

The future perspectives for Nordic engineers in the new world of work

Sveriges Ingenjörer
Malmskillnadsgatan 48
Stockholm

15th May 2017



AGENDA

09:30 **REGISTRATION AND COFFEE**

10:00 **OPENING AND WELCOME**
Trond Markussen, ANE President

10:10 **SPECIAL ADDRESS**
Jens Bundvad, General Secretary, Industrianställda i Norden

10:20 **ASSOCIATION OF NORDIC ENGINEERS - NEW STRATEGY**
Inese Podgaiska, ANE Secretary General
This presentation will focus on ANE vision and activities, its mission and objectives. What are the priority areas to pursue in the future? What ANE is known for and what needs to be done to get a better visibility? These questions will be disclosed to take stock of the ANE raison d' être.

11:00 **SHARING THE KNOWLEDGE AND LEARNING FROM EXISTING GOOD PRACTICES**
This session will provide an opportunity to learn about the low-hanging fruits, by getting inspiration from the existing initiatives and running projects in each organization.

Engineer the future is the branding campaigns project, which raises awareness of engineering and technology for young generation and pictures authentic stories about young generation changing the world.
Ghita Wolf Andreasen, Project Director, Engineer the Future

The political engineering is the project run by NITO with the aim at strengthening the political and economic role of engineers. The project promotes the profession of engineers in the society and their voice in influencing the policy processes.
Anne Cathrine Berger, Head of Policy department, NITO

The first engineer (Första Ingenjören) is a pilot project located in Jönköping that develops tools and methods and provides information to small companies to change attitudes and behaviour towards engineers. By employing their first engineer, the companies will recognize the benefits and potential of engineers.
Annika Jederström, Project manager, Sveriges Ingenjörer

12:30 **LUNCH**

Room: Mobilen

**New demands for skills and competences:
What is the impact on engineers?**

Setting the scene by

Malin Rosqvist, *Project leader for the PROMPT project at Mälardalen University*

Sverker Janson, *PhD, Director of Computer Systems Laboratory at the Swedish Institute of Computer Science*

Gunnar Karlsson, *Professor at The Royal Institute of Technology, Director of the Laboratory for Communication Networks*

The session will shed light on the new requirements for skills and competence acquisition to match rapidly changing demand for skills and knowledge. The session will look at the following questions: What kind of lifelong learning will be needed for engineers? How to improve quality and relevance of the available education and training? How can the organisation help its members to remain competitive and secure their employability?

Moderator: Jenny Grensman

Room: Datorgrafiken

**New challenges and opportunities of the digitalisation:
How can we secure new working life for engineers?**

Setting the scene by

Irene Mandl, *Head of Unit, Employment, Eurofound*

The session will take a closer look into existing and expected new employment forms in Europe, and consequences for engineers' future working life. The session will also allow the exchanging experience and discussion on the impact of new employment forms, technological development, globalisation and diversity at the workplaces and the very nature of work. Questions such as adoptability to new paradigms and patterns, role of engineers in digitalisation and new production technologies may also be addressed. Finally, it will also investigate the ways on how to influence new regulations and how to meet needs and respond to new demands of members in these times of constant change.

Moderator: Anne-Lise Mala Fredriksen

Room: Bankmaten

Artificial intelligence:

What is the engineers' role in ethics standards?

Setting the scene by

Gry Hasselbalch, ThinkDoTank: DataEthics, Vice-Chair of P7006 IEEE Standard for Personal Data Artificial Intelligence Agent

The session will generate discussion on how these autonomous and intelligent technologies can be aligned with the moral values and ethical principles of human beings. The following questions will be further explored: Should the engineers' associations be in the driving seat to identify and candidate the recommendations regarding these technologies and ethical issues? How to ensure that each technologist prioritises ethical considerations in the design and development of intelligent systems?

Moderator: Søren Lauridsen

15:00 **COFFEE BREAK**

15:30 **THE ENGINEERS WILL SAVE THE WORLD – THE WAY FORWARD**

The discussions during this session will be inspired by the key messages from each parallel session and the comments provided by the young generation of engineers. To understand their views, the following questions will be touched upon: What are the reactions of the young generation on the challenges and what are their ideas on how the opportunities to be seized? In addition, the discussion will allow collecting a set of useful recommendations to pave the way for the future ANE activities.

- **Ulrika Lindstrand**, *President, Sveriges Ingenjörer*
- **Thomas Damkjær Petersen**, *President, IDA*
- **Trond Markussen**, *President, NITO*
- **Harald Gade Andersen**, *student representative, IDA*
- **Lia Karida**, *Teknologrådet, Sveriges Ingenjörer*
- **Omar Samy Gamal**, *Head of NITO Students*

16:30 **CLOSING REMARKS**

Inese Podgaiska, ANE Secretary General

16:40 **FAMILY PHOTO**

18:00 **SOCIAL GATHERING AND DINNER**