

SWEDISH FOUNDATION FOR STRATEGIC RESEARCH



*Electronics and
Photonics Conference*



LINDHOLMEN SCIENCE PARK, GÖTEBORG, SWEDEN, MAY 9–10, 2011

SWEDISH FOUNDATION FOR STRATEGIC RESEARCH ■ ANNOUNCES

The Swedish Foundation for Strategic Research is one of the major financing bodies within the scientific area of electronics and photonics in Sweden. The purpose of the conference is to put the electronics and photonics research in Sweden in an international context, to give a taste about the state of the art and to discuss some common opportunities and problems within the area.

Place: Lindholmen Science Park, room Pascal

Language: The conference will be conducted in English.

Participation: Free of charge – although the number of participants is limited to 150.

Registration: Register before April 12 on web page available at: www.stratresearch.se.

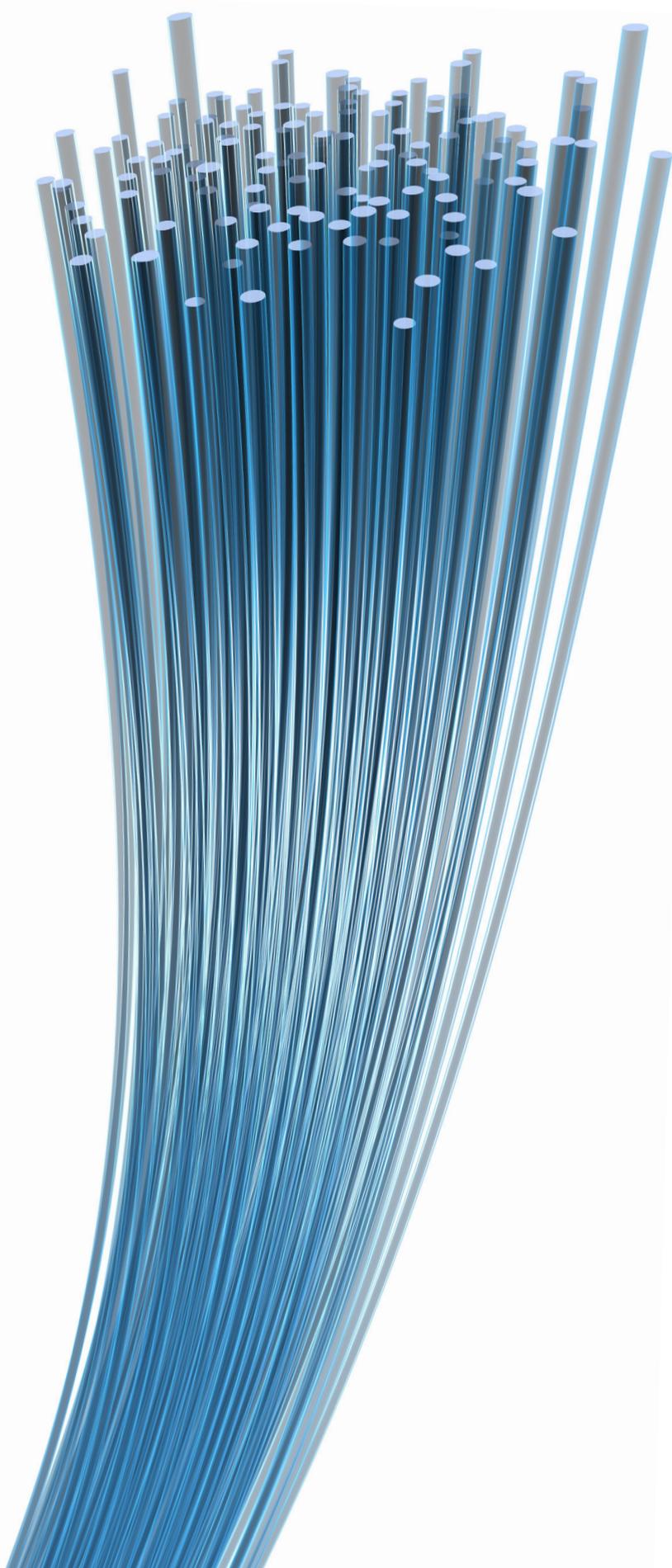
Accommodation: The participants make their own hotel reservations. Hotels in Göteborg can be booked at: www.goteborg.com.
One close option is: www.hotel11.se.

Organizing committee:

Local Host: Prof. Peter Andrekson, Chalmers
peter.andrekson@chalmers.se, +46 31 772 16 06

Dr. Joakim Amorim, Swedish Foundation for Strategic Research (SSF), joakim.amorim@stratresearch.se, +46 8 505 816 65

Dr. Per Andersson, Chairman of the SSF Programme Committee, per@palenetworks.com



PROGRAMME

MAY 9

Coffee available from 09.00

1. Introduction

- 09.30 Welcome, Quick overview of the electronics and photonics research environment at Chalmers University of Technology, Prof. Peter Andrekson, Chalmers
- 09.50 Challenges for an independent, topic oriented and small funding agency, Prof. Lars Rask, Executive Director, Swedish Foundation for Strategic Research

2. Industry R&D perspectives

- 10.10 Electronics R&D at ABB – a large company perspective, Dr. Christer Ovrén, ABB AB
- 10.40 Electronics R&D at Nanoradio – a small company perspective, Mr. Tord Wingren, Nanoradio AB
- 11.10 Photonics R&D at Syntune – a small company perspective, Dr. Patrik Ewaldsson, Syntune
- 11.40 Lunch

3. Examples of international strategic research

- 13.00 Applied nanoelectronics research, Prof. Walter Riess, IBM, Zurich, Switzerland
- 13.30 Directions in Electronics Research, Prof. Jan Rabaey, University of California, Berkeley, US
- 14.00 Applied Photonics Communications Research, Prof. Klaus Petermann, Technische Universität Berlin, Germany
- 14.30 Coffee

4. Examples from Swedish strategic research

- 15.00 Graphene – from academic discovery to future practical use, Prof. Mikael Fogelström, Chalmers
- 15.20 Algorithms for future signal processing, Prof. Erik G. Larsson, Linköping University
- 15.40 DSP Platforms for emerging telecommunication and multimedia, Prof. Dake Liu, Linköping University
- 16.00 III-nitrides for UV and high frequency applications, Prof. Erik Janzén, Linköping University
- 16.20 Increased integration and functionality in photonic circuits, Prof. Min Qiu, Royal Institute of Technology
- 16.40 Break

5. Reports from Asia

- 17.00 Electronics and Photonics in Japan, Prof. Anders Karlsson, Science Counsellor, Embassy of Sweden, Tokyo, Japan

- 17.30 Electronics and Photonics in China, Dr. Magnus Breidne, Former Science Counsellor, Embassy of Sweden, Beijing, China

6. Poster session

Drinks and snacks
Each SSF-programme may present maximum two posters.

- 19.30 Dinner

MAY 10

Mid-term presentations of SSF-funded five-year projects

Presentations 20 min and questions 10 min

- 08.30 Flexible and low-power wireless transceiver platforms, Prof. Atilla Alvandpour, Linköping University
- 09.00 System on Chip solutions for future high speed communication, Prof. Herbert Zirath, Chalmers
- 09.30 WWW – Wireless with Wires, Prof. Lars-Erik Wernersson, Lund University
- 10.00 OPEN – Organic hybrid printed electronics and nanoelectronics, Prof. Magnus Berggren, Linköping University
- 10.30 Break
- 11.00 Laser and System Technologies for Access and Datacom, Prof. Anders Larsson, Chalmers
- 11.30 Next generation optical communication systems, Prof. Peter Andrekson, Chalmers
- 12.00 Wireless Communication for Ultra Portable Devices, Prof. Henrik Sjöland, Lund University
- 12.30 Closing and final words, Dr. Per Andersson, Chairman of the SSF Programme Committee
- 12.45 Lunch
- 14.00 – Internal meeting for the international expert committee – report writing for SSF
- 19.00

Expert committee

Mr. Tord Wingren, Nanoradio, Chair
Prof. Walter Riess, IBM, Zurich
Prof. Jan Rabaey, University of California, Berkeley
Prof Klaus Petermann, Technische Universität Berlin

THE SWEDISH FOUNDATION FOR STRATEGIC RESEARCH

- Supports research and graduate training in natural science, engineering and medicine for the purpose of strengthening Sweden's future competitiveness
- Finances a large number of research projects at universities and colleges, many in collaboration with industry
- Awards individual grants to particularly prominent researchers
- Supports important areas such as biotechnology, materials development, microelectronics, information technology and product realisation
- Has an annual payment volume of about SEK 600 million
- Has a capital base of nearly SEK 10 billion



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