

The

29th European Symposium on Reliability of Electron Devices, Failure Physics and Analysis

Aalborg – Denmark 1-5 October 2018

Exhibition Brochure and Application Form





Welcome

Dear companies,

We are glad and proud to welcome you in Aalborg, the capital city of North Jutland region. This edition of ESREF will be a unique one, in particular for exhibitors. In fact, more than **400** participants are expected from all over the world, 50% of them from companies or private research institutions. On top of it, exhibitors will be able to invite external visitors to the stands and offer them coffee.

Aalborg University is the Danish university with the strongest academic environment and it is number 8 in the world and the best in Europe within the field of Engineering (source from <u>US News World Rank 2018</u>). This ranking is based on various indicators, such as project-portfolio, industrial relations, global reputation, research impact, publications and top-professors in terms of research impact. It will maintain the momentum of past ESREF conferences as well as introduce new aspects of topics, especially in the field of reliability of power electronic components and systems.

The venue is particularly convenient as Aalborg airport has plenty of daily flights from and to Amsterdam and Copenhagen, where international and intercontinental connections are available. AKKC – the Aalborg Congress and Culture Centre – is less than 20-minute drive from the airport, with direct buses all day and a very convenient taxi service.

In this brochure, you find all the relevant information regarding the exhibition. Thirty booths of three sizes are available. The availability is based on a first-come-first-served basis. You are most welcome to ask for specific request, such as two or three adjacent booths and special facilities. In the end of this brochure, you can also find the exhibition application form, ready to be subscribed.

We are also sure that you will enjoy the ESREF2018 app, where all exhibitors will be listed with their logos, summary and contact reference. The app will be made available on both Google Play store and Apple app store, and will include networking and chat opportunities. Do not hesitate to ask us about special advertisement requests; we are sure we can find the way to help you.

Not lastly, let us seize the opportunity to thank the exhibition & sponsors secretaries Maria Hald Friis and Hanne Munk Madsen.

We look forward to seeing you in Aalborg,

ESREF 2018 Industrial and Sponsorship Chairs
Paula Díaz Reigosa and Pooya Davari

Francesco Iannuzzo, ESREF 2018 General Chair Frede Blaabjerg, ESREF 2018 Vice Chair

ESREF 2018



General Information

Conference Venue

One of Scandinavia's largest and most flexible congress centres, Aalborg Congress & Culture Centre (http://uk.akkc.dk/), sets the perfect frame for ESREF 2018. The state-of-the-art facilities enjoy a prime location right next to Kildeparken, Aalborg's main city park. The congress centre, located less than 20 minutes' drive from the airport (5 km) and 10 minutes on foot from the bustling city centre (800 m), comprises 7,000 m² of exhibition space, three conference auditoria and 40 separate group and meeting suites. The largest auditorium has capacity for up to 2,400 people.

ESREF 2018 Organizing Committee

Conference Chair & Vice-Chair

F. IANNUZZO Aalborg University (Denmark)
F. BLAABJERG Aalborg University (Denmark)

Technical Program Chairs

M. CIAPPA ETH Zurich (Switzerland)
P. COVA University of Parma (Italy)
G. MENEGHESSO University of Padua (Italy)

Industrial and sponsorship chairs

P. DAVARI Aalborg University (Denmark)
P. DÍAZ REIGOSA Aalborg University (Denmark)

Tutorial chair

T. DRAGICEVIC Aalborg University (Denmark)

Workshop chair

Y. YANG Aalborg University (Denmark)

Best Paper Award chair

N. LABAT IMS Bordeaux (France)

Local Organizing Committee

A. L. HENRIKSEN

M. HALD FRIIS

Alborg University (Denmark)

Alborg University (Denmark)

H. MUNK MADSEN

Alborg University (Denmark)

Organization Secretariat

U. MØLLER JAKOBSEN VisitAalborg (Denmark)H. BUGGE MORTENSEN VisitAalborg (Denmark)



Conference Support

R. STROE Aalborg University (Denmark)
R. SANCHEZ Aalborg University (Denmark)

Webmaster

L. CECCARELLI Aalborg University (Denmark)

ESREF 2018 Exhibition Contact

ESREF 2018 Secretariat Exhibitor/Sponsor

Attention: Maria Hald Friis

Department of Energy Technology

Aalborg University

Pontoppidanstraede 111, 9220 Aalborg, Denmark

Email contact: expo@esref2018conf.org



Program Summary

CONFERENCE VENUE AKKC – Aalborg Kongres & Kultur Center

Europa Pl. 4

9000 Aalborg, Denmark

DATES 1-5 October, 2018

EXHIBITION CONTACT EMAIL: expo@esref2018conf.org

ESREF 2018

Pontoppidanstraede 111, 9220, Aalborg,

Denmark

WELCOME COCKTAIL Monday October 1st 2018

GALA DINNER Wednesday October 3rd 2018

OFFICIAL LANGUAGE The official language of the conference is English



Target Groups

- Microelectronics manufacturers
- Power devices and component manufacturers
- Packaging and assembly companies
- Material suppliers
- OEMs, particularly automotive
- Failure analysis equipment suppliers
- MEMS, sensors and organic electronics manufacturers
- Optoelectronic manufacturers
- Wafer suppliers

Topics

- Automotive electronics reliability
- Reliability of nano- and microelectronics for the connected world
- Reliability of power electronics for energy efficiency and industrial applications
- Reliability of photonics and MEMS
- Security and safety
- Innovative failure diagnostics and quality control
- Reliability concepts and modelling
- Reliability of Wide Band Gap devices
- Advanced packaging and interconnections reliability for power devices



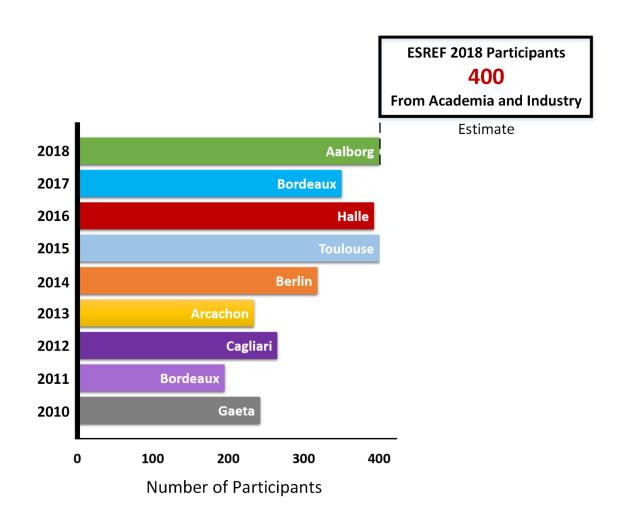
Conference Tracks

- A. Quality and Reliability assessment techniques and methods for Devices and Systems
- B1. Si-Technologies & Nano electronics: Hot carriers, high K, gate materials
- B2. Si Technologies & Nano electronics: Low K, Cu Interconnects
- B3. Si-Technologies & Nano electronics: ESD, Latch-up, radiation effects
- C. Progress in Failure Analysis: Defect Detection and Analysis
- D. Reliability of Microwave and compound semiconductors devices
- E1. Power Devices Reliability: Silicon and Passive
- E2. Power Devices Reliability: Wide Bandgap Devices
- F. Packaging and Assembly Reliability
- G. MEMS, Sensors and Organic Electronics Reliability
- H. Photonics Reliability
- I. Extreme Environments and Radiation
- K. Renewable Energies reliability
- L. Modeling for reliability
- SS1. Special session: Reliability in traction applications



ESREF Conferences Facts and Figures

Number of Participants





Previous Exhibitors

Accel-RF Corporation, USA MB Electronique, France

Advantest Corporation, Japan Mentor Graphics - Mechanical Analysis, USA Allied High Tech Products Inc., USA Mesoscope Professional Probe Tips, Taiwan

Attolight, Switzerland

FormFactor, EE.UU MSSCORPS CO., LTD., Taiwan

Checkpoint Technologies, LLC, USA Neocera, USA

DIGIT CONCEPT, France Oxford Instruments NanoAnalysis, UK

Elemca, France PAC-Grenoble and SERMA Technologies, France

Eo Elektronen-Optik-Service GmbH,

Germany

PacTech - Packaging Technologies, Germany

Fraunhofer IMWS-CAM, Germany Park System Europe, Korea

Fraunhofer IZM, Germany PM Professional Maintenance Service und Waturngs

GmbH, Germany

Gatan GmbH, Germany Point electronic GmbH, Germany

Hamamatsu Photonics, Japan Predictive Image, France
Hitach Power Solutions Co, Ltd, Japan PVA TePla GmbH, Germany

Imina Technologies SA, Switzerland RoodMicrotec, Netherlands

Infrarred Laboratories, USA Sector Technologies, France

Insidix, France Serma Technologies, France

Intraspec Technologies, France SmarAct GmbH, USA IRT Saint Exupery, France Tescan, Czech Republic

Kleindiek Nanotechnik, Germany Thales, France

Kummer Semiconductor Technology,

Switzerland

Thales Communications & Security, France

LatticeGear, USA QualiTau, US

Maser Engineering, Netherlands Zurich Instruments, Switzlerland



Exhibition Packages

Companies wishing to exhibit at the 29th European Symposium on Reliability of Electron Devices, Failure Physics and Analysis (ESREF2018) can tailor their marketing strategy by purchasing items as described in the next paragraphs.

Exhibition packages	Price	
Big booth (9 m ²)	Special price before December 31, 2017	3,150€ + VAT¹
	Early-bird price, before June 30, 2018	3,900€ + VAT¹
	After June 30, 2018	4,400€ + VAT¹
Standard booth (6 m ²)	Special price before December 31, 2017	2,100€ + VAT¹
	Early-bird price, June 30, 2018	2,625€ + VAT¹
	After June 30, 2018	3,000€ + VAT¹
Small booth (4 m ²)	Special price before December 31, 2017	1,900€ + VAT¹
	Early-bird price, June 30, 2018	2,425€ + VAT¹
	After June 30, 2018	2,800€ + VAT¹

¹ 25% VAT is not included in the above prices

Booth description

Big booth (9 m^2) – (Please refer to the above form for price information)

- Basic stand construction with rear and dividing walls (white)
- Fascia board (white) with company name/logo (3-meter fascia on front of stand)
- Carpet (choose between blue, red, green, black, anthracite, grey)
- 9 m² free exhibition space
- 1 power socket 230V / 2.000 kW
- 3 spotlights (200W halogen spotlight on 50 cm arm for installation on rear wall)
- 1 coffee table
- 2 chairs
- Wireless internet
- Vacuuming of the floor area and emptying of waste paper baskets (for each day)
- Acknowledgement as "Exhibitor" in publications related to the conference
- Acknowledgement on the conference website as "Exhibitor"
- 1 free exposition-only registration (including all exhibition caterings: coffee breaks, cocktails, lunches and gala dinner)



Standard booth (6 m²) -- (Please refer to the above form for price information)

- Basic stand construction with rear and dividing walls (white)
- Fascia board (white) with company name/logo (3-meter fascia on front of stand)
- Carpet (choose between blue, red, green, black, anthracite, grey)
- 6 m² free exhibition space
- 1 power socket 230V / 2.000 kW
- 3 spotlights (200W halogen spotlight on 50 cm arm for installation on rear wall)
- 1 coffee table
- 2 chairs
- Wireless internet
- Vacuuming of the floor area and emptying of waste paper baskets (for each day)
- 1 free exposition only registration (including all exhibition caterings: coffee breaks, cocktails and lunches)
- Acknowledgement as "Exhibitor" in publications related to the conference
- Acknowledgement on the conference website as "Exhibitor"

Scale drawing – AKKC standard stand equipment, technical dimensions

Stand walls/fascia boards - white

Material: HDF (hard plate) Plate thickness: 4 mm

Frame/profiles (horizontal)

Material: Aluminium

Frame/profile grooves: 0.8 cm

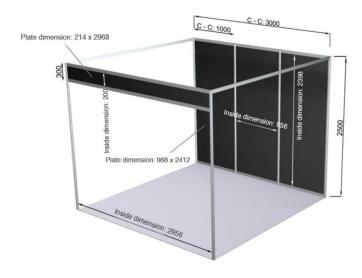
Height 5 cm Width 1.6 cm

Columns/posts (vertical)

Material: Aluminium

Column/post grooves: 0.8 cm

Diameter: 4.4 cm



Example of 3 m x 3 m booth



Small booth (4 m^2) – (Please refer to the above form for price information)

- Basic stand construction with rear and dividing walls (white)
- Fascia board (white) with company name/logo (2-meter fascia on front of stand)
- Carpet (choose between blue, red, green, black, anthracite, grey)
- 4 m² free exhibition space
- 1 power socket 230V / 2.000 kW
- 3 spotlights (200W halogen spotlight on 50 cm arm for installation on rear wall)
- 1 coffee table
- 2 chairs
- Wireless internet
- Vacuuming of the floor area and emptying of waste paper baskets (for each day)
- Acknowledgement as "Exhibitor" in printed materials related to the conference
- Acknowledgement on the conference website as "Exhibitor"
- 1 free exposition only registration (including all exhibition caterings: coffee breaks, cocktails, lunches)

Booth numbers (see conference plan on page 16)

	Booth numbers
Big booth (9 m²)	17, 18, 19, 20, 21, 22, 23, 24 and 25
Standard booth (6 m²)	2, 3, 6, 7, 9, 10, 11, 12 ,13, 14, 15, 16, 26, 27, 28, 29 and 30
Small booth (4 m ²)	1, 4, 5 and 8



Commercial exhibition information

The exhibition will be located at the Aalborg Congress & Culture Centre (http://uk.akkc.dk/). The conference program will be structured to maximize the opportunity for delegates to visit the commercial exhibition. All the coffee breaks, lunches and cocktail will be held in the exhibition area. Poster session, Author Comers, Photo contest and related award ceremony (to be confirmed) will be held in the exhibition area.

Exhibition-only hours will be arranged in conjunction with the opening cocktail (Monday evening) and with poster session, along with daily lunches.

Exhibition set-up is tentatively scheduled Monday October 1st 10:00 – 14:00

Dismantling is tentatively scheduled Thursday October 4th 15:50 – 18:30

Opening hours

Tuesday October 2: 8:40 – 17:50 (Lunch from 12:20 to 13:40) Wednesday October 3: 8:40 – 17:50 (Lunch from 12:20 to 13:40)

Thursday October 4: 8:40 – 12:50



Exhibition Application Form

Please complete and sign both the present booking form and the attached Terms and Conditions and return it by post or scan and email to the Organization secretariat:

ESREF 2018 Secretariat Exhibitor/Sponsor

Attention: Maria Hald Friis

Department of Energy Technology, Aalborg University

Pontoppidanstraede 111 9220 Aalborg, Denmark

email: expo@esref2018conf.org

Exhibitor – Booking Form				
Company name ("The Exhibitor"):	-			
TAX Registration Number:				
Contact Person:				
Full Address	Street name and number: Post code: City: Country:			
Phone:				
Mobile:				
Email:				
Item (refer to the exhibition floor plan on page 14)		Price		
Big Booth(s) (9 m²) # (comma separated):	Special price before December 31, 2017 3,150€ Early-bird price, before June 30, 2018 3,900€ After June 30, 2018 4,400€			
Standard Booth(s) (6 m²) # (comma separated):	Special price before December 31, 2017. 2,100€ Early-bird price, June 30, 2018			
Small Booth(s) (4 m²) # (comma separated):	Special price before December 31, 2017. 1,900€ Early-bird price, June 30, 2018			
Additional expo-only registrations (including catering at exposition and gala dinner)	Per person400€			
	Total before VAT:			
	VAT 25%:			
	Total after VAT:			

The Exhibitor agrees to pay the total amount of the sponsorship price by 14 days after date of invoice.

Exhibitor's signature below indicates that Exhibitor has read understands, and agrees to be bound by all the

Exhibitor's signature below indicates that Exhibitor has read, understands, and agrees to be bound by all the terms and conditions of this form (including the Terms and Conditions, which is part of this Agreement). Exhibitor has raised and obtained satisfactory answers to any questions about the clarity, legibility, or readability of this form, including Terms and Conditions. This form and the Terms and Conditions must be signed and returned to the ESREF2018 Organizers for application to be processed. This application is legally binding the company pending its acceptance in writing by the organizer.

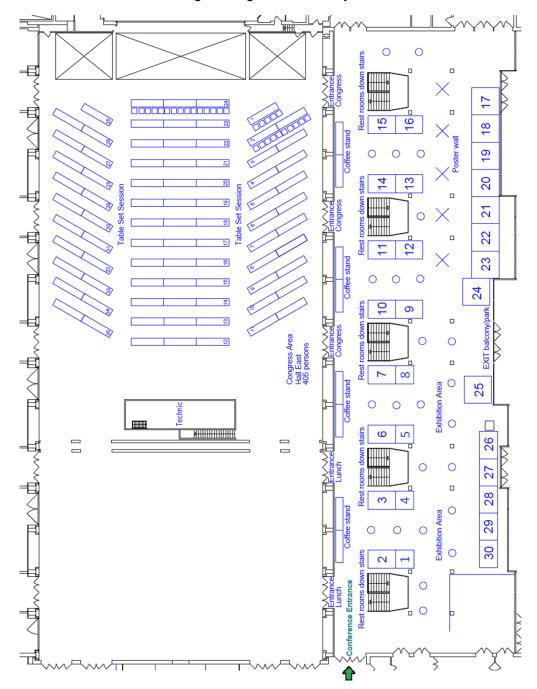
Name (in capital letters):	Signature:
Date:	



Conference Floor Plan

(Please select the available booth location, i.e., 1 to 30, as a part of the signed contract)

Floor loading: 500 kg/m² if uniformly distributed



ESREF 2018



Payment Information

General Information

All above rates are in Euro.

According to the Danish Tax Policy, the Value Added Tax (VAT) is currently 25% and it is not included in the reported rates.

Payment deadline

Upon receipt of the signed application form and acceptance of Terms and Conditions, an invoice will be sent by VisitAalborg Production A/S. Payment is due 14 days from invoice date.

Payment methods

Exhibition and Sponsorships payment should be sent to: VisitAalborg Production A/S, Kjellerups Torv 5, level 13, 9000 Aalborg, Denmark

Bank account details

The bank transfer should be made to: Danske Bank. Bank code: 4368, Account No: 4368019909 in favor of VisitAalborg Production A/S. BIC/Swift: DABADKKK. IBAN: DK4230004368019909. Reference: ESREF 2018. Invoice number.



Terms and Conditions

1. Set up and dismantling of stands

Exhibitors are responsible for the setting-up and dismantling of stands (except walls).

The floors, walls, fascia, columns etc., of the exhibition buildings must not be scratched, painted, damaged or be subjected to self-adhesive materials.

Any damage is to be made good by the Exhibitor. Objects, which may damage the floor, must be placed on a protective underlay. No exhibited goods may be removed from the Exhibitor's stand before the conclusion of the event. The Organizer is entitled, at the expense and risk of the Exhibitor, to remove all goods and all display materials etc., which have not been removed by the Exhibitor by the set deadline. The Organizer is entitled to the Exhibitor's risk and expense to dispose of all products and equipment, etc., which are not removed by the Exhibitor within the prescribed times. Equipment and stand material which are higher than the normal building height of 250 cm require the Organizer's approval.

2. Special regulations concerning fire prevention

Stands on which cylinder gas, inflammable liquids and other combustible materials are used or exhibited must be approved by the fire authorities in each case and in plenty time before the opening of the exhibition. All display materials must be fireproofed.

3. Cleaning

Cleaning of stand areas is included in the contract rental. Cleaning includes vacuuming, emptying of waste paper baskets but not cleaning of the exhibits.

4. Serving of food and beverages

The restaurateur of Aalborg Congress and Culture Center has the sole and exclusive right to supply and serve food and beverages within the area of the event, apart from that consumed by staff. The distribution of taste samples or the sale of food and beverages from stands may only take place with the prior approval of the Organizer.

5. Packaging

Empty packaging must not be stored in the exhibition area but be placed in the location indicated.

6. Smoking

Smoking is not allowed inside Aalborg Congress and Culture Center.

7. Special conditions

Exhibitors are required to register the type and make of all exhibited goods. If an Exhibitor participates with goods other than those originally registered and thereby has obtained a stand location, which is not in accordance with the trade sectioning determined by the Organizer, the Organizer has the right to refuse or to relocate the exhibitor concerned.

Sub-lending or sub-letting of the right to use the stand is not permitted under any circumstances. The Exhibitor may not advertise for companies not registered as Exhibitors in any way.

8. Registration / right to make changes



Signing the contract makes binding registration. Within 30 days after receipt of the contract from the exhibitor, the Organizer is entitled, without giving reason and without incurring any liability for damages, to annul completely any lease entered into, against repayment of any stand rental paid.

9. Force majeure

In case that war, mobilization, strike, lock-out, fire instructions from public authorities or other circumstances beyond the power of the Organizer should make impossible or seriously hinder the carrying out of an event, the Organizer is entitled to move the event, wholly or in part, to another locality, limit stand areas or annul agreements entered into, without thereby incurring liability for damages to Exhibitors. The Organizer shall at its sole and exclusive discretion, determine an equitable basis for the refund of such portion of the fees as is possible, after due consideration of expenditures and commitments already made.

10. Responsibility / insurance

The Exhibitor is responsible for any injury to persons, damage to buildings or equipment caused by the Exhibitor, the Exhibitor's employees or the Exhibitor's exhibited goods or display materials. Exhibitors are not entitled themselves to repair damages. The Organizer is only responsible for damage due to errors or omissions caused by his own employees of the Organizer. All exhibited goods and display materials remain, in all respects, the responsibility of the Exhibitor and at the Exhibitor's risk.

It is in the Exhibitor's own interest to take out all necessary insurance. The Organizer denies all responsibilities for injuries to persons, damage to the exhibited and displayed materials etc., including responsibility for any loss suffered by the Exhibitor caused by failures of electricity and water supply, all forms of supply line breakage, flooding, natural disasters etc.

11. Breach

In the event that the Exhibitor or the Organizer materially breaches its obligations according to the Agreement, including these Terms and Conditions, the other party may terminate the Agreement, The breach must be substantial. However, the Agreement may only be terminated if the breaching party has not remedied such breach within reasonable time after receipt of a written demand.

12. Cancellation fees

Before March 1st, 2018: 50% of the rent.

Before June 30th, 2018: 75% of the rent.

After July 1st 2018: no refunding.

13. Law and venue

The Agreement, including these Terms and Conditions, shall be governed by Danish Law, however, with the exception of Danish international private law and rules concerning choice of law, to the extent that such rules would lead to the application of another country's law. Any dispute between the Parties arising from this Agreement, including interpretation and application of the Agreement, and which cannot be settled amicably by the Parties, shall be tried by the Court of Aalborg as the court of first instance.

Name (in capital letters):	Signature:	
Date:	_	



Access Aalborg Congress & Culture Centre

Aalborg Congress & Culture Centre, Europa Plads 4, 9000 Aalborg, Denmark Tel. (+45) 99 35 55 55

By car

Copenhagen and Germany has direct motorway connections to Aalborg. Arriving in Aalborg, you have direct access to the city center by motorway E45 exit no. 27.

GPS coordinates

Degrees of longitude: 57.043666 N degrees of latitude: 9.912683 E

Parking

In the area around Aalborg Congress & Culture Centre, you find more than 700 parking spaces.

Fee: DKK 7/hour

Weekdays from 8 am to 7 pm Saturdays from 8 am to 4 pm

By plane

High frequency service from/to Copenhagen: More than 30 daily flights where the flying time is about 35 minutes. Copenhagen is the main air traffic hub in Northern Europe and served by 70 international airlines flying non-stop from 120 cities around the world.

Three daily 75-minute flights directly from Amsterdam Schiphol operated by KLM, connecting with 260 destinations worldwide. Moreover, Norwegian operates a route to or from London three days weekly. For the Scandinavian visitors, SAS and British Airways connect Oslo, Norway with Aalborg 5-6 days weekly.

By train

Direct routes to Aalborg from many cities across the country by DSB (dsb.dk/en/). Intercity trains between Copenhagen and Aalborg run on an hourly basis. The trains also run internationally.

By bus

Long-distance bus routes link Aalborg with Copenhagen, Odense, Esbjerg and other major cities in Denmark and around Europe. Buses are also operated locally in the region and within Aalborg by Abildskou (https://www.abildskou.dk/) and rødbillet (http://rodbillet.dk).



Notes



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