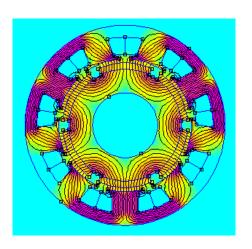


Empowering Female Engineers in Current and Emerging Engineering Roles

Work-life balance: an engineer's account



Dr Judith Apsley, EEE



Image sources https://en.wikipedia.org/wiki/Westland_Sea_King

Overview

- Personal history
- The challenges of work-life balance
 - Undergrad
 - Early career
 - Maternity
 - Later career
- The rewards
- My questions for you
- Questions





Family history

Marjorie. 1887-1987 Debutante, officers wife, war work, farmer's wife.

Belinda. 1929-

Graduate, antibiotics research, 10 year career break, nursery assistant, lab technician.

Judith. 1964-

Apprenticeship, PhD, consultancy, maternity, small business, academia, 80% FTE.

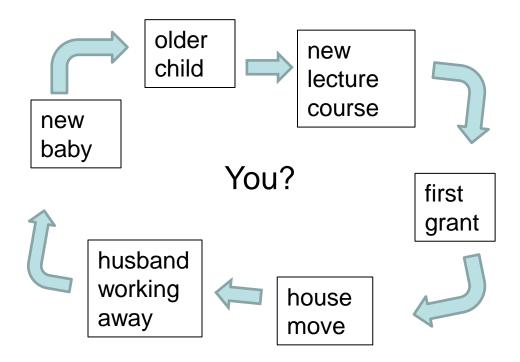
Miriam & Elizabeth.

Postgrad - industrial maths Undergrad - biochemistry.



Work-life balance

How good are you at juggling?

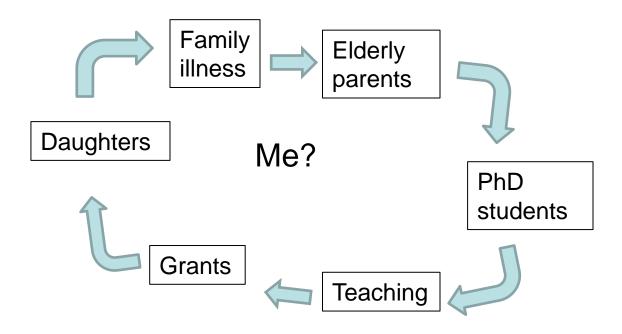




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Work-life balance

How good are you at juggling?



Publications?



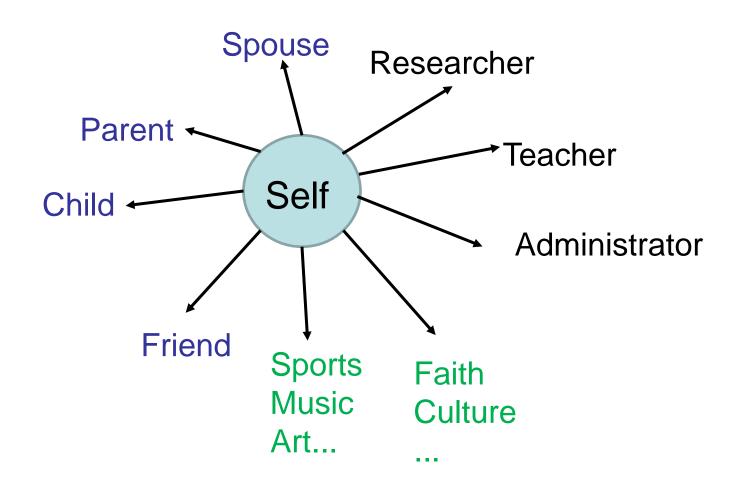
The University

Staff survey 2017

- 70% say their immediate manager helps them find a good work-life balance,
- 9% say they have been discriminated against or bullied in the last 12 months (below the sector average)
- 66% feel they have had to put a lot of time in the last
 12 months to meet the demands of their workload
- 36% are unable to handle all the conflicting demands on their time.
- 6% always, 25% frequently, 67% occasionally feel stressed at work

Source: University of Manchester, Staff Survey, 2017, Capita Solutions, available on staffnet

Identity/roles



Undergraduate

As a supervisor, problems with studies frequently relate to

- Money problems, part-time jobs
- Relationships
- Accommodation and peer groups
- Physical and mental health
- Exam pressure

Generally,

- Good peer support outweighs problems.
- Don't be worried about asking for help.



https://nittanynewslehighvalley.com/1177/campus-life/a-day-to-remember/





Undergraduate

At UCAS interviews, the female candidates stand out:

- Been to open days, done competitions/awards (e.g. CREST, UKMT), taster days or work experience.
- Made a positive choice for engineering

Continues into job applications, interviews, scholarships...

image source:

https://nittanynewslehighvalley.com/1177/campus-life/a-day-to-remember/





Early career

Academic - Short term contracts

- Keep canvassing head of school, Nancy Rothwell, etc
- Look at getting your own money fellowships
- Build a personal network: LinkedIn, ResearchGate, conferences and workshops

Industry - not a job for life

- Keep up to date, CPD: IEEE/IET etc
- Get chartered (CEng)
- Build a personal network: LinkedIn

Everywhere I've worked has had redundancies.

I've been made redundant once



Early career

Long distance relationships: balancing 2 careers

Either

 Choose a partner with good transferrable skills (teaching, nursing, accountancy, IT, etc) who can work anywhere...

Or

 Do a lot of talking to each other and make sure the compromises are understood, appreciated, balanced.

image source:

https://www.globe-expert.co.uk/caly-toys-maxi-globe-inflatable-globe

Maternity

primagravida' at thirty

an 'elderly

Very Challenging – but personally rewarding

- There is no best time to have a baby, but there are some less good ones:

 I was classed as as
 - over 35/40/...?
 - in a failing relationship
 - no support network
- Research council grants allow for maternity leave
- Fathers can share leave, e.g. 6 months each.

Engineering may be more supportive about maternity than other sectors.

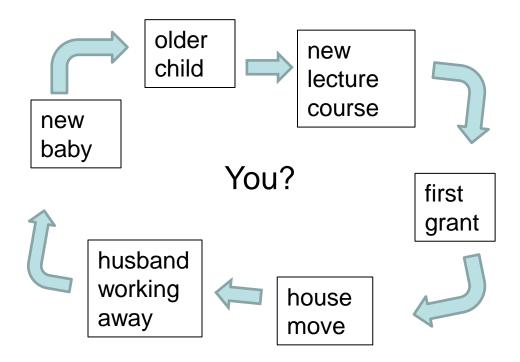
image source: https://www.pinterest.co.uk/ pin/471118811004977506/



The University of Manchester

Young family

How good are you at juggling?



Young family

Even More Challenging – but a great joy

- Your children are only young once.
- Don't judge, everyone does parenting differently
- Childcare is very expensive in the UK.
- Build up your support network (grandparents, school mums, childminders, babysitters, ...).
- Do a lot of talking to your partner and make sure the compromises are understood, appreciated, balanced.

Conferences, working away, journal publications and 'esteem roles', become much more difficult.



Image source: http://hddfhm.com/clipart/cartoon-kids-clipart.html



Later career

Children get easier (usually), but parents take over.

- Spend time with the older generation.
- Do the hospital visits and funerals.
- Spend time with your teenage/ young adult children.

Job insecurity. A change from doing, to leading a team.

- Keep up to date, CPD
- Learn new skills
 - people
 - communication
 - finance/HR/legal
 - time management and delegation

Your parenting skills are an advantage

image source: http://www.alamy.com/stock-photo-uk-road-sign-warning-of-nursing-home-old-people-oap-oaps-seniors-disabled-30842071.html

General tips

- Arrive and leave on time.
- Try not to send emails at evenings and weekends.
- Be aware of colleagues, when you are scheduling meetings or setting deadlines.
- Take your holidays
- Visit your family and friends.
- Do things you enjoy.

Do as I say, not as I do.

No-one ever wishes they'd spent more time with their boss.

Rewards

Not fame or fortune. My personal career choices haven't put me high up the career ladder. But rewards are

- SANITY
- Self-respect
- Satisfaction
- Relationships

My children are the most rewarding project I have ever worked on...and sometimes the most challenging



My Questions

- 1. Why do teenage girls choose to drop science subjects at age 13-16? What would change this?
- 2. Are female undergrads and postgrads getting the support they need in FSE?
- 3. How do we encourage more girls to come to Manchester?
- 4. What is the impact of a career break or a nonconventional career? How should it be evaluated, e.g. in promotion?



Your Questions?

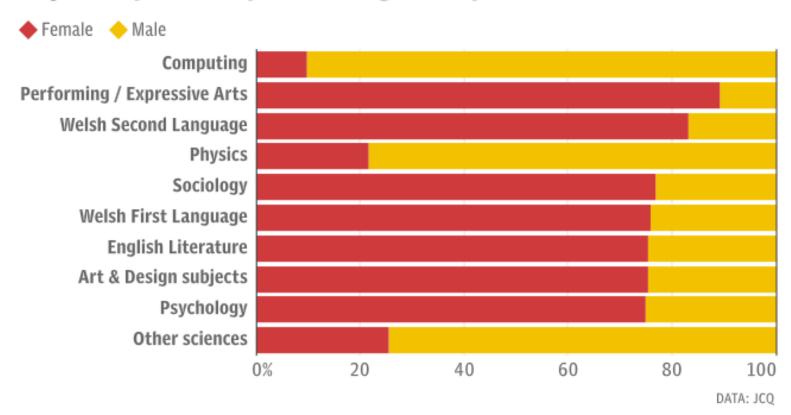


Before university

The biggest gender challenges happen before university

The largest gender gaps in A level subjects

Proportion of males and females taking each subject (%)



Source: <u>Camilla Turner</u>, Education Editor <u>Ashley Kirk</u> 17 August 2017 • 3:07pm, The Daily Telegraph, http://www.telegraph.co.uk/education/2017/08/17/a-level-results-2017-first-rise-top-grades-six-years-despite/