Diversity at Work & Gender Equality

Genevieve Guinot & Ioanna Koutava, CERN Diversity Office EASITrain, March 2018

cern.ch/diversity

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Today...

1. How does the brain function?

Do biases and stereotypes affect us?

- 2. Diversity & Diversity management Why is it important?
- 3. A Focus on Gender Equality in Education, Research and STEM



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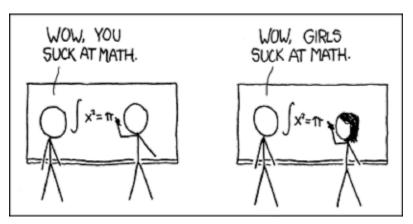
Unconscious bias

- Affinity bias: We tend to relate more easily to people who are like us
- Halo Effect: Our overall impression of a person influences performance evaluation
- Confirmation Bias: Individuals tend to search for, interpret, focus on and remember information in a way that confirms their preconceptions
- Stereotyping: Expecting a member of a group to have certain characteristics without having actual information about that individual



Stereotypes

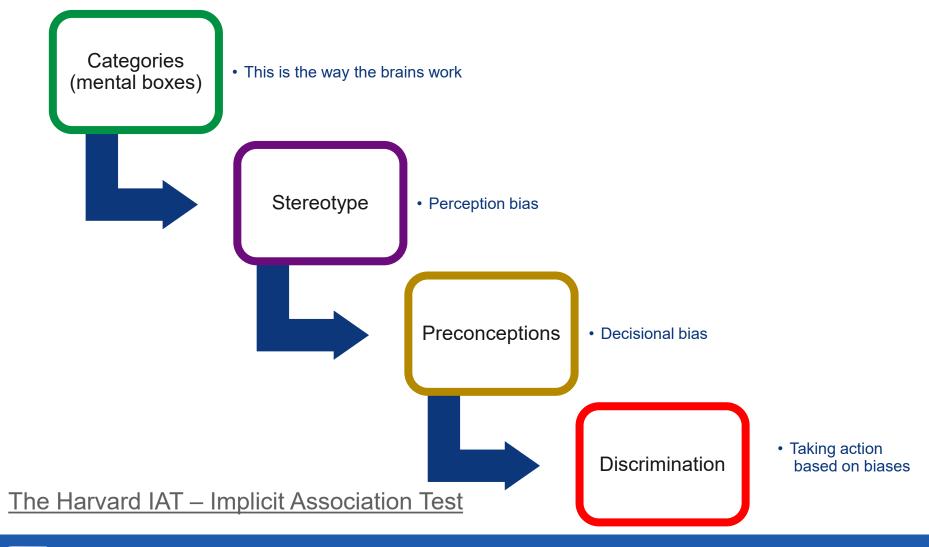
- Cognitive method our mind uses to simplify information
- A method of understanding;
 works through classifying individuals into a group category
- Can be negative or positive, accurate or inaccurate...
- Concern opinion, personal traits, ways of life, physical aspects...
 - → It is the unjustified stereotypes that cause most concern



self-fulfilling prophecy

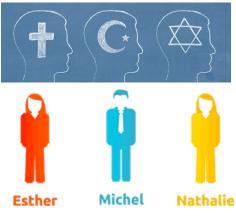


Highway to discrimination





Study-based on "assumed religion"



Same age: 25

Same last name: Haddad

Same country of birth: Lebanon

Same nationality: French

Same Bachelor or equivalent : Accounting

How many CV do they need to send before a call back for an interview?







Institut Montaigne, France, October 2015

http://www.institutmontaigne.org/publications/discriminations-religieuses-lembauche-une-realite



Mohammed

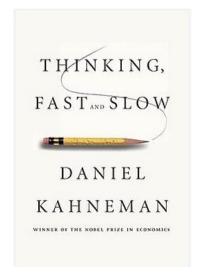
How do we make decisions?

SYSTEM 1 THINKING
Automatic system

□ Effortless
□ Impression, feelings
□ Uncontrolled, Fast
□ Prone to visual illusions
□ Jump to conclusions

SYSTEM 2 THINKING
Reflective sytem

Effortful
Conscious decision
Problem solving
Thinks statistically
Can be invoked to control biases



Daniel Kahneman, Thinking fast and slow



Exercise time...



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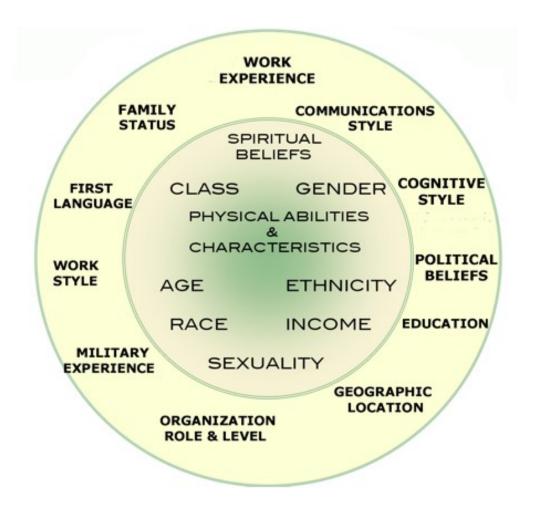
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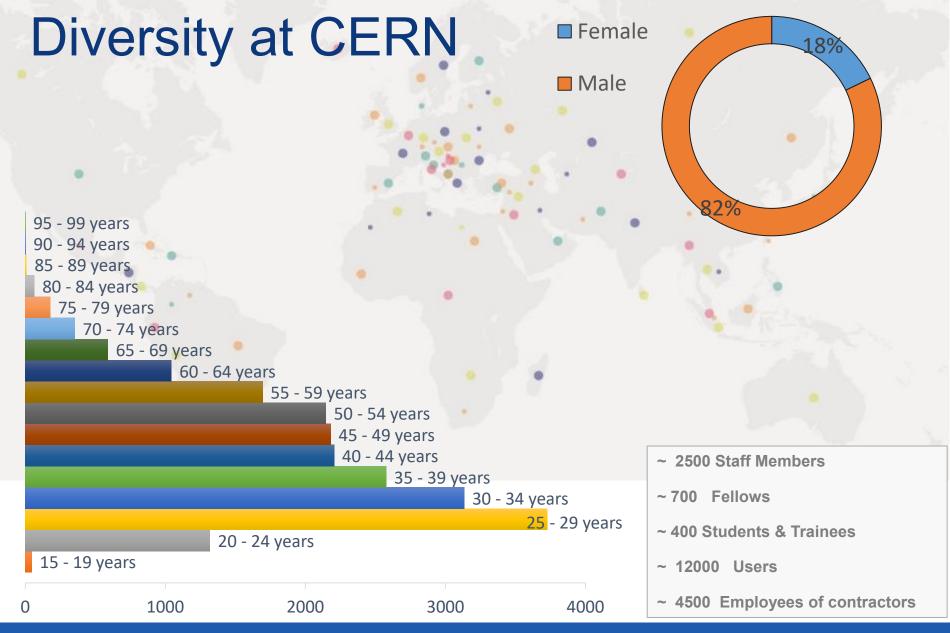
Dimensions

Primary and secondary levels



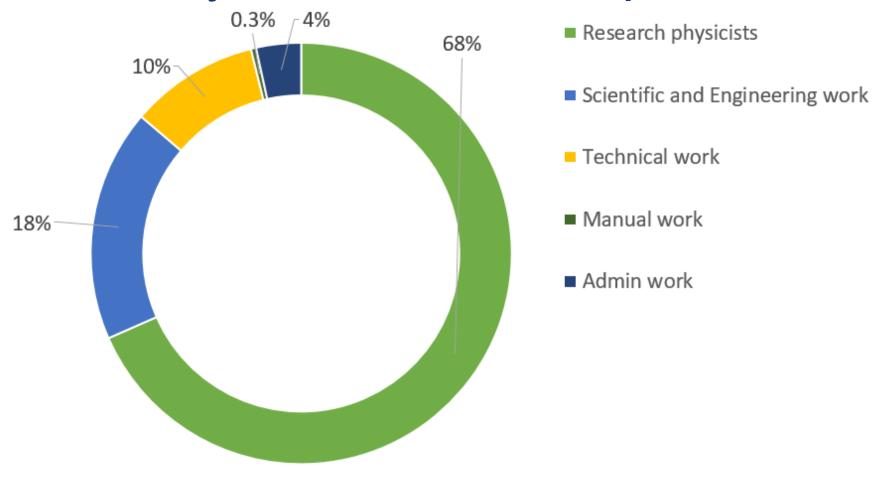
Loden associates inc







Diversity at CERN – The professions





CERN Annual Personnel Statistics 2016 Members of Personnel, MPA training excluded

Diversity at CERN – The professions



Image: M.Brice/CERN

CERN Annual Personnel Statistics 2016 Members of Personnel, MPA training excluded



Equal Opportunities

Moral, social and legal perspectives

United Nations

Declaration of Human Rights, 1984

- All human beings are born free and equal in dignity and rights
- Everyone has the right to education;
 higher education shall be equally accessible to all

2016: The UN SDGs

among them...

- Good health and well-being
- Quality Education
- Industry, Innovation and Infrastructure
- Peace, Justice, and Strong Institutions
- Partnerships for the goals
- Gender Equality





Equal Opportunities

Moral, social and legal perspectives



Legislative measures

- Countries may employ measures; these include e.g. gender or special needsrelated quotas
- At CERN: No quotas, no positive discrimination

2016: The UN SDGs

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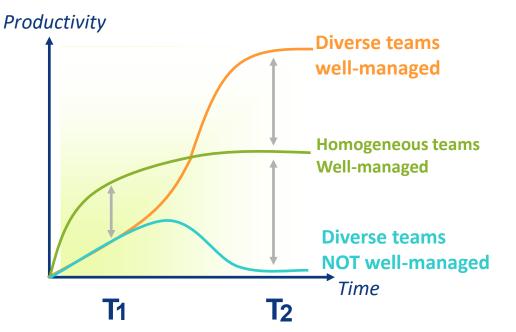




Diversity

Impact on performance

Forming > Storming > Norming > Performing





Why? How does this apply in STEM?

- Larger talent pool
- Diversity fosters innovation and creativity through a greater variety of problem-solving approaches, perspectives, and ideas.

Graph: QED Consulting



Inclusion



Don't have to hide your

- Sexual orientation in a male dominated environment
- Education in a knowledge intensive environment
- Age in a culture where positive values are attributed to young people
- Disability in an environment based on physical performance.

Dutch Anti-Discrimination Campaign Asks: Should You Have To Hide The Real You To Be Accepted? 2009 Advertising Agency: imagine', Amsterdam, Netherlands Art Director: Sander Jacobs Copywriter: Sander Bergmeijer



Inclusion







What to do then?

·RESPECT:

treating others as they wish to be treated;





- •INCLUSION: making certain everyone on the team is truly a part of the team decision-making process;
- •COOPERATION: actively helping others succeed rather than compete or attempting to one-up someone;
- •RESPONSIBILITY: managing personal behavior to maintain a diversity-positive environment and questioning inappropriate behavior when it occurs.



Loden inc.



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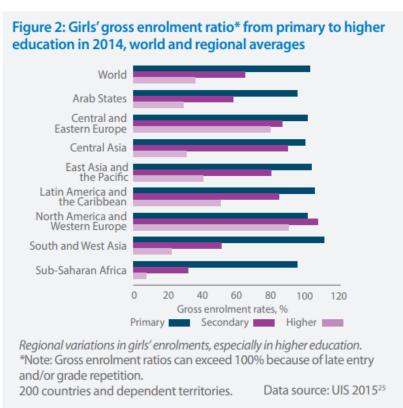


Inequaties in Education

Around the world...



In different countries...



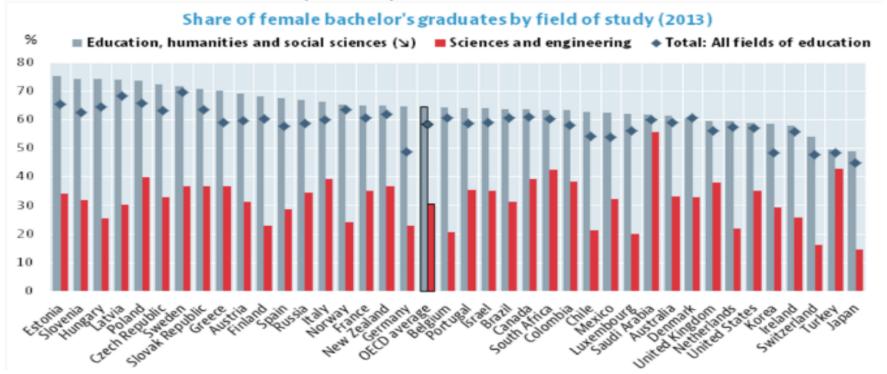
UN, Youth Stats, Office of the Secretary-General's envoy on Youth, http://www.un.org/youthenvoy/youth-statistics-education/ UNESCO, Cracking the code: Girls' and women's education... 2017, http://unesdoc.unesco.org/images/0025/002534/253479e.pdf



Education and Research

Secondary education programmes graduates: 45% male – 55% female (OECD)

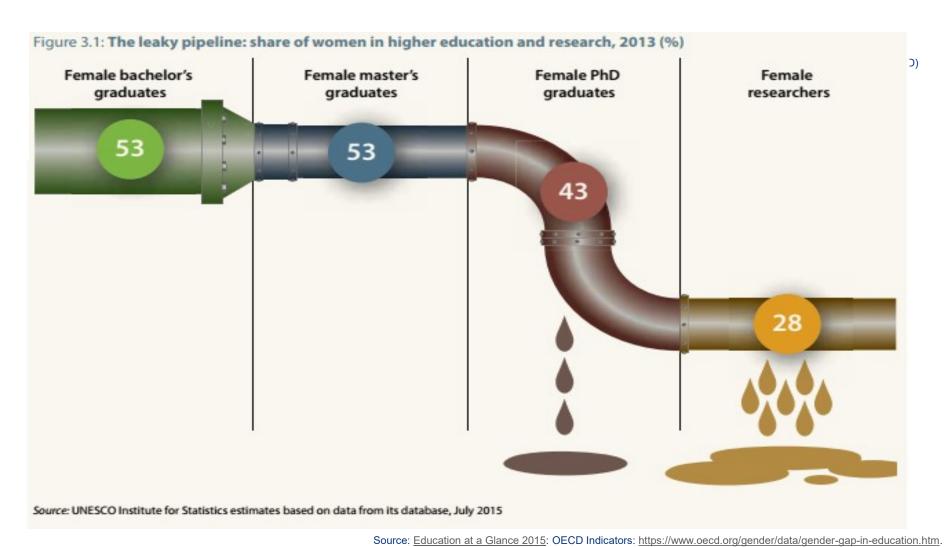
- Bachelor's degree graduates: 53% Female 47% Male (UNESCO)
- BSc. in sciences and engineering: 31% female



Source: Education at a Glance 2015: OECD Indicators: https://www.oecd.org/gender/data/gender-gap-in-education.htm. The statistics provide data from the 35 OECD Countries.



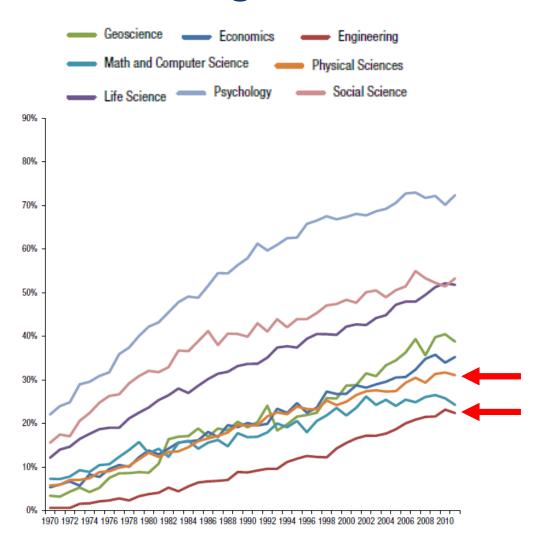
Education and Research







PhD Degrees awared to women

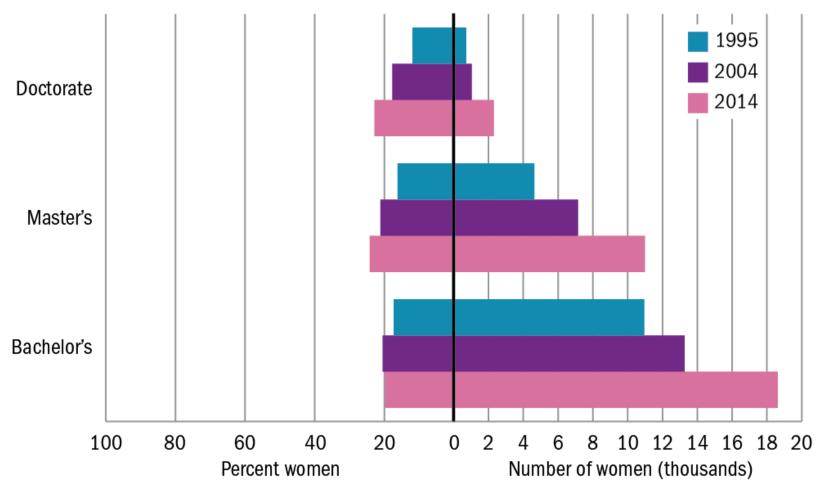


Source: National Science Foundation's WebCASPAR database (http://ncsesdata.nsf.gov/webcaspar/) in Women in Academic Science:

A Changing Landscape, Ceci1 and al.2014



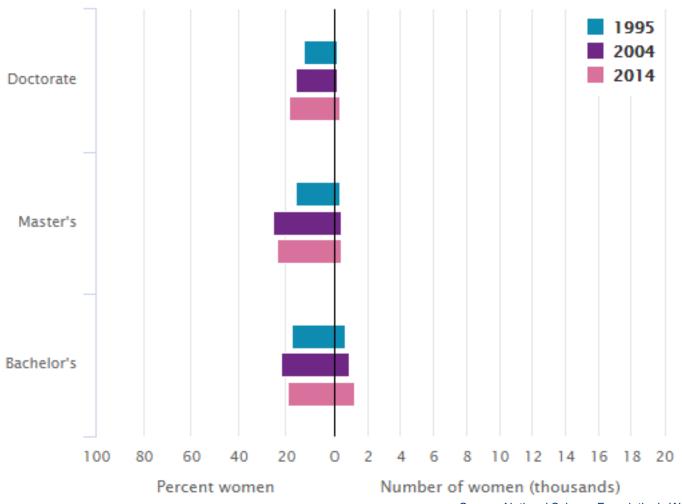
Gender balance in Engineering



Source: National Science Foundation's Women, Minorities, and Persons with Disabilities in Science report https://www.nsf.gov/statistics/2017/nsf17310/digest/about-this-report/



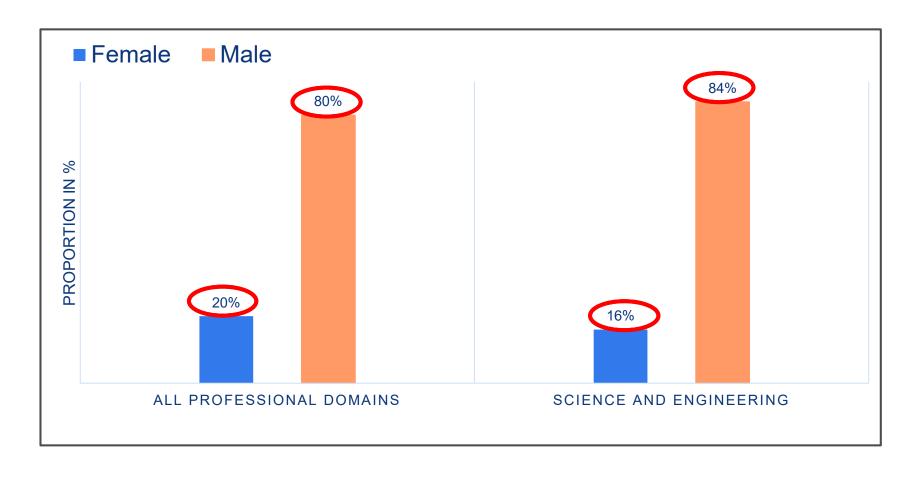
Gender balance in Physics



Source: National Science Foundation's Women, Minorities, and Persons with Disabilities in Science report http://www.nsf.gov/statistics/2017/nsf17310/digest/about-this-report/



Gender balance at CERN



CERN Staff, Fellows and MPA (except for Users) Source: 2016 CERN Personnel Statistics



An emphasis on Gender Equality

Encouraging young girls and women to take up careers in science...





Image: S.Sapountzi / CERN

... Employing them...

SIX WOMEN SHARE THEIR EXPERIENCE WORKING AT CERN





statistics 2016

... Enabling them i.e. Staff members of Personnel creating an inclusive work environment





Diversity and Equality

in Research Organisations

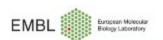


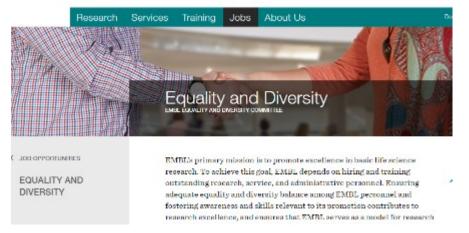
HORIZON 2020

The EU Framework Programme for Research and Innovation

An example of Horizon 2020 funded projects focusing on gender equality:

GENERA carries out activities dedicated in gender equality in the Research area.







Gender Equality Network in the European Research Area





Gender equality & diversity in the industry

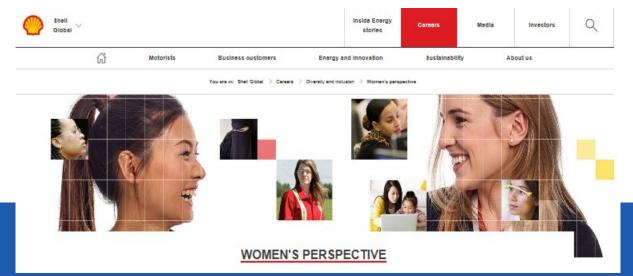
Microsoft: Girls Do Science



"7 out of 10 girls are interested in science.
Only 2 out of 10 will pursue it as a career.
Let's change that"



Fondation l'Oreal





Science engagement & Gender Equality



Fabiola Gianotti

Director-General, European Organization for Nuclear Research

The International Gender Champions - Geneva provides an innovative platform for showing how very practical actions can have a direct impact on working conditions and perceptions. We need personal commitments to close gaps where they exist, to counter bias and to give everybody equal opportunities at all levels. It is a privilege to be part of the network and to help move forward the same opportunities for all.



I support the IGC Panel Parity Pledge.

https://www.genderchampions.com/

People from all over the world celebrate the Girls in ICT Day every year organising events, workshops & programs to encourage women to consider careers in ICT.



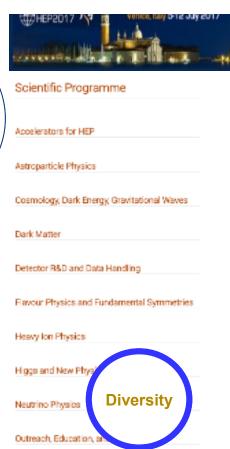
Bridging the STEM and ICT gender gap in Tanzania. Teachers take a hands-on role in the training course for ICT. (Photo from the ITU Blog)

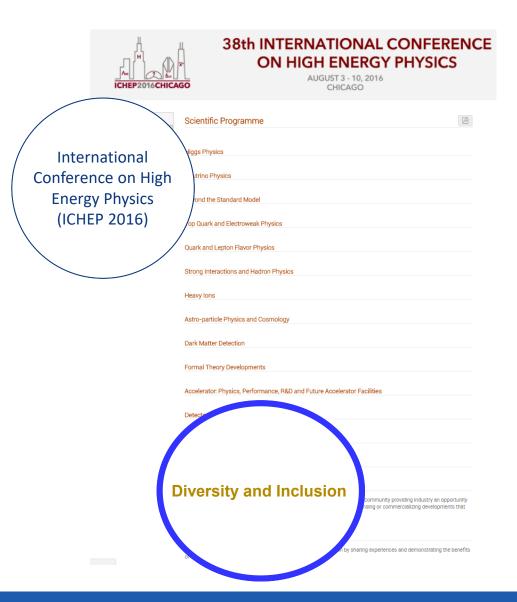


Conferences & Diversity / Gender Equality



European Physical Society (EPS 2017 conf.)







Workshop's topics

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 In Education, Research and STEM

Thank you!







To find out more...

→ visit <u>cern.ch/diversity</u> and keep in touch ;-)



The CERN Diversity Office

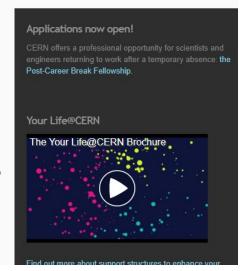
Diversity? It's an issue for the majority

On 27 January, I spent much of the day in the Globe, where I took part in the Gender in Physics day organised as part of the EU's Gender Equality Network in the European Research Area (GENERA). Two weeks later, it was a pleasure to see some of the many events organised around the world as part of UNESCO's International Day of Women and Girls in Science.



On both of these occasions, however, one thing was very evident: most of the participants were women. It's true that after CERN Director-General Fabiola Gianotti's opening speech, in which she stressed her commitment to diversity in all its facets and described the actions CERN is taking to promote diversity, we heard from ESO Director-General Tim de Zeeuw, but overall only about 20% of the speakers were men, and as a man in the audience I was very much in the minority. This, I think, is where the challenge lies.

Whenever we look at diversity issues, it is far too easy for those in the



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