The 2nd Nordic ESD Conference
International conference on ESD

September 5 - 6, 2006, Karlskoga, Sweden

The conference
Örebro University and Elektronikcentrum Karlskoga (ECK) invite you to The 2nd Nordic ESD Conference to be held in Karlskoga in the central part of Sweden. The conference is international and the theme this year is:

ESD from the Automotive perspective

The conference will be devoted to: Electrostatics in general, Nuisance discharges to people, Ignition risks, Electronic component damage, Electronic system malfunctions, ESD protection techniques and applications related to automotive engineering. The conference will consist of technical presentations, posters and an exhibition. Posters, Papers and oral presentations will be in English.

Technical Papers
The ECK Program Committee solicits paper and poster contributions, which advance (or describe) the state-of-the-art knowledge, enhance or renew the general knowledge or discuss new topics related to electrostatic/ESD. Contributions will be published in the Conference Proceedings and distributed to all participants at the conference. Authors are responsible for the contents of their papers.

Authors/speakers of selected papers will be notified not later than March 31, 2006.

Full Papers and presentations
Final papers will be limited to a maximum of 8 pages (A4). Guidelines will be provided after acceptance of the paper. The oral presentations in English, will be limited to 25 minutes including time for questions.

Deadline for Full papers: August 1, 2006

Poster sessions
Two poster sessions will be held during the conference. Posters should be limited to the size of approx. one A1 (equal to 8 x A4). Speakers and authors of accepted papers are encouraged to also submit a poster version of their work.

Deadline for Poster contributions: August 1, 2006

Abstracts
Authors have to submit an abstract (1 - 2 pages, A4) of their work. The summary should state the purpose, results and conclusions of the work. Please submit your work in pdf or Word format via e-mail to: dag.stranneby@tech.oru.se

Extended deadline for Abstracts:
March 14, 2006
Exhibitions
The exhibition area will be open during the entire conference. Companies interested in participating in the exhibition should contact Rolf Blom: rolf.blom@eck.se

Exhibition area fee (VAT will be added):
Area 5 m², table, 230 VAC SEK 3000:-

Deadline for reserving exhibition area: August 1, 2006

Conference fee
The conference fee includes lunches, coffee, barbecue and proceedings (VAT will be added).

Reduced fee:
Company members of ECK SEK 2500:-
Non-members of ECK SEK 3000:-
Speakers/authors SEK 1200:-

Deadline for reduced fee: April 2, 2006
After the deadline above, late registration fee is charged (VAT will be added).

Late registration fee SEK 3500:-

Deadline for registration: August 15, 2006

Program Committee
Rolf Blom
ECK AB, Sweden

Sylvia Lüttgens
Elstatik foundation, Germany

Günter Lüttgens
Elstatik foundation, Germany

Anders Molander
Kitron AB, Sweden

Anders Thulin
ATC AB, Sweden

Göran Andersson
ARMEKA AB, Sweden

Birgitta Andersson
Örebro University, Sweden

Dag Stranneby
Örebro University, Sweden

Where is Karlskoga?
Karlskoga is a mid-sized, industrial city on lake Möckeln, in the central part of Sweden. It is perhaps most known for being the home of Alfred Nobel and the company Bofors.

Karlskoga is situated on highway E18, roughly half-way between Stockholm and Oslo. It is easy to go there by car or by bus from e.g. Örebro or Karlstad.

Nearest railway station is Degerfors and nearest airport is Örebro.

More information about Karlskoga can be found at: http://www.karlskoga.se

More information
For further information please contact:

Rolf Blom
Elektronikcentrum i Karlskoga AB
Pressarvägen 4
SE-691 52 Karlskoga
SWEDEN

Phone: +46 586-821 90
Fax: +46 586-22 22 86
E-mail: rolf.blom@eck.se
Web: http://www.eck.se/
Hotels

**Bofors Hotell**
tel +46 586-811 00  
fax +46 586-811 50  
boforshotell@boforssupport.saab.se  
http://www.boforshotell.com/

**Hotell Krey**
tel +46 586-358 00  
info@hotellkrey.se  
http://www.hotellkrey.se/

**Hotel Alfred Nobel**
tel +46 586-364 40  
fax +46 586-573 40  
info@hotellalfrednobel.com  
http://www.hotellalfrednobel.com/start.html

**Karlskoga Hotel**
tel +46 586-637 40  
fax +46 586-637 45  
info@karlskogahotel.se  
http://www.karlskogahotel.se/eng/index.htm

Hostels, economy hotels

**Zlafen Bed & Breakfast**
tel +46 586-521 10  
fax +46 586-691 10  
piape2000@yahoo.se  
http://www.zlafen.se/

**Karlskoga Folkhögskola Vandrarhem SVIF**
tel +46 586-646 00  
fax +46 586-646 22  
karlskoga.fhsk@folkbildning.net  
http://www.folkbildning.net/%7Efhsk.karlskoga/fhs_start.htm

**Äventyrslogi Boda Borg**
tel +46 586-77 11 30  
fax +46 586-330 66  
bodaborg@telia.com  

Tourist information office

tel +46 586-614 74  
fax +46 586-619 60  
turism@karlskoga.se  
http://www.karlskoga.se/homepage/engweb.nsf

The conference venue

The conference will be held at the **Björkborn Manor**, the home of Alfred Nobel in Karlskoga.

Alfred Nobels Björkborn, is the only Nobelmuseum in the world showing his home, the manor of Björkborn and his laboratory where he developed many of his inventions.

More information on The Björkborn Manor and Alfred Nobel:

http://www.karlskoga.se/homepage/engweb.nsf  
http://www.nobelmuseetkarlskoga.se/  
http://nobelprize.org/nobel/alfred-nobel/vr-bjorkborn/
# Preliminary program

## The 2nd Nordic ESD Conference

**International conference on ESD**

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<tr>
<td>15.00</td>
<td>Registration, coffee</td>
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<tr>
<td>19.00</td>
<td>Get together party, visit to Bofors Industrial Museum</td>
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<th>September 5</th>
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<tr>
<td>08.00</td>
<td>Registration, coffee, exhibition</td>
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| 10.00       | **Welcome ceremony:** Mayor *Margareta Karlsson*, Karlskoga Municipality | **Keynote speakers:** Dr *Jeremy Smallwood*, Electrostatic Solutions Ltd, UK  
*Static electricity and cars, car park shocks and refuelling ignition risks*  
...  
... |
| 13.00       | **LUNCH** |
| 14.00       | Session 1a:1 | Session 1b:1  
**Dipl.-Ing Hartmundt Berndt**  
**B.E.STAT** ESD competence centre, Germany  
**Electrostatic discharge (ESD) and the Technology Roadmap of the Semiconductor Industries to 2015** |
| 14.30       | Session 1a:2 | Session 1b:2  
**Günter Lüttgens, Syliva Lüttgens**, Elstatik Foundation, Germany  
**Propagating Brush Discharges in Hoses and Pipes equipped with Non-conductive liners** |
| 15.00       | Session 1a:3 | Session 1b:3  
**Birgitta Andersson**, Örebro University  
**Lars Fast**, SP Swedish National Testing and Research Institute  
**A method to identify ESD-risks** |
| 15.30       | Session 1a:4 | Session 1b:4  
**Birgitta Andersson**, Örebro University  
**Lars Fast**, SP Swedish National Testing and Research Institute  
**Potential ESD risks due to charged drivers** |
| 16.00       | Poster session and exhibition |
| 19.00       | Barbecue and pub |
# Preliminary program

## The 2nd Nordic ESD Conference

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<tr>
<td><strong>08.00</strong></td>
<td><strong>Poster session and exhibition</strong></td>
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| **09.00**   | **Session 2a:1**  
  Günter Lüttgens, Sylvia Lüttgens, Elstatik Foundation, Germany  
  *A new method for Determining Electrostatic Ignition Potentials*  
  **Session 2b:1**  
  Lars Fjellner, Solectron  
  *C the speed limiting factor for ESD* |
| **09.30**   | **Session 2a:2**  
  **Session 2b:2**  
  Lars Fjellner, Solectron  
  *C the speed limiting factor for ESD* |
| **10.00**   | **Session 2a:3**  
  **Session 2b:3**  
  Dipl.-Ing Hartmundt Berndt  
  B.E.STAT ESD competence centre, Germany  
  *Experiences at the measurement of packaging material for electronic devices according to the standard IEC 61340-5-1 and S541* |
| **10.30**   | **Coffee** |
| **11.00**   | **Session 2a:4**  
  Dipl.-Ing Hartmundt Berndt  
  B.E.STAT ESD competence centre, Germany  
  *Experiences at the measurement of packaging material for electronic devices according to the standard IEC 61340-5-1 and S541* |
| **11.30**   | **Session 2a:5**  
  **Session 2b:5** |
| **12.00**   | **LUNCH** |
| **13.00**   | **Practical demonstration (outdoors)** |
| **14.15**   | **Session 3:1**  
  Yousef Hojjat, Mehdi Modabberifar, Department of Mechanical Engineering, Taribat Modarres University, Theran, Iran  
  *Numerical method for calculating a non-uniform travelling field* |
| **15.00**   | **Coffee** |
| **15.15**   | **Panel discussion** |
| **15.45**   | **Best paper award, closing ceremony** |