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General Information

CONFERENCE VENUE: Gent ICC – International Convention Center

Van Rysselberghedreef 2 - Citadelpark, 9000 Gent, Belgium

CONFERENCE DATES: From Monday 6 until Friday 10 September, 2021

TUTORIALS: Monday, the 6th of September 2021

WELCOME COCKTAIL: Tuesday, the 7th of September 2021

GALA DINNER: Wednesday, the 8th of September 2021

TECHNICAL VISITS: Friday, the 10th of September 2021

TECHNICAL SECRETARIAT: EPE Association

C/o Vrije Universiteit Brussel - IrW - ETEC

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INFORMATION: URL: http://www.epe2021.com

E-mail: info@epe2021.com

OFFICIAL LANGUAGE: The official language of the Conference is English.

Simultaneous translation will not be provided.

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Welcome to Ghent

GHENT, A CITY WITH A GREAT HISTORY...



The history of Ghent begins in the year 630 when St Amandus chose the site of the confluence (or 'Ganda') of the two rivers, the Lys and the Scheldt, to construct an abbey. Nearly 1400 years of history are still palpable in the city today: a medieval castle surrounded by a moat, an imposing cathedral, a belfry, three beguinages... Nowhere else does one find so much history per square metre than in the historical heart of Ghent!

From the year 1000 to around 1550, Ghent was

one of the most important cities in Europe. It was bigger than London and second only to Paris in size. The 60,000 inhabitants it had in the 14th century clung forcefully to their rights: earls and princes discovered that the proud and rebellious people of Ghent would not relinquish their hardwon privileges and freedoms without a fight.

Until the Battle of the Golden Spurs in 1302, the city was ruled by a number of rich merchant families. Because they mostly chose the side of the French king against the Count of Flanders, the people gave them the nickname 'Leliaerts', derived from the lily on the French coat of arms. As the trades and guilds gained more political power in the 14th century, Ghent came to acquire a more democratic government.

Over the centuries the inhabitants of Ghent remained true to their reputation of being headstrong and awkward. They even rebelled against their own child prince, Charles V. But that was a bridge too far: the citizens of Ghent were publicly humiliated and the Klokke Roeland, the symbol of Ghent's independence, was removed from the Belfry. The once powerful city-state had literally and figuratively fallen to its knees.

The economic situation also gradually worsened. The city lost its passage to the sea and the population decreased by half. Only in the second half of the 18th century was there an economic revival. In 1816, under Dutch administration, Ghent acquired its own university. As a commemoration, a statue of king William I of the Netherlands, founder of the University, was unveiled on Reep. Ten years later the city again became a sea port thanks to the Ghent-Terneuzen canal.

Nevertheless, Ghent still continued to sail against the tide: during Belgium's independence struggle many inhabitants remained loyal to the Dutch House of Orange. Ghent later became the continent's first large industrial centre. As a result, it was here that the socialist movement and the first trade union associations appeared.

In 1913, Ghent showed its best side during the World Exhibition. Because it suffered little bomb damage during the two world wars, Ghent's historical heritage has remained largely intact right up to the present, as you will be able to see with your own eyes...

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SO MUCH GHENT – DISCOVER IT YOURSELF

'The historic heart of Flanders', 'a city of all ages', 'Mediaeval Manhattan' and 'Europe's best-kept secret': the nicknames Ghent has collected over the years are as colourful as the city itself. Walk through the centre of Ghent and you will immediately see why it has won so many tourism prizes and earned so much international acclaim.

Nowhere else can you flit so quickly from the 14th to the 21st century and back again, without feeling out-of-place for a minute.



Ghent is full of charming history and modern-day fun. Vibrant Ghent is well worth a stay. Quirky Ghent offers a fascinating cultural cocktail brimming with trendy, modern urban life. It is a city where people enjoy the good life: a chilled-out place where anything goes and a city that feels human. National Geographic Traveller Magazine calls Ghent the most authentic historic city in the world, and it is buzzing with life 24 hours a day.

Ghent has to be not just seen but experienced. Take your time, get lost in the historic centre, explore the museums, enjoy our culinary talent and throw yourself into the bustling nightlife.

Below are 10 tips on what to see and do in Ghent:

1. The Castle of the Counts

A trip to Ghent is simply not complete without a visit to the mysterious 'Castle of the Counts'. This important sight in Ghent is a castle with a very turbulent past, closely intertwined with the complex—often stormy—political and social history of the city. It is the only remaining mediaeval castle with a moat and largely intact defence system in Flanders. Your visit to the Castle of the Counts will give you a complete picture of heraldic culture in the 12th century. The gatehouse, ramparts,



keep, count's residence and stables are open to visitors. The Castle of the Counts boasts a unique collection of torture equipment. What used to be the pantry now features the torture equipment, which is displayed in a suggestive executioner's cabinet. The former courtroom features the collection of judicial objects. The Castle of the Counts also hosts all kinds of cultural activities, events and activities, for example during the Ghent Festivities. It is also a popular place to get married for Ghent's locals.

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2. The Ghent Altarpiece: supreme divine art



© Wikipedia / Web Gallery of Art

The Ghent Altarpiece, or 'The Adoration of the Mystic Lamb' by the Van Eyck brothers, completed in 1432, is recognized worldwide as a great work of art, and one of the most influential paintings ever made. It is an absolute must-see during your stay in Ghent. A total of 18 panels form a magical evocation of scenes from the Bible, as well as a portrait of the church warden, Joos Vijd, who commissioned the altarpiece, and his wife Elisabeth Borluut. The monumental Ghent Altarpiece was painted on oak panels covered in thin layers of a mixture of chalk and animal glue. The figures were applied in several layers of oil paint. The combination of the painstaking work and transparent paint creates an extra dimension. Discover it for yourself as you stand in front of this masterpiece. You will see that an inner glow seems to radiate from the painting: the light of the divine.

3. History on the Graslei and Korenlei



Ships have been docking here since the 11th century and Ghent wouldn't have it any other way. The beauty of the Graslei in Ghent brings everyone and everything to a standstill. This is the place where beautiful façades are reflected in the River Lys. Tourists and residents like to relax on either side of

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the water, whether dangling their legs over the quay, or sitting comfortably at a café terrace. The houses by the water live and breathe history. The *Cooremetershuys* is now an accessory store. In the Middle Ages, however, the official corn measurer presided over the grain trade there. Have a good look at the completely restored façade of the Guild House of the Free Sailors as well. A lot of money has been invested in this building over the centuries, and it shows! The stately stepped gable from the old corn store has been watching over the town since the 13th century.

4. Old St Elizabeth Beguinage

The beguinages of Flanders and the Netherlands are always oases of calm and stillness, where you

might still expect to see an old beguine mumbling her prayers in a doorway. Two of Ghent's three beguinages have been included on the UNESCO World Heritage list. Although the Old St Elizabeth Beguinage, in *Begijnhofdries* in Ghent, is no longer enclosed by a wall, making it simply part of the city, it still has a unique atmosphere. Today the Old St Elizabeth Beguinage is known as 'holy corner', a place of religious tolerance, because it has no less than



three different churches: one is Roman Catholic, one is Orthodox and the other is Protestant.

5. Ghent Belfry, world heritage

Look up at the magical city skyline: you can't miss it. The Belfry is the middle tower in the famous row of three, between St Bavo's Cathedral and St Nicholas' Church. A fiery dragon, the proud symbol and mascot of Ghent, guards the historic heart of the city. The Ghent Belfry symbolises the city's prosperity and independence. The Cloth Hall, built onto the Belfry, was completed in 1907. The flamboyant Brabant Gothic style of the Cloth Hall is an ode to the industry to which Ghent owes so much. Every Sunday morning you can hear the carillonneur at work between 11 am and 12 noon, and you can enjoy a carillon concert on the first Friday of each month from 8 to 9 pm. In the summer months, the concert takes place every Saturday night! The Ghent Belfry is a recognised UNESCO World Heritage.



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6. St Michael's Bridge, romantic Ghent



St Michael's Bridge is the place for romantic hearts. Wherever you look, there is a breathtaking view: you are surrounded by 360 degrees of Ghent's charming beauty. Get an extra-special fairy-tale view of the heart of Ghent at twilight, when all the historic sights are gorgeously illuminated. St Michael's Bridge used to be a flat turntable bridge, but it was replaced by stone arches at the beginning of the 20th century. In the middle of the bridge is a beautiful central lantern with a bronze statue of St Michael.

7. St Bavo's Cathedral: majestic tower



This magnificent sight on *Sint-Baafsplein* in Ghent is a proud old lady: don't just walk past her on your city trip. St Bavo's Cathedral is the oldest parish church in the lively heart of Ghent. It stands on the site of a 10th century church and a 12th century Romanesque church. The latter was dedicated to St John the Baptist. In the Middle Ages, Ghent was a rich and powerful city that had the means to commission ever-larger and more opulent churches. So the Church of St John the Baptist was converted during the 15th and 16th centuries into the imposing Gothic St Bavo's Cathedral.

8. Magical Ghent in the evening

As evening falls, the daylight in Ghent does not simply make way for the streetlights. There is light art to enjoy as well. Streets, squares and buildings are covered in an artistic light display. It is almost as though the city were getting dressed up for the theatre. The effect is awe-inspiring. Discover Ghent Alight and immerse yourself in this de-light-ful evening experience! The Ghent Light Plan was first designed in 1998. The idea was to provide sustainable lighting



for the city without wasting energy. But at the same time, it has transformed the centre of Ghent into a magical nocturnal landscape of light and shadow. Architectural accents, streets, monuments and squares are lit up to display them at their best. Ghent is a leading light in combining environmentally conscious lighting with beauty. Let the play of atmospheric lights spark your imagination. Rediscover the city by night in a whole different way. The city has received many prizes and international acclaim for its pioneering role in integrated city lighting and illumination.

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9. Ghent: City of Art

Do you like modern art or would you rather look at paintings by the Flemish Old Masters? In Ghent you will find the past right alongside the present. Centuries of history and culture go hand in hand here with contemporary liveliness and modern creativity. Each of the museums in Ghent is an experience in its own right.

A wide range of themes such as psychiatry, the visual arts or the city's industrial past offer something for everyone. The Adoration of the Mystic Lamb by the Van Eyck brothers is one of Ghent's absolute top attractions. Every season, the S.M.A.K. comes up with astonishing international exhibitions at world level.





10. Ghent for Foodies

Of all the culinary specialities of the region, Ghent waterzooi is undoubtedly the best known. Ghent also has one of the most exciting culinary scenes in Europe. Proportionally, the city has more vegetarian restaurants than say Paris or London, and therefore calls itself the veggie capital of Europe, a title to be proud of! There are dozens of fun, unique little restaurants, shops and there is even an organic supermarket!







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GHENT UNIVERSITY



CAMPUS BOEKENTOREN WITH THE ROZIER-PLATEAUCOMPLEX, UNIVERSITY LIBRARY & BLANDIJNBERG
© UGENT. FOTO JONAS VANDECASTEELE & YENTL VANDENDRIESSCHE

Ghent University, a top 100 university and one of the major universities in Belgium, was established by King William I of the Netherlands in 1817. After the Belgian revolution of 1830, the newly formed Belgian state began to administer the university. Ghent University is one of the biggest Flemish universities with about 44,000 students and 9,000 staff members. 11 faculties offer more than 200 courses and conduct in-depth research within a wide range of scientific domains. Ghent University Global Campus is also the first European university in Songdo, South Korea.

EELab – the Electrical Energy Laboratory

Part of the Faculty of Engineering and Architecture, Department of Electromechanical, Systems and

Metal Engineering, is the Electrical Energy Laboratory. This research group, EELab, is active in various areas of electrical energy conversion, electrical drives (electrical machines, power electronics for drives, and control of drives), electromagnetic field calculations (development of FE software for field calculations and application to the design of electromagnetic devices), magnetic material modelling and characterization and electrical power networks (including also power electronic converters for mains applications).



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At the Electrical Energy Laboratory, research is performed in the following areas:

- Low frequency electromagnetic fields and magnetic materials;
- Power Systems;
- Power Electronics;
- Drive Systems and control for electrical machines;
- Energy and cluster management.

Next to these research areas, the following (non-exhaustive) list of services is offered to industry:

- Experimental identification of magnetic properties of ferromagnetic materials: magnetic measurements of magnetization curves, hysteresis loops, electromagnetic losses, ...
- Numerical electromagnetic and thermal field computations: the numerical computations are combined with routines for optimizing low frequency electromagnetic devices.
- Design of active and passive magnetic shields for low frequency applications such as power cables, induction heating,...
- Optimization and design of electrical machines with high efficiency, based on numerical models and optimization routines, and experimental testing
- Control, design, optimization and condition monitoring of dynamic drivetrains driven by electric and hydraulic actuators
- Lemcko, as part of EELAB, is specialised in troubleshooting power quality and EMI problems
 in electrical grids and industrial automation networks. Lemcko also assists on the
 development of new electrical and electronic devices and can perform pre-/full-compliant
 testing according to the relevant European Standards. Lemcko gives education on-demand
 on these topics.
- EELab is member of Flanders Make, the strategic research centre in Flanders for the manufacturing industry







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- More information about the University of Ghent: https://www.ugent.be/en/
- More information about the Electrical Energy Laboratory: https://www.ugent.be/ea/eemmecs/en/research/eelab/electrical-energy-laboratory

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Gent ICC – International Convention Center

Van Rysselberghedreef 2 - Citadelpark, 9000 Gent, Belgium

Gent ICC: https://www.iccghent.com/?lang=en

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EPE ECCE Europe Conference

AIMS OF THE CONFERENCE

The EPE ECCE Europe conference is the largest in its field, attracting experts from numerous countries every year to join in the discussions. With the objective to exchange and meet fellow professionals and academics, the EPE ECCE Europe conference brings together researchers, engineers, etc. working at the forefront of power electronics technologies. For this type of event, where the future role of power electronics in this ecological and technological revolution will be explored, the EPE ECCE Europe conference is one of the privileged places. EPE ECCE Europe Ghent 2021 will provide the opportunity to discuss a number of subjects, not only during the lecture and poster sessions of the conference but also at the exhibition, industrial forums and tutorials.

ORGANIZATION AND VENUE

The Power Electronics community will gather in **Ghent**, Belgium, from 6 to 10 September 2021, to exchange views on research progresses and technological developments in the various topics described hereunder. On Monday 6 September a number of tutorials will be organised and several technical visits are planned on Friday 10 September.

The 23rd Conference on Power Electronics and Applications (and Exhibition), EPE'21 ECCE (Energy Conversion Congress and Expo) Europe is co-sponsored by the EPE Association and IEEE PELS. It will take place at the Gent ICC – International Convention Center.



EPE'18 ECCE Europe, Riga – Exhibition and dialogue sessions

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LIST OF TOPICS

Electrification of mobile and non-mobile systems is progressing fast. Novel battery systems are being developed not only for drones, passenger cars and heavy-duty vehicle applications, but also for stationary storage applications. They need intelligent Battery Management Systems and control units as well as appropriate charging devices. For vehicle applications, high-power charging stations are being developed to reduce charging time. Bi-directional V2X charging systems allow for better grid management and, when combined with smart charging, for an increased share of renewables in the electricity mix. Power electronics interfaces, with their emerging wide bandgap (WBG) technologies (such as SiC and GaN), are a key element in these developments towards high energy-efficient systems. The reliability aspect is crucial in these and many other applications. Considering the reliability aspect in the design phase of battery systems, drivetrains, charging systems with both AC and DC networks, etc., will improve the lifespan of those systems and provide more robustness with less maintenance.

The EPE ECCE Europe conference is the largest in its field, attracting experts from numerous countries every year to join in the discussions. With the objective to exchange and meet fellow professionals and academics, the EPE ECCE Europe conference brings together researchers, engineers, etc. working at the forefront of power electronics technologies. For this type of event, where the future role of power electronics in this ecological and technological revolution will be explored, the EPE ECCE Europe conference is one of the privileged places. EPE ECCE Europe Ghent 2021 will provide the opportunity to discuss a number of subjects, not only during the lecture and poster sessions of the conference but also at the exhibition, industrial forums and tutorials.

On top of the tutorials, lecture and dialogue sessions and technical visits, the organising committees will propose several discussion sessions within the industrial forums as well as special sessions of power electronics related trends. The conference will specifically focus on the following challenging topics:

Tuesday, the 7th of September 2021: **Battery Systems** (BMS, Balancing Circuits, Control Units,...)

Wednesday, the 8th of September 2021: **Transportation Electrification** (Charging Systems, V2X, Energy Management,...)

Thursday, the 9th of September 2021: **Reliability of Power Electronic Systems and Components**(Failure Mechanisms, Predictive Algorithms,...)

The conference topics are as follows:

I POWER ELECTRONICS COMPONENTS AND CONVERTERS

Topic 1: DEVICES, COMPONENTS, PACKAGING AND SYSTEM INTEGRATION

1.a. Passive Components

1.b. Active Devices and Components (Si)

1.c. Active Devices and Components (Wide Bandgap and other new materials)

1.d. Components and Devices for Specific Applications, including for Pulsed Power

1.e. System Integration, Packaging & Thermal Management

1.f. Reliability & Life-Time

Topic 2: POWER CONVERTERS TOPOLOGIES

2.a. Modular Multilevel Converters

2.b. Solid State Transformers

2.c. Grid Connected Converters

2.d. Resonant Converters

2.e. HF Power Converters

2.f. Wide-Band Gap Power Electronics













Topic 3: CONVERTER MODELLING, DESIGN AND LOW-LEVEL CONTROL

- 3.a. Converter Design and Optimisation
- 3.b. Converter Modelling and Low-level Control, including Gate-Drives
- 3.c. EMI/EMC in Power Electronics including HF Phenomena

Topic 4: MEASUREMENT, SUPERVISION AND CONTROL FOR POWER CONVERTERS

- 4.a. Standard and Advanced Modulation Techniques
- 4.b. Standard and Advanced Current / Voltage / Synchronization Control Techniques
- 4.c. Estimation, Identification and Optimisation Methods
- 4.d. Measurement Techniques, Sensors and State Observers
- 4.e. Condition Monitoring and Life-Time Prediction

II POWER ELECTRONICS APPLICATIONS

Topic 5: ELECTRICAL MACHINES AND DRIVE SYSTEMS

- 5.a. Electrical Machines and Actuators
- 5.b. Adjustable-Speed Drives and Converter-Machine Interactions
- 5.c. Design, Optimisation and Control of Electric Drives
- 5.d. Condition Monitoring and Life-Time Prediction

Topic 6: RENEWABLE ENERGY POWER SYSTEMS

- 6.a. Wind-Energy Systems
- 6.b. Solar-Energy Systems
- 6.c. Other Renewable-Energy Systems
- 6.d. Energy Harvesting
- 6.e. Energy Storage Systems for Renewable Energy

Topic 7: GRIDS, SMART GRIDS, AC & DC

- 7.a. Power Electronics in Transmission and Distribution Systems
- 7.b. HVDC & FACTS
- 7.c. Micro-Grids
- 7.d. Smart Grids
- 7.e. Mobile Power Stations

- 7.f. Power Quality Issues and Power Factor Correction Techniques
- 7.g. DC Grids including Fault Coordination and Protection
- 7.h. Hybrid Circuit Breakers
- 7.i. Real-Time Simulation and Hardware in the Loop

Topic 8: E-MOBILITY

- 8.a. Electric Drive Trains for On- and Off-Road Vehicles
- 8.b. Electric Drive Trains for Rail Vehicles
- 8.c. Electric Drive Trains for Aerospace and Space Applications
- 8.d. Electric Drive Trains for Marine Applications (Offshore, Subsea and Ships)
- 8.e. On-Board Power Converters
- 8.f. Batteries: Management Systems (BMS), Monitoring and Life-Time Prediction
- 8.g. Vehicle Battery Chargers: Contact and Contactless
- 8.h. Fuel Cells: Converters, Control, Diagnostics and System Integration
- 8.i. Smart Charging and Vehicle to Grid Interaction

Topic 9: POWER SUPPLIES AND INDUSTRY-SPECIFIC APPLICATIONS

- 9.a. Low Voltage DC Power Supplies
- 9.b. High Voltage DC Power Supplies
- 9.c. Distributed Power Supplies
- 9.d. Uninterruptible Power Supplies (UPS)
- 9.e. Lighting: Solid-State Lighting and Electronic ballasts
- 9.f. Contactless (Wireless) Power Supply
- 9.g. Industry-Specific Applications (Cement, Steel, Paper, Textile, Mining, etc...)
- 9.h. Applications in Physics Research and Related Areas

Topic 10: DATA ANALYSIS, ARTIFICIAL INTELLIGENCE AND COMMUNICATION

- 10.a. Data Analysis applied to Power Electronics and Drive Systems
- 10.b. Application of Artificial Intelligence to Power Electronics and Drive Systems
- 10.c. Communication for Power Electronics and Drive Systems
- 10.d. Wireless Control
- 10.e. Diagnostics

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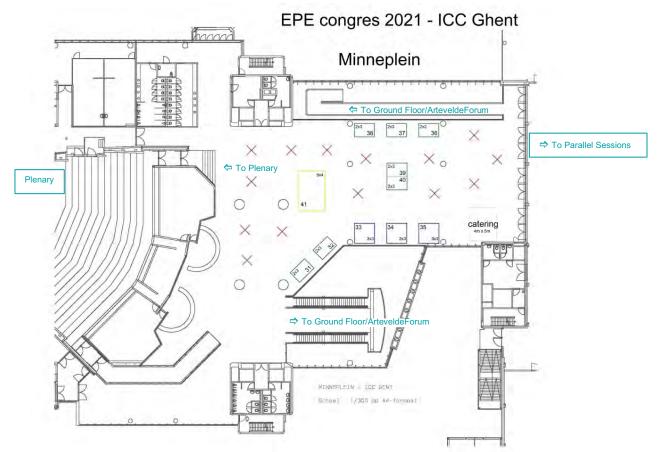




GENT ICC - EXHIBITION MAP

EPE congres 2021 - ICC Ghent















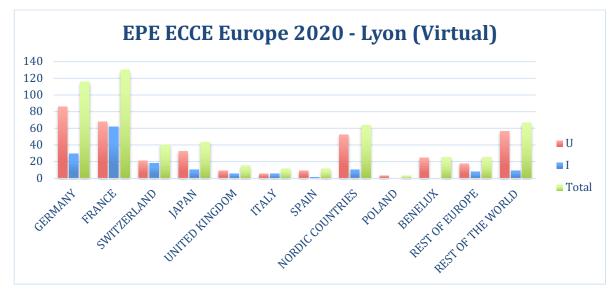
Facts and Figures

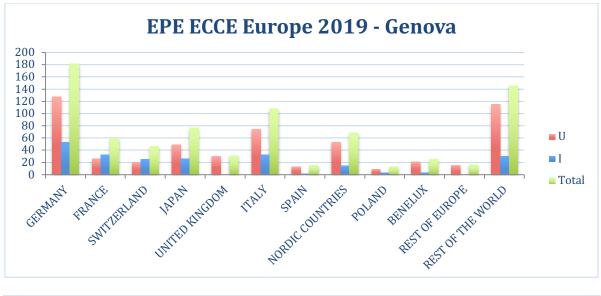
PARTICIPATION AT PREVIOUS EDITIONS

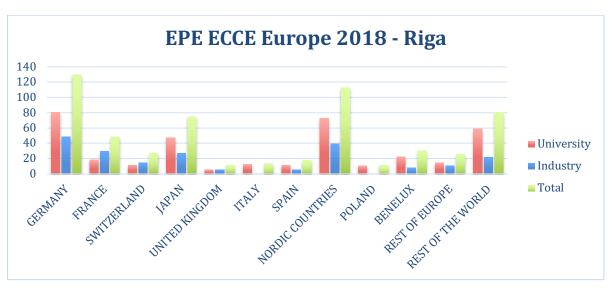
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750	Nº of participants:	enoble, France	1987:
850	Nº of participants:	chen, Germany	1989:
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750	Nº of participants:	ghton, United Kingdom	1993:
800	Nº of participants:	rille, Spain	1995:
975	Nº of participants:	ndheim, Norway	1997:
1040	Nº of participants:	isanne, Switzerland	1999:
850	Nº of participants:	ız, Austria	2001:
1000	Nº of participants:	ulouse, France	2003:
805	Nº of participants:	esden, Germany	2005:
875	Nº of participants:	borg, Denmark	2007:
1130	Nº of participants:	celona, Spain	2009:
1002	Nº of participants:	mingham, United Kingdom	2011:
1107	Nº of participants:	e, France	2013:
653	Nº of participants:	peenranta, Finland	2014:
970	Nº of participants:	neva, Switzerland	2015:
919	Nº of participants:	lsruhe, Germany	2016:
913	Nº of participants:	rsaw, Poland	2017:
650	N° of participants:	a, Latvia	2018:
950	N° of participants:	nova, Italy	2019:
565	N° of participants:	n, France (VIRTUAL)	2020:



PARTICIPANTS - STATISTICS FROM PREVIOUS EPE ECCE EUROPE CONFERENCES







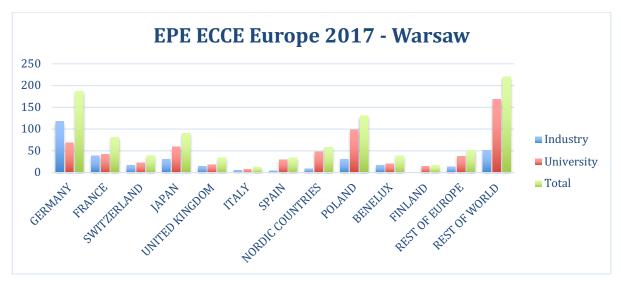


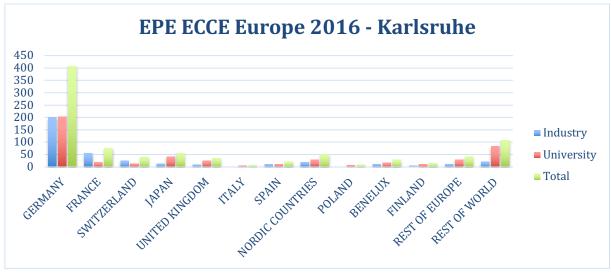


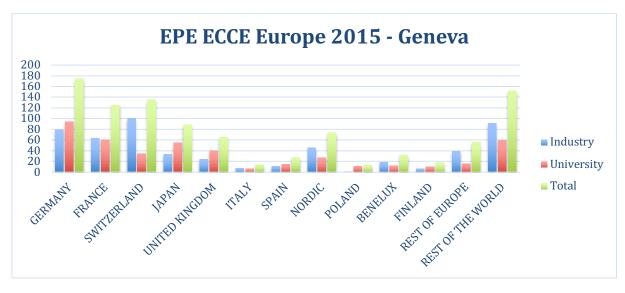












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EXHIBITORS FROM 2011 TO 2020 AT EPE ECCE EUROPE

ABB Semiconductor **PVA TePla Analytical Systems**

ADMESS Elektronik ICEL-KENDEIL RENAULT Adwatec Oy **IEEE PELS** RGM SpA

Agilent Technologies IET Rohde & Schwarz Allatherm imec **ROHM Semiconductor** Alstom SAFRAN Group

imperix

AMS Technologies Imtech Industry International Science City Research Alliance **ANSYS** Intelec 2011 ScienLac Electronic Systems

Applied Magnetics ISE Magnetics Sensitec Axco-Motors Oy John G. Peck Ltd SERIGROUP srl AVL Johann Lasslop **SEW-EURODRIVE** Behlke Power Electronics **Kaschke Components SIEMENS**

Keysight Technologies Boige & Vignal Transport SMA Solar Technology Boschman / APC Kontram Oy Speedgoat

Bs&T Frankfurt am Main GmbH Leclanché Capacitors SP Control Technologies **CALTEST Instruments LEM International** SRT Microcéramique

CEDRAT Lemsys Stäubli **CINERGIA** Linksium- EPICUB-G2Elab STS GmbH & Co KG COMER srl Magna-Power Electronics SuperGrid Institute Converteam Manitoba Hydro International - PS **Taylor & Francis Group**

CAD Technika Obliczeniowa **CST-Computer Simulation**

MathWorks LTD Technosoft SA Technology DACPOL MDL Technologie TEKNOCEA/CITCEA-UPC MeasureIT (National Instrument) Daimler Teledyne LeCroy

DEWESoft Mentor Graphics TESPOL Dewetron Mersen Thales Alenia Space Belgium Mesago PCIM GmbH **Thales Micrelectronics** Drive eO

dSPACE Methode Electronics The Ampère House **TOWERJAZZ** Dynex Mitsubishi Electric Europe **ECPE** MONT-ELE Transfer Multisort Elektronik

MUECAP GmbH - ICEL s.r.l **EEI SpA** Transphorm **EGSTON System Electronics National Instruments** Transtechnik GmbH & Co KG

NIDEC INDUSTRIAL SOLUTIONS **Electronic Concepts Europe** Transys

FTRI **OCEM Power Electronic** Triphase nv.

EUROCONTROL SpA TRUMPF Huettinger Omicron Lab **FTCap Opal-RT Technologies TRW**

PEM UK - Power Electronic FuG Elektronik **TWERD Power Electronics**

Fuji Electric Europe Typhoon HIL

Phase Motion Control S.p.A. United Technologies Research **GaN Systems Gecko Simulation** Plexim GmbH Center

General Electric **PMK** VACON Goaland Pole MEDEE VISEDO **GvA Power Electronics** Poseico SpA Wiley Blackwell HF Instruments & IWATSU Positronic Europe Yokogawa Europe

ZES Zimmer HIMAG Power Design

Power Electronic Measurements HIOKI E.E. CORPORATION Zurich Instruments AG **POWERSYS** HBM-Hottinger Baldwin Messtechnik Hrep & Westcode PPM

Pulse MC2

HVP High Voltage Products