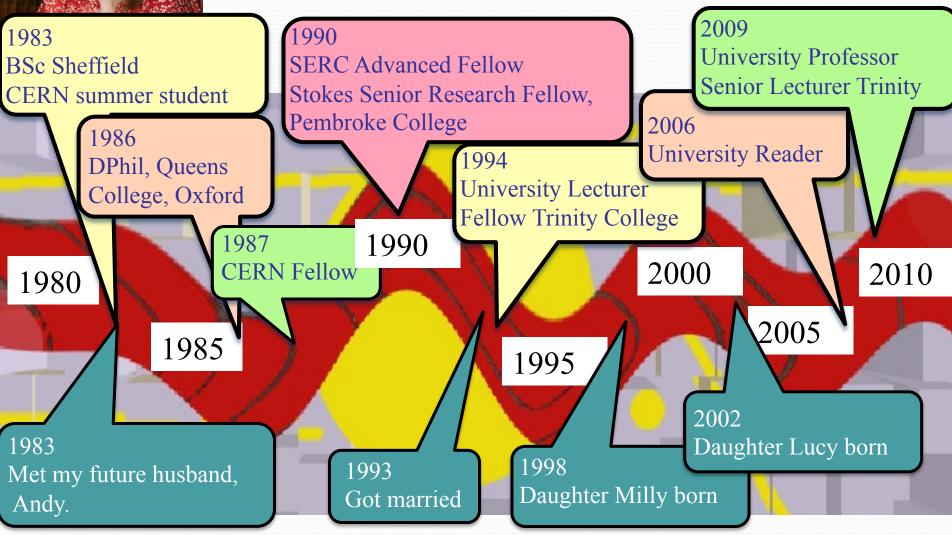












My Greatest Personal Achievement



Royal Society conference on Research Culture: changing expectations:

https://royalsociety.org/science-events-and-lectures/2018/10/

research-culture-conference/

https://royalsociety.org/

topics-policy/projects/research-culture/



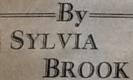
Evidence-led approach

e.g. Nuffield Council report on the culture of scientific research









TS official title is the British Association for the Advancement of Science, abil reverent members of the public riefly call it "the British Ass," How right are they? For over week-ending, thank goodness, toy-at Leicester the distinguished

in our minds-the fear of another war - and

soon? The scientists this year have given us a few really practical and interesting ideas; for example, the psychology of the small child (every parent is

cts and on the

g, even or ner existence. Professor Valentine exposed the

every

childbirth safe and comparatively painless drive away fear from the minds of pective mothers. This is a vital and and

scientista Why have they given some helpful formation, about the u and abuses sunlight? seems to me t

despite brillant sumr we are still the dark on increasir



Research Culture

Social behaviours and normalities associated with valued systems:

Liberal democracy: respect for each other and the rule of law, equality, diversity, inclusion, tolerance, freedom of speech and personal autonomy.

Research: openness, respect, curiosity coupled with skepticism, rigorous methodology, reproducibility and openness to challenge.

All have responsibility to uphold these values.

Research Challenges

Competitive environment

Individual rewards, jobs, promotions, prizes

Grant and report writing

Misconduct

- Non-reproducible findings, data dredging, failure to share data
- Bullying & harassment

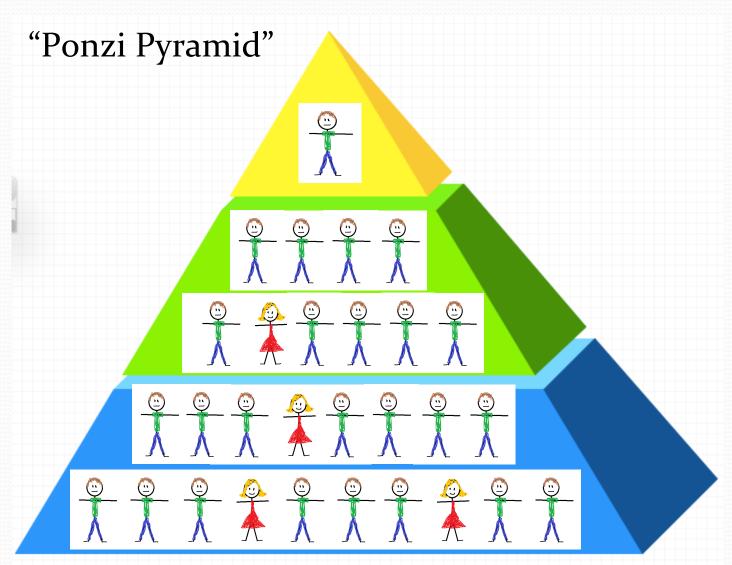
Pressure to publish

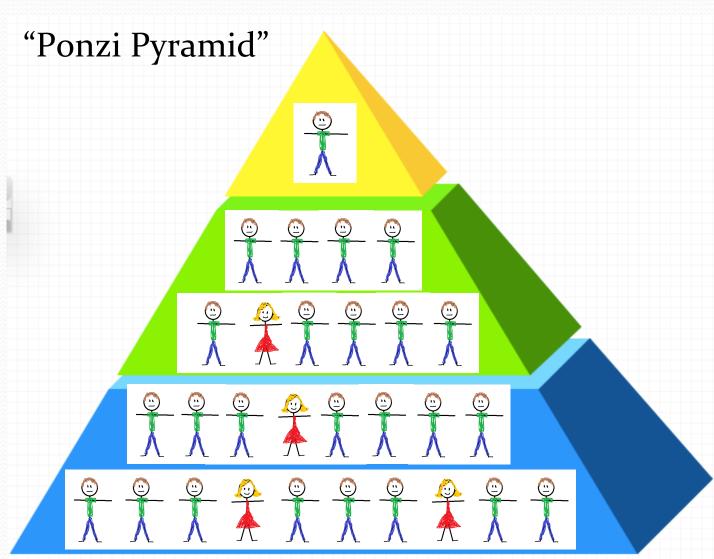
- In prestigious journals
- New & exciting results rather than state of knowledge.

Lack of diversity, full breadth of talent

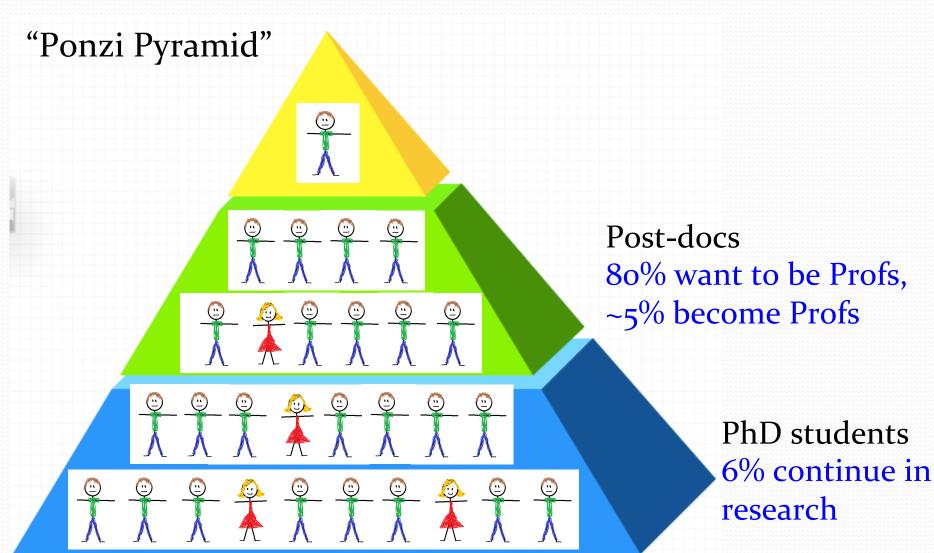
Inadequate mentoring & support

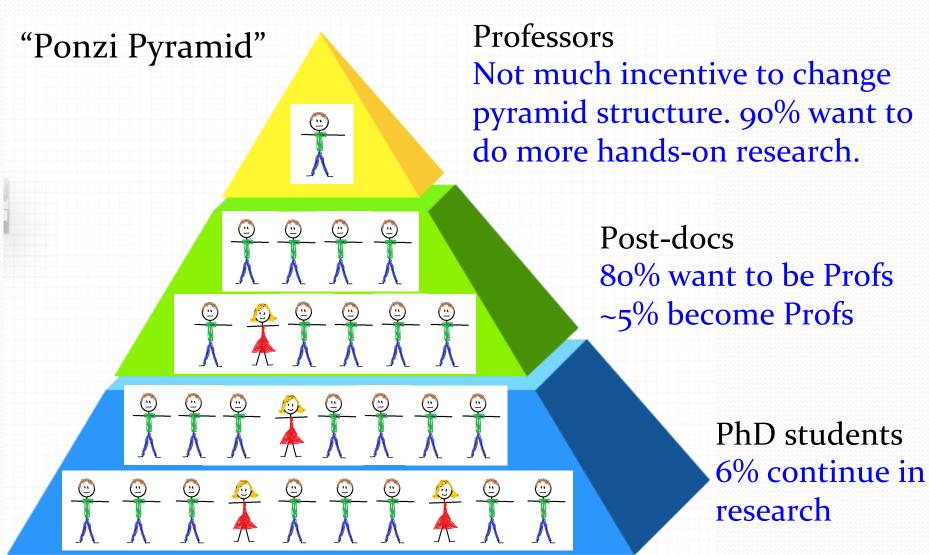
Narrow view of "What is Success?"





PhD students 6% continue in research





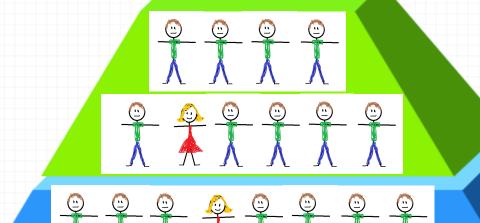
"Ponzi Pyramid"

Gender imbalance Lack of diversity

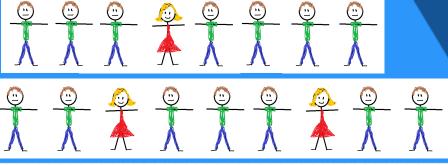


Professors

Not much incentive to change pyramid structure. 90% want to do more hands-on research.

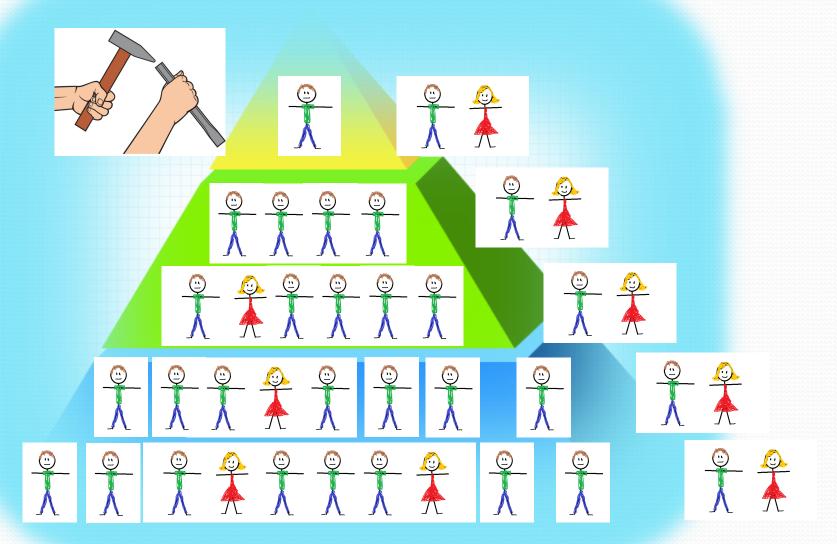


Post-docs 80% want to be Profs ~5% become Profs



PhD students 6% continue in research

Blurring the Pyramid



Blurring the Pyramid

- PhD students: "Centre for Doctoral Training" model, taught by many, interdisciplinary, transferrable skills training, industrial placements.
- Post-docs & technical staff: Remove "class structure".
 Allow 20% time to develop own activities, opportunity to change direction, longer contracts, secondments to other institutes, industry etc.
- Profs: Technical & admin support to allow time for research, mentoring, sabbaticals/secondments etc.

Expose all to success/role models outside academia – bring back alumni and develop external networks.

Collaboration

Science research is a creative enterprise, which thrives on both collaboration and competition.

Competition: Limit in a reasonable way, otherwise leads to stress, anxiety and insecurity.

Collaboration: Evidence supports individual thought and collaborative discussion from a diverse team leads to best outcomes.





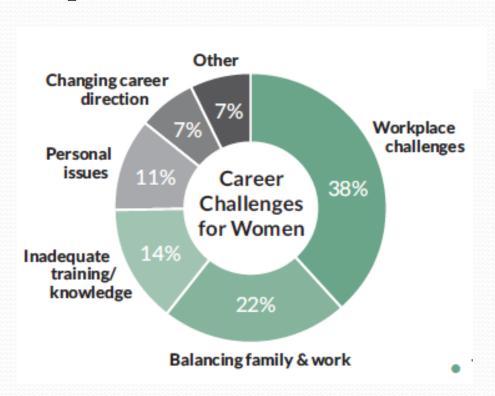


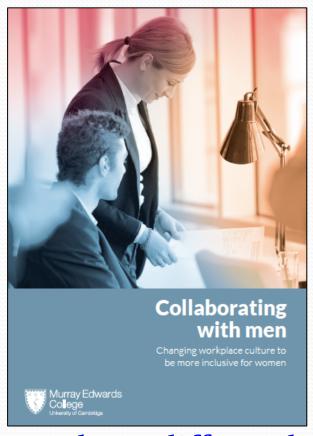
15/11/18

ECFA Plenary, V.Gibson

Collaboration

The "Collaborating with Men" project investigates how the workplace culture can be more inclusive.





Men and women experience workplace culture differently.

Pilot survey (2017, 300 respondents, 67% women)

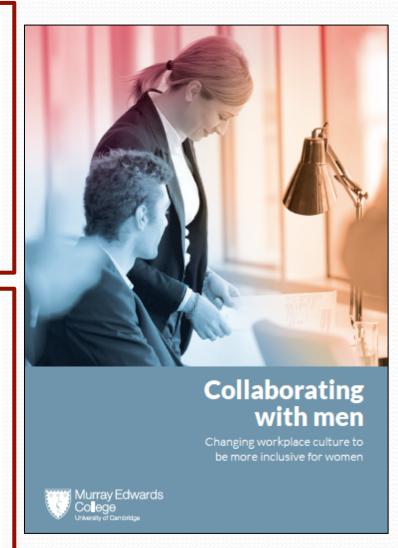
75%

Senior women concerned about male dominated informal networks

81% of men reported they had not noticed the issue

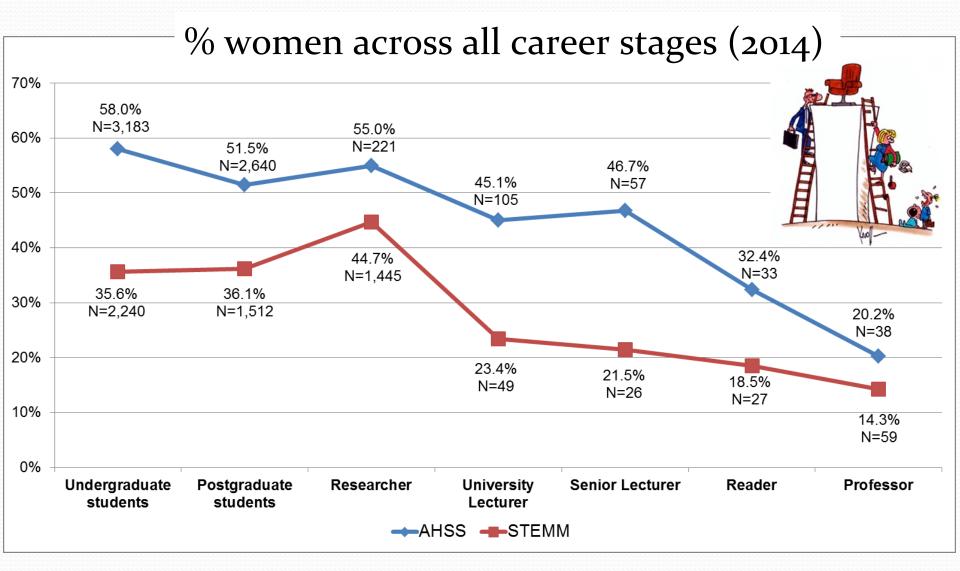
32%
of women
reported they had
been interrupted
in meetings

80%
of men
reported they
had not
noticed the
issue



Gender Equality



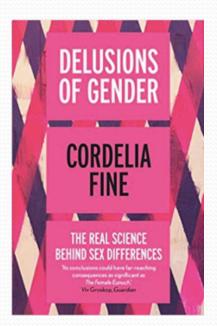


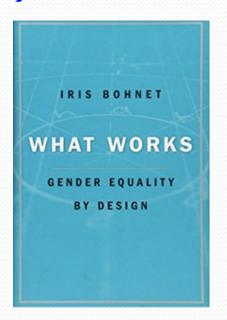
Gender Equality

Factors disproportionally influencing retention of women in science:

- Uncertain career path
- Bullying & harassment
- Imposter syndrome
- Unconscious bias
- Maternity leave & childcare







Gender Equality

Also matters to men....

70%

of men believe that a more equal society between men and women will be better for the economy

2016 Fawcett Society, nat. rep. sample of 4,000 men¹²

39%

of men believe that greater gender equality would be better for them personally

2016 Fawcett Society, nat. rep. sample of 4,000 men¹²

More than half

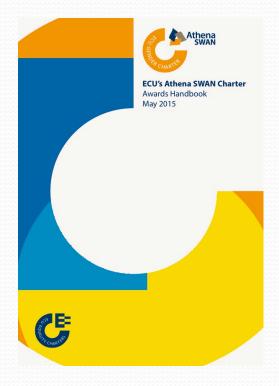
of (usually) male CEOs saw gender diversity as a top 10 item on their strategic agenda

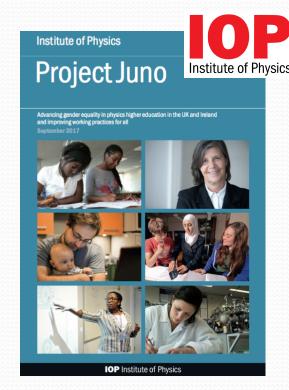
2012 McKinsey and Company's survey of 235 large European companies²

UK Equality Schemes

Athena SWAN & Project Juno Charters introduced in 2005 & 2007 to address the attraction and retention of women in

science.





http://www.ecu.ac.uk/equality-charters/athena-swan/ http://www.iop.org/policy/diversity/initiatives/juno/index.html

6 Juno Principles

- [1] A robust organizational framework to deliver equality of opportunity and reward.
- [2] Appointment and selection processes and procedures that encourage men and women to apply for academic posts at all levels.
- [3] Departmental structures and systems that support and encourage the career progression and promotion of all staff and enable men and women to progress and continue in their careers.

6 Juno Principles

- [4] Departmental organisation, structure, management arrangements and culture that are open, inclusive and transparent and encourage the participation of all staff.
- [5] Flexible approaches and provisions that enable individuals, at all career and life stages, to optimise their contribution to their department, institution and to SET.
- [6] An environment where professional conduct is embedded into departmental culture and behaviour



Launched 2017





Breaking the Silence

A cultural change programme to address sexual misconduct and harassment focussing on prevention, reporting and supporting students and staff.

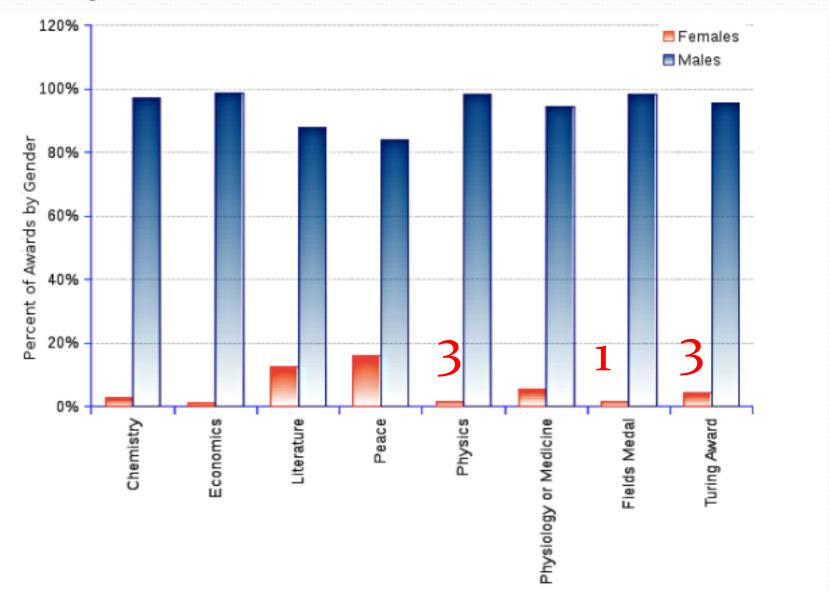
- foster a zero-tolerance culture free from coercive behaviour, harassment and sexual misconduct
- provide support and guidance to members of the University affected by sexual misconduct
- streamline procedures **handling allegations** of harassment and sexual misconduct between students and employees
- Training and development for staff and students

Reward vs Award

A "reward" is an incentive or compensation for doing something, e.g., money given for capturing a criminal, an iPhone for getting good grades.

An "award" is a prize or other recognition given in honor of an achievement, e.g., a trophy, a medal, a scholarship.

Major Awards (Nobel, Fields, Turing)



Reward

An opportunity to recognise the individual or collective contributions of others

Collaborative skills

Mentoring & support

Communication skills

Sustained technical support

I look forward to hearing the results of the ECFA survey on reward and hope that the community will...

I look forward to hearing the results of the ECFA survey on reward and hope that the community will...

• Introduce "Team Rewards" that feed intrinsic motivation to do research (e.g. time, contract extension, sabbaticals, travel).

I look forward to hearing the results of the ECFA survey on reward and hope that the community will...

- Introduce "Team Rewards" that feed intrinsic motivation to do research (e.g. time, contract extension, sabbaticals, travel).
- Keep the "Research Culture" discussion alive.
 European Strategy for Particle Physics 2020 & Strategy to address Research Culture

Thank you

In memory of a great colleague and friend...



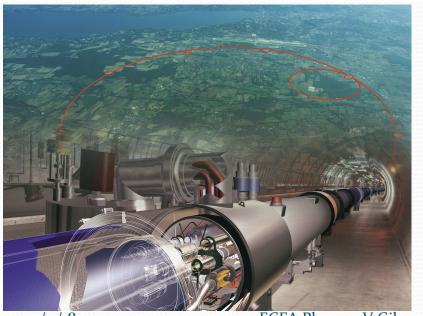
Prof. James Stirling CBE FRS

A snapshot of my work

The Cavendish Laboratory

Head of High Energy Physics Lecturer, final year projects, Examiner...







CERN

The Large Hadron Collider (LHCb)
Matter- antimatter asymmetries
Search for New Physics
Chair of Collaboration Board

15/11/18 ECFA Plenary, V.Gibson

A snapshot of my work

Trinity College

Senior Woman Fellow
Director of Studies
Admissions Officer
Undergraduate Supervisor



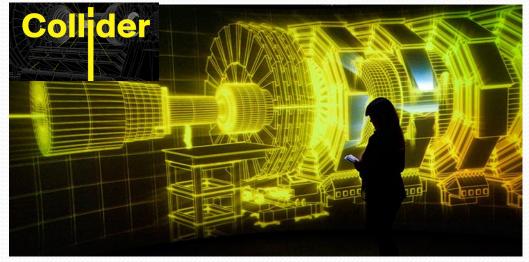


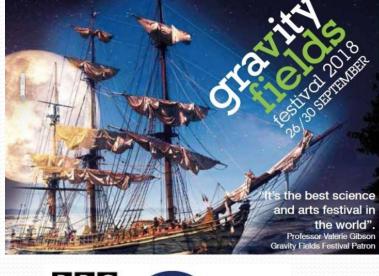
Equality & Diversity

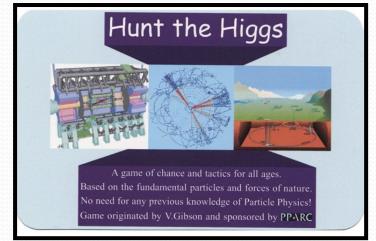
University Gender Equality Champion Chair Institute of Physics Juno panel

A few fun things...











www.hep.phy.cam.ac.uk/mc/higgs.html www.boardgamegeek.com.ac.uk/mc/higgs.html

Project Juno

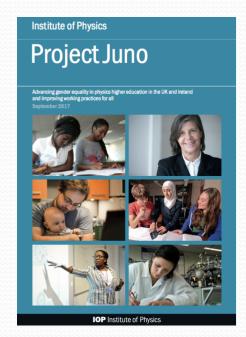
Project Juno recognises and rewards physics departments, institutes and organisations that Institute of Physics demonstrate they have taken action to

address gender equality in physics and encourage best

practice for all staff and students.

Diversity team, Institute of Physics 76 Portland Place London **W1B 1NT**

+44(0)20 7470 4800 diversity@iop.org / juno@iop.org



http://www.iop.org/policy/diversity/initiatives/juno/index.html

15/11/18

Project Juno – the last 10 years

Project Juno always evolves to meet the needs of the community.

Droject June Jounghod with - principles

2007	Project Juno launched with 5 principles
2008	First Juno Champion awards
2010	Practitioner level introduced to provide a step towards Champion
2013	Juno evaluated and positive benefits reflected back to IoP
2015	Extended Juno to research institutes and other organisations, such as NPL
2016	Champion site visits introduced in renewal process
2017	Introduced Principle 6 and Juno Excellence

6 Juno Principles

- [1] A robust organizational framework to deliver equality of opportunity and reward.
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- [6] An environment where professional conduct is embedded into departmental culture and behaviour

Juno Awards

Supporter

Institute of Physics
Juno Supporter

Start the Juno journey by endorsing the 6 principles and make a commitment to work towards Practitioner and Champion.

Practitioner

Institute of Physics
June Practitioner

Demonstrate that the Juno journey is well underway. Evidence is gathered and an initial action plan demonstrates how the department aims to achieve Champion.

Champion

Institute of Physics

Demonstrate that the 6 principles are embedded throughout the department. Further evidence is gathered and the action plan demonstrates how the department will continue to further good practice.

Benefits of Juno

Juno enables departments to develop an equitable working culture for all.

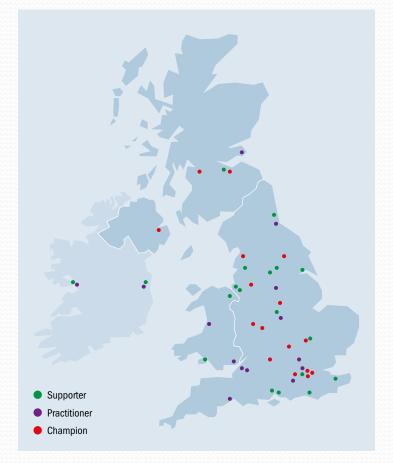
- Run "By Physicists for Physicists"
- Juno panel members published
- Panel interacts with Juno contacts and departments
- Site visits with comprehensive feedback
- Buddying /mentoring system with nearby departments
- IoP provides access to benchmarking data, networking etc
- It is reciprocal with the UKS's Athena SWAN Charter at Practioner (bronze) and Champion (Silver)

Juno is more than an awards scheme; it acts as a peer support network for physicists wishing to address gender equality.

Juno Status

- 58 departments offering undergraduate physics in the UK
 & Ireland
- Juno started with 19 supporters in 2008
- 54 currently engaged with Juno

Status	2010	2013	2018
Supporters	21	20	19
Practitioners	7	14	16
Champions	3	7	19
Total	31	41	54



Juno Excellence

Launched 2017

- To encourage a partnership approach and community ownership
- Working with the IoP to "step out" rather than "step up"

The Juno Excellence Programme and Award

Beyond Juno Champion

The Juno Excellence Programme and Award will recognise exceptional Juno Champions who develop a programme of activities designed to showcase and embed successful and innovative practice, enabling a step-change in diversity and inclusion across the physics community.

Alms of Juno Excellence

The aims of Juno Excellence are:

- To encourage a community-led approach to furthering equality in physics.
- To encourage ambitious and inspiring activities that will disseminate and embed best practice in equality more broadly across the physics community.
- To enable a greater impact on national imperatives for action in deader acquality in observe.
- Developing a programme of career-enhancing activities for staff from other under-represented groups, such as LGBT+ activities or support for those with a disability or mental health conditions, building on the Institute's Building
- Developing theme-based outreach programmes that inspire young would-be physicists from all underrepresented groups on a national level.
- . Developing links with industrial partners to embed the
- To transfer successful activities and practice that works into other departments
- To undertake activities that will benefit the community at large
- To encourage and foster innovative, creative and ambitious step-change

We look forward to our first Juno Excellence awards...

15/11/18 ECFA Plenary, V.Gibson 47

Principle 6 – Professional Conduct

- 6. Fostering an environment where professional conduct is embedded into departmental culture and behaviour
 - 6.1 Ensure that all staff and students are aware of expected professional conduct.
 - 6.2 Address bullying, harassment and misconduct
 - 6.2.1 Ensure all staff and students are aware of how complaints of bullying, harassment or other misconduct will be dealt with through an enforceable formal policy.
 - 6.2.2 Ensure there is a transparent reporting mechanism within the department to address any complaints.

Principle 6: Proactive and Positive

Encouraging

- "Values for physics"
- Openness and transparency
- Departments to talk about this and open up discussion

and ensuring

 Everyone is in a working environment where misconduct is not tolerated and can be addressed

Departments will be expected to...

- Make everyone aware of university codes of conduct and any departmental codes
- Work towards developing their own set of values that all staff and students buy into
- Ensure everyone is are aware of how complaints will be dealt
- Provide training for all staff on addressing harassment and bullying
- Work towards having staff trained to deal with complaints about misconduct and towards having a confidential reporting system (department or university) to record incidences.



Why is it important?

"If we don't address sexual harassment seriously... we have a chance of losing some of the most talented members of our community"

Vice-Chancellor Professor Stephen Toope



What has it got to do with me?

"Dealing with sexual harassment is a responsibility for everyone in the community.

People won't come forward, there won't be an open discussion, unless there's an environment in which people feel at least relatively safe. So each and every one of us has to try hard to create that environment."

Vice-Chancellor Professor Stephen Toope

What is Breaking the Silence?

A cultural change programme to address sexual misconduct and harassment focussing on prevention, reporting and supporting students and staff.

- fostering a zero-tolerance culture free from coercive behaviour, harassment and sexual misconduct
- providing support and guidance to members of the University affected by sexual misconduct
- streamlined procedures handling allegations of harassment and sexual misconduct between students and employees
- Training and development for staff and students

University Zero Tolerance Statement

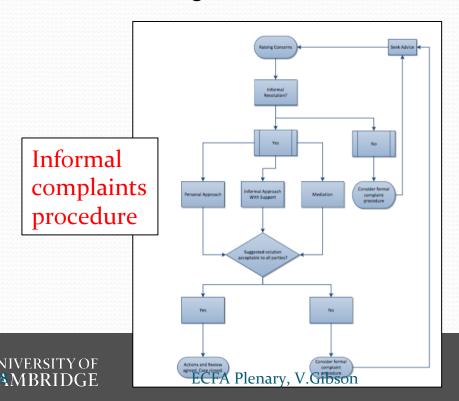
There is no place for any form of harassment or sexual misconduct at the University of Cambridge

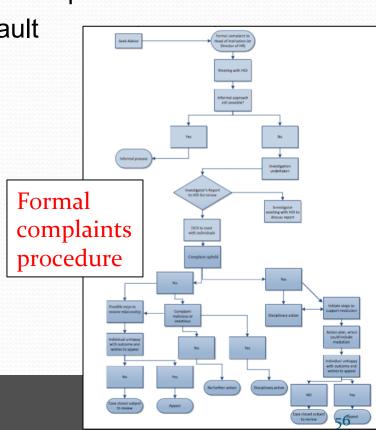
- Cambridge is where the **brightest and the best can thrive** in a safe and supportive environment; one that welcomes and celebrates diversity and acts collectively to tackle unacceptable behaviour.
- The University will continuously work to improve the prevention, response, support and investigation of all instances of harassment and sexual misconduct; and to empower staff and students to make disclosures.
- Staff and students have an **individual and a collective responsibility** to ensure a zero tolerance approach to harassment and to foster a culture of mutual respect and consideration.
- We will work together with **all universities across the UK** to solve these issues.

Staff Dignity at Work Policy

- Sets out the responsibilities and expectations of all members of the University community
- Clearly defines and incorporates sexual misconduct with examples
- Clarifies disclosure routes for staff vs student complaints

Refers to additional guidance on sexual assault





Training, support and guidance

Support for students: 18 counsellors, mental health advisers and University Sexual Harassment & Assault Advisor

Support for staff: Dignity at work contacts and wellbeing advocates in all departments

University Counselling Service

Training

- "Consent Matters" course & workshops for students
- "Staff supporting student disclosure" briefings from the Cambridge Rape Crisis Centre.
- "Where to draw the line" training for staff, HR Division.
- "Bystander" training
- Good Lad Initiative Physics invited them to talk to targeted research groups

300 staff have now received training on supporting survivors of sexual violence

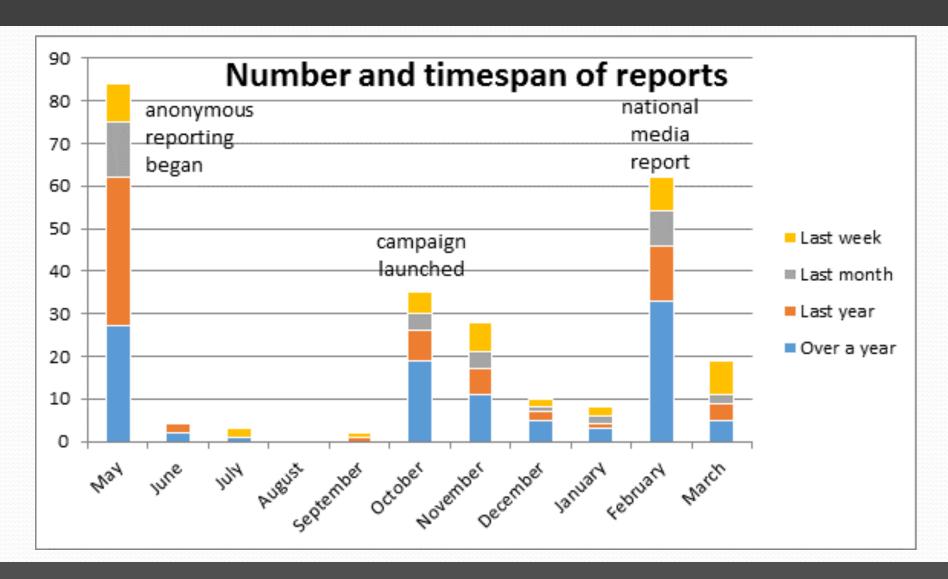


Anonymous reporting

- Introduced in May 2017, for anyone in Cambridge, student, staff or visitor
- Harassment, Hate Crime and Sexual Misconduct
- 311 reports as of June 2018
- The most commonly cited behaviour between students is sexual intercourse without consent or a sexual act without consent

No one should be surprised by this: we still have work to do

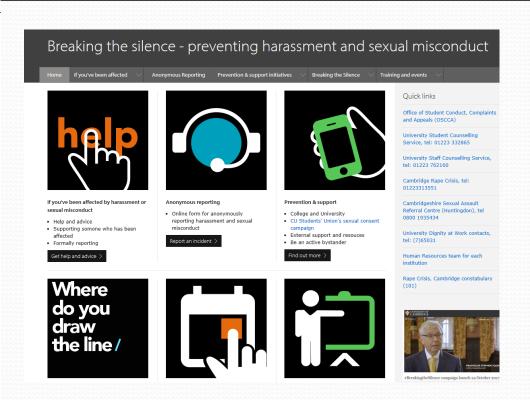
Anonymous reporting figures (2017-18)





Breaking the Silence website and campaign





. www.breakingthesilence.cam.ac.uk

A departmental toolkit is available on the Breaking the Silence website including posters, flyers and a checklist for Institutions.

Breaking the Silence (2017-18)

- Website >25,000 hits over the launch
- Films viewed >100,000 times
- Tweets reached >5 million accounts.
- More than 550 articles published about the campaign.
- Focus groups (staff and students) increased awareness from 47% to 65% in the first 6 months.
- Over 600 staff have received training in departments.
- 9 Universities from 6 different countries had been in contact, since launch.
- Caseloads within HR have increased and the University is taking (and has taken) serious action as a result.

Breaking the Silence (2017-18)

 Percentage of students anonymously reporting incidents and not reporting them formally (because they do not believe anything would be done) has dropped from 52% to 24% in 12 months.

Press and public questioned whether there was a need for a full time Sexual Assault Harassment Advisor ...

... sadly the answer is yes ...