

## Sweden-a par adi se of gender equity

- Fanily friendly governnent policy
- Paid parental leave up to 15 months (either parent)
- Governnent subsidy until 18
- High-qual ity, low cost daycare
- Good school s, with well organi zed after-school caret aki ng
- Anti di scrimination I aws
- Graduate students who have a postgraduate research position take paid parent al leave
- Younger resear chers (assoc pr of essor) on parental leave can extend thei $r$ position by twi ce the I eave period
 (Lund Uni v)
- Quot as for committees, external
experts, boards, etc
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## Hi gher educat i on

- In 1988 feder al goal : sci ence and technol ogy prograns shoul d have at least $30 \%$ women
- Gover nment gender bills on hi gher education aimto make the fullest possible use of the quality potential based on cooperation bet ween the sexes...
- Acadenic positions can be obtai ned only on the basis of scientific merits
- Tradition eroded by reformin 1990s
- Prof essorshi ps now in the hands of uni versities, pronotion to pr ofessor possi bl e
- Research positions now creat ed both by uni versities, and by out si de fundi ng agenci es

- Little nobility

Full professors appointed by the government could not be fired

- Swedi sh PhDs usual ly over 30

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Lund… a I ong
hi st ory of
traditions

-A I eadi ng rel i gi ous, academi c and cultural centre in all of Scandi navi a in the 12th cent ury
-First uni versity was Dani sh (1400s)
-Became Swedi sh in 1658
-Bi shop' s seat in Lund
-City domin nat ed by st udents ( Sweden' s best st udent city) -100, 000 i nhabitant s - many connected to Uni versity

## Lund Uni versity

Founded in 1666
First female student 1880
First female professor 1965

40, 000 st udent s
2,300 gr aduat e st udent s
500 PhDs (2008)

1,300 teachers ( $27 \%$ women)
558 pr of essors ( $16 \%$ women)

## Eight Faculties

Medicine
Law
Sciences
Humanities and Theology
Social Sciences
Engineering
Economics and Management
Fine and Performing Arts

Sci ence Faculty

| 1600 undergraduates | Bi ol ogy |
| :---: | :---: |
| 400 active PhDs $45 \%$ women | Chemi stry |
|  | Physi cs |
| 119 professors, 10 women* 100 assist prof, 29 women 100 assoc prof, 37 women | Ast r onony |
|  | Mat hematics |
|  | Physi cal Geogr aphy and Ecosyst ens |
| One of the two faculties which has fully financed professor chairs at LU | Geol ogy |
|  | Ecol ogy |
|  | Theoretical Physics |
| Faculty leadership: 3 deans, heads of department | Medi cal Physi cs (j oi nt with Medi cal School ) |
|  | Envi ronment al Sci ences |

## Pr ogr ans ai med at car eer devel opment for women sci entists

Wbren in Great Sci ences Net work (W NGS)

Ment or progr amfor fenal e juni or sci entists

Programfor Heads of Departments

Recr uit hi gh- quality femal e scientists to key areas

Support for female guest professors

Fully fi nanced fenal e pr of essors*

## W NGS

- Origi nat ed in the geol ogy department in 2003
- Meeting pl ace for fenal e graduate students and faculty
- Career i ssues and gender in wor kpl ace

- Partici pants noticed that they were inf or med, aware of current opportunities, and could influence deci si ons in the department
- The potential of the concept is real ized
- Fundi ng for first W NGS program granted by the faculty in 2007
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- Per manent net work in pl ace
- Research in progress (For skni ng pagar) in 2008, 2009
- Regul ar I unch seminars by women sci enti st s
- Cont act with women in academia, i ndustry, research institutes and fundi ng agenci es
- Awar eness
- Car eer devel opment
- Fundi ng and academi c net wor ki ng
- Wbmen scientists in Oresund regi on
- Faculty leaders
- Awar eness of ongoi ng sci entific resear ch, new opportunities


## Summar y- W NGS

- Broad, cross faculty network ai ned at women at all level s
- Focus on research, scientific goal s and net working
- Grass-roots initi ative
- Long-termpl anning requi res both active younger and more seni or scientists, and to have access to larger national and inter national networks
- Sone nale scientists are involved, more would be very positive
- Can be a pl atformfor future initiatives within the faculty
- About 50 women are active, most are graduate st udents
- Very cost effective

[^0]
## W NGS Resear ch i n pr ogr ess 2008



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## Sci ence faculty mentor program

- Uni versities are' traditionally' bad at utilizing the expertise and tal ent of women scientists
- Nany fact ors contribute to the situation at hand
- Nent or prograns contribute to the social capital of women
- Under st andi ng the rul es of the game
- Devel opi ng i mportant net works
- Awareness of potential pitfalls in career choi ces
- Nentors are car ef ully chosen, and are trai ned in the course of several meetings and semi
- Adepts inter act with mentors, but al so with each other


[^1]
## Ment or program Goal s

1. Provi de usef ul tool s for car eer pl anni ng both academic and outsi de of the uni versity
2. Rai se awar eness of issues whi ch st and in the way of women scientists who pursue an academic career $\cdots$ for both adepts and ment ors
3. Create a net work bet ween adept s and bet ween adept s and ment or s
4. Strengt hen ment oring skills, and in
 the I ong run, the academic I eader shi p skills of ment ors
5. Faculty deans get feedback on effectiveness of projects, initiatives and suggestions for
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## Facts about the rent or progr am

- 16 adept s chosen from 30 appl i cant s
- Ment ors nomi nat ed, criteria:
- Rol e nodel s
- Experi enced, respect ed faculty
- Leader shi p philosophy
- Vi ew women sci entists as val uable resource
- Genui ne int er est in l eader shi p, pronoting change, people
- Car ef ul mat ching process
- Rol e of faculty deans
- Peri odi c follow up di scussi on with proj ect I eader


[^2]
## Pr ogr am cont ent

- Proj ect I eader: adept, 1 month sal ary
- Prof essi onal consultant (MLInstitute, I eader ship consultants)
- Ki ckoff meetings for adept s, ment ors (over ni ght meetings)
- Contract bet ween ment ors and adepts
- 6 Semin nar ( full and hal f-day semi nar s)
- 4 meetings for ment ors and adept s toget her
- Md-termeval uat ion
- Fi nal e and eval uation with heads of departments and deans
- Fol I nw un- what hannens after war ds


[^3]

## Out comes of ment or program

- Adepts feel that they have the ability to influence their career di rections in a more positive way, a better under st anding of factors important for scientific devel opment, and of the expect ations empl oyers have, and how to achi eve i mportant goals
- Adepts are in a better position to make a deci si on on thei $r$ future careers-to stay or to leave becomes an active choi ce
- WNGS becomes a faculty-wi de progr am
- Very clear picture of where to work on equal - opportunity i ssues...
- New programfor working with heads of departments i nitiated by deans
- Ai mfor a nore responsi ble appr oach to leader shi p


## Summar y- Ment or pr ogr am

- Programl: Started 2002
- Focus on adepts
- 14 younger resear cher s in program
- Mbst goal s achi eved
- Wbrk with mentors \& decision maker s
- 60\%in academia 2008
- Programll: Started 2006
- 16 younger resear chers in program
- Focus on needs of adepts, and ment or' strai ni ng
- Department heads participate

- Led to spi noff project
- Led to W NGS expansi on
- Cost: approx \$50,000

[^4]
## Dial og with Department Heads



## Some questions and some results

Are there women you expect to be pronot ed to pr of essor during 2008-2009?

19 women are eligible to apply for promotion to professor; 21 women to docent during 2009-2011
What is the situation for women in their department (resources, career development, mentoring, grants)?
Which women have recently left the department?
Why did they leave, and what can we learn from this?
What kind of support do you as head of the department need to deal more effectively with these issues?

A more long-term funding plan would make active recruiting feasible. In some cases funding for recruiting a few good role models would make a big difference.

## Other initiatives within the faculty

Each department is allocat ed money for genderequal ity initi atives

- Seminar series which incl ude gender equal ity
- Introduce measur abl e goal s (e.g. $30 \%$ of all invited I ecturers shal I be women)
- Invite women role model s to speak, to vi sit the department, to take part in exi sting scientific networks
- Christmas present for all staffagood book on gender in sci ence!
- Schol ar shi ps for summer interns di rected at female highschool st udents
- Support to a femal e newly appoi nt ed juni or lect urer
- Course on Gender in Sci ence and Technol ogy

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## Support for fenal e guest prof essors

The sci ence faculty cofinances women guest professors
The number of guest professors increased dramatically
The science faculty fully finances all women professors (both pronoted or recruited)
This provi des incentives for departnent heads, di vi si on heads to encour age women to seek promotion
Three women pronoted to pr of essor during 2008 2009...
nearly $50 \%$ increase in nuntber!


[^5]

## Active recruitment of women scientists

First group recruited in 2001, 6 positions opened for mai nl y local candi dat es

- All successful resear ch/t eaching/l eaders today
- Half are promoted to pr of essor

Second group recruited 2009

- 5 associ ate professor positions financed at $80 \%$ by faculty for 6 years
- Search committee identifies candi dates
- 5 women chosen after intervi ews
- Two I ocal candi dates recruited: medical physi cs, geol ogy
- Three external candi dat es recruited: anal ytical chemi stry, microbi ol ogy and pure mat hematics

Lund Uni versity:

## Surmary

- Initiatives to hel $p$ women nake nore i nf or ned car eer deci si ons
- Incentives fromthe faculty l eaders are necessary to set the agenda
- I mpr ovi ng the worki ng envi ronment
- Net works are i mport ant
- Heads of departments are key
- Doing sci entific research because it is fun


[^6]
## Thank you JSPS

- For organi zi ng a very interesting meeting
- Putting women in sci ence on the agenda
- Bringing toget her soci al sci entists, pol i cynakers, faculty menbers
- In a fant astic place!


[^7]

WIPS network formed after IUPAP meeting in Paris, 2002
Section for women in physics in Swedish Physical Society, 2005

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## Nor di c Net work for Wbren in Physi cs

- Swedi sh, Dani sh and Fi nni sh Physi cal Soci eties have sections for women in physi cs
- Si milar cultures, similar educational systens, similar political climates
- Numbers are few, di st ances are I arge
- NORW P: Annual reeting of all Nor dic women in Physics
- Goal :
- i nspi re gr aduate st udents
- Career pl anni ng
- Net wor ki ng
- Future positions
- Share i deas, common proj ects


## Lund Uni versity, gender di stribution

Goal s for 2003 2005, act ual \% women



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[^2]:    Lund Uni versity:

[^3]:    Lund Uni versity:
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[^4]:    Lund Uni versity::::::: Stacey Sorensen ::::::: JSPS For um June 2009

[^5]:    Lund Uni versity::::::: Stacey Sor ensen

[^6]:    Lund Uni versity:

[^7]:    Lund Uni versity::::::: Stacey Sorensen ::::::: JSPS For um June 2009

