

ATV's Technology Day 2017

TOWARDS A WORLD-CLASS SCIENCE & ENGINEERING REGION

9 NOVEMBER 2017 | PROGRAMME



ATV
AKADEMIET FOR DE TEKNISKE VIDeregående skoler
Teknik og naturvidenskab skal styrkes i uddannelsen



Introduction

Towards a world-class Science and Engineering Region

On behalf of the Danish Academy of Technical Sciences, we are pleased to welcome you to ATV's Technology Day 2017.

We are looking forward to a great day with focus on technology. Denmark holds a great potential to become one of five leading Science and Engineering regions in the world. To realize that potential, it is important to consider in which areas we must perform better in Denmark to play in the big leagues. What makes Danish strength positions a success? At this conference, we will discuss which technological areas that are or can become strength positions in Denmark, and which factors that are important to fulfil the potentials.

At the conference, the first results from ATV's Science and Engineering Project will be presented by CEO Per Falholt, chairman of ATV's Science & Engineering Committee. The results will present new knowledge on how research, education, industry collaboration and public-private cooperation can substantiate Denmark as a Science and Engineering region.

The programme presents the key note speakers with relevant experience on important elements that can bring Denmark in front as a Science and Engineering nation. In addition, you can participate in one of three parallel sessions that explore three different themes with unique possibilities for Denmark:

1. Computer Science as a strength position
2. Maintaining a leading position within Life Science
3. Sustainable Development Goals

It is a great honour to welcome you to ATV's third annual Technology Day, and we look forward to interesting discussions that can bring Denmark closer towards becoming a world-class Science and Engineering region. We would like to thank the sponsors of ATV's Technology Day that have provided the financial basis to this event. Furthermore, we would like to thank the sponsors that are making it possible to pursue Denmark as a Science and Engineering region. The sponsors can be viewed below and on the right page.



Jukka Pertola
Chairman, ATV



Lia Leffland
Managing Director, ATV



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Programme



Moderator of the day

Thomas Larsen

Political commentator, Berlingske

11.30 am

Registration and lunch

12.15 pm



Welcome and introduction to ATV's Technology Day 2017

Jukka Pertola

President, ATV, chairman and member of various boards

Jukka Pertola is president of ATV. He is chairman and a member of various boards, e.g. Siemens Gamesa, COWI, TRYG, Leo Pharma, Industriens Pension and GomSpace. He has over 20 years of experience of management and has had several leading positions in Siemens. Recently, he retired from the position as CEO in Siemens Denmark – a position he has held since 2002. From 1984 to 2002 he has held several leading positions in Siemens Finland, Germany, Belgium and Denmark. Jukka Pertola is Master of Science, Electrical engineering and has completed several management courses.

12.30 pm



Denmark as a Science and Engineering region: perspectives from the Ministry of Higher Education and Science

Agnete Gersing

Permanent secretary, Ministry of Higher Education and Science

Agnete Gersing is currently Permanent Secretary of the Ministry of Higher Education and Science in Denmark. Prior to this, Agnete Gersing has held several positions such as Director General of the Danish Competition and Consumer Authority, Deputy Permanent Secretary of State at the Prime Minister's Office and Deputy Permanent Secretary at the Ministry of Finance. Over the years, Agnete Gersing has held a number of positions in various pivotal boards and committees and she was a member of the Danish Productivity Commission from 2012 to 2014. Agnete Gersing has a Master's Degree in Economics and a gold medal from the University of Copenhagen.

12.45 pm



How Science and Engineering contributes to Danish society

Per Falholt

CEO & Founder, Per Falholt Global R&D Advisory Services, Chairman of ATV's Science and Engineering Committee

Per Falholt founded his company, Per Falholt Global R&D Advisory Services in 2016, after a long career at Novo Nordisk A/S and Novozymes A/S. Clients include Corbion, Generation and Cibo. Since 2011, Per Falholt has been the Vice Chairman of DHI (water & environment), and since 2013, he has chaired the Board of Governors at the Technical University of Denmark (DTU). In 2017, Per Falholt joined the boards of Danfoss A/S and Universe Science Park. In the same year, he assumed the position as Programme Manager of the LIFE Project (science education) at the Novo Nordisk Foundation. Per Falholt holds numerous positions of trust within the biotech area at boards, councils and committees.

Programme

13.15 pm



Open Science – a new platform for approaching science, nucleate ideas, and meet collaborators

Kim Daasbjerg

Professor, Department of Chemistry, Aarhus University

Kim Daasbjerg obtained his PhD degree in 1993 in organic electrochemistry and has since then worked in different surface chemistry research areas at iNANO, Aarhus University. In 2006, he got his doctor of science degree, in 2010 a professorship at Aarhus University, and he is now director of the cross-disciplinary consortium MoAd (funded by Innovation Fund Denmark) that addresses adhesion technology. He also serves as vice director of CADIAC. As chairman of the Business Committee at iNANO and Department of Chemistry, Kim Daasbjerg also works on developing new models for the collaboration between industry and academia. Recently, he established the open science platform SPOMAN (www.spoman-os.org) that proposes a new type of scientific community. Both university and industrial researchers are invited to join forces in creating the knowledge foundation for smarter, more sustainable, and adaptive materials – as well as training new talent.

13.35 pm



Optimal research collaboration between universities and industry

Rasmus Larsen

Provost, DTU

Rasmus Larsen is the provost and an executive vice president at the Technical University of Denmark. He holds M.Sc.(Eng) (1991) and PhD (1994) degrees from DTU specializing in mathematical image analysis. Since 2008, he is a full professor in image analysis at DTU. Prior to his present position, he served as head of department for DTU Compute – the Department for Applied Mathematics and Computer Science. He is a member of ATV and elected to the ATV Presidium.

13.50 pm



How do we build the right competencies – when 65% of today's students will have jobs that don't even exist yet?

Charlotte Mark

Managing Director, Microsoft Development Center CPH

Charlotte Mark is Managing Director at Microsoft Development Center Copenhagen. The center creates cloud-based business applications for the global market. Charlotte joined Microsoft in 2004 following a career at Accenture working with leading Danish and international companies. She earned her cand.phil. in Human Centered Informatics from Aalborg University in 1990. Charlotte holds several trusted positions focusing on how we can attract international investments to Denmark and increase the talent pool to position Denmark in the global competition.

14.10 pm

Break and networking

Programme

14.30 pm

PARALLEL SESSIONS

SESSION 1: Computer Science as a strength position

Moderated by Professor Helle Rootzen, DTU Compute, Head of learnT, DTU Denmark has a strength position within computer science with world-class research in the whole country. Danish society and industry have a bigger need for research and educated people within computer science, due to the changes that digitalization brings. In this session, we will discuss how we can maintain and develop computer science as a strength position.



Stephen Alstrup
Professor
Department of Computer Science,
University of Copenhagen



Mikkel Thorup
Professor, Head of EADS and BARC
Department of Computer Science,
University of Copenhagen



Christian S. Jensen
Professor
Department of Computer Science,
Aalborg University



Michael Holm
CEO
Systematic A/S



Jeppe Rindom
CEO
Pleo



Michael Caspersen
Managing Director IT-Vest



Ole Lehmann Madsen
Professor, CEO
Aarhus University,
Alexandra Institute

SESSION 2: Maintaining a leading position within Life Science

Moderated by Professor Poul Nissen, Molecular Biology and Genetics, Aarhus University Denmark currently holds a leading position within lifescience and medtech and the potential for further growth within these sectors is substantial. However, the position is also challenged by rapid technological development that may transform these industries. Constant innovation is a prerequisite in order to stay in top. In this session, we will discuss how innovation takes place in different companies.



Dr. Karl Hollenbeck
Department Head
Scanner Technology,
3Shape



Kim Andersen
Senior Vice President
Head of Research
H. Lundbeck A/S



Jacob E. Nielsen
Co-founder
Cortrium



Thorsten Thormann
Vice President
Research,
Leo Pharma



Jørgen Ole Kjær
CEO
Spiromagic



Søren Mikkelsen
Corporate Vice President
Sustainable Device Innovation,
Novo Nordisk A/S

Programme



SESSION 3: Sustainable Development Goals

Moderated by Professor Michael Z. Hauschild, DTU Management Engineering The UN Sustainable Development Goals are both a challenge and also a great opportunity to Danish industry. How can Danish knowledge and technology contribute to fulfil the Sustainable Development Goals and, at the same time, make a profit for companies? In this session, we will discuss Danish challenges and opportunities and discuss how Danish companies can obtain a more leading role.



Claus Stig Petersen
Head of Corporate Sustainability
& EMEA Public Affairs,
Novozymes A/S



Flemming Besenbacher
Chairman, Professor
Carlsberg Group / Foundation,
iNano, Aarhus University



Katherine Richardson
Professor, Leader
Sustainability Science Center,
University of Copenhagen

16.30 pm

Walk from the session rooms to the main conference room

16.45 pm

Interview session: Science and Engineering learnings from the parallel sessions



Lars L. Nielsen
Managing Director
nielsennetwork
(Computer Science)



Helle Vang Andersen
Senior Vice President
COWI
(Sustainability)



Carsten Orth Gaarn-Larsen
CEO
CLEAN
(Life Science)

17.05 pm



The digital transformation of the economy

Jan Damsgaard
Professor, Head of Department of Digitalization, CBS, academy member of ATV, member of the Danish Disruption Council
Professor Jan Damsgaard is Head of The Department of Digitalization, Copenhagen Business School. In rankings the Department of Digitalization is number one in Europe and number 13 worldwide. Jan is a member of the Danish Government's "Disruption Council". In 2014, the Danish Academy of Technical Sciences appointed Jan to "National Digital Advisor". Jan's personal research focuses on the business aspects of digitalization and disruption including platform economics, IoT and Big Data. Before joining CBS, he worked and did research at numerous foreign universities in the USA, China, Finland and Australia.

17.25 pm

Closing

17.30 pm

Networking & Snacks

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VENUE

DGI-byen, Tietgensgade 65, 1704 København V

DATE

Thursday 9 November 2017

ATV

DANISH ACADEMY OF TECHNICAL SCIENCES
PHONE +45 45 88 13 11
ATVMAIL@ATV.DK
WWW.ATV.DK