

European Physical Society

fostering visibility and influence of female physicists in Europe ...a challenge...

Els de Wolf, University of Amsterdam/Nikhef 21 November 2013, Vilnius





How it begun...

Founded in 1968 in Geneva

"as a further demonstration of the determination of scientists to collaborate as close as possible in order to make their positive contribution to the strength of European cultural unity"

Under leadership of Gilberto Bernardini, former CERN's Research Director





.....where it is now...



Headquarters in Mulhouse, France



....and whom it represents

As *federation* of national societies

42 member societies

Lietuvos fizikų draugija

As learned society

3500 individual members

Altogether
more than 100,000
European Physicists

37 associated members research infrastructures, funding agencies, universities, companies



Facilitating physics research

11 Disciplinary divisions

Quantum Electronics and
Optics, Physics Education,
Plasma Physics, High
Energy Particle Physics, ...

17 Interdisciplinary thematic groups

Energy, Technology and Innovation, Physics for Development,...

Conferences, grants

Prizes and Awards

Refereed scientific journals

EPL, EPJ



Celebrating physics

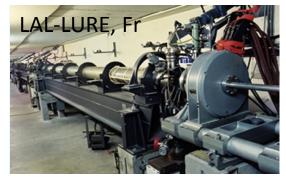
Historic Sites

To commemorate and celebrate places in Europe important for physics development









*(proposal)*International Year of Light 2015





Shaping the agenda

Forum Physics and Society Physics in the Market Place (2012), Science, Journalism and Communication (2010), Physics Teaching: a New Deal (2009)

European Integration E.g. the Balkan area and Central-East Europe



Equal
Opportunity
Committee



Supporting gender equality

Collective membership of EPWS since 2005

Support participation in IUPAP Conference Women in Physics (2008, 2011)

Support participation in Conference Woman Shaping Science (2008, Vilnius)

Organisation of gendersession at EPS Plasma Physics conference (2009)

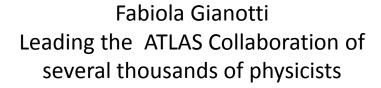
Support of presentation of 'Girls in Physics' project in Brussels (2010)

Emmy Noether Distiction (2013) *'It is all about visibility'*



Excellent role models in Europe

Luisa Cifarelli Representing 100,000 European physicists as the first female EPS President







[...intermezzo...]

From physics to politics



She's a role model too



A role model from the past

Emmy Noether *German Mathematician*1882-1935

Theorem fundamental tool for modern theoretical physics

Excellent role model for a physics prize to be named after





Emmy Noether Distinction

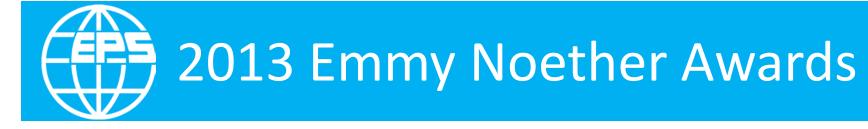
Excellent female physicists for their personal achievements in physics research, education, outreach or other physics related work

To enhance the *recognition* of noteworthy women physicists with a strong connection to Europe

To attract women to a career in physics

Twice per year

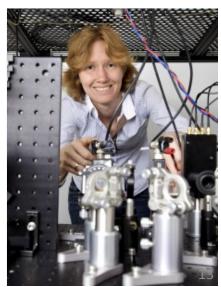
Visibility of excellence through role model approach



Dr Alessandra Gatti
Institute of Photonic and Nano
technologies, Como, Italy



Prof. Dr Nynke Dekker Kavli Institute of NanoScience, Delft University of Technology, Netherlands





Enhancing influence

EPS Conferences

Charter for promotion of female physicists among convenors and (key-note) speakers

EPS governance

Charter with EPS
Divisions/Groups and
Committees for their equal
opportunity policies

EPS 'best practices'

Collect from and share with the Member Societies best practices of equal opportunity policies at European research institutes and universities

Aiming at visibility for a greater influence of female physicists in the European physics community



Creating belonging

"Girls do not feel at home with physics"

15 year old Molly of Redland Green School in the UK:

"Girls are usually not doing physics not because they're not good at it, but because they have other preferences to it. I think girls just find it more interesting to do other things."

Sociologist Louise Archer at King's College London.:

"The lack of female role models has a profound effect on girls choosing Alevels. For girls in particular, physics is seen as being a very masculine subject. So the girls who like physics have to work a lot harder to balance it with that notion of normal femininity."

EPS discussion about 'Girls and physics' with its Physics Education Division



Summary of achievements

- Support of participation in equal opportunity conferences/projects ('women in science')
- EPS Individual Members: 24% of new members is female (data 2010-2012)
- Equal Opportunity Action Committee (2013)
- Emmy Noether Distinction established 2013
- EPS Governance status in 2013
 - First female president (2011-2013)
 - 21% women in EPS's Executive Committee
 - on average 20% women in other boards/committees
 - Three divisions > 40% women in board
 - 1 division and 1 group 0% women in board



In preparation

- Charter with EPS Conference committee
 - Promote female (key-note) speakers and session convenors
 - Promote gender-sessions at EPS conferences
 - Support participation in 'Woman in Science' policy conferences
- Sharing best practices for equal opportunity policies
 - With Member Societies, other Learned Societies and funding agencies
- With Member Societies
 - Search for female candidates for EPS presidency and Executive Committee
- Charter with all divisions/groups
 - Enhance number of women in boards/committees
 - Enhance number of female (key-note) speakers and session convenors
 - Possibly additional distinctions
- Discussion 'Girls and Physics' with Physics Education Division



Input for discussion

The European Physical Society

- Is pleased that the number of woman in physics research is rising
- Recognizes that 'a lack of belonging' is still a threshold for girls for choosing physics
- Believes that establishing Best Practices will show long term improvements
- Has started studying charters for gender equality policy in physics research organisations in Europe and will try to encourage adopting such charters
- Considers it important that such charters will be given sufficient time for evaluation
- Considers visibility the best tool to enhance influence of women in the physics community
- Considers this visibility and influence important to lower the threshold for girls to eventually choose a physics related study/career



American Physical Society]

Women in Physics

- Workshops & Meetings
- Scholarships & Awards
- Publications & Multimedia
- Women Speakers List
- Site Visits
- Assessing Graduate Programs
- Resources

Included in review of 'best practices'