

Industry as a career path for physicists

Bjarne Roger Nielsen, Danfysik A/S
IPAC' 16-05-2017

Question to the audience:

Who are you?

- A. A physicist/researcher who might consider looking for a job in industry
- B. A commercial/industrial guy (m/f) who might consider hiring a physicist in your company
- C. None of the above / just curious / waiting for the next speaker



DANFYSIK

Bjarne Roger Nielsen

Exec Advisor (former CEO), Danfysik A/S

From:

Experimental physics

To:

Particle accelerator industry

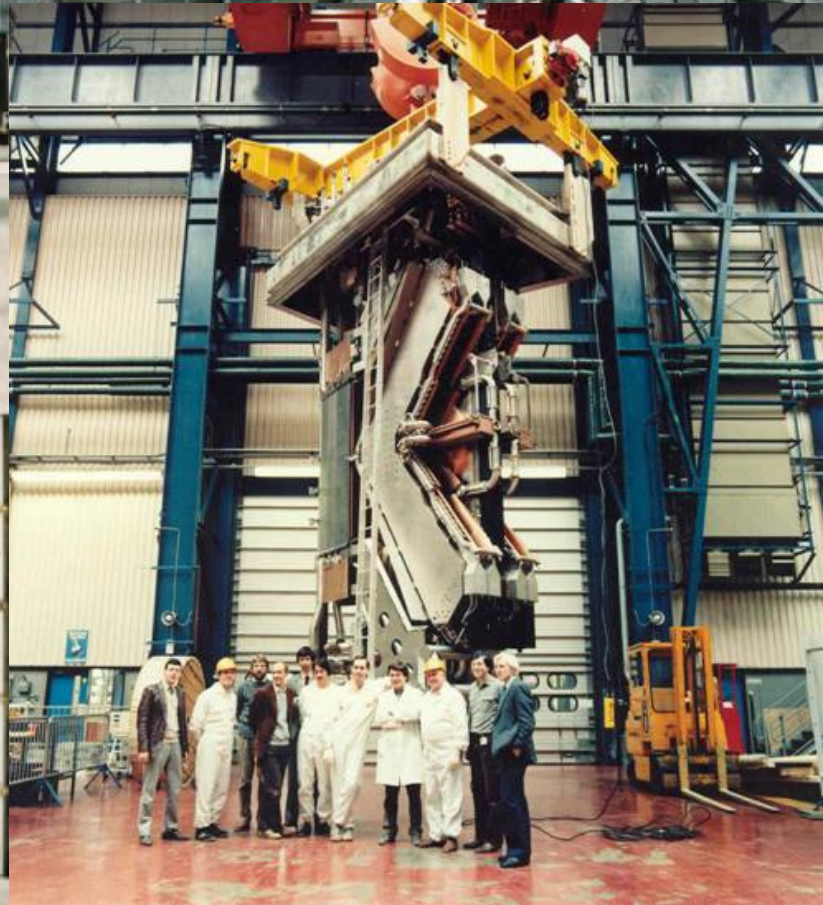
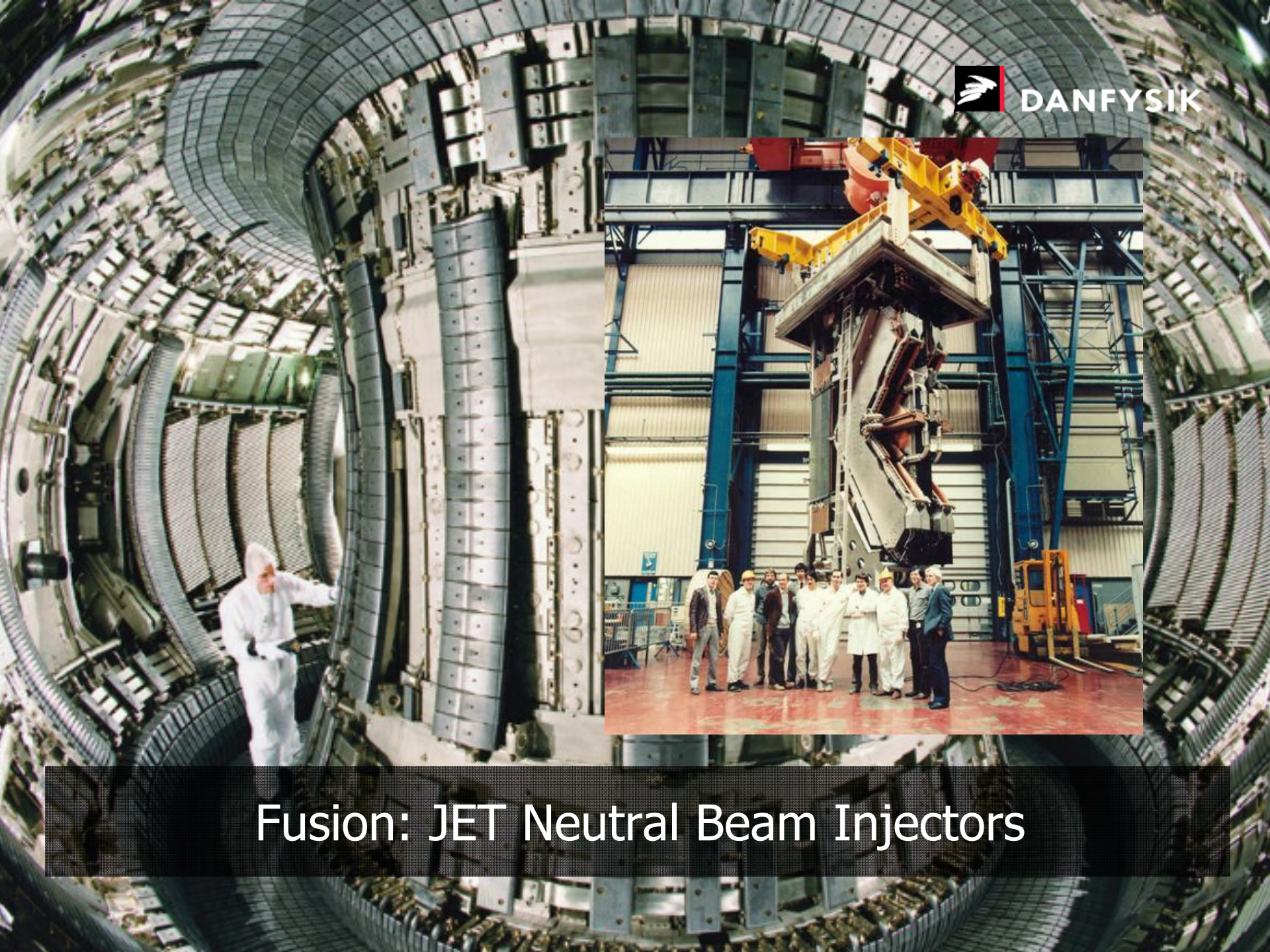


DANFYSIK

Ion Source Development



DANFYSIK

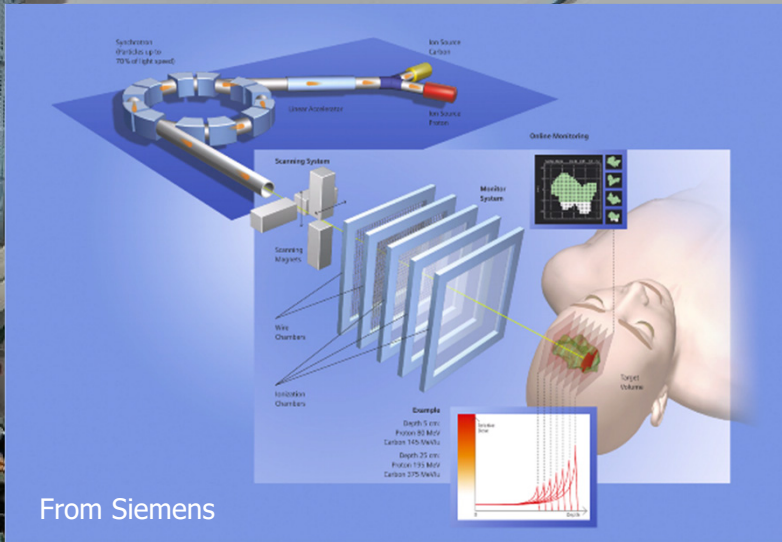


Fusion: JET Neutral Beam Injectors



DANFYSIK

Turn-key Synchrotrons



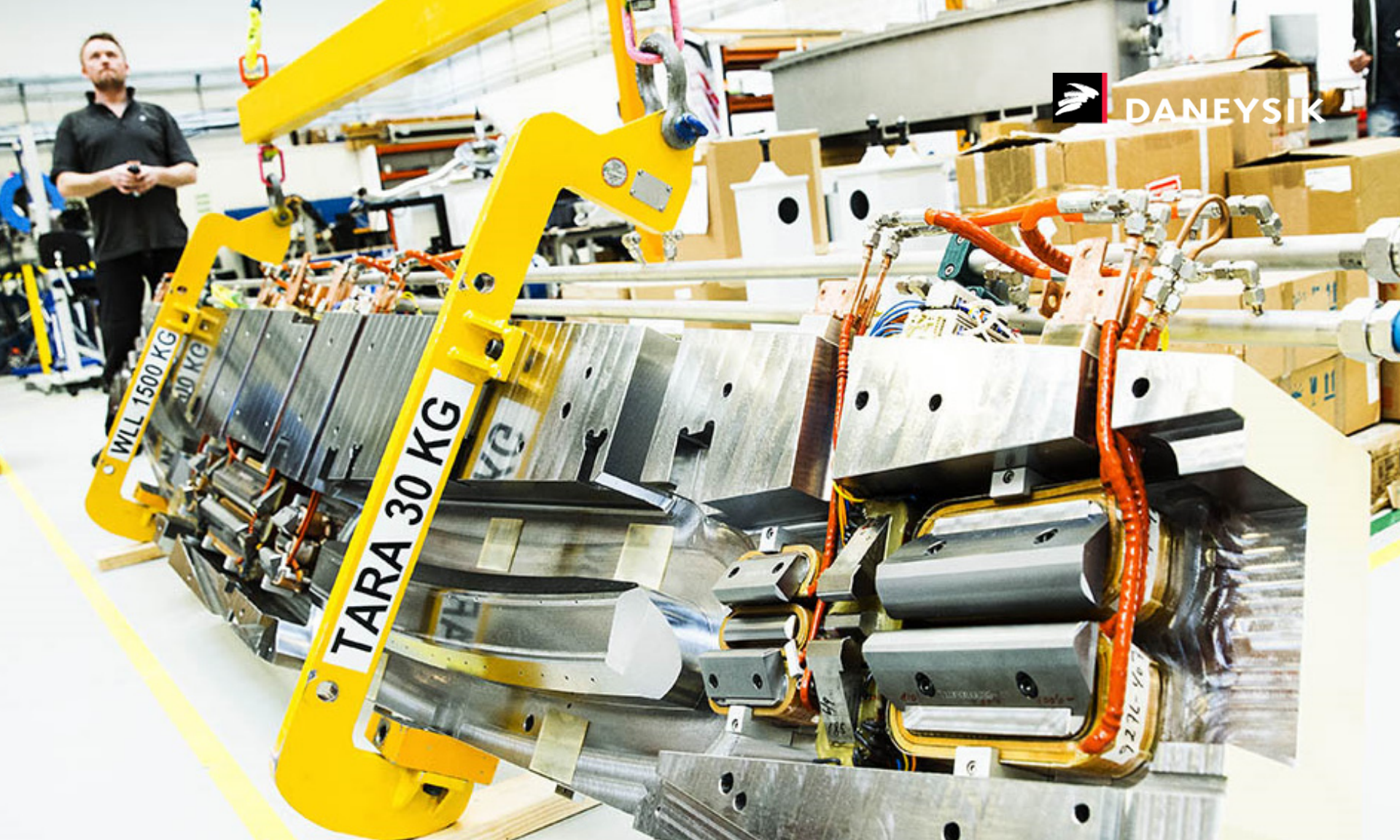
From Siemens



Particle Therapy Accelerators



DANEYSIK



New Technology



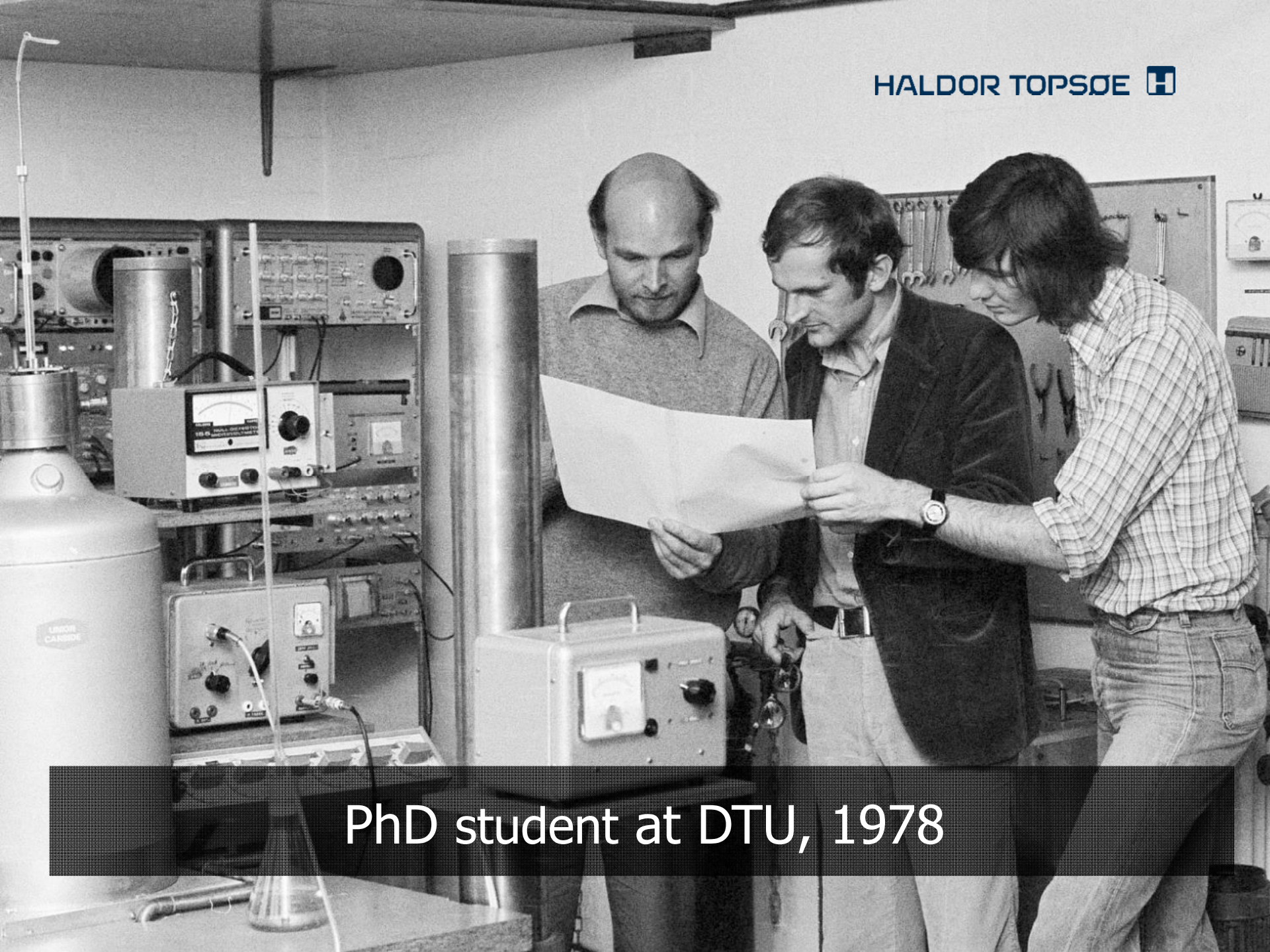
DANFYSIK

Good Relations

Bjerne Steffen Clausen

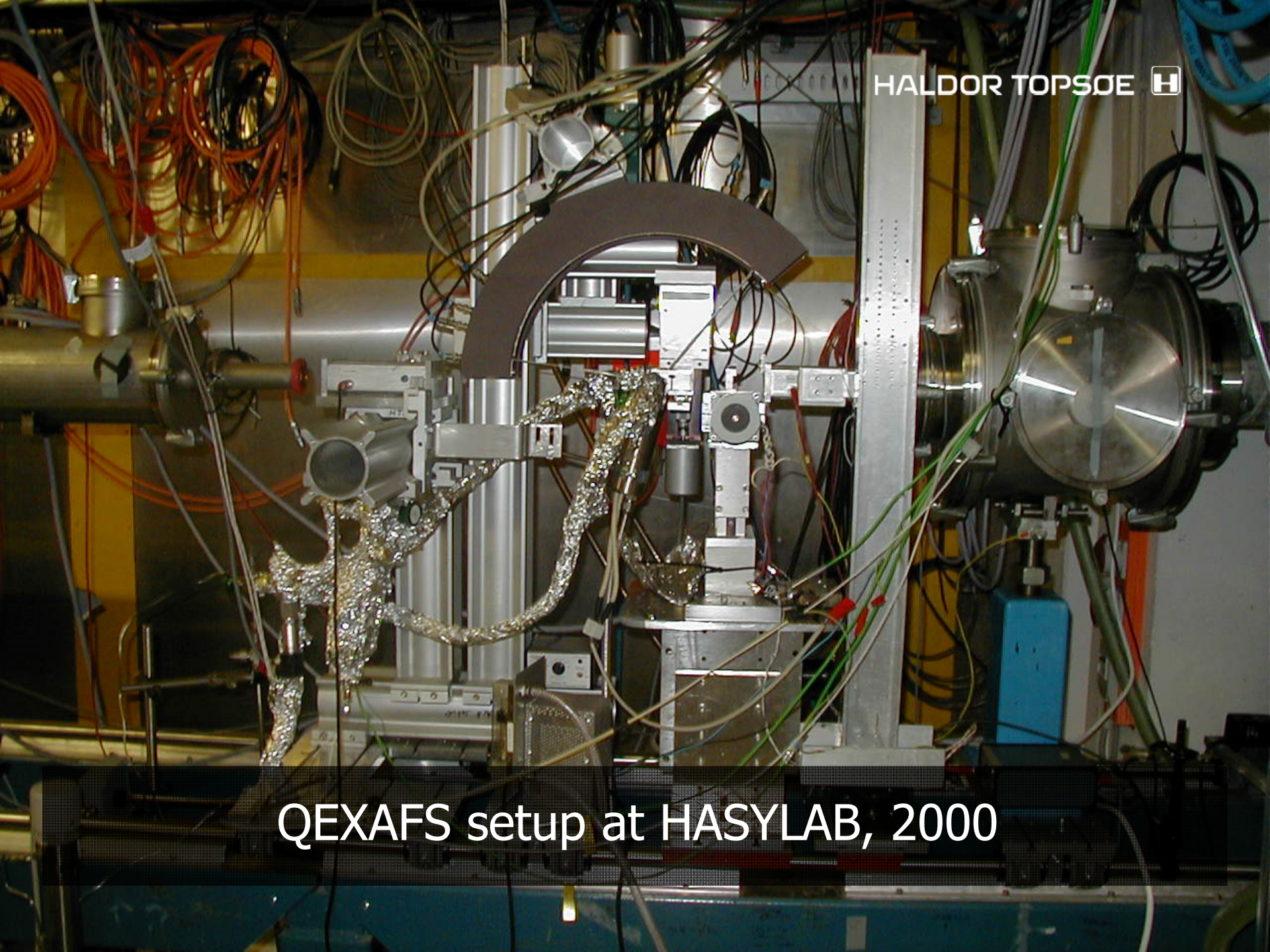
CEO of Haldor Topsoe A/S

From:
applied physics using synchrotron radiation
To:
the CEO of a large global industrial corporation



PhD student at DTU, 1978

QEXAFS setup at HASYLAB, 2000





Topsoe designed ammonia plant, Bangladesh, 1995



Topsoe CEO meets influential people, 2012

Hans-Arno Synal

Professor at ETH Zürich

From:

C14 dating of the Ötztal ice man

To:

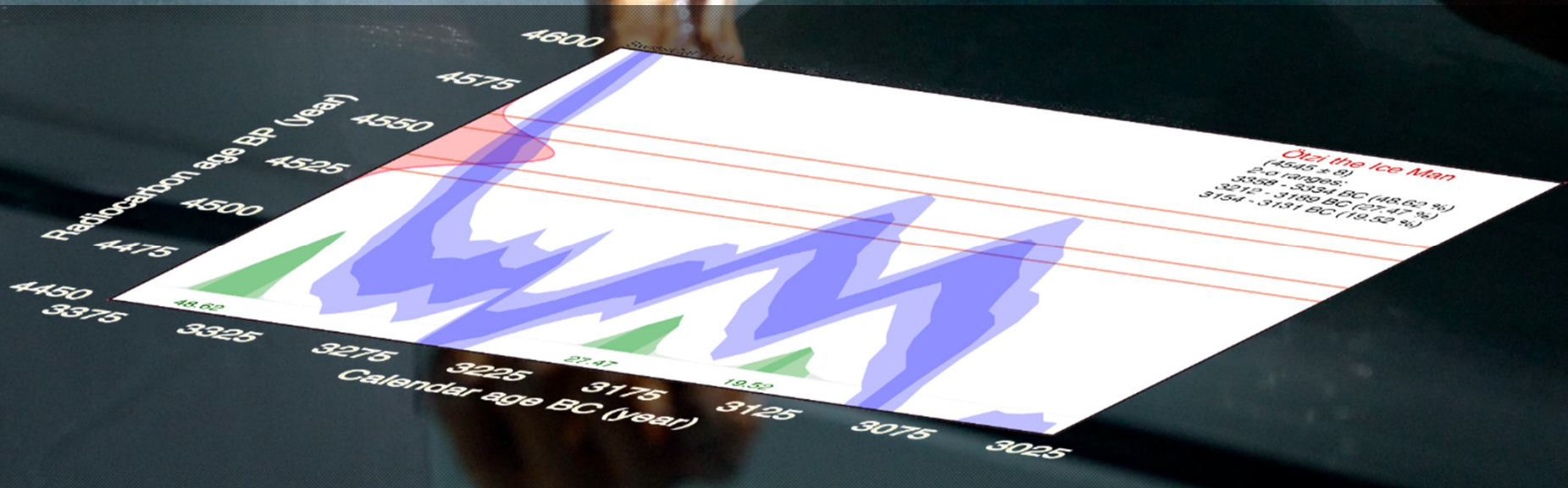
Founding an accelerator company, IonPlus AG

Profession Physics

“Live your Dreams”



Dating of the Ötztal Ice Man



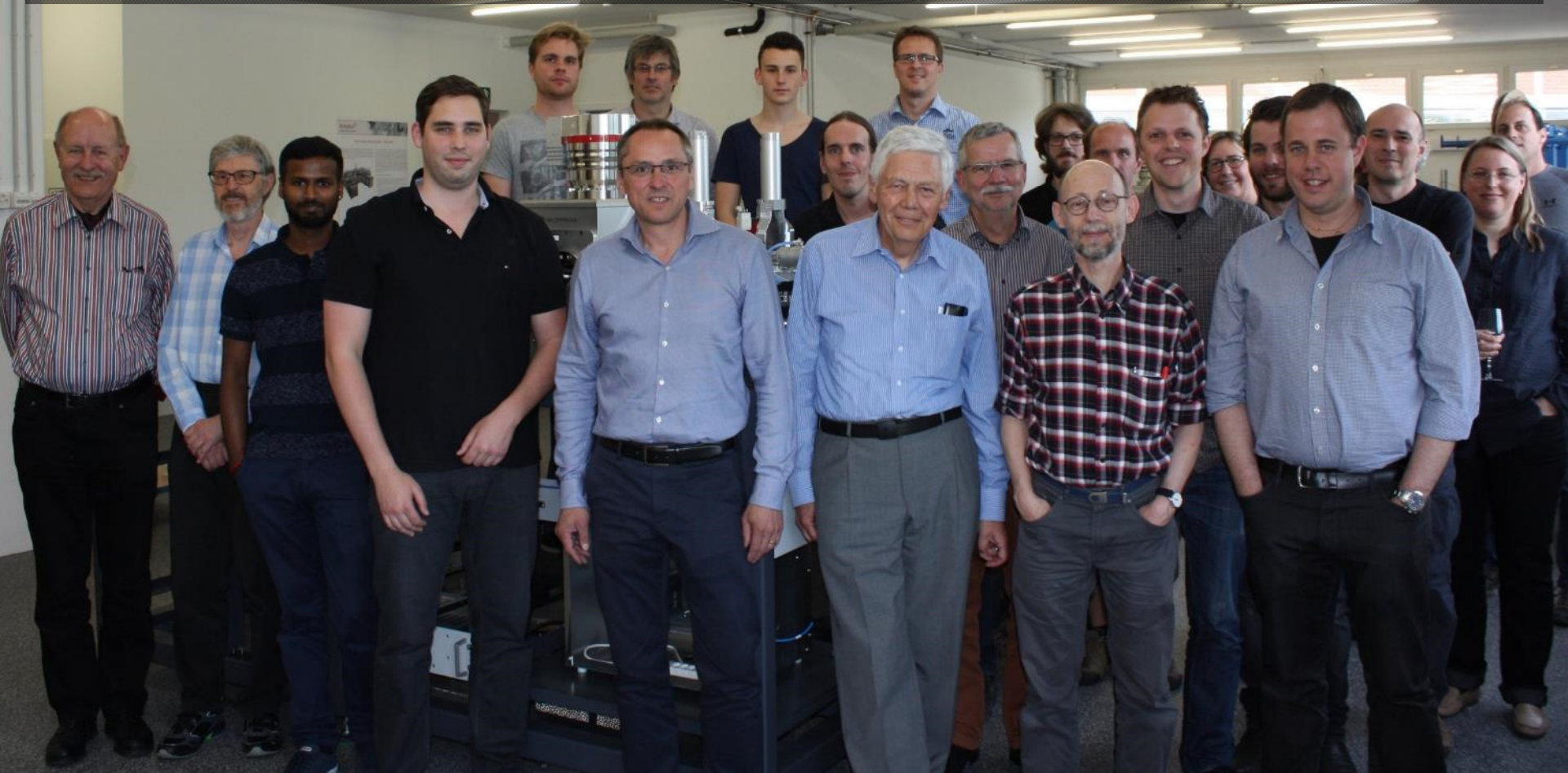
Engineering Scientific Instruments

Exploit your experience
Push towards physical limits



Knowledge is key to success

Find good people



Carsten Welsch

Professor at University of Liverpool

From:

Applied physics

To:

Creating industry-academia collaboration networks

ACCELERATING ... YOU

Prof. Carsten P. Welsch



International Career

From student to Head of Physics Department



Beam Diagnostics...and much more

Accelerator design & optimization

GANIL Laser
LABNET
School 2012



Training the next generation

Booth 20

Exploring new opportunities

STFC CERN Business Incubation Center

Panel debate

Industry as a Career Path for Physicists

Questions

Thank you!