A panel discussion of quest
arising after the recent
Chernobyl TV-series
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ROBERT FINCK
CHRISTIAN BERNHARDSSON
SÖREN MATTSSON

LUND
UNIVERSITY
A panel discussion of questions
arising after the recent
Chernobyl TV-series
CHAIR: LOVISA WALDNER
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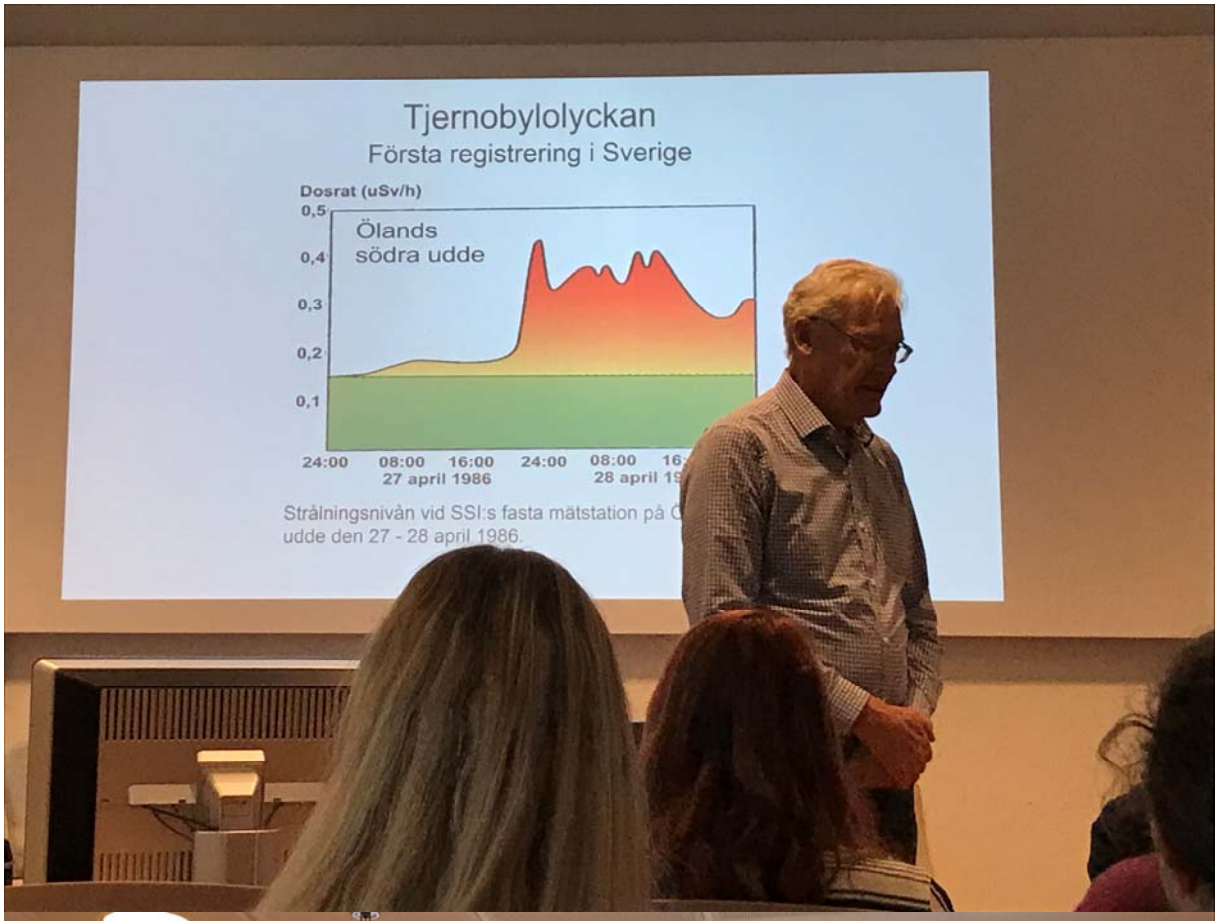
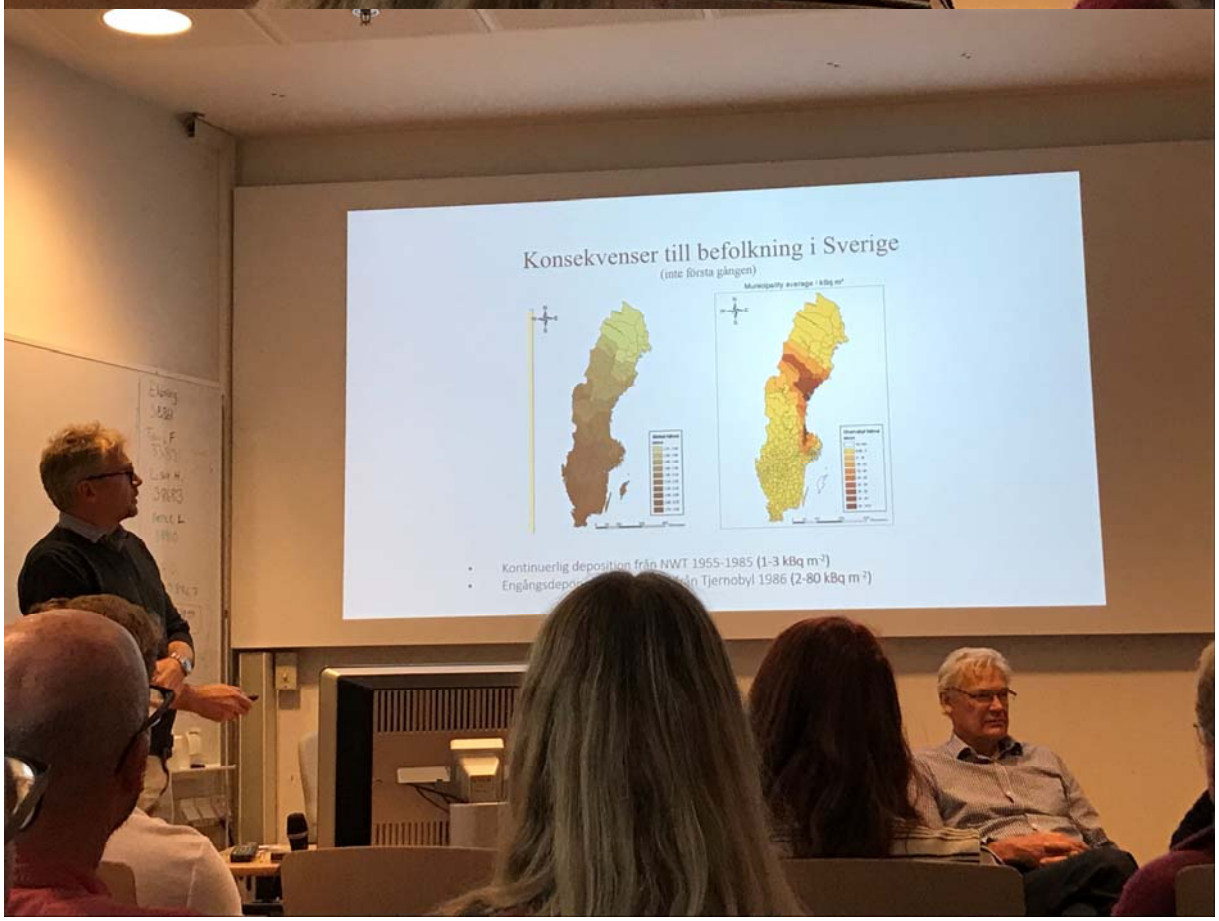
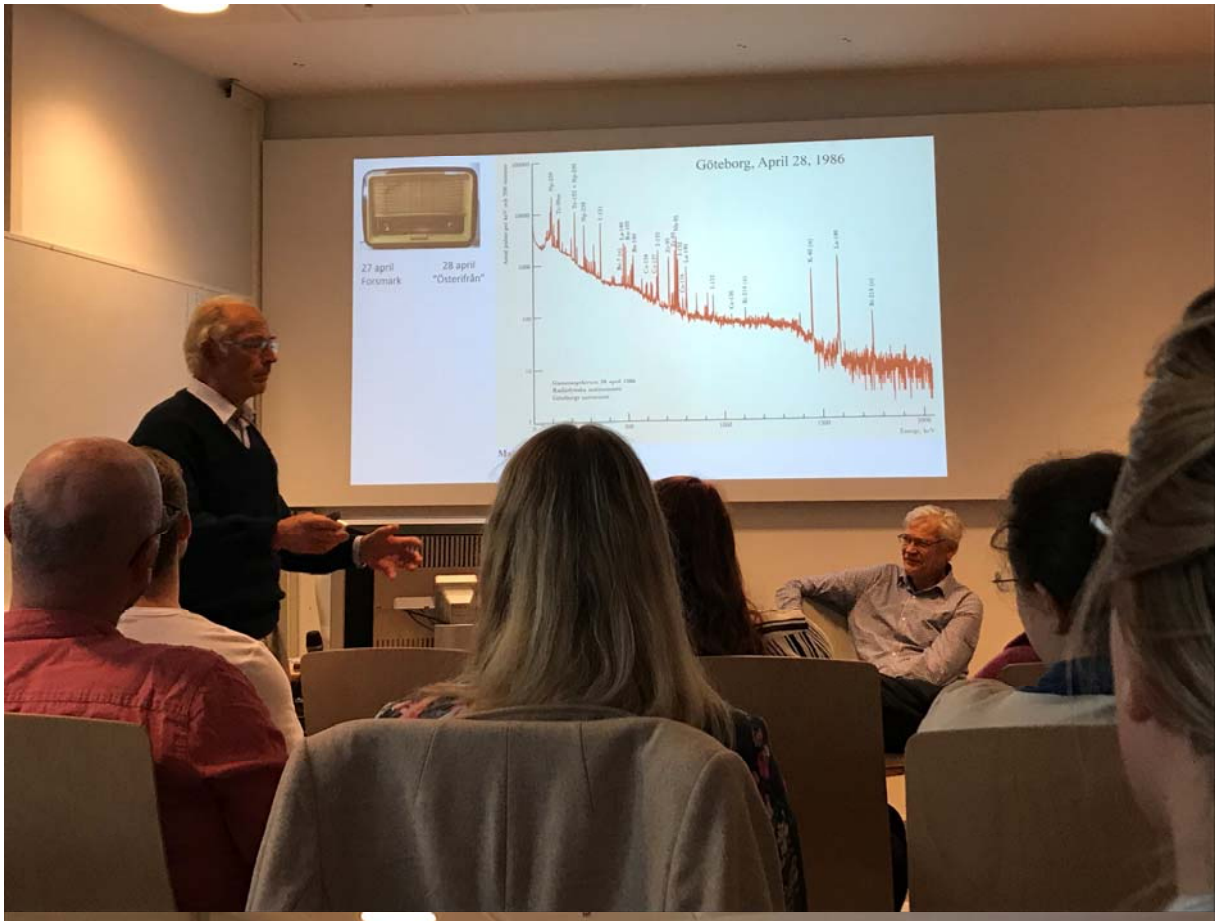
The effects of radiation
• Why were the firemen dangerous to people close to them after the accident?
- External dose rate at 1 m?
• It is said that the baby "absorbs" all radiation and protects the mother, is this true?
• In the series, a fireman is burnt by a block of graphite on the grounds. What is the timeline for radiation burns?


Tjernobylolyckan
Första registrering i Sverige
Dosrat (uSv/h)
0,5
0,4
0,3
0,2
0,1
Ölands
södra udde
24:00
08:00
16:00
24:00
08:00
27 april 1986
Strålningsnivån vid SSI:s fasta mätstation på
udde den 27 - 28 april 1986.


Konsekvenser till befolkning i Sverige
(inte första gången)
Municipality average / kBq m-2
Kontinuerlig deposition från NWT 1955-1985 (1-3 kBq m-2)
Tjernobyl 1986 (2-80 kBq m-2)


Göteborg, April 28, 1986
27 april
Forsmark
28 april
"Österifrån"

+36 h: Evacuation of Pripyat initiated, one month later the entire 30-km zone
Up to September 116 000 were relocated (incl. parts of Gomel-Bryansk)
1986-1988: Implementation of various RP measures, e.g. restrictions, clean-up, resettlement.
Dates of intervention decisions and types of criteria used
EMERCOM 1996
Territories in RF 1990
Inhabitants x1000 2249 347 91
Dose (mSv/y) 1-5 5-15 15-40 >40
1988-1990: 350 mSv dose limit
1989-: Another 220 000 were relocated to other areas
1991: Concept of zoning and isoline of 37 kBq m-2

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Ha en sånn höst